Title
Strategic Habitat Analysis for Bees in California: Development and Application of Spatial and Temporal Habitat Models to Assess Patch Dynamics and Potential Landscape Fragmentation to Design Novel Ecosystems for Resilient Landscapes

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Strategic Habitat Analysis for Bees in California: Development and Application of Spatial and Temporal Habitat Models to Assess Patch Dynamics and Potential Landscape Fragmentation to Design Novel Ecosystems for Resilient Landscapes

By

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DISSERTATION

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DAVIS

Approved:

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Committee in Charge

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Dedication

To Leo, who has not yet known life without me in graduate school.

To my family who has never given up on me.

To Zoe. I love you forever, rest in peace.

Overall Dissertation Abstract

This research contributes to solving current bee habitat shortcomings affecting native and naturalized bees in California and identifies strategic habitat best management practices for novel ecosystems. Habitat loss and fragmentation are major causes of decline in bee populations today. Targeted, strategic habitat analysis and modifications could help to boost both habitat connectivity and habitat for bees. First, this research takes a novel approach to habitat analysis by building bee-to-plant habitat relationships foraging models. A presence-only bee-to-plant foraging matrix was compiled from existing literature and contains 23 bee genera and 134 plant genera. This bee foraging matrix was field-tested, and validated to assess its accuracy by weekly observations in 35 gardens at the UC Davis Arboretum and Public Garden over one calendar year. Findings suggest existing 'pollinator friendly' plant lists for California bees have significant shortcomings in predicting foraging associations. These results suggest that for the vast majority of bees in California, the existing literature reflects little of their foraging associations. Novel associations demonstrating high foraging frequencies and attracting many bee genera should be considered for improving designed bee habitats. Next, this research uses geographic information systems (GIS) to spatially measure the geographic distances between pollinator foraging plants throughout one year. Assessments of the expected (potential) habitats and observed (utilized) foraging associations further test the ability of recommended plant lists in their ability to attract and sustain bee genera. Examining these results spatially helps to shed light onto how bee habitat fragmentation occurs over a landscape. GIS mapping technology helps to show geographically how bee foraging trends are spatially and temporally distributed, giving further insight into how pollinator habitat networks function and where gaps occur. Comparison between the 35 themed gardens allowed assessment of their value as ecosystems and to gauge the level of pollination ecosystem services they provide. Additionally, due to the linear layout of the Arboretum it is possible to test habitat fragmentation among individual bee genera and the gardens. Since bees vary greatly in their foraging range abilities, those differences in range were accounted for in the mapping model. Spatial habitat analysis is done to compare potential versus actual bee feeding trends and how bee feeding habitat utilization works in a landscape system. Furthermore, the characteristics which make each garden successful as habitat or not are examined. By examining the Arboretum thoroughly from bees' perspectives, it is possible to identify ecological shortcomings of the Anthroscape and design ecologically strategic and precise habitat solutions to habitat fragmentation. This research aims to boost habitat connectivity and bee population persistence, in doing so, protecting pollination networks and services.

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Title: Strategic habitat analysis for bees in California: Validation of foraging associations to improve bee habitat and conservation in novel ecosystems

Abstract:
This study evaluates foraging habitat for native and naturalized bees in California and identifies strategies for best habitat management practices for novel ecosystems. Habitat loss and fragmentation are cited as the major causes of decline in bee populations. These problems call for conservation actions. The approach taken was to perform habitat analysis in order to build wildlife habitat relationships (WHR) bee-to-plant foraging models. Ordinarily used for vertebrate animals, this approach tested if these types of WHR models could be applied to bees in California. A presence-only bee-to-plant foraging matrix was compiled from existing literature and contains 23 bee genera and 134 plant genera. This bee foraging matrix was field-tested, and validated to assess its accuracy through weekly observations in 35 gardens at the UC Davis Arboretum and Public Garden over an entire calendar year. Findings suggest existing 'pollinator friendly' plant lists for California bees have significant shortcomings in predicting foraging associations. A key finding of this research is that more than three times the unique bee-to-plant foraging associations were observed (297) than predicted (96). In terms of accuracy, the overall average (mean) true positive fraction for correctly predicting bee genera (from existing literature) was found to be 0.14 (this sensitivity score ranged in values from 0 to 0.5) and likewise, the overall omission error rate, or false negative fraction, was found to be 0.86 (ranging from 0.7 to 1.0). The model independence tests for each respective bee genus observed reveals that 15 of the 28 observed bee genera models are highly significant at levels below 0.01 (p-value) with degrees of freedom ranging from 1-237. These results suggest that for the vast majority of bees in California, the existing literature reflects very little of their foraging associations. A better understanding of bee and plant associations is needed for strategic bee habitat stewardship. This research identifies novel plants, not previously included in the literature, which support foraging for bees in California. Novel associations demonstrating high foraging frequencies and attracting many bee genera should be considered for improving designed bee habitats. These findings support reconciliation ecology as an effective approach for bee conservation and habitat designs.

Keywords: bees, pollinators, reconciliation ecology, habitat, planting design

Research Highlights:

- Bee habitat fragmentation begins at the bee-to-plant foraging level.
- Lists of bee friendly plants in the existing literature are inadequate.
- Bee habitat in novel ecosystems can be strategically improved by garden design.
- Many non-native plants provide foraging habitat for diverse California native bees.

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1. Introduction

1.1 The importance of bees

Globally, animal pollination benefits around 75% of important crops by improving yield, quality and crop stability (Klein et al., 2006; Lonsdorf et al., 2011; Rogers, et al., 2014). Bees are the primary pollinators (Frankie 2014; Xerces 2011). In California, there are approximately 1,600-2,000 species of bees in the state of California, USA, (AMNH, 2018; Michener 2007), of which only 17 genera composed of 46 species commonly occur in California (Frankie et al., 2014). Bees, both California native and exotic naturalized European honey bees, are the primary pollinators of 35% of all crops for human food production (Klein et al., 2006, Losey and Vaughan 2006). Even with this richness, there is evidence of species and population declines (Forister et al., 2019; Mathiasson and Rehan 2019; Potts et al., 2010) that suggest finding new ways to support these critical suppliers of ecosystem services is important. One potential avenue for supporting pollinators is to modify human dominated landscapes.

With so many bee species found in California there is potential for further integration of bees into human-dominated environments. Unique horticultural planting designs represent novel ecosystems (sensu Hobbs et al., 2009; Hobbs et al., 2013) to pollinators. This research aims to gain clarity and understanding about which California naturalized and native bees use horticultural plantings (both native and exotic species) in novel ecosystems. These novel ecosystems, uniquely manmade planting combinations, are prevalent in most urban and agricultural landscapes and could act as population sources or 'reservoirs' for crop pollination or for native bee conservation. The degree to which horticultural urban plantings are acting as ecological foraging habitat needs to be examined closely.

1.2 Bee habitat issues

Habitat loss and fragmentation are often cited as the main reasons for declines in California native bee populations (Williams et al., 2010; Winfree et al., 2011a; Koh et al., 2016). Human development by urban and agricultural land uses of what was once a continuous natural bee landscape causes smaller, more spatially isolated habitat patches that can result in population extirpation (i.e., local extinction) and ultimately species extinction (Hinners and Hjelmroos-Koski 2009; Kearns et al., 1998; Winfree et al., 2011a). How bees respond to fragmentation varies, but it is essential to better understand this process to mitigate its effects (Potts et al., 2010; Winfree et al., 2011a).

Other factors contributing to the magnitude of bee population declines due to habitat fragmentation include differences in the foraging range, dispersal ability, distance between patches, body size, feeding specializations, and population size (Carrie et al., 2017; Tscharntke and Brandl 2004). For example, different bees vary widely in their foraging radii (Greenleaf et al., 2007); the longest-distance disperser, *Apis melifera* (European honey bees) can forage approximately 3.2 km (2 mi) from their hive, whereas other small bodied bees such as the California native bee, *Hylaeus* sp., are estimated to forage just 182 m (0.11 mi) from a nest (Xerces, 2011a). An array of studies and responses must thus be considered from an autecological perspective. We found three major issues with current bee habitat conservation efforts: 1) Floral resources are critical, 2) There is currently a lack of shared terminology to describe the interactions between bees and forage plants, and 3) Lists of “bee plants” contain few overlaps.

1.2.1 Bee landscape structure is composed of floral resources

A critical aspect of bees' interactions with their surroundings is the plants they use for forage. Studying bees' foraging preferences can help to determine whether a habitat is suitable or not. Seen in this way, groupings of suitable plants represent favorable habitat, and unutilized or unfavorable plants represent gaps in habitat value. If foraging plants are lacking, bees will experience a mismatch in the ecological setting. By studying feeding preferences, we can begin to build effective bee friendly conservation landscapes.

Enhancing landscape structure and function is a favored solution towards alleviating bee habitat fragmentation issues (Hinners and Hjelmroos-Koski, 2009; Xerces 2011a). This is a similar approach to land management for vertebrate conservation (Verner et al., 1986). The general theory is to build ideal habitat and that animal species will come. With vertebrate conservation, much work has been done to understand which landscape aspects are attractive. However, this level of research has not yet been done with invertebrates, including bees. The cornerstone current theory of landscape ecology is based on maximizing landscape structure, elements, and form to best suit selected animal species. This sort of habitat design has been done successfully for years with more charismatic animals and has proved to be a successful approach in materializing key species in ecologically designed sites (Cooperrider, 1986, Morrison et al. 2006; Verner et al., 1986). Thus, when assessing habitat suitability for bees, correcting plant resource deficiencies is essential. Moreover, bees vary in foraging preferences, and, therefore, it is essential to analyze the landscape from their various perspectives. This study uses an "organism-centered view" to conservation (sensu Wiens, 1985) and focuses on the suitability of foraging plants, to ensure basic bee foraging needs are better understood by scientists, conservationists, and landscape designers for strategic implementation.

1.2.2 Defining the term 'bee-to-plant association'

In recent years, there has been a trend of creating lists of plants for bees, the best of which are based on actual bee-to-plant foraging data (Garbuzov and Ratnieks, 2014a,b). The literature utilizes various terms to describe the connection between bees and their preferred foraging flowers, including: pollinator plants (Xerces 2011a), relative attraction (Frankie 2003), plants for pollinators (Pollinator Partnership 2011), bee friendly (Frey et al., 2016), among others. A more precise, ecologically-based way of describing the trends of bee foraging preference is the term 'association,' which has previously been used (see Armbruster and Guinn 1989; Frankie et al., 2009; Pacheco Filho et al., 2015), though not yet adopted as a standard term. We propose adopting the term 'bee-to-plant association' as the standard to describe the ecological trends of attraction by particular bees to certain plant's flowers. This research uses bee-to-plant associations either as a binary value (only accounts for presence/absence foraging) or as relative attraction associations (using frequency to account for the strength of the association). It is imperative that the relationship between bees and their foraging plants be proved and supported by scientific research so that designers can maximize bee habitat design effectivity.

1.2.3 Bee forage plant 'listmania' shortcomings

Characterized as "listmania," Garbuzov and Ratnieks (2014a:1019), reviewed 15 lists of 'plants for bees' in North America and Britain and found minimal overlap between the recommendations between the lists for similar geographic regions. The authors argue that the efficacy of how these plant lists function ecologically needs further study (Garbuzov and Ratnieks, 2014b). Within the existing literature there are numerous conflicts and inconsistencies between plant lists to determine which plants are best (Garbuzov and Ratnieks, 2014b).

However, in contrast to Garbuzov and Ratnieks (2014a), we believe that habitat solutions are likely to reflect localized climates and specializations among various geographic bee populations and, as Garbuzov and Ratnieks (2014a) found, lists of forage plants for bees will likely not have much overlap between world-wide geographically distant locations. This theory is part of a broader ecological theory stating that differences in sites and years may show different geographical mosaics of coevolution (Thompson and Fernandez 2006).

Identifying inadequacies in current bee plant lists is an essential first step in understanding how to improve bee habitats. There is a need for better empirical data on bee's use of plant resources, including the issues of locality, but also appropriateness of plantings for bees (Garbuzov and Ratnieks, 2014b). This study utilizes plant list datasets which were derived from empirical data, published by Frankie (2003) and Xerces (2011a,b). We test the strength of these Central Valley California geographically pertinent datasets on-site, to see how well they perform for bees, both naturalized and native, in California. At the time of fieldwork for this study these qualitatively tested datasets were both available to the public, designers included, and both reflect the climate locality of the Davis, California study site. In essence, this study explored the merits and limitations of pollinator plant lists which were available at the time. As Garbuzov and Ratnieks (2014a) points out, the strength of a model is only as good as the dataset from which it is built. For example, if both data sets are stated to be the best for bees- why would their plant species differ? Designers must have the best possible quantified plant lists to maximize pollinator habitat effectively.

1.3 Bee conservation as a means for pollination ecosystem service retention

Targeted, strategic habitat analysis and modifications could help to boost both habitat connectivity and native bee populations (Tonietto and Larkin 2017), and in doing so, protect pollination networks and services (Forister et al., 2019). Ultimately, conservation and stabilization of bee populations is vital for human resiliency (Goulson, 2019; Forister et al., 2019).

Due to the diversity and complexity of native bees and their habitat needs, it is vital to understand that protecting bee ecosystem services means conserving an entire suite of insects and considering their various feeding preferences in the process (Roulston and Goodell, 2011; Winfree 2011a). For example, of the approximately 20,000 species of the world's bees, about 4,000 of them live in North America, of which nearly 2,000 are in California (AMNH 2018). According to renowned bee entomologist Robbin Thorp there are 21-26 bee genera in Davis, California, with 58-72 species (R. Thorp, personal communication, 2018). In contrast, Frankie (2014) estimates that 17 genera and 46 species are commonly found in California. Effective conservation needs better basic information for guidance. A variety of bees should be studied in a site's location and management should strive to simultaneously meet the needs of the most important bees to maintain pollination ecosystem services (Garbuzov and Ratnieks, 2014b).

1.4 Wildlife-habitat relationships models

A major autecological framework for conducting habitat analysis is the application of wildlife-habitat relationships (WHR) modeling (Cooperrider, 1986, Morrison et al. 2006; Verner et al., 1986). A WHR model for any species typically consists of three life requisites defined by plant communities: feeding habitat, cover habitat, and reproductive habitat. Another component of WHR models is identifying essential (non-plant community) 'habitat elements' which can be living (plant or animal) or non-living (e.g., snags, logs, or rocks). Since plant communities tend to change over ecoregional spatial extents, WHR models can vary regionally. For instance, California has a well-developed WHR modelling system (see Mayer and Laudenslayer, 1988) and Oregon and Washington have a different system (Johnson and O'Neil, 2001). Historically, WHR models were created for predicting vertebrate animal occurrences, however, this study tests whether a WHR modeling approach, based on foraging data could be applied to California native and naturalized bees. WHR models have successfully been used for vertebrate animal conservation for many decades, but this approach has not yet been applied to study bees or other insects, to the authors' knowledge. We believe it is an important step to approach bee conservation from this point of view to identify critical ecological shortcomings (constraints) and to maximize conservation efforts (opportunities) using habitat models to guide best management practices.

1.5 Purpose of the study

Using a case study approach in the Central Valley ecoregion of California, the objectives of this research are to: (1) create foraging habitat models for California bee genera to improve habitat in anthropogenic environments (as opposed to natural areas), (2) determine which plant genera are best for naturalized and native California bees and determine their geographic origin, (3) document the annual pattern of bee visitation within the study site, and (4) assess and validate the accuracy of existing plant lists for bees (i.e., evaluate "list mania"). The key research questions are: (1) Which plant genera are associated with foraging by California native bee genera and European honey bees and what is the plant's geographic origin?, (2) What is the strength of those associations?, (3) How do these associations differ from previous work? and, (4) What is the frequency and redundancy of bee visitation to each garden by month (providing best habitat)? Ultimately, this study provides insight into which urban habitats (i.e., plant species and novel communities) provide the best floral resources to bee genera in California.

2. Materials and methods

2.1 Study area description

Located in California's Central Valley, the UC Davis Arboretum and Public Garden (Figure 1; hereafter 'Arboretum') is a unique environment to study bee-to-plant associations. Situated in a Mediterranean climate, 35 distinctly themed gardens (Figure 2) compose the linear Arboretum landscape, which spans approximately 2.4 km (1.5 mi) in length ("UC Davis Arboretum," 2014). Garden themes and names range from geographic (e.g., South African, Australian), to ecological (e.g., riparian, low water use), to special plant type (e.g., cottonwood). Some are more eclectic in planting theme; they are simply named after neighboring buildings (e.g., Mrak and King Halls). Importantly, each garden has a geographically defined border and is mapped to the plant species, subspecies, or cultivar level (Morgan and Greco 2019). The high-resolution Arboretum plant collection maps and ancillary aerial photography make spatial accuracy possible within two meters.

2.2 Creating a bee-to-plant foraging matrix and models from existing literature

Building a matrix of bee life history was the first step in creating a WHR model. Literature was searched to collect and compile existing information on bee-to-plant relationship lists for foraging associations, predominant nesting styles (not examined in this study), and foraging distances (tested in our forthcoming spatial study). In this study we concentrated on developing the foraging component of the model and did not test reproductive needs (this is beyond the scope of this study). We compiled a comprehensive matrix of bee foraging association data from four studies including: Frankie (2003, 2014) and Xerces (2011a,b). Most plants In the Arboretum collections are horticultural (exotic or native) plantings, but there are also some remnant native heritage trees which are long established and contribute strongly to plant community structure. We also included any associations to food crops, since ensuring pollination of agricultural crops has extreme importance and has received much attention in recent years (Londsdorf et al., 2011; Winfree et al., 2011b). It was unlikely that we would find crop plants in the Arboretum; however, plants of the same genus as food crops may be found. Quantifying bee-to-plant observations for crops and their close relatives should be a priority in future studies due to the gravity of importance. Meanwhile, with geographic juxtaposition, urban areas could help to support or subsidize pollination of crop plantings (Rojas-Lopez et al., 2020; Uzman et al., 2020). Moreover, urban pollinators could contribute to the greater ecology and food webs of their place, helping more than with human needs.

Table 1 shows the completed presence-only bee-to-plant foraging matrix, derived from literature-based observational, quantified data (i.e., foraging habitat preference based on site sampling). All of the Frankie and Xerces datasets were compiled by observing the relative attraction of bee-to-plant associations. Both studies tried to determine which plants are best for bees based on site observations by counting which plants received the most visits by bees. As a baseline for our study, Table 1 reports the sum total number of plants utilized for each native and naturalized bee genera and the sum total of the number of plants per bee genera.

Next, construction of the bee-to-plant foraging relationship models was done by first obtaining the Arboretum's plant collection geodatabase ("University of California," 2014), which has every planting mapped with geographic coordinates (Morgan and Greco, 2019) and supplementing those data with the CalFlora bloom time database (CalFlora, 2014). This was done for all Arboretum plant species and was added to the geodatabase using a table join function in ArcGIS (version 10.7, Esri, Redlands, CA). Approximately half of the Arboretum's plant list was supplemented with CalFlora's researched bloom times (the phenological information was utilized and emphasized in a forthcoming study). As the remaining half of the list's bloom times required further research, they were determined on a case-by-case basis from reliable literature sources (Brenzel, 2007; "Dave's Garden," 2014). In cases where bloom data were not available, approximations were made based on other ancillary data from scientific papers on each plant genus and/or species as needed; however, this was uncommon. Upon completion, Arboretum plants could be queried in the database by plant name, garden location and/or bloom month.

2.3 Bee-to-plant associations: Data collection fieldwork

Bee plant association data were collected on a weekly time interval for one calendar year (January through December 2017). This frequency of sampling was chosen because previous trial runs with classic monthly and two-week sampling resolution was not sufficient to track rapid phenological changes of plants in this environment. Data collection was done primarily through classical non-lethal entomological field netting and foraging observation methods as described in Pardikes et al. (2017). Additionally, global positioning system (GPS) technology was used to enhance traditional netting and observation methods with spatial location data. To study bees at the landscape scale, entomological on-site methods (observational and netting) were adapted to meet the needs of this study extent (path loop length is approximately 5 km). In particular, net collection was utilized due to its ability to reflect correlations of plant species richness, particularly in sites 100 m in diameter or less (Rhoades et al., 2017). Pan traps were not used due to concern of biased collection results, but also because they do not help to understand bee foraging patterns (Baum and Wallen, 2011; Portman et al., 2020).

In accordance with accepted methods in bee biology fieldwork, data surveys were completed on days with best weather for that week (Rhoades et al., 2017). Ideally, best weather is defined as calm wind (as little as possible), clear/sunny skies, and warm temperatures (e.g., at least 24 degrees Celsius [75 degrees Fahrenheit]) which are all preferred by bees (Frankie et al., 2014). The weather application Weather Underground was used for daily climate data such as temperature and wind speed ("Weather Underground," 2017). In summer months with peak abundance of bee activity, a single survey took up to three days to complete due to the volume of data collected.

Bee foraging surveys consisted of a weekly walk via the circular path loop throughout each of the 35 gardens in the UC Davis Arboretum and Public Garden in Davis. For each survey author KC randomized the starting point of this sequential circular sampling transect. Construction activity in a small portion of the gardens occurred from January through October 2017 at the east end of the Arboretum which limited site access times to those areas, but did not seem to affect bee behavior in those gardens. Due to varied start points for each weekly walk, the different gardens were visited at a variety of times of day throughout the year to avoid observational bias. This helped to ensure no garden would be favored by warmer afternoon temperatures or changes in sun and shadow.

Bee foraging observations were done one garden at a time, by identifying each bee genus foraging on plant genera within the garden*.* A modern system for recording written notes and images with corresponding geographic coordinate data was devised for this task. A digital DSLR Canon T1i camera equipped with a high-quality (105 mm) Sigma macro lens captured a representative image of each foraging association. All photographic data points were georeferenced with the Geotag Photos Pro application (GeoTag Photos Pro, 2017). At each flowering plant genus per garden, author KC motionlessly observed for insect activity. If insect movement was detected author KC visually focused on the insect's physical attributes, behavior, and movement patterns, such as has been shown to work with Citizen Scientists for bees (Ullman et al., 2008). Using a single same observer throughout the study avoided the potential for observational bias of multiple observers. Netting was essential in collecting new specimens, both for ideal on-site as well as in-lab identification. Unique or unidentified bee specimens were collected and frozen, then thawed, pinned and identified with a dissection microscope—a standard protocol for bee identification (Snyder, 2017).

Due to practicalities of identification of both plants and bees in the field, and because the study collected bee foraging data across a relatively large site, we settled on genus levels of phylogeny. This was done to reconcile the micro-site scales at which bees forage versus the miles wide spatial extent of the Arboretum gardens and plantings. Importantly, bee-to-plant foraging associations were recorded per garden. In this way, entomological methods could be adapted to look for bee-to-plant associations across a large study site, rather than classical insect surveys (which generally attempt to collect bees that are representative of the bee community at a site, often without noting feeding associations).

2.4 Data processing

Data processing occurred post circular transect walk using a personal computer. Handwritten notes were transcribed to a data collection spreadsheet (MS Excel, 2019). One representative JPEG image with coordinates for each unique floral visitation per garden was then loaded into ArcGIS (Esri, 2019), using the 'Photos to Points' tool. Collected bee specimens were identified to genus both by author KC and with correspondence by bee expert Robbin Thorp (UC Davis Entomology Professor Emeritus), and additionally, in consultation with personnel and comparisons with collections at the UC Davis Bohart Museum (an entomological museum). Plant identification was aided by correspondence with former UC Davis Arboretum Director of Horticulture, Ellen Zagory.

2.5 Data compilation

Data collection was conducted weekly, but compiled into monthly data aggregations to minimize the possibility of sampling omission errors, such as variable detectability (Williams, et al., 2001). Using this method, it was more likely that a greater magnitude of rarer associations were observed (Williams et al., 2001), which is advantageous for a study such as this, seeking to explore the relationships between bees and the plants they utilize. This data compilation method was selected after reviewing bee and other pollinator field research methods (Pardikes et al., 2017; Meiners et al., 2019) as well as much personal trial and error in field and personal correspondence with expert Robbin Thorp. From previous experience we determined that monthly walks produced significantly less association data than compiled weekly walks. Thus, we found that weekly data collection was best for observing ephemeral bee-to-flower foraging associations and monthly aggregations were most effective in understanding bee foraging and flower bloom times (plant bloom times in particular can be quite short, on the order of weeks). A compiled monthly time step was primarily used for this study as it is a common standard protocol in both bee foraging and plant phenological records, such as field guides. As an example, *Andrena* was seen foraging in the Mary Wattis Brown (MWB) garden on *Ceanothus* two weeks in a row. This association was counted once for the month, not twice, when recording monthly association data. The use of sampling time frames is an aspect of pollinator studies that could be improved (Terri Griswold, USDA bee expert, personal communication, 2018).

2.6 Frequency of use analyses: Temporal garden visitation, best plants, and plant origin

We determined two criteria for measuring a plant's successful performance, including how many bee genera were attracted to a plant and also, the strength of a bee-to-plant association, with demonstrated repeat foraging events representing stronger associations. Additionally, we sought to determine forage plants utilized by bees which were not included in Table 1. Furthermore, we sought to determine characteristic trends among utilized forage plants, for example, whether they were native or not, and if not, what region of the world they originated from. The analyses were completed in MS Excel (2019) in an effort to identify plants missing from the current literature that hold potential for hosting bee foraging and, thus, provide habitat value.

2.7 Map accuracy assessment

Initial investigation into potential pollinator plants revealed that 96 of the 134 (71.6%) of plant genera from Table 1 were included in the Arboretum's plant collection maps. This indicated that the Arboretum's records included many of the predictive (association) plants for bees, allowing us to test the majority of the bee-to-plant associations from Table 1. We sought to evaluate to what degree the Arboretum geodatabase plant presence or absence was accurate. We were uncertain about the absolute accuracy of the Arboretum maps, as some new planting projects had taken place since the geodatabase had been completed. We were also interested in studying which weedy plants were used for pollination which were not included on the maps.

2.8 Assessing the accuracy of the existing information foraging matrix

We used two approaches to assess accuracy of the existing information foraging matrix. Model success is defined here as correct prediction of plants utilized by bees for foraging. First, we looked at how well Table 1 correctly predicted bee foraging overall in aggregate. This relatively coarse method examines which plants, regardless of bee genus, were successfully both predicted and observed as floral resources.

Next, a more precise investigation into the 1:1 association relationships between bees and their forage plants was performed. This statistical testing approach determines the accuracy to which the predictive Table 1 plants were utilized. The existing literature foraging matrix constructed in section 2.2 (above) was validated by compiling field observations made in section 2.5 (above) to determine its efficacy. There are three potential outcomes from this assessment: (1) a correctly predicted presence (true positive), (2) an omission error (false negative), and (3) a commission error (false positive); however, it should be noted that no correctly predicted absences (true negative) are possible to assess in this study because the existing literature lists do not designate known absences (true negative). This makes traditional assessments of model accuracy using test statistics from a confusion matrix impossible, such as the Kappa statistic (Pearson 2010).

Despite this limitation, it is possible to assess “sensitivity,” also known as the “true positive fraction” from the correctly predicted observations and the “omission rate,” or also known as the “false negative fraction”; these two measures (sensitivity and omission rate) are inversely related and sum to 1 (Pearson 2010). The third possible outcome is a metric of commission error (unrelated to the sensitivity and omission rate) which assesses the false positive rate. Each of these three metrics will be further described below.

In the first case, if a known bee genus is observed in the field that is using a known plant genus (i.e., both are on the existing literature list) this is considered a “correctly predicted” occurrence (using presence data only). For each bee genus this metric is calculated by dividing the count of literature plant genera correctly predicted (numerator) by the count of all plant genera observed to be used in the Arboretum (denominator) by that respective bee genus. This yields a “sensitivity score” or true positive fraction. In the second case, if a known bee genus (on the literature list) is observed using a plant genus not on the literature list, this is an omission error. The omission rate is calculated by dividing the count of all additional plant genera observed to be used in the Arboretum (numerator) by the count of all plant genera observed to be used in the Arboretum (denominator) by that respective bee genus. This yields an “omission score” or false negative fraction (inversely proportional to the true positive fraction or sensitivity score). It should be noted that the sensitivity and omission scores have the same denominator. In the third case, if a known bee genus (on the literature list) is not observed to use a known plant genus (on the literature list) that is present in the Arboretum, this is a commission error. In other words, the list predicts the bee genus to use the plant, but it is not observed. The commission rate (or false positive rate) in this study is calculated as a percentage by dividing the count of literature plant genera not observed to be used in the Arboretum (numerator) by the count of all plant genera from the literature list in common with the Arboretum (denominator) and multiplying by 100. There are 38 plant genera on the literature list that are not present in the Arboretum and therefore those plant genera are excluded from the error assessment.

Finally, to assess the significance or model independence for each bee genus for all observations, a chi-square test was performed on each respective bee genus model result to assess observed versus expected values. This model independence test was conducted using CHISQ.TEST function in Microsoft 365 Excel. This test returns the probability (*p*-value) of whether the model could attain the value of the chi-square statistic by chance alone under the assumption of independence. Values for *p* range from 0-1 and low values of the test statistic indicate independence. The degrees of freedom were calculated by subtracting 1 from the total number of columns (c-1) used in each respective bee genus model.

3. **Results**

3.1 Observed bee-to-plant foraging matrix

The completed presence-only bee-to-plant foraging matrix (Table 1), derived from the literature, contains 23 bee genera and 134 plant genera. Of the 23 bee genera on listed on Table 1, 22 were observed in the Arboretum as well as five additional native bee genera that were not on the list. The only predicted native bee genus not observed in the Arboretum was *Colletes*, which had a singular association with just one plant genus, *Solidago*, which is found in Arboretum. In this case most likely either *Colletes* populations are too disjunct to access the floral resource or there are other lacking resource attributes which prohibited *Colletes* from using the Arboretum as habitat.

The completed observed results of the bee-to-plant foraging matrix (Table 2) contains 27 observed bee genera and 297 observed forage plant genera. Table 2 differs from Table 1 in that results recorded the redundancy of the weekly foraging associations, demonstrating the relative strength of each bee-to-flower association throughout the year. A significant finding of this research is that more than three times the unique bee-to-plant foraging associations were observed (297) than predicted (96). However, it is clear from Table 2 that plants varied considerably in terms of relative attraction (repeated bee-to-plant associations throughout the year). Appendix 2 shows a complete record of all bee genera predicted versus observed foraging.

3.2 Bee visitation patterns within the Arboretum gardens

Observation data were summarized to show the annual pattern of association activity by garden (Figure 3 and Table 3). Bee foraging was well supported by the novel Arboretum plant communities. A full distribution of bee-to-plant associations by garden and month can be seen in Table 3. Two gardens substantially out-performed all the rest: the Mary Wattis Brown (MWB) native plant garden and the All-Stars (mostly non-native) in the Ruth Risdon Storer (STOR) garden. The plants in each garden supported large numbers of bees, but there were notable differences in function over time. While native plant garden bee foraging peaked in May, the non-native garden peaked in August (Figure 3). Floral resource timing differences accommodate different seasons of bees, who also exhibit staggered emergence and activity months. Additionally, as plants in the native garden often desiccated and rested for the hottest summer months, many of the non-native plants continued to bloom, persisting to provide plentiful floral resources through the hottest months and even fall for summer and fall bees.

3.3 Interpreting overall success of the bee-to-plant matrix model versus results

We examined if Table 1 bee plants in the Arboretum's map records correctly predicted foraging by bees. As stated in section 2.6, 96 of the 134 predicted plants (71.6%) were included in the Arboretum's plant record maps. Of the 96 predicted matrix plants which were also in the plant maps 70 (72.9%) were actually used for forage. Wholistically, predicted foraging plant presence was highly correlated with a successful foraging utilization. Within the 84 of 96, or 87.5%, bee-to-plant matrix association plants found in the Arboretum plant collections were foraged on by bees, thus, the success rate of the aggregate model indicated high correspondence. The majority of the plants stated to be in the Arboretum geodatabase maps were still present and also used by foraging bees.

In total, 84 of the 134 predicted plants, (62.7%) were utilized by bees for foraging. In other words, though 70 predicted plants were also used for foraging and also confirmed on the maps, 14 additional predicted, but unmapped plants (16.7%), were utilized for bee forage. The majority of Table 1 plants expected for bees were on the maps and 70 out of 84 plants used for forage (83.3%). This high indication of map accuracy combined with the confirmation of bees foraging on the expected plant list seemed quite promising. Overall, it seemed the habitat relationship model, combined with existing habitat maps, were quite accurate to aid in making predictions in bee foraging habitat use as a whole (see section 3.4 for full error analysis).

Meanwhile, bees were found to forage on many plants not predicted per the Table 1 matrix. Of the "unexpected novel" observed plants, 258 (86.6%) were on the Arboretum maps (Table 2), while only 39 (13.1%) forage plants were not on the maps. Interestingly, this is very similar to accuracy percentages of results above (70/84, 83.3% and 14/84, 16.7%). This infers that map records were consistently accurate (confirmed 85% of the time on average) at providing foraging plant locations and subsequent pollinator association.

While the bee-to-plant matrix (Table 1) is predictive of bee foraging the majority of the time, there are a variety of ways to analyze the matrix's success. The Arboretum mapping accuracy omitted new or weedy plants and therefore some associations seen in Table 2. While these initial results above seem promising, when a more precise analysis is done below, it becomes clear that the individual bee genus models were not as predictive for foraging associations.

3.4 Quantifying error of the bee-to-plant foraging matrices in predicting bee associations

We analyzed each bee genera by their predicted versus actual foraging data. Each bee genus was compared to the predicted plants it ought to have foraged on versus the observed data. The error analysis matrix and model independence tests presented in Table 4 show the results for each respective bee genus observed in the Arboretum. Error results are reported only for those bee genera listed in Table 1 (from the existing literature). Table 4 breaks down the counts relevant to calculating the three aspects of error assessment for this study. The overall average (mean) true positive fraction for correctly predicting bee genera (from Table 1) in the Arboretum was found to be 0.14 (this sensitivity score ranged in values from 0 to 0.5) and likewise, the overall omission error rate, or false negative fraction, was found to be 0.86 (the omission scores ranged from 0.7 to 1.0) (Table 3). The overall average (mean) commission error rate for all bee genera was 47.8%, meaning that nearly half of the plant genera reported in the literature that bees are reported to use were not observed to be used in this study. These results suggest that the existing literature identifies few actual foraging associations for the vast majority of bee genera in California, This dearth of information shows the importance of this study and the need for further research in this area.

The model independence tests for each respective bee genus observed in the Arboretum reveals that 15 of the 28 models are highly significant at levels below 0.01 (p-value) with degrees of freedom ranging from 1-237. The remaining models were found to be lacking independence mostly due to a low frequency of use from our observations for those bee genera.

4. **Discussion**

According to these results, it is possible to build foraging models for bees based on floral foraging preferences. However, while the aggregate model evaluation scored quite well overall with Table 1 plants being utilized for forage by bees, analysis of the bee-to-plant associations demonstrated that the individual models were not as predictive at the finer scale of bees to specific plant genera, mostly due to the high omission rates. Thus, bees were found to be using many more plants than the predictive plants alone in Table 1. Future research should focus on better understanding bee-to-plant associations. Furthermore, investigating the spatial consequences of bee-to-plant associations is essential in studying habitat connectivity and fragmentation for bee genera. Studying bees at the genus level was effective for observation of their foraging preferences and trends, which require specific conservation strategies. The variability of results between bee genera emphasizes that, for more effective conservation, bee genera should be studied individually from each other, using an autecological approach, and not aggregated to achieve more effective conservation.

Overall, there was much variability in the degree to which bee genera utilized Table 1 plants or not (see Appendix 2 for the complete dataset). In contrast to Frankie's (2014) estimate of 17 common bee genera in California (discussed in the Introduction), we found 27 bee genera observed to be foraging in the Arboretum, five of which were not predicted to have been there (*Anthidellum*, *Nomada*, *Sphecodes*, *Stelis*, *Triepeolus*). The 22 predicted bee genera included: *Agapostemon*, *Andrena*, *Anthidium*, *Anthophora*, *Apis*, *Ashmeadiella*, *Bombus*, *Ceratina*, *Coelioxys*, *Diadasia*, *Eucera*, *Habropoda*, *Halictus*, *Hoplitus*, *Hylaeus*, *Lasioglossum*, *Megachile*, *Melissodes*, *Osmia*, *Peponapis*, *Svastra*, and *Xylocopa*. At 27 observed bee genera, our findings demonstrated only one more bee genus than Robbin Thorp's confirmed personal collection of 26 bee genera found in Davis, California. It is a good sign that our findings closely confirm the local expert's specimen collection.

Map accuracy was very helpful in determining the presence or absence of bees. Interestingly, as a whole, bees utilized 84 of the 134 plants (62.7%) they were predicted to use in the Arboretum per Table 1. Since bees utilized 297 forage plants, 213 plants (71%) were novel plants not included in Table 1.

Error analysis demonstrated variability in predictive success between bee genera. The genera *Anthophora*, *Diadasia*, and *Habropoda* demonstrated the highest true positive fractions; they were the most predictable in terms of their feeding preferences, ranging from 0.3-0.5. On average, for all bees, the sensitivity score (true positive fraction) was low, at 0.14, meaning only 14% of the literature's plants were predicted 'correctly' with the corresponding bee association. Conversely, the false negative fraction of 0.86 means that 86% of bee foraging was not predicted via the existing literature models. Therefore, it is valuable to compare separately multiple bee genera and also their foraging preference associations within the same study. Studies which aggregate all bees risk erroneous conclusions regarding the relationships between bee and plant genera. Similarly, studies of only one bee genera are unlikely to be comprehensive enough to encompass conservation of a diversity of bees. We have demonstrated that different angles of model analysis can yield varied ranges of success. Our findings indicate the existing plant lists (derived from the literature) currently lack effectiveness to comprehensively predict bee genera foraging in California.

These results emphasize how more needs to be learned about bee genera foraging patterns. We suggest more research should be done to collect and publish bee association data. Moreover, these findings also show how strongly plant selection can influence garden habitats for bee genera. Table 3 shows how the Arboretum gardens vary greatly in their ability to attract bees and also sustain them over time. Gardens which facilitate the most foraging over time represent models for how urban planting schemes could attempt to accommodate and conserve California's bees. The Mary Wattis Brown California native garden and Ruth Storer Arboretum All-Star garden perform the best at providing bee habitat. Therefore, future garden design to support bees should be based off of the planting characteristics of both garden types, maximizing plants best at supporting bee foraging. Furthermore, almost all bees were found to forage on exotic plant species which were not emphasized on some of the recommended suitable plant lists (Table 5, Table 6). The observed opportunistic foraging nature of bees shows that reconciliation ecology (Rosenzweig 2003) seems in part suitable for maximizing bee habitat conservation and design. This study presents compelling evidence that that current suggested plant lists have significant inadequacies as habitat for bees. Furthermore, this research has identified many plants within the Arboretum's novel plant communities that are highly functional as habitat for California's native bees (Table 5).

To further improve bee habitat relationship model information, habitat elements required to support bee nesting (reproductive habitat) need to be included. In future research, it would be valuable to add further layers of information, such as nesting resources, to increase the helpfulness of the model toward building or predicting comprehensive suitable habitat, not just foraging. For example, the primary means of reproduction by most native bees is usually one of three strategies (Xerces 2011a,b): (1) ground nesting types, (2) cavity nesting in trees or plant stems, and (3) plant stems, both woody and herbaceous. There may be also be garden physical form factors regarding pollinator attractiveness and this should be addressed in future research. For example, the age of the plants, degree of under or overstory, sun aspect ratio, and more. Detailed bee landscape design is explored in Chapter 2 in depth.

4.1 Novel ecosystems provide suitable habitat for native bees

Since the existing bee-plant lists seemed to be underperforming, we conducted further investigations into these list inadequacies. The existing literature plant list (Table 1) included 61%

native California plants and 38% non-native, while our foraging study (Table 2) showed nearly an inverse in the actual feeding trends, with 43% native California plants and 57% non-native. In addition, among plants which were not listed in Table 1, “unexpected novel” foraging plants, only 36% were California natives, while 64% were non-natives. Scientists may have overvalued the forage attractiveness of native plants for bees and undervalued the positive function of non-native plants. For example, an urban ecology study in the Central Valley of California by Shapiro (2002) found 40% of lepidopteran faunal host plants are non-native plants. While California native plants contribute many evolutionary and ecological aspects to a site, our study showed that bees in horticultural environments exhibit trends of feeding opportunistically and without majority preference for the native status of a plant. As climate change increasingly puts stresses on native plants forcing range contractions and expansions, exotic plant species may ultimately need to be utilized to maintain and conserve native bees.

The UC Davis Arboretum and Public Garden hosts a variety of specialty gardens, boasting plants curated from geographically distant locations. However, the Arboretum plantings have been consciously selected to suit the local Mediterranean climate. The Arboretum tends not to grow plants which require intensive care and high water demands, rather they take low maintenance approach, with policies about not fertilizing and/or spraying for pests, for example, and this is beneficial to bees. Furthermore, the Arboretum has a plant promotion program called the “All-Stars” (Arboretum 2020) and one hundred Arboretum All-Star plants were selected for climate suitability, some native, some not, with an emphasis on low-water use plants and also attractiveness from the human perspective (Sisneroz et al., 2020; California Center for Urban Horticulture, 2020). Many of these plants were also found to be utilized by bees.

This study allowed a unique look at how California native bees perceive unique foraging opportunities, some of which were previously unknown, but seemingly beneficial. Among non-native plants there are consistent trends of plant origin (Table 6). Based on observed foraging results, from a bee's perspective, the Arboretum would improve bee foraging by adding more drought tolerant plants from Africa, Australia, Europe, South Africa, South America, the Canary Islands, and New Zealand.

4.2 Utilizing bees' perspectives is an essential adaptive management strategy

It is essential to better understand bee foraging from a bees' perspective in order to design suitable habitat. This research has demonstrated the limitations of currently understood bee-to-plant associations. The basic connection of a bee to its foraging plants is essential to understand which types of habitats are appropriate or not. WHR accuracy can be improved with extensive empirical testing. This study elucidates the need for further quantitative studies on bee WHR models. Through accommodating native bees in novel ecosystems, such as in gardens and in hedgerows near agricultural crops, valuable pollination services can be conserved for the benefit of people, agriculture, and natural communities.

4.3 Gardens function as novel plant communities

Figure 4 and Table 3 demonstrate the potential for various planting schemes to support or not support bee foraging. Some gardens provide beneficial floral resources to foraging bees. The magnitude of associations can be seen in Table 3, along with the duration of those monthly trends over a year. Other gardens represent poor habitat and do not support bee foraging. At a larger geographic scale, foraging gardens are important for habitat network connectivity (in a forthcoming study). If habitat patches are broken by large patches of non-habitat or low habitat value, habitat fragmentation will likely be high. On the other hand, if suitable forage habitat patches are adjacent to each other (within a bee's foraging radii over the landscape) habitat connectivity will be high and thus beneficial to native bee conservation.

4.4 Reconciliation ecology is the best approach for designing bee habitats

Reconciliation ecology (sensu Rosenzweig 2003) provides one of the best frameworks for resilient bee habitat design. The data from this study have shown there are benefits to using both California native plants as well as non-natives to achieve peak foraging habitat for California native bees, as well as naturalized European honey bees. As seen in the Arboretum's themed gardens, bees are utilizing the novel plantings which also were selected for drought tolerance and aesthetic beauty. By combining the best foraging plants, landscape designers can significantly improve foraging habitats for native bees.

Best management practices and design responses for improving bee habitat are likely to be very specialized to increase foraging optimization at designed garden sites. For example, in California's Central Valley drought tolerance is a very important plant attribute since water will likely become less available in the future due to climactic water deficit projections (Crimmins et al., 2011). Therefore, a design framework should be responsive to a site's prioritized ecological needs.

4.5 Study limitations

Although the data collected for this study is extensive in time and space, it represents just one year of bee-plant visitation in the Arboretum. Thus, interannual variability of weather and climate could produce other visitation patterns. However, we feel we captured much intra-annual variability with our sampling approach. This study was conducted in the Central Valley ecoregion of California and this could produce biased results towards the bees associated with this ecoregion. As noted in the Introduction WHR models tend to be regional in nature and therefore results may not transfer to all other areas of California. All methods for bee fieldwork have gone under scrutiny in recent years, which are not unique to this study. It also should be pointed out that this study did not explicitly evaluate nesting habitat at the study site.

5. Conclusions

Development of WHR models for native bees is an important step in conservation planning for these species. This study shows WHR models are feasible and can be constructed from existing literature. They can be significantly improved with additional field studies regarding bee foraging plants. In particular, it is important to study bee-to-plant associations, which are currently not well understood or, in the case of novel associations, underrepresented. More quantitative foraging studies should be undertaken to make accurate foraging models. Results from this study show that more optimal pollinator plantings ('bee friendly gardens') could be designed and constructed in a more strategic and scientific manner. Using data from this study, plant palettes for ideal garden design for native bee conservation could be created from a bee's point of view. Many bees in this research project were found to be opportunistic foragers—neither exclusively utilizing native or non-native plants. Thus, bees may have more opportunities to thrive if they are given a broader spectrum of plants, which can be done through strategic conservation actions in both space and time. This study elucidates the feeding preferences of native bees, which can be used to better manage and conserve them in the California landscape. How many other foraging plants would native bees use or prefer? This can only be answered with further empirical studies and assessment of possible plant candidates for native bees.

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Appendices

Appendix 1: All Chronological Data

Appendix 2: Predicted vs Actual Data

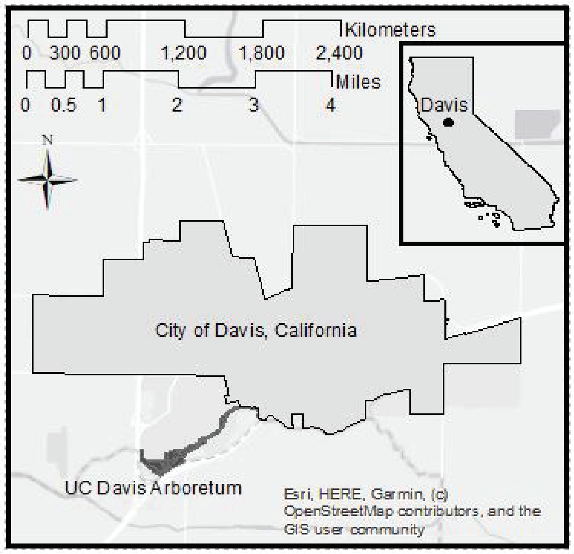

Figure 1: Site context map. Locations of the City of Davis, California and the UC Davis Arboretum and Public Garden. (Data Sources: “California GIS” 2020; ESRI 2019; “University of California” 2014).

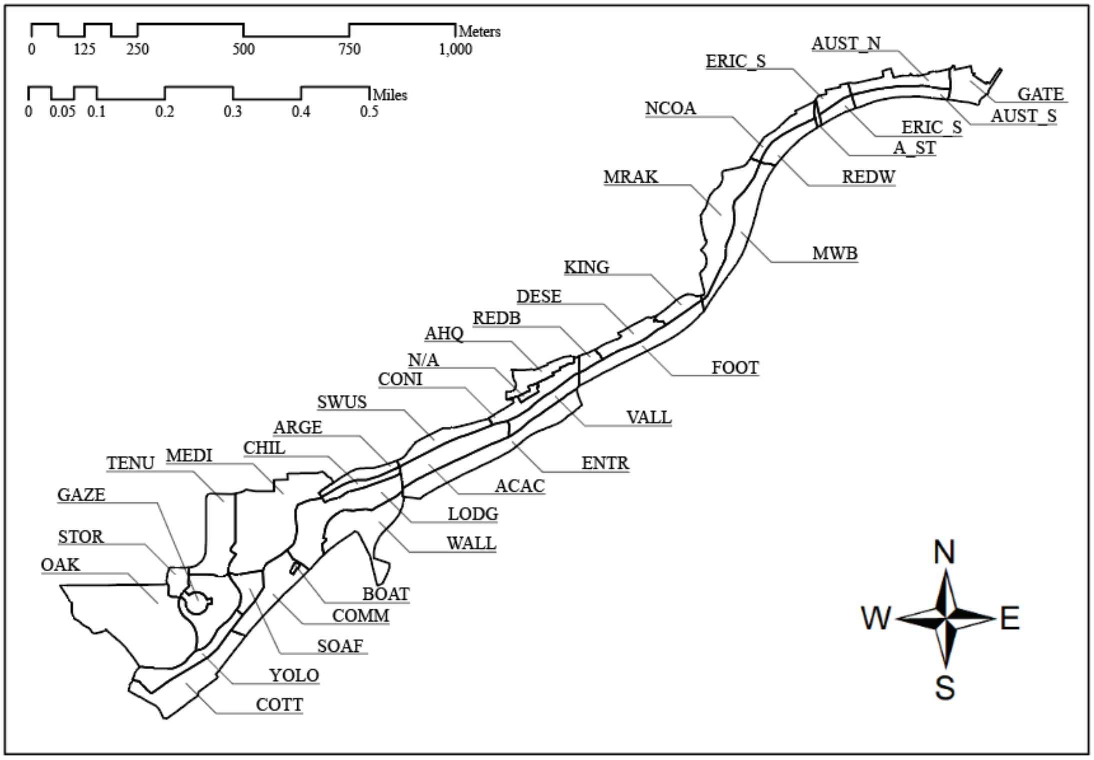

Figure 2: All UC Davis Arboretum gardens labeled with name abbreviations. (ACAC=Acacia, AHQ=Arboretum Headquarters, ARGE=Argentine, A_ST=A Street Bridge, AUST_N=North Australian, AUST_S=South Australian, BOAT=Boathouse Garden, CHIL=Chilean, COAS=North Coast, COMM=Plant Communties Garden, CONI=Conifer, COTT=Cottonwood, DESE=Desert, ENTR=Entrance, ERIC_N=North Ericaceae, ERIC_S=South Ericaceae, FOOT=California Foothill, GAZE=Carolee Shields While Flower Garden & Gazebo, KING=King Hall, LODG=Putah Creek Lodge, MEDI=Mediterranean, MOUN=Shields Mound, MRAK=Mrak Hall, MWB=Mary Wattis Brown California Native Plant Garden, N/A= nursery and greenhouses not included in study, REDB=Warren Roberts Redbud, REDW=T.Elliot Weier Redwood Grove, OAK=Shields Oak Grove, SOAF=South African, STOR=Ruth Risdon Storer Garden, SWUS=Southwestern United States and Mexican, TENU=Teaching Nursery (formerly EASI=East Asian), VALL=Vally Oak, WALL=Walnut, YOLO=Yolo County Riparian. (Data Source: "University of California" 2014).

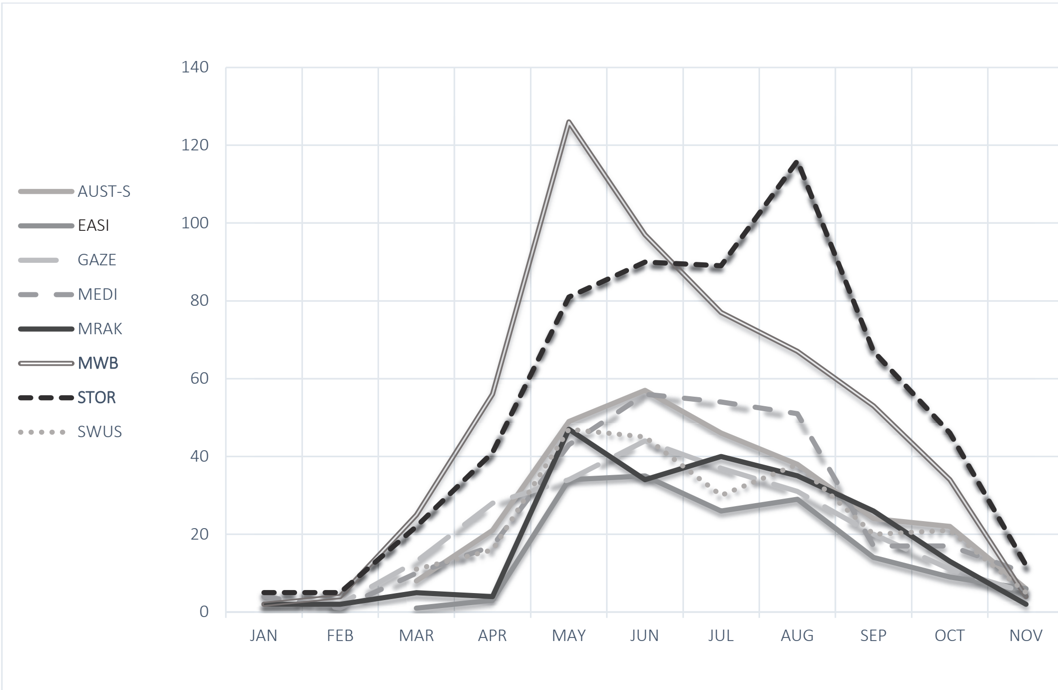

Figure 3: Research results. Bee-to-plant monthly resolution unique associations per arboretum garden, values > 200 only. Bee-to-Plant association visitation by garden, monthly composite time resolution. Note that the Mary Wattis Brown (MWB) and Ruth Storer (STOR) gardens are both exhibit the highest bee visitation of all Arboretum gardens, though, their association maximums peak 4 months apart from each other. These garden ecosystems present superior ecological function, hosting far more bee-to-flower feeding instances, meaning higher ecosystem complexity. LEGEND FOR ALL GARDEN NAMES: AUST-S: Australian section south side. GAZE: Gazebo white garden. MEDI: Mediterranean section. MRAK: Plantings near Mrak Hall. MWB: Mary Wattis Brown California native plant garden. STOR: Ruth Storer Garden composed of Arboretum All-Stars. SWUS: Southwest United States and Mexico themed garden. TENU (formerly EASI): Teaching Nursery demonstration garden along Garrod Drive.

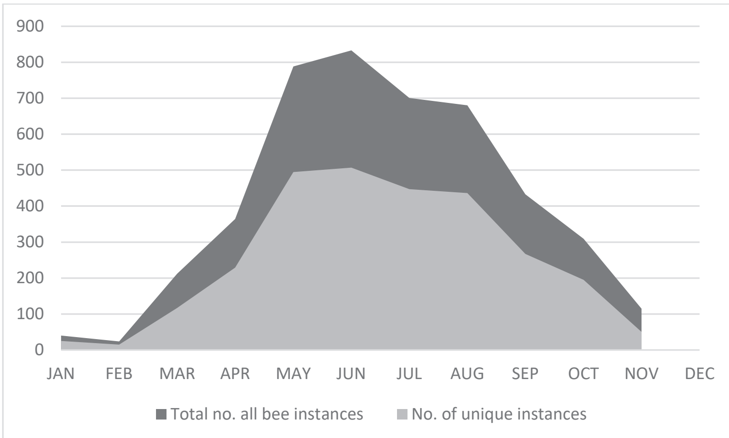

Figure 4: Total instances versus unique bee-to-plant associations by month. Dark grey shows total numbers of all bee-to-plant associations seen, including those repeated redundantly, within gardens. Light grey shows only unique bee-to-plant associations seen, when monthly totaled by garden. The majority of foraging at any time in the year was always proportionally more unique bee-to-plant associations, not repeated between gardens.

Table 1: Existing literature habitat matrix: Expected bee-to-plant associations per the literature, composing the foraging portion of the WHR model.

Plants		*Agapostemon*	*Andrena*	*Anthidium*	*Anthophora*	*Apis melifera*	*Ashmeadiella*	*Bombus*	*Ceratina*	*Coelioxys*	*Colletes*	*Diadasia*	*Eucera*	*Habropoda*	*Halictus*	*Hoplitis*	*Hylaeus*	*Lasioglossum*	*Megachile*	*Melissodes*	*Osmia*	*Peponapis*	*Svastra*	*Xylocopa*	*SUM*
Abelia	abelia					1																			1
Achillea	yarrow					1											1								2
Aesculus	California					1																			1
Agastache	hyssop					1		1																1	3
Alstroemeria	lily					1		1											1						3
Amorpha	false indigo																		1						1
Anisodontea	cape mallow		1		1			1											1						4
Apentia (Aptenia)	red apple					1		1		1									1						4
Arctostaphylos	manzanita					1		1						1											3
Arctotheca	Cape weed																		1						1
Argyranthemum	Marguerite							1											1						2
Asclepias	milkweed					1																1			2
Aster	aster					1			1						1		1		1	1					6
Berberis	berberis													1							1				2
Bidens	bidens														1				1	1	1				4
Borago	borage					1		1																	2
Brassica	chard, mustard		1																1					1	3
Calamintha	calamintha			1																					1
Calendula	pot marigold				1			1	1	1									1		1				6
Calystegia	bindweed											1													1
Capsicum	peppers							1										1							2
Carpenteria	bush anemone							1													1				2
Ceanothus	California lilac		1		1	1		1						1	1		1							1	8
Centaurea	dusty miller					1		1											1						3
Cercis	redbud													1							1			1	3
Cerinthe	honeywart							1																	1
Chrysanthemum	chrysanthemu																		1						1
Cistus	rock rose							1							1				1						3
Citrullus	melon,	1				1		1										1	1	1			1		7
Clarkia	elegant clarkia		1			1		1											1						4
Comarostaphylis	heath													1											1
Convolvulus	morning glory											1													1
Coreopsis	tickseed				1							1			1			1	1	1	1				7
Cosmos	cosmos	1			1	1		1		1									1	1			1		8
Cotoneaster	cotoneaster					1		1							1				1						4
Crataegus	hawthorn					1		1													1				3
Cryptantha	popcorn						1									1									2
Cucumis	melon,					1												1		1			1		4
Cucurbita	pumpkin,																					1	1		2
Cynara	globe artichoke							1											1	1					3
Dalea	prairie clover					1																			1
Delphinium	delphinium							1																	1
Echinacea	purple				1	1				1									1	1					5
Echium	echium				1	1		1						1							1				5
Encelia	aster		1				1									1				1	1				5
Erigeron	fleabane	1			1		1		1						1	1	1	1	1		1				10
Eriogonum	buckwheat	1			1	1		1							1		1		1						7
Eryngium	rattlesnake	1						1										1	1	1					5
Erysimum	wallflower												1												1
Escallonia	escallonia					1		1																	2
Eschscholzia	California		1					1							1			1	1						5
Eupatorium	boneset, joe-							1																	1
Fragaria	strawberry	1				1												1							3
Gaillardia	blanketflower	1	1																1	1					4
Gaura	butterfly					1																			1
Geranium	geranium					1		1	1										1						4
Gilia	gilia		1			1													1		1				4
Gossypium	cotton					1																			1
Grindelia	gumweed	1			1				1										1		1				5

Hebe	Veronica		1			1		1											1		1			1	6
Hedera	English ivy					1																			1
Helenium	sneezeweed																		1						1
Helianthus	sunflower	1				1		1				1			1				1	1			1		8
Heteromeles	toyon		1			1		1																	3
Holodiscus	ocean spray							1																	1
Horkelia	Pt. Reyes					1		1											1						3
Ipomoea	morning glory																					1	1		2
Juglans	walnut													1											1
Lathyrus	sweetpea					1		1											1						3
Lavandula	lavender				1	1		1					1						1	1	1			1	8
Leptospermum	New Zealand					1																			1
Liatris	blazingstar							1						1											2
Ligustrum	privet					1		1																	2
Linaria	toadflax			1			1	1								1									4
Lotus	birds foot																		1						1
Lupinus	lupine					1																			1
Lyonothamnus	ironwood					1		1																	2
Madia	elegant madia																		1	1					2
Malacothamnus	bush mallow											1													1
Malus	apple					1		1											1		1			1	5
Marrubium	horehound					1													1		1				3
Medicago	alfalfa																		1						1
Mentha	mint			1		1																			2
Monarda	beebalm																							1	1
Monardella	coyote mint					1		1											1						3
Myrtus	myrtle					1													1						2
Nepeta	catnip			1	1	1		1	1				1						1	1					8
Oenothera	evening																		1						1
Opuntia	prickly pear											1													1
Origanum	oregano					1													1						2
Pallenis	gold coin				1										1				1						3
Papaver	Oriental poppy					1																			1
Parkinsonia	palo verde																							1	1
Pelargonium	geranium					1			1												1				3
Penstemon	blue mist				1	1	1	1								1			1		1				7
Perovskia	Russian sage	1		1	1	1	1		1							1			1						8
Phacelia	phacelia		1		1	1	1	1						1		1	1		1		1			1	11
Philadelphus	Mock orncoran		1																						1
Phyla	lippia					1																			1
Picris	bristly ox																			1					1
Pittosporum	Japanese mock					1		1																1	3
Prunus	almond, cherry,					1		1						1				1			1				5
Pycnanthemum	mountain mint																	1							1
Pyracantha	firethorn					1																			1
Pyrus	pear					1															1				2
Quercus	oak													1											1
Ratibida	yellow											1								1			1		3
Rhamnus	coffeeberry					1																			1
Rosmarinus	rosemary	1				1	1									1			1					1	6
Rubus	blackberry		1			1		1							1				1		1			1	7
Rudbeckia	black eyed	1																	1	1					3
Salix	willow																				1				1
Salvia	sage		1	1	1	1		1	1					1	1		1		1					1	11
Scabiosa	pincushion					1									1				1	1					4
Schinus	pepper tree					1																			1
Silphium	rosinweed																			1				1	2
Solanum	tomato					1		1						1				1							4
Solidago	goldenrod					1					1				1		1	1			1			1	7
Sphaeralcea	globe mallow	1										1													2
Stachys	hedgenettle			1	1	1													1		1				5
Symphyotrichum	aster	1																1							2
Tagetes	marigold				1														1						2
Taraxacum	dandelion																		1						1
Teucrium	germander				1	1																			2
Tithonia	Mexican																		1	1					2

Tradescantia	spiderwort	1																							1
Trichostema	wolly blue curls					1																			1
Trifolium	clover					1		1													1				3
Tristaniopsis	water gum					1		1																	2
Vaccinium	blueberry,					1		1						1				1	1		1			1	7
Verbena	vervain	1																	1						2
Vicia	vetch													1					1						2
Vitex	vitex				1			1											1						3
Wisteria	wisteria																							1	1
	Tot. no. flower assoc./ bee	16	14	7	21	70	8	53	9	4	1	8	3	15	15	8	8	14	61	21	27	3	7	18	

Table 2: Results Matrix: All observed bee-to-plant associations. Strength of association shown with higher numbers (redundancy of the association).

Plant Genus	*Agapostemon*	*Andrena*	*Anthidium*	*Anthidellum*	*Anthophora*	*Apis melifera*	*Ashmeadiella*	*Bombus*	*Ceratina*	*Coelioxys*	*Diadasia*	*Eucera*	*Habropoda*	*Halictus*	*Hoplitis*	*Hylaeus*	*Lasioglossum*	*Megachile*	*Melissodes*	*Nomada*	*Osmia*	*Peponapis*	*Sphecodes*	*Stelis*	*Svastra*	*Triepeolus*	*Xylocopa*	COUNT	SUM
Abelia	1					1								1				1	1									5	5
Abies						1																						1	1
Abutilon						2																						1	2
Acacia						1		1						1				1										4	4
Acca						1								1													1	3	3
Achillea	1			1		1								1	1		1											6	6
Acmispon				1		1									1		1	1										5	5
Adenostoma		1		1				1										1									1	5	5
Aesculus						1																					1	2	2
Agapanthus						1		1						1														3	3
Agastache			1			1		1						1				1									1	6	6
Albizia						1																						1	1
Albuca																											1	1	1
Allium		1				1			1								1										1	5	5
Aloysia						1								1				1									1	4	4
Alstroemeria	1	1						1						1		1	1	1	1						1			9	9
Amaryllis																											1	1	1
Amorpha			1			1		1										1									1	5	5
Anemopsis														1	1				1									3	3
Anigozanthos	1	1												1			1											4	4
Anthriscus																1												1	1
Apentia (Aptenia)						2																						1	2
Apocynum		1				1				1				1	1	1	1	1										8	8
Aquilegia								1									1	1										3	3
Arbutus		1				1		1												1							1	5	5
Arctostaphylos						1		1																			1	3	3
Asclepias		1				1								1	1		1	1								1	1	8	8
Aster	1	1	1			1								1			1	1	1						3	1		10	12
Athanasia		1												1	1	1	1											5	5
Baccharis	1	1				1								1			1											5	5
Bahiopsis	1	1				1		1	1					1			1		1								1	9	9
Baileya		1	1								1			1	1		1	1	1						1	1		10	10
Ballota			2			2		1						1				1										5	7
Berberis								1									1											2	2
Billardiera						1											1											2	2
Brasilia						1																						1	1
Brassica	1	1		1		1								1		1	1	1										8	8
Brugmansia						1																						1	1
Buddleja					1	1		1						1				1										5	5
Bulbine		1	1	1	1	1		1				1		1		1	1	1	1								1	13	13
Bupleurum						1								1			1	1										4	4
Bursaria						1		1						1				1										4	4
Caesalpinia						1																						1	1

Calandrinia														1			1											2	2
Calliandra						1																					1	2	2
Callistemon		1				1		1						1													1	5	5
Calostemma														1			1											2	2
Campanula														1														1	1
Canna																											1	1	1
Capparis						1																						1	1
Carpenteria		1												1														2	2
Carpobrotus	1								1					1			1		1								1	6	6
Catalpa	1																											1	1
Ceanothus		1				1		1						1		1	1			1							1	8	8
Centaurea		1				1								1				1	1									5	5
Cephalanthus						1		1																				2	2
Cerastium		1				1												1										3	3
Ceratostigma						1								1														2	2
Cercidium						1												1									1	3	3
Cercis						1		1						1													1	4	4
Chaenomeles						1		1									1											3	3
Chasmanthe						1																						1	1
Chilopsis					1	1		1						1				1									1	6	6
Chionanthus																											1	1	1
Chitalpa		1				1		1						1				1									1	6	6
Chrysanthemum		1				1								1														3	3
Cistus		1				1		1						1			1	1	1								1	8	8
Clarkia						1		1						1			1	1									1	6	6
Clematis		1				1								1		1	1											5	5
Cleome						1												1									1	3	3
Cneorum						1								1														2	2
Colletia						1																						1	1
Convolvulus	2	2				2								2	1	1	2		1									8	13
Corethrogyne						1								1														2	2
Cornus						1																						1	1
Correa		1				1		1									1									1		5	5
Cotoneaster		1				1																					1	3	3
Craspedia		1				1								1		1		1						1		1		7	7
Crinodendron						1																						1	1
Dasylirion																		1										1	1
Datura	1	1				1										1	1						1				1	7	7
Delosperma		1				1		1						1			1	1									1	7	7
Dendromecon	1	1			1	1								1			1											6	6
Deutzia						1		1										1									1	4	4
Dianella						1		1																			1	3	3
Digitalis						1																					1	2	2
Dracaena						1												1										2	2
Duranta						1		1									1	1										4	4
Echinacea	1	1				1								1					1						5			6	10
Echinops											1															1		2	2
Echium						1		1																				2	2
Ehretia						1		1													1							3	3

Elaeagnus						1		1																				2	2
Encelia	1	1	1		1	1		1	1		1			1	1			1	13		1				3	5	1	16	34
Ephedra						2																						1	2
Epilobium				2		47								8			6	1									8	6	72
Equisetum								1																				1	1
Eremophila	4	1				17		1						1			2	6									2	8	34
Erica						2																						1	2
Ericameria		1				1								2														3	4
Erigeron	2	24				26		1	7		1			51		4	25	13	1									11	155
Eriogonum	26	19	6	23		62		9		2				56	4	7	33	41	6	2					2	6	3	17	307
Eriophyllum	1	5				7		2	1					10			1	4			1						1	10	33
Eryngium														3		1	1	1	1									5	7
Erysimum						2		1						2			1	1										5	7
Erythrina						10								1														2	11
Eschscholzia	11	19		1		46		23	3					85		3	25	1	3						1			12	221
Eucalyptus		2				33		5						3		1		2										6	46
Euryops	1	10				10			1					15			3											6	40
Ferocactus											1																	1	1
Foeniculum						5								3				1										3	9
Fragaria	1																											1	1
Fremontodendron		2				20		1	1					2			1										7	7	34
Gaillardia	11	3	1			40		4						63			1	1	35						13	8	3	12	183
Galium			1																						1			2	2
Galvezia								1																			1	2	2
Gaura	11	7	1			36		2						12		2	3	6	2								3	11	85
Geranium						22		10	2			1																4	35
Geum		1				2		3	1					2			1											6	10
Glaucium						1								2	1		1											4	5
Gomphostigma						1								1				1										3	3
Grevillea		1	1		1	49		14						1				5									26	8	98
Grewia						1												1									4	3	6
Grindelia	4	17			2	3								28		1		1	8						13	5	2	11	84
Hakea						4																					1	2	5
Hardenbergia						5																					1	2	6
Hebe	5		1	1	1	8								1			2	3	3								1	10	26
Heimia						1											1											2	2
Helianthus	5	1				1								3					3									5	13
Helichrysum														1														1	1
Heliotropium	5	18	1		1	17			3					24	4	1	26	12	2							1		13	115
Helleborus						3																						1	3
Hemerocallis						1								1			2											3	4
Heracleum						4								1		2												3	7
Hesperaloe						6								4				1									1	4	12
Heteromeles		20				36		4						7	4	3	1	17	2					1	1		1	12	97
Heuchera		1				35		30	1								7	1									1	7	76
Hibiscus						10		1						1					3								5	5	20
Horkelia															1		2											2	3
Hydrangea						1																						1	1
Hypericum						2		3	1						1												1	5	8

Iberis								1																				1	1
Ipomoea	2	3				5								6		2	1											6	19
Iris	2	4				1		3				1															5	6	16
Isomeris		1	1			20		6						3	2	2	2	2	1								5	11	45
Isopogon																											1	1	1
Jasminum						1																						1	1
Kickxia	1	4	5	4		4								7			5	4										8	34
Kniphofia						1																						1	1
Koelreuteria						18																					4	2	22
Lagerstroemia	2	1	1			22								22			4	5										7	57
Lantana						5												1	1								3	4	10
Larrea			1			8								1			1	3									3	6	17
Lavandula			4		4	93		27				4	1	2			1	6	1						1		2	12	146
Lavatera	2					19								1			1										1	5	24
Leonotis						13								1														2	14
Leptospermum						2																						1	2
Leucophyllum	1	4	1			22								17		6	5	3	1								1	10	61
Libertia						1																						1	1
Ligustrum						8												1										2	9
Limonium	5	9				17								17		1	5	7	3						1	1		10	66
Lippia						2											1											2	3
Lobularia																	1											1	1
Lonicera						7		7																			1	3	15
Lotus				1		2								1														3	4
Lupinus			3	1		2		11										2									4	6	23
Lycianthes						1		3																				2	4
Lyonothamnus						1																						1	1
Madia	6					2		1						8			1		4									6	22
Magnolia						7																						1	7
Malacothamnus						1											1											2	2
Malosma						1									1		2	1										4	5
Malus						1																						1	1
Malva						4		1						1					1								1	5	8
Melaleuca						7		5										1									2	4	15
Mentha	6					26								21		2		8	6						2	1		8	72
Millettia						1																						1	1
Mimosa						8		1						1			1											4	11
Mimulus																	1											1	1
Monarda	1					3		3						1			1		1									6	10
Muhlenbergia						1																						1	1
Myoporum	7					45		1						8			5	4								1		7	71
Myrtus						10		1										1									3	4	15
Nandina								1																			1	2	2
Nepeta			1	1		54		4								2	5	3	3							1		9	74
Nerium						1								1					2									3	4
Nicotiana						6											1										2	3	9
Nolina						5								4		1		9										4	19
Oenothera						1					1						1		1									4	4
Opuntia						2			1		10						1	1	4									6	19

Origanum	3		2	4		78		5						3	1		9	16							1	2		11	124
Ornithostaphylos						1																						1	1
Osmanthus						2																						1	2
Ostemomeles						5		1																				2	6
Osteospermum						3																						1	3
Oxalis						18		1	1					3			5	1										6	29
Ozothamnus														4	1		2		2							2		5	11
Papaver														1														1	1
Parkinsonia						16		3										6									19	4	44
Passiflora																											2	1	2
Pavonia						2																			1			2	3
Pelargonium						4								1			1											3	6
Penstemon			1	1		29		8						2		2	8	3			1						14	10	69
Perideridia														3		1												2	4
Perovskia	9		3	11	3	65		1						2	1	1	8	16	11						1	7	3	15	142
Phacelia	2					2		6						1		1												5	12
Philadelphus						1		1																			4	3	6
Phlomis			1			6																					4	3	11
Physocarpus						1																						1	1
Pittosporum						6																						1	6
Plumbago						4											1											2	5
Polygala																											1	1	1
Poncirus						2																						1	2
Portulaca														1														1	1
Potentilla	1																											1	1
Protea						12		1																				2	13
Prunus						22		2						2			1										2	5	29
Pseudotsuga						1																						1	1
Pterocephalus						7													1									2	8
Pycnosorus														2														1	2
Pyrus						1																						1	1
Quillaja						4																						1	4
Raphanus						2											1											2	3
Rhamnus						9		1								1												3	11
Rhaphiolepis						3																					1	2	4
Rhigozum						4		3													1						5	4	13
Rhodophiala														1														1	1
Rhus						2		1																				2	3
Ribes								4																				1	4
Romneya						3																						1	3
Rosa	1					89		12	2					17		9	7	6	1		3						3	11	150
Rosmarinus	16			4	2	100		3	1	1				22		1		12									2	11	164
Ruellia	8		1		1	10								4		1		1	3								2	9	31
Rumex																										1		1	1
Russelia						1																					2	2	3
Salvia	6		50	5	7	189	1	52	2	1		2	2	49	1	1	38	26	22		7				7	4	102	21	574
Sambucus														1														1	1
Santolina						2												1										2	3
Sapium						1																						1	1

Saponaria						1								1			1										1	4	4
Scabiosa	6		1	1	1	42		17	1					14			14	1	20	1					5	6	2	15	132
Scilla						4																						1	4
Scrophularia						1		2																				2	3
Sedum	1					20								1			4	14										5	40
Senbrosa						1		1																				2	2
Senecio	2					6		2						4														4	14
Senna						1		3																			4	3	8
Sideritis								2																				1	2
Solanum	1			1	1			1									1	2										6	7
Solidago	4					14								33		1	3	1	5						1			8	62
Sollya						2											1	2									1	4	6
Sonchus	1													6		1	1											4	9
Sophora						2						1							1		1						3	5	8
Sphaeralcea	8					4					4			11		1	3	1	3						1			9	36
Spiraea						2		1									1											3	4
Stachys			21	1		9		9						2		1	1		1								3	9	48
Staphylea						1		1																				2	2
Sternbergia	1																											1	1
Syringa						2																					1	2	3
Syzygium														1														1	1
Tagetes	2					6								4					2							1		5	15
Taraxacum						1																						1	1
Tecoma	2					9								7				4				6					10	6	38
Teucrium			5		1	102		15						4			1	2	1								6	9	137
Thermopsis								1																				1	1
Thymus						27								3			1	2	1									5	34
Tilia						3																						1	3
Tipuana						9		5																			7	3	21
Trachelospermum						1																						1	1
Tradescantia						1																						1	1
Trichostema																1	1											2	2
Trifolium	1					42		2		1				8				2										6	56
Triteleia	4					7		1						1			1	2	1									7	17
Tulbaghia	2					15								5		7	4	1										6	34
Ungnadia						1																					1	2	2
Urginea						2												2										2	4
Urtica																1												1	1
Vaccinium								1																				1	1
Vauquelinia						2																						1	2
Venegasia														2					1		1							3	4
Verbascum								1																			1	2	2
Verbena					3	20		5				1		1			1									1		7	32
Veronica	12				1	34		2						13			5	1	2						4			9	74
Viburnum						1																						1	1
Vicia						7		1																			1	3	9
Vitex	8		1	3	2	49		14						6		2	3	15	15						3	1	9	14	131
Vitis																		1										1	1
Westringia	14		7	4	2	28		5						9			1	9	5		1				1		3	13	89

Wisteria						1																						1	1
Wyethia	1							1						2														3	4
X Amaristetes	1					2								1								1					1	5	6
X Chitalpa						5		1																				2	6
x Pyracomeles						2																						1	2
Xerochrysum														1														1	1
Yucca						6												1										2	7
Zephyranthes																	2											1	2
Zieria						1														1								2	2
SUM No. Assoc.	255	211	130	74	38	2321	1	424	33	6	20	11	3	824	31	85	356	367	221	6	18	7	1	2	73	60	365		
COUNT No. Assoc.	65	57	33	23	21	238	1	109	20	5	8	7	2	138	21	45	106	101	57	5	10	2	1	2	24	24	100		

Table 3: Summary of bee-to-flower associations by garden per month. The seasonality of bee activity per arboretum garden my month. Plantings in each themed garden varied greatly over time in their abilities to function as foraging bee habitat. These observations have helped to shed light on how the arboretum's function as manmade ecosystems.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	AVG
Tot no. bee-to-plant assoc.	40	24	212	364	788	833	701	680	433	309	115		4499	409.0
No. unique bee-to-plant assoc.	25	15	117	229	495	507	447	436	267	195	50		2783	253.0
No. bee genera foraging	2	2	11	13	22	21	19	22	17	10	7		146	13.3
No. plant genus utilized	23	13	60	99	166	151	136	131	102	96	42		1019	92.6
No. gardens utilized	18	12	30	31	31	33	28	28	28	28	19		286	26.0
ACAC	1		3	4		1		1	2	1	2		15	1.9
AHQ	2	2	13	5	3	1	5			1			32	4.0
ARGE			2	4	16	13	9	12	6	4	3		69	7.7
A-ST	2	1	1	4	6	13	5	5	1	5			43	4.3
AUST-N	5	1	11	21	26	29	17	15	10	8	6		149	13.5
AUST-S			8	21	49	57	46	38	24	22	6		271	30.1
BOAT			4	11	17	17	11	13	11	7	7		98	10.9
CHIL				1	9	10	2	4	1	1			28	4.0
COAS	1												1	1.0
COMM	1	1	7	2	10	9	5	8	5	2	2		52	4.7
CONI			1	11	12	22	29	24	18	15			132	16.5
COTT			5	5	6	5	10	11	5	1			48	6.0
DESE			1	3	34	35	26	29	14	9	6		157	17.4
ENTR	4		10	16	33	30	20	17	23	19	15		187	18.7
ERIC-N			5	1	4	5							15	3.8
ERIC-S	1	2	8	3	13	23	11	7	4	2			74	7.4
FOOT	1		7	15	18	21	9	10	10	6	2		99	9.9
GATE				2	26	35	32	31	18	15	8		167	20.9
GAZE	2	2	13	28	34	44	37	31	20	11	5		227	20.6
KING	1		8	6	7	4							26	5.2
LODG	1	1		4	17	13	19	19	14	5	1		94	9.4
MEDI	4	1	10	17	43	56	54	51	17	17	10		280	25.5
MOUN			1		1	1	1	3	1	2			10	1.4
MRAK	2	2	5	4	47	34	40	35	26	13	2		210	19.1
MWB	2	4	25	56	126	97	77	67	53	34	4		545	49.5
REDB			2	2	1	3	7	9	3				27	3.9
REDW			5	12	19	8	12	5	4	3			68	8.5
SHIEL			1										1	1.0
SOAF			1	7	17	12	9	8	7	7	3		71	7.9
STOR	5	5	22	41	81	90	89	116	67	46	12		574	52.2
SWUS			11	16	47	45	30	38	20	21	5		233	25.9
TENU	4	2	15	34	52	84	81	70	45	31	16		434	39.5
VALL			5		5	7							17	5.7
WALN													0	0.0
YOLO	1		2	6	9	9	8	3	4	1			43	4.8
Total no. bees per walk	40	24	212	362	788	833	701	680	433	309	115		4497	408.8

Table 4: Error analysis of existing literature bee-to plant genus foraging associations and model independence test. The existing literature list is compared to observations of foraging bees in the UC Davis Arboretum and Public Garden. See text for a description of the error metrics and the model independence test (based on the observation results for each bee genus from Table 2).

	Bee Genus	Bee genus on literature list	Count of plant genera on literature list	Count of all plant genera observed to be used in Arboretum	Count of plant genera on literature list not found in Arboretum	Count of plant genera in common with Arboretum	Count of literature plant genera correctly predicted	Count of literature plant genera not observed to be used in Arboretum (commission error)	Count of additional plant genera observed to be used in Arboretum (omission error)	Correctly predicted or sensitivity score (true positive fraction)	Omission error (false negative fraction)	% Commission error (false positive)	Model independence Chi-square test (X^2) p-value <	Chi-square test (X^2) degrees of freedom (DF)
1	Agapostemon	yes	16	65	4	12	9	3	56	0.1	0.9	25.0	0.01	64
2	Andrena	yes	14	57	3	11	6	5	51	0.1	0.9	45.5	0.01	56
3	Anthidellum	no	—	23	—	—	—	—	—	—	—	—	0.01	22
4	Anthidium	yes	7	33	2	5	4	1	29	0.1	0.9	20.0	0.01	32
5	Anthophora	yes	21	21	5	16	6	10	15	0.3	0.7	62.5	0.72	20
6	Apis melifera	yes	70	238	18	52	45	7	193	0.2	0.8	13.5	0	237
7	Ashmeadiella	yes	8	1	2	6	0	0	1	0.0	1.0	0.0	na	na
8	Bombus	yes	53	109	20	33	21	12	88	0.2	0.8	36.4	0.01	108
9	Ceratina	yes	9	20	1	8	3	5	17	0.2	0.9	62.5	0.98	19
10	Coelioxys	yes	4	5	2	2	0	2	5	0.0	1.0	100.0	0.99	4
*11	Colletes	yes	1	0	0	1	0	0	0	na	na	0.0	na	na
12	Diadasia	yes	8	8	3	5	2	3	6	0.3	0.8	60.0	0.01	7
13	Eucera	yes	3	7	0	3	1	2	6	0.1	0.9	66.7	0.89	6
14	Habropoda	yes	15	2	4	11	1	10	1	0.5	0.5	90.9	0.48	1
15	Halictus	yes	15	138	3	12	10	2	128	0.1	0.9	16.7	0	137
16	Hoplitis	yes	8	21	2	6	2	4	19	0.1	0.9	66.7	0.99	20
17	Hylaeus	yes	8	45	0	8	6	2	39	0.1	0.9	25.0	0.81	44
18	Lasioglossum	yes	14	106	6	8	6	2	100	0.1	0.9	25.0	0.01	105
19	Megachile	yes	61	101	20	41	23	18	78	0.2	0.8	43.9	0.01	100
20	Melissodes	yes	21	57	11	10	10	0	47	0.2	0.8	0.0	0.01	56
21	Nomada	no	—	5	—	—	—	—	—	—	—	—	0.99	4
22	Osmia	yes	27	10	8	19	2	17	8	0.2	0.8	89.5	0.83	9
23	Peponapis	yes	3	2	1	2	0	2	2	0	1.0	100.0	0.01	1
24	Sphecodes	no	—	1	—	—	—	—	—	—	—	—	na	na
25	Stelis	no	—	2	—	—	—	—	—	—	—	—	1	1
26	Svastra	yes	7	24	5	2	0	2	24	0	1.0	100.0	0.01	23
27	Triepeolus	no	—	24	—	—	—	—	—	—	—	—	0.01	23
28	Xylocopa	yes	18	100	2	16	8	8	92	0.1	0.9	50.0	0.01	99
	Sum	na	na	na	na	289	165	117	1005	na	na	na	na	na
	Average (mean)									0.14	0.86	47.8		
	Std. Dev.									0.12	0.12	33.4		
	Std. Error									0.02	0.02	7.0		

Table Notes:
* = not observed in Arboretum (missing in Table 2)
'na' or '—' = not applicable

Table 5: Best unexpected (novel) plants for bees. Sorted by count of bee genera foraging from each plant. Sum of bee visits per plant helps to demonstrate how popular a plant was regardless of bee type, over time. A "1" for Cal Native plant or non-native plant denotes which group it belongs to (blank= no correlation).

Plant Genus	COUNT no. bee assoc. per plant	SUM bee visit per plant	Calif. Native Plant	Non-Native Plant
Bulbine	13	13		1
Heliotropium	13	115	1	
Westringia	13	89		1
Isomeris	11	45	1	
Rosa	11	150	1	
Baileya	10	10	1	
Eriophyllum	10	33	1	
Leucophyllum	10	61		1
Limonium	10	66	1	
Bahiopsis	9	9	1	
Ruellia	9	31		1
Veronica	9	74	1	
Apocynum	8	8	1	
Eremophila	8	34		1
Grevillea	8	98		1
Kickxia	8	34		1
Craspedia	7	7		1
Datura	7	7	1	
Delosperma	7	7		1
Fremontodendron	7	34	1	
Heuchera	7	76	1	
Lagerstroemia	7	57		1
Myoporum	7	71		1
Triteleia	7	17	1	
Carpobrotus	6	6		1
Chilopsis	6	6	1	
Chitalpa	6	6	1	
Dendromecon	6	6	1	
Epilobium	6	72	1	
Eucalyptus	6	46		1
Euryops	6	40		1
Geum	6	10		1
Iris	6	16	1	
Larrea	6	17	1	
Oxalis	6	29		1
Tecoma	6	38		1
Tulbaghia	6	34		1
Acmispon	5	5		1
Adenostoma	5	5	1	
Allium	5	5	1	
Arbutus	5	5	1	
Athanasia	5	5		1
Baccharis	5	5	1	
Ballota	5	7	1	
Buddleja	5	5		1
Callistemon	5	5		1
Clematis	5	5		1
Correa	5	5		1
Hibiscus	5	20	1	
Hypericum	5	8	1	
Lavatera	5	24	1	
Malva	5	8	1	
Ozothamnus	5	11		1
Sedum	5	40	1	
Sophora	5	8		1
Thymus	5	34		1
X Amaristetes	5	6		1
Acacia	4	4		1

Aloysia	4	4		1
Anigozanthos	4	4		
Bupleurum	4	4		1
Bursaria	4	4		1
Deutzia	4	4		1
Duranta	4	4		1
Glaucium	4	5		1
Hesperaloe	4	12	1	
Lantana	4	10		1
Malosma	4	5	1	
Melaleuca	4	15		1
Mimosa	4	11		1
Nolina	4	19	1	
Rhigozum	4	13		1
Saponaria	4	4		1
Senecio	4	14	1	
Sollya	4	6		1
Sonchus	4	9		1
Acca	3	3		1
Agapanthus	3	3		1
Anemopsis	3	3	1	
Aquilegia	3	3	1	
Cerastium	3	3	1	
Cercidium	3	3	1	
Chaenomeles	3	3		1
Cleome	3	3		1
Dianella	3	3		1
Ehretia	3	3		1
Ericameria	3	4	1	
Foeniculum	3	9		1
Gomphostigma	3	3		1
Grewia	3	6		1
Hemerocallis	3	4		1
Heracleum	3	7	1	
Lonicera	3	15	1	
Nerium	3	4		1
Nicotiana	3	9		1
Phlomis	3	11		1
Senna	3	8		1
Spiraea	3	4	1	
Tipuana	3	21		1
Venegasia	3	4	1	
Wyethia	3	4	1	
Billardiera	2	2		1
Calandrinia	2	2	1	
Calliandra	2	2	1	
Calostemma	2	2		1
Cephalanthus	2	2	1	
Ceratostigma	2	2		1
Cneorum	2	2		1
Corethrogyne	2	2	1	
Digitalis	2	2		1
Dracaena	2	2		1
Echinops	2	2		1
Elaeagnus	2	2		1
Erythrina	2	11		1
Galium	2	2	1	
Galvezia	2	2	1	
Hakea	2	5		1
Hardenbergia	2	6		1
Heimia	2	2		1
Koelreuteria	2	22		1
Leonotis	2	14		1
Lippia	2	3	1	
Lycianthes	2	4		1
Nandina	2	2		1

Osteomeles	2	6		1
Pavonia	2	3		1
Perideridia	2	4	1	
Plumbago	2	5		1
Protea	2	13		1
Pterocephalus	2	8		1
Raphanus	2	3		1
Rhaphiolepis	2	4		1
Rhus	2	3	1	
Russelia	2	3		1
Santolina	2	3		1
Scrophularia	2	3	1	
Senbrosa	2	2		1
Staphylea	2	2	1	
Syringa	2	3		1
Ungnadia	2	2		1
Urginea	2	4		1
Verbascum	2	2		1
X Chitalpa	2	6		1
Yucca	2	7	1	
Zieria	2	2		1
Abies	1	1		1
Abutilon	1	2		1
Albizia	1	1		1
Albuca	1	1		
Amaryllis	1	1		1
Anthriscus	1	1		1
Brasilia	1	1		1
Brugmansia	1	1		1
Caesalpinia	1	1		1
Campanula	1	1	1	
Canna	1	1		1
Capparis	1	1		1
Catalpa	1	1		1
Chasmanthe	1	1		1
Chionanthus	1	1		1
Colletia	1	1		1
Cornus	1	1	1	
Crinodendron	1	1		1
Dasylirion	1	1	1	
Ephedra	1	2	1	
Equisetum	1	1	1	
Erica	1	2		1
Ferocactus	1	1	1	
Helichrysum	1	1	1	
Helleborus	1	3		1
Hydrangea	1	1		1
Iberis	1	1		1
Isopogon	1	1		1
Jasminum	1	1		1
Kniphofia	1	1		1
Libertia	1	1		1
Alyssum	1	1		1
Magnolia	1	7		1
Millettia	1	1		1
Mimulus	1	1	1	
Muhlenbergia	1	1	1	
Ornithostaphylos	1	1	1	
Osmanthus	1	2		1
Osteospermum	1	3		1
Passiflora	1	2		1
Physocarpus	1	1	1	
Polygala	1	1		1
Poncirus	1	2		1
Portulaca	1	1		1
Potentilla	1	1	1	

Pseudotsuga	1	1	1	
Pycnosorus	1	2		1
Quillaja	1	4		1
Rhodophiala	1	1		1
Ribes	1	4	1	
Romneya	1	3	1	
Rumex	1	1	1	
Sambucus	1	1	1	
Sapium	1	1		1
Scilla	1	4		1
Sideritis	1	2		1
Sternbergia	1	1		1
Syzygium	1	1		1
Thermopsis	1	1	1	
Tilia	1	3		1
Trachelospermum	1	1		1
Urtica	1	1		1
Vauquelinia	1	2		1
Viburnum	1	1	1	
Vitis	1	1	1	
x *Pyracomeles*	1	2		1
Xerochrysum	1	1		1
Zephyranthes	1	2	1	
Totals	702	2269	76	136

Table 6: Utilized plant geographic origin trends. Left is all foraging plants utilized by bees. Recommended plants utilized per the literature are second from the right. Right column are only plants not recommended for bees in the literature, but were used for (novel) foraging. *NOTE: In the case of many plants, there were multiple geographic origin for each plant.

All Utilized Plants (297)			**Recommended Plants (84)**		**Novel Plants (214)**	
%	Count		%	Count	%	Count
43	127	Ca Native	61	51	36	76
57	169	Non-Ca Native	39	32	64	136
Non-Native Plant Origin Analysis*						
%	Count	Geographic Origin	%	Count	%	Count
4.4	10	Africa	2.1	1	5.3	9
25.0	57	Asia	25.0	12	20.7	35
12.7	29	Australia	6.3	3	15.4	26
0.4	1	Canary Islands			0.6	1
4.4	10	Central America	6.3	3	4.1	7
1.3	3	Eastern US	2.1	1	1.2	2
15.4	35	Europe	20.8	10	14.2	24
6.1	14	Mediterranean	8.3	4	5.9	10
0.9	2	Midwest US	2.1	1	0.6	1
0.4	1	New Zealand			0.6	1
3.1	7	North Africa	8.3	4	1.8	3
7.0	16	South Africa	4.2	2	7.7	13
12.3	28	South America	6.3	3	15.4	26
0.4	1	Southeast US	0.0		0.6	1
3.1	7	Southwest US	4.2	2	3.0	5
1.3	3	Sub-tropics	2.1	1	1.2	2
1.8	4	Tropics	2.1	1	1.8	3
100.0	228	SUM	100.0	48	100.0	169
17 Locations Tot				14:17		17:17

Date of sighting	Walk #	Garden Location	Foraging Plant Genus	Foraging Plant species	Foraging Plant special type	Bee type	Bee Name Genus	Bee Name species	Best photo(s)	Collected?
1/5/2017	1	MWB	*Ceanothus*	*maritimus*	'Valley Violet'	Bumble bee	*Bombus*	*melanopygus*	0692	
1/5/2017	1	ERIC_S	*Archtostaphylos*		'Lutsko's Pink'	Bumble bee	*Bombus*	*melanopygus*	0736	
1/11/2017	2	MWB	*Ceanothus*			Bumble bee	*Bombus*	*melanopygus*	1089	
1/19/2017	3	COMM	*Rosmarinus*	*officinalis*	'Renzels'	Honey bee	*Apis*	*melifera*	1131	
1/19/2017	3	YOLO	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	1134	
1/19/2017	3	GAZE	*Lonicera*	*standashii*		Honey bee	*Apis*	*melifera*	1136	
1/19/2017	3	GAZE	*Abutilon*	x *hybridum*	white flowered form	Honey bee	*Apis*	*melifera*	1138	
1/19/2017	3	MWB	*Ceanothus*	*maritimus*	'Valley Violet'	Bumble bee	*Bombus*	*melanopygus*	1150	
1/19/2017	3	ERIC_S	*Archtostaphylos*		'Lutsko's Pink'	Bumble bee	*Bombus*	*melanopygus*	1163	
1/19/2017	3	AUST_N	*Acacia*	*boormanii*		Honey bee	*Apis*	*melifera*	1167	
1/19/2017	3	AUST_N	*Protea*	sp.		Bumble bee	*Bombus*	*melanopygus*	1168	
1/19/2017	3	AUST_N	*Protea*	sp.		Honey bee	*Apis*	*melifera*	1173	
1/19/2017	3	AUST_N	*Westringia*	*rigida*		Honey bee	*Apis*	*melifera*	1174	
1/25/2017	4	MEDI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	1201	
1/25/2017	4	AHQ	*Ceanothus*	*maritimus*	'Valley Violet'	Bumble bee	*Bombus*	*melanopygus*	1204	
1/25/2017	4	KING	*Berberis*	x *media*	'Arthus Menzies'	Bumble bee	*Bombus*	*melanopygus*	1217	
1/25/2017	4	MRAK	*Lonicera*	*standashii*		Honey bee	*Apis*	*melifera*	1220	
1/25/2017	4	ERIC_S	*Archtostaphylos*		'Lutsko's Pink'	Bumble bee	*Bombus*	*melanopygus*	1227	
1/25/2017	4	AUST_N	*Acacia*	*boormanii*		Honey bee	*Apis*	*melifera*	1229	
1/25/2017	4	AUST_N	*Acacia*	*boormanii*		Bumble bee	*Bombus*	*melanopygus*	1232	
1/25/2017	4	AUST_N	*Eucalyptus*	*woodwardii*		Honey bee	*Apis*	*melifera*	1238	
1/25/2017	4	AUST_N	*Protea*	sp.		Honey bee	*Apis*	*melifera*	1239	
1/25/2017	4	A_ST	*Ceanothus*	*maritimus*	'Valley Violet'	Bumble bee	*Bombus*	*melanopygus*	1247	
1/25/2017	4	MWB	*Ceanothus*	*maritimus*	'Valley Violet'	Bumble bee	*Bombus*	*melanopygus*	1260	COLLECTED
1/25/2017	4	MWB	*Ceanothus*	*maritimus*	'Valley Violet'	Honey bee	*Apis*	*melifera*	1261	COLLECTED
1/30/2017	5	FOOT	*Ceanothus*	*verrucosus*		Bumble bee	*Bombus*	*melanopygus*	1266	
1/30/2017	5	ENTR	*Euryops*	*pectinatus*	'Munchkin'	Honey bee	*Apis*	*melifera*	1268	
1/30/2017	5	ENTR	*Rosmarinus*	*officinalis*	'Irene'	Honey bee	*Apis*	*melifera*	1270	
1/30/2017	5	ENTR	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	1271	
1/30/2017	5	ENTR	*Bulbine*	*frutescens*	'Tiny Tangerine'	Honey bee	*Apis*	*melifera*	1272	
1/30/2017	5	ACAC	*Acacia*	*podalyriifolia*		Honey bee	*Apis*	*melifera*	1276	
1/30/2017	5	LODG	*Prunus*	*cerasifera*		Honey bee	*Apis*	*melifera*	1279	
1/30/2017	5	COMM	*Rosmarinus*	*officinalis*	'Renzels'	Honey bee	*Apis*	*melifera*	1280	
1/30/2017	5	GAZE	*Lonicera*	*standashii*		Honey bee	*Apis*	*melifera*	1283	
1/30/2017	5	GAZE	*Abutilon*	x *hybridum*	white flowered form	Honey bee	*Apis*	*melifera*	1284	
1/30/2017	5	STOR	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	1285	
1/30/2017	5	STOR	*Prunus*	*mume*	'Matsubara'	Honey bee	*Apis*	*melifera*	1287	
1/30/2017	5	STOR	*Helleborus*	x *hybridus*		Honey bee	*Apis*	*melifera*	1291	
1/30/2017	5	STOR	*Chasmanthe*	*floribunda*		Honey bee	*Apis*	*melifera*	1292	
1/30/2017	5	STOR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	1293	
1/30/2017	5	EASI	*Jasminum*	*nudiflorum*		Honey bee	*Apis*	*melifera*	1294	
1/30/2017	5	EASI	*Kniphofia*		'Christmas Cheer'	Honey bee	*Apis*	*melifera*	1296	
1/30/2017	5	EASI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	1297	
1/30/2017	5	EASI	*Bulbine*	*frutescens*	'Tiny Tangerine'	Honey bee	*Apis*	*melifera*	1299	
1/30/2017	5	MEDI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	1303	
1/30/2017	5	MEDI	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	1304	
1/30/2017	5	MEDI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	1305	
1/30/2017	5	MEDI	*Lavatera*	*maritima*		Honey bee	*Apis*	*melifera*	1312	
1/30/2017	5	AHQ	*Ceanothus*	*maritimus*	'Valley Violet'	Honey bee	*Apis*	*melifera*	1323	
1/30/2017	5	AHQ	*Ceanothus*	*maritimus*	'Valley Violet'	Bumble bee	*Bombus*	*melanopygus*	1324	
1/30/2017	5	MRAK	*Lonicera*	*standashii*		Bumble bee	*Bombus*	*melanopygus*	1329	
1/30/2017	5	MRAK	*Lonicera*	*standashii*		Honey bee	*Apis*	*melifera*	1336	
1/30/2017	5	COAS	*Ceanothus*	*maritimus*	'Valley Violet'	Bumble bee	*Bombus*	*melanopygus*	1340	
1/30/2017	5	A_ST	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	1341	
1/30/2017	5	A_ST	*Ceanothus*	*maritimus*	'Valley Violet'	Bumble bee	*Bombus*	*melanopygus*	1345	
1/30/2017	5	AUST_N	*Protea*	sp.		Honey bee	*Apis*	*melifera*	1352	
1/30/2017	5	AUST_N	*Myoporum*	*parvifolium*		Honey bee	*Apis*	*melifera*	1354	
1/30/2017	5	AUST_N	*Acacia*	*podalyriifolia*		Bumble bee	*Bombus*	*melanopygus*	1358	
1/30/2017	5	ERIC_S	*Archtostaphylos*		'Lutsko's Pink'	Bumble bee	*Bombus*	*melanopygus*	1360	
1/30/2017	5	MWB	*Ceanothus*	*verrucosus*		Bumble bee	*Bombus*	*melanopygus*	1363	
1/30/2017	5	MWB	*Ceanothus*	*maritimus*	'Valley Violet'	Honey bee	*Apis*	*melifera*	1365	
2/7/2017	6	LODG	*Prunus*	*cerasifera*		Honey bee	*Apis*	*melifera*	1369	
2/7/2017	6	COMM	*Rosmarinus*	*officinalis*	'Renzels'	Honey bee	*Apis*	*melifera*	1370	
2/7/2017	6	GAZE	*Lonicera*	*standashii*		Honey bee	*Apis*	*melifera*	1373	
2/7/2017	6	STOR	*Prunus*	*mume*	'Matsubara'	Honey bee	*Apis*	*melifera*	1376	
2/7/2017	6	STOR	*Helleborus*	x *hybridus*		Honey bee	*Apis*	*melifera*	1378	
2/7/2017	6	STOR	*Viburnum*	*tinus*	compact form	Honey bee	*Apis*	*melifera*	1379	
2/7/2017	6	STOR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	1380	
2/7/2017	6	EASI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	1381	
2/7/2017	6	EASI	*Ceanothus*	*maritimus*	'Valley Violet'	Honey bee	*Apis*	*melifera*	1383	
2/7/2017	6	MEDI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	1388	
2/7/2017	6	AHQ	*Ceanothus*	*maritimus*	'Valley Violet'	Honey bee	*Apis*	*melifera*	1394	
2/7/2017	6	AHQ	*Ceanothus*	*maritimus*	'Valley Violet'	Bumble bee	*Bombus*	*melanopygus*	1396	
2/7/2017	6	MRAK	*Lonicera*	*standashii*		Bumble bee	*Bombus*	*melanopygus*	1398	
2/7/2017	6	MRAK	*Prunus*		'Peggy Clark'	Honey bee	*Apis*	*melifera*	1399	
2/7/2017	6	ERIC_S	*Archtostaphylos*		'Lutsko's Pink'	Bumble bee	*Bombus*	*melanopygus*	1400	
2/7/2017	6	MWB	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	1408	
2/7/2017	6	MWB	*Ceanothus*	*maritimus*	'Valley Violet'	Honey bee	*Apis*	*melifera*	1410	
2/7/2017	6	MWB	*Ceanothus*	*maritimus*	'Valley Violet'	Bumble bee	*Bombus*	*melanopygus*	1411	

2/15/2017	7	GAZE	Chaenomeles	speciosa	'Candida'	Bumble bee	Bombus	melanopygus	1413	
2/15/2017	7	AHQ	Ceanothus	maritimus	'Valley Violet'	Bumble bee	Bombus	melanopygus	1418	
2/15/2017	7	A_ST	Ceanothus	maritimus	'Valley Violet'	Bumble bee	Bombus	melanopygus	1428	
2/15/2017	7	ERIC_S	Arbutus	andrachne		Bumble bee	Bombus	melanopygus	1440	
2/15/2017	7	ERIC_S	Archtostaphylos	densiflora	'Howard McMinn'	Bumble bee	Bombus	melanopygus	1444	
2/15/2017	7	MWB	Ceanothus	verrucosus		Bumble bee	Bombus	melanopygus	1447	
2/15/2017	7	MWB	Ceanothus	verrucosus	white flowered form	Honey bee	Apis	melifera	1453	
2/15/2017	7	MWB	Berberis	aquifolium	'Compacta'	Bumble bee	Bombus	melanopygus	1457	
2/22/2017	8	STOR	Chaenomeles	speciosa	'Blood Red'	Honey bee	Apis	melifera	1461	
2/22/2017	8	STOR	Rosmarinus	officinalis		Honey bee	Apis	melifera	1463	
2/22/2017	8	EASI	Ceanothus	maritimus	'Valley Violet'	Honey bee	Apis	melifera	1465	
2/22/2017	8	EASI	Rosmarinus	officinalis		Honey bee	Apis	melifera	1466	
2/22/2017	8	MEDI	Rosmarinus	officinalis		Honey bee	Apis	melifera	1467	
2/22/2017	8	MEDI	Teucrium	fruticans		Honey bee	Apis	melifera	1469	
2/22/2017	8	AHQ	Ceanothus	maritimus	'Valley Violet'	Honey bee	Apis	melifera	1471	
2/22/2017	8	MRAK	Lonicera	standashii		Bumble bee	Bombus	melanopygus	1472	
2/22/2017	8	AUST_N	Protea	sp.		Honey bee	Apis	melifera	1473	
2/22/2017	8	ERIC_S	Arbutus	andrachne		Honey bee	Apis	melifera	1474	
2/22/2017	8	ERIC_S	Arbutus	andrachne		Bumble bee	Bombus	melanopygus	1476	
2/22/2017	8	ERIC_S	Archtostaphylos		'Lutsko's Pink'	Bumble bee	Bombus	melanopygus	1483	
2/22/2017	8	MWB	Ceanothus	verrucosus		Honey bee	Apis	melifera	1488	
2/22/2017	8	MWB	Ceanothus	verrucosus		Bumble bee	Bombus	melanopygus	1490	
3/1/2017	9	FOOT	Ceanothus	verrucosus		Bumble bee	Bombus	melanopygus	1493	
3/1/2017	9	ENTR	Rosmarinus	officinalis		Honey bee	Apis	melifera	1494	
3/1/2017	9	ENTR	Sonchus	sp.		Native bee	Lasioglossum	tagularifore	1495	COLLECTED
3/1/2017	9	STOR	Teucrium	fruticans		Honey bee	Apis	melifera	1500	
3/1/2017	9	STOR	Helleborus	x hybridus		Honey bee	Apis	melifera	1502	
3/1/2017	9	STOR	Rosmarinus	officinalis		Honey bee	Apis	melifera	1503	
3/1/2017	9	EASI	Rosmarinus	officinalis		Honey bee	Apis	melifera	1507	
3/1/2017	9	MEDI	Rosmarinus	officinalis		Honey bee	Apis	melifera	1511	
3/1/2017	9	MEDI	Rosmarinus	officinalis		Bumble bee	Bombus	melanopygus	1516	
3/1/2017	9	MEDI	Teucrium	fruticans		Honey bee	Apis	melifera	1517	
3/1/2017	9	SWUS	Prunus	mexicana		Honey bee	Apis	melifera	1519	
3/1/2017	9	CONI	Ceanothus		'Ray Hartman'	Honey bee	Apis	melifera	1521	
3/1/2017	9	AHQ	Teucrium	fruticans		Honey bee	Apis	melifera	1523	
3/1/2017	9	AHQ	Ceanothus	maritimus	'Valley Violet'	Honey bee	Apis	melifera	1525	
3/1/2017	9	AHQ	Ceanothus	maritimus	'Valley Violet'	Bumble bee	Bombus	melanopygus	1526	
3/1/2017	9	MRAK	Prunus	x yedoensis	'Akebono'	Honey bee	Apis	melifera	1530	
3/1/2017	9	A_ST	Ceanothus	maritimus	'Valley Violet'	Bumble bee	Bombus	melanopygus	1533	
3/1/2017	9	AUST_N	Protea	sp.		Honey bee	Apis	melifera	1536	
3/1/2017	9	AUST_N	Hardenbergia	violacea	'Happy Wanderer'	Honey bee	Apis	melifera	1538	
3/1/2017	9	AUST_S	Westringia	fruticosa	'Wynyabbie Gem'	Honey bee	Apis	melifera	1540	
3/1/2017	9	ERIC_S	Arbutus	andrachne		Honey bee	Apis	melifera	1541	
3/1/2017	9	ERIC_S	Arbutus	andrachne		Bumble bee	Bombus	melanopygus	1542	
3/1/2017	9	ERIC_S	Arbutus	andrachne		Native bee	Osmia	sp.	1543	
3/1/2017	9	ERIC_S	Archtostaphylos	densiflora	'Howard McMinn'	Bumble bee	Bombus	melanopygus	1544	
3/1/2017	9	MWB	Ceanothus	verrucosus		Honey bee	Apis	melifera	1545	
3/1/2017	9	MWB	Ceanothus	verrucosus		Bumble bee	Bombus	melanopygus	1547	
3/1/2017	9	MWB	Berberis	aquifolium	'Sky Lark'	Bumble bee	Bombus	melanopygus	1550	
3/1/2017	9	MWB	Verbena	lilaciana	'De la Mina'	Bumble bee	Bombus	melanopygus	1552	
3/8/2017	10	FOOT	Ribes	aureum	var. gracillimum	Bumble bee	Bombus	vosnesenskii	1562	
3/8/2017	10	FOOT	Heuchera	maxima		Bumble bee	Bombus	vosnesenskii	1563	
3/8/2017	10	FOOT	Ceanothus	verrucosus		Bumble bee	Bombus	sp.	1565	
3/8/2017	10	FOOT	Ceanothus	verrucosus		Honey bee	Apis	melifera	1566	
3/8/2017	10	ENTR	Rosmarinus	officinalis		Honey bee	Apis	melifera	1568	
3/8/2017	10	ENTR	Teucrium	fruticans		Honey bee	Apis	melifera	1569	
3/8/2017	10	ENTR	Ceanothus		'Ray Hartman'	Honey bee	Apis	melifera	1570	
3/8/2017	10	VALL	Ceanothus		'Treasure Island'	Bumble bee	Bombus	sp.	1572	
3/8/2017	10	VALL	Ceanothus		'Treasure Island'	Honey bee	Apis	melifera	1574	
3/8/2017	10	COMM	Rosmarinus	officinalis	'Renzels'	Honey bee	Apis	melifera	1575	
3/8/2017	10	GAZE	Prunus	persica	double white flowered form	Bumble bee	Bombus	vosnesenskii	1576	
3/8/2017	10	GAZE	Oxalis	purpurea	Grand Dutchess Group	Honey bee	Apis	melifera	1577	
3/8/2017	10	SHIEL	Prunus	persica	dwarf form	Honey bee	Apis	melifera	1580	
3/8/2017	10	STOR	Berberis		'Golden Abundance'	Honey bee	Apis	melifera	1582	
3/8/2017	10	STOR	Rosmarinus	officinalis	'Dancing Waters'	Honey bee	Apis	melifera	1584	
3/8/2017	10	EASI	Prunus	sp.		Honey bee	Apis	melifera	1585	
3/8/2017	10	EASI	Teucrium	fruticans	'Azureum'	Honey bee	Apis	melifera	1586	
3/8/2017	10	EASI	Rosmarinus	officinalis		Honey bee	Apis	melifera	1587	
3/8/2017	10	EASI	Ceanothus	maritimus	'Valley Violet'	Honey bee	Apis	melifera	1589	
3/8/2017	10	MEDI	Rosmarinus	officinalis		Honey bee	Apis	melifera	1590	
3/8/2017	10	MEDI	Lavandula	sp.		Honey bee	Apis	melifera	1591	
3/8/2017	10	MEDI	Cneorum	tricoccon		Honey bee	Apis	melifera	1592	
3/8/2017	10	MEDI	Teucrium	fruticans		Honey bee	Apis	melifera	1596	
3/8/2017	10	MEDI	Lavatera	maritima		Honey bee	Apis	melifera	1597	
3/8/2017	10	SWUS	Sedum	dendeonideum		Honey bee	Apis	melifera	1599	
3/8/2017	10	SWUS	Prunus	mexicana		Honey bee	Apis	melifera	1600	
3/8/2017	10	SWUS	Salvia	leucophylla		Honey bee	Apis	melifera	1601	
3/8/2017	10	SWUS	Teucrium	fruticans		Honey bee	Apis	melifera	1602	
3/8/2017	10	AHQ	Senecio	petasistis		Honey bee	Apis	melifera	1603	
3/8/2017	10	REDB	Cercis	occidentalis		Honey bee	Apis	melifera	1606	

3/8/2017	10	MRAK	*Prunus*	x *yedoensis*	'Akebono'	Honey bee	*Apis*	*melifera*	1608	
3/8/2017	10	A_ST	*Ceanothus*	*maritimus*	'Valley Violet'	Bumble bee	*Bombus*	sp.	1612	
3/8/2017	10	ERIC_N	*Arbutus*	*andrachne*		Honey bee	*Apis*	*melifera*	1615	
3/8/2017	10	ERIC_N	*Arbutus*	*andrachne*		Bumble bee	*Bombus*	*melanopygus*	1617	
3/8/2017	10	AUST_N	*Hardenbergia*	*violacea*	'Happy Wanderer'	Honey bee	*Apis*	*melifera*	1619	
3/8/2017	10	AUST_N	*Westringia*	*fruticosa*	'Wynyabbie Gem'	Honey bee	*Apis*	*melifera*	1620	
3/8/2017	10	ERIC_S	*Archtostaphylos*	*densiflora*	'Howard McMinn'	Honey bee	*Apis*	*melifera*	1621	
3/8/2017	10	ERIC_S	*Archtostaphylos*	*densiflora*	'Howard McMinn'	Bumble bee	*Bombus*	*melanopygus*	1625	
3/8/2017	10	ERIC_S	*Arbutus*	*andrachne*		Bumble bee	*Bombus*	*melanopygus*	1630	
3/8/2017	10	ERIC_S	*Arbutus*	*andrachne*		Honey bee	*Apis*	*melifera*	1632	
3/8/2017	10	MWB	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	1634	
3/8/2017	10	MWB	*Ceanothus*	sp.		Bumble bee	*Bombus*	sp.	1638	
3/8/2017	10	MWB	*Ceanothus*	*verrucosus*		Honey bee	*Apis*	*melifera*	1642	
3/8/2017	10	MWB	*Berberis*	*aquifolium*	'Sky Lark'	Honey bee	*Apis*	*melifera*	1648	
3/8/2017	10	MWB	*Verbena*	*lilaciana*	'De la Mina'	Honey bee	*Apis*	*melifera*	1649	
3/8/2017	10	MWB	*Salvia*	*leucophylla*		Native bee	*Osmia*	sp.	1652	COLLECTED
3/13/2017	11	FOOT	*Ribes*	*aureum*		Bumble bee	*Bombus*	sp.	1661	
3/13/2017	11	FOOT	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	1663	
3/13/2017	11	ENTR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	1664	
3/13/2017	11	ENTR	*Bulbine*	*frutescens*	'Tiny Tangerine'	Honey bee	*Apis*	*melifera*	1665	
3/13/2017	11	ENTR	*Ceanothus*	sp.		Honey bee	*Apis*	*melifera*	1667	
3/13/2017	11	ENTR	*Cercis*	*occidentalis*		Native bee	*Xylocopa*	*varipuncta*	1668	
3/13/2017	11	ENTR	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	1669	
3/13/2017	11	ENTR	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	1670	
3/13/2017	11	VALL	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	1674	
3/13/2017	11	VALL	*Ceanothus*		'Treasure Island'	Honey bee	*Apis*	*melifera*	1676	
3/13/2017	11	VALL	*Ceanothus*		'Treasure Island'	Native bee	*Osmia*	sp.	1677	
3/13/2017	11	VALL	*Ceanothus*		'Treasure Island'	Native bee	*Andrena*	sp.	1682	COLLECTED
3/13/2017	11	VALL	*Ceanothus*		'Treasure Island'	Bumble bee	*Bombus*	sp.	1682a	
3/13/2017	11	ACAC	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	1683	
3/13/2017	11	ACAC	*Berberis*	*aquifolium*	var. *dictyota*	Honey bee	*Apis*	*melifera*	1684	
3/13/2017	11	ACAC	*Cercis*	*occidentalis*		Bumble bee	*Bombus*	sp.	1685	
3/13/2017	11	COMM	*Rosmarinus*	*officinalis*	'Renzels'	Honey bee	*Apis*	*melifera*	1686	
3/13/2017	11	BOAT	*Wisteria*	*sinensis*		Honey bee	*Apis*	*melifera*	1687	
3/13/2017	11	COMM	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	1688	
3/13/2017	11	COMM	*Cercis*	*occidentalis*		Native bee	*Xylocopa*	*varipuncta*	1692	
3/13/2017	11	COMM	*Cercis*	*occidentalis*		Bumble bee	*Bombus*	sp.	1693	
3/13/2017	11	COTT	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	1695	
3/13/2017	11	GAZE	*Chaenomeles*	*speciosa*	'Candida'	Honey bee	*Apis*	*melifera*	1696	
3/13/2017	11	GAZE	*Prunus*	sp.		Honey bee	*Apis*	*melifera*	1698	
3/13/2017	11	GAZE	*Prunus*	sp.		Native bee	*Xylocopa*	*tabaniformis*	1698a	
3/13/2017	11	GAZE	*Poncirus*	*umbellata*		Honey bee	*Apis*	*melifera*	1699	
3/13/2017	11	STOR	*Ceanothus*		'Ray Hartman'	Honey bee	*Apis*	*melifera*	1702	
3/13/2017	11	STOR	*Syringa*	x *laciniata*		Honey bee	*Apis*	*melifera*	1704	
3/13/2017	11	STOR	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	1707	
3/13/2017	11	STOR	*Teucrium*	*fruticans*		Native bee	*Xylocopa*	sp.	1706	
3/13/2017	11	STOR	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	1708	
3/13/2017	11	STOR	*Cercis*	*occidentalis*		Native bee	*Xylocopa*	*varipuncta*	1716	
3/13/2017	11	STOR	*Berberis*		'Golden Abundance'	Honey bee	*Apis*	*melifera*	1718	
3/13/2017	11	STOR	*Chaenomeles*	*speciosa*	'Blood Red'	Honey bee	*Apis*	*melifera*	1719	
3/13/2017	11	STOR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	1720	
3/13/2017	11	STOR	*Scabiosa*	*ochroleuca*		Native bee	*Xylocopa*	*varipuncta*	1721	
3/13/2017	11	STOR	*Syringa*	x *laciniata*		Native bee	*Xylocopa*	*varipuncta*	1703	
3/13/2017	11	STOR	*Scabiosa*	*ochroleuca*		Honey bee	*Apis*	*melifera*	1722	
3/13/2017	11	EASI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	1723	
3/13/2017	11	EASI	*Ceanothus*		'Ray Hartman'	Honey bee	*Apis*	*melifera*	1725	
3/13/2017	11	EASI	*Prunus*	*persica*		Honey bee	*Apis*	*melifera*	1727	
3/13/2017	11	EASI	*Ceanothus*	*maritimus*	'Valley Violet'	Bumble bee	*Bombus*	sp.	1728	
3/13/2017	11	EASI	*Sedum*	*palmeri*		Honey bee	*Apis*	*melifera*	1729	
3/13/2017	11	EASI	*Chaenomeles*	*speciosa*		Honey bee	*Apis*	*melifera*	1730	
3/13/2017	11	EASI	*Chaenomeles*	*speciosa*		Native bee	*Lasioglossum*	sp.	1731	
3/13/2017	11	EASI	*Chaenomeles*	*speciosa*		Bumble bee	*Bombus*	*vosnesenskii*	1737	
3/13/2017	11	MEDI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	1738	
3/13/2017	11	MEDI	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	1739	
3/13/2017	11	MEDI	*Teucrium*	*fruticans*		Bumble bee	*Bombus*	*vosnesenskii*	1740	
3/13/2017	11	MEDI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	1742	
3/13/2017	11	MEDI	*Cneorum*	*tricoccon*		Honey bee	*Apis*	*melifera*	1743	
3/13/2017	11	MEDI	*Erysimum*	sp.		Honey bee	*Apis*	*melifera*	1745	
3/13/2017	11	MEDI	*Lavatera*	*maritima*		Honey bee	*Apis*	*melifera*	1746	
3/13/2017	11	ARGE	*Lantana*	*montevidensis*	lavender flowered form	Honey bee	*Apis*	*melifera*	1747	
3/13/2017	11	SWUS	*Sedum*	*dendeonideum*		Honey bee	*Apis*	*melifera*	1749	
3/13/2017	11	SWUS	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	1750	
3/13/2017	11	SWUS	*Salvia*	*leucophylla*		Honey bee	*Apis*	*melifera*	1752	
3/13/2017	11	CONI	*Ceanothus*		'Ray Hartman'	Honey bee	*Apis*	*melifera*	1754	
3/13/2017	11	ERIC_N	*Arbutus*	*andrachne*		Bumble bee	*Bombus*	*vosnesenskii*	1759	COLLECTED
3/13/2017	11	ERIC_N	*Arbutus*	*andrachne*		Honey bee	*Apis*	*melifera*	1762	
3/13/2017	11	ERIC_N	*Arbutus*	*andrachne*		Native bee	*Xylocopa*	*varipuncta*	1761	COLLECTED
3/13/2017	11	AUST_N	*Hardenbergia*	*violacea*	'Happy Wanderer'	Honey bee	*Apis*	*melifera*	1763	
3/13/2017	11	AUST_N	*Westringia*	*fruticosa*	'Wynyabbie Gem'	Honey bee	*Apis*	*melifera*	1764	
3/13/2017	11	AUST_N	*Myoporum*	*parvifolium*		Honey bee	*Apis*	*melifera*	1769	

3/13/2017	11	AUST_N	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	1772	
3/13/2017	11	AUST_N	*Westringia*	*fruticosa*	'Wynyabbie Gem'	Native bee	*Osmia*	sp.	1774	COLLECTED
3/13/2017	11	AUST_N	*Correa*	*alba*		Native bee	*Osmia*	sp.	1776	
3/13/2017	11	ERIC_S	*Arbutus*	*andrachne*		Honey bee	*Apis*	*melifera*	1778	
3/13/2017	11	ERIC_S	*Arbutus*	*andrachne*		Bumble bee	*Bombus*	*melanopygus*	1781	COLLECTED
3/13/2017	11	ERIC_S	*Arbutus*	*andrachne*		Native bee	*Andrena*	sp.	1778a	COLLECTED
3/13/2017	11	ERIC_S	*Archtostaphylos*	*densiflora*	'Howard McMinn'	Honey bee	*Apis*	*melifera*	1784	
3/13/2017	11	ERIC_S	*Ceanothus*	*cuneatus*		Honey bee	*Apis*	*melifera*	1787	
3/13/2017	11	A_ST	*Ceanothus*	*maritimus*	'Valley Violet'	Bumble bee	*Bombus*	sp.	1791	
3/13/2017	11	MWB	*Berberis*	*aquifolium*		Honey bee	*Apis*	*melifera*	1794	
3/13/2017	11	MWB	*Berberis*	*aquifolium*		Native bee	*Osmia*	sp.	1795	
3/13/2017	11	MWB	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	1799	
3/13/2017	11	MWB	*Ribes*	*sanguineum*		Bumble bee	*Bombus*	sp.	1803	COLLECTED
3/13/2017	11	MWB	*Cercis*	*occidentalis*		Native bee	*Xylocopa*	*tabaniformis*	1814	COLLECTED
3/13/2017	11	MWB	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	1816	
3/13/2017	11	MWB	*Ceanothus*	sp.		Honey bee	*Apis*	*melifera*	1817	
3/13/2017	11	MWB	*Ceanothus*	sp.		Bumble bee	*Bombus*	sp.	1818	
3/13/2017	11	MWB	*Heuchera*	*rosada*		Honey bee	*Apis*	*melifera*	1820	
3/13/2017	11	MWB	*Archtostaphylos*	sp.		Honey bee	*Apis*	*melifera*	1823	
3/13/2017	11	MWB	*Salvia*	*cleavelandii*	'Winnifred Gilman'	Native bee	*Xylocopa*	*varipuncta*	1827	
3/13/2017	11	AHQ	*Taraxacum*	sp.		Honey bee	*Apis*	*melifera*	1830	
3/13/2017	11	AHQ	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	1831	
3/13/2017	11	AHQ	*Cercis*	*occidentalis*		Native bee	*Osmia*	sp.	1833	
3/13/2017	11	AHQ	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	1834	
3/13/2017	11	REDB	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	1836	
3/13/2017	11	REDB	*Cercis*	*occidentalis*		Native bee	*Xylocopa*	*varipuncta*	1838	
3/13/2017	11	DESE	*Ornithostaphylos*	*oppositifolia*		Honey bee	*Apis*	*melifera*	1840	
3/13/2017	11	KING	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	1841	
3/13/2017	11	KING	*Cercis*	*occidentalis*		Native bee	*Xylocopa*	*varipuncta*	1842	
3/13/2017	11	KING	*Cercis*	*occidentalis*		Bumble bee	*Bombus*	sp.	1843	
3/13/2017	11	KING	*Berberis*	x *media*	'Aurthur Menzies'	Bumble bee	*Bombus*	sp.	1845	
3/13/2017	11	KING	*Berberis*	x *media*	'Aurthur Menzies'	Honey bee	*Apis*	*melifera*	1848	
3/13/2017	11	KING	*Salvia*	mellifera	'Point Mugu'	Honey bee	*Apis*	*melifera*	1849	
3/13/2017	11	KING	*Salvia*	mellifera	'Point Mugu'	Native bee	*Ceratina*	sp.	1863	COLLECTED
3/13/2017	11	MRAK	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	1875	
3/13/2017	11	MRAK	*Cercis*	*occidentalis*		Native bee	*Xylocopa*	*varipuncta*	1877	
3/13/2017	11	MRAK	*Prunus*	x *yedoensis*	'Akebono'	Honey bee	*Apis*	*melifera*	1878	
3/13/2017	11	MRAK	*Prunus*	x *yedoensis*	'Akebono'	Native bee	*Andrena*	sp.	1880	COLLECTED
3/21/2017	12	FOOT	*Ceanothus*	sp.		Honey bee	*Apis*	*melifera*	1883	
3/21/2017	12	FOOT	*Ceanothus*	*arboreus*		Bumble bee	*Bombus*	*vosenesenskii*	1885	
3/21/2017	12	ENTR	*Ceanothus*		'Ray Hartman'	Bumble bee	*Bombus*	*vosenesenskii*	1891	
3/21/2017	12	ENTR	*Ceanothus*		'Ray Hartman'	Honey bee	*Apis*	*melifera*	1895	
3/21/2017	12	ENTR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	1898	
3/21/2017	12	VALL	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	1901	
3/21/2017	12	VALL	*Ceanothus*		'Treasure Island'	Bumble bee	*Bombus*	*vosenesenskii*	1902	COLLECTED
3/21/2017	12	ACAC	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	1903	
3/21/2017	12	COMM	*Rosmarinus*	*officinalis*	'Renzels'	Honey bee	*Apis*	*melifera*	1905	
3/21/2017	12	COMM	*Rosmarinus*	*officinalis*	'Renzels'	Native bee	*Halictus*	sp.	1907	
3/21/2017	12	COMM	*Rosmarinus*	*officinalis*	'Renzels'	Bumble bee	*Bombus*	sp.	1906	
3/21/2017	12	COTT	*Pyrus*	*calleryana*		Honey bee	*Apis*	*melifera*	1908	
3/21/2017	12	COTT	*Prunus*	*cerasifera*		Bumble bee	*Bombus*	sp.	1911	
3/21/2017	12	COTT	*Prunus*	*cerasifera*		Honey bee	*Apis*	*melifera*	1913	
3/21/2017	12	COTT	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	1914	
3/21/2017	12	YOLO	*Eschscholzia*	*californica*		Bumble bee	*Bombus*	*vosenesenskii*	1917	
3/21/2017	12	GAZE	*Staphylea*	*colchica*		Honey bee	*Apis*	*melifera*	1919	
3/21/2017	12	GAZE	*Staphylea*	*colchica*		Bumble bee	*Bombus*	sp.	1920	
3/21/2017	12	MOUN	*Cercis*	*chinensis*	'Alba'	Honey bee	*Apis*	*melifera*	1924	
3/21/2017	12	STOR	*Ceanothus*		'Ray Hartman'	Honey bee	*Apis*	*melifera*	1926	
3/21/2017	12	STOR	*Lavandula*	*angustifolia*	'Hidcote'	Bumble bee	*Bombus*	sp.	1928	
3/21/2017	12	STOR	*Lavandula*	*angustifolia*	'Hidcote'	Honey bee	*Apis*	*melifera*	1930	
3/21/2017	12	STOR	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	1931	
3/21/2017	12	STOR	*Scabiosa*	*ochroleuca*		Honey bee	*Apis*	*melifera*	1935	
3/21/2017	12	STOR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	1937	
3/21/2017	12	EASI	*Geranium*	*cantabrigiense*	'Biokovo'	Bumble bee	*Bombus*	*vosenesenskii*	1938	
3/21/2017	12	EASI	*Geranium*	*cantabrigiense*	'Biokovo'	Honey bee	*Apis*	*melifera*	1939	
3/21/2017	12	EASI	*Ceanothus*		'Ray Hartman'	Honey bee	*Apis*	*melifera*	1940	
3/21/2017	12	EASI	*Ceanothus*		'Ray Hartman'	Bumble bee	*Bombus*	sp.	1941	
3/21/2017	12	EASI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	1942	
3/21/2017	12	SOAF	*Salvia*	*disermas*		Bumble bee	*Bombus*	*vosenesenskii*	1947	
3/21/2017	12	MEDI	*Rosmarinus*	*officinalis*		Bumble bee	*Bombus*	sp.	1949	
3/21/2017	12	MEDI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	1950	
3/21/2017	12	MEDI	*Cneorum*	*tricoccon*		Honey bee	*Apis*	*melifera*	1952	
3/21/2017	12	MEDI	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	1953	
3/21/2017	12	KING	*Salvia*		'Bee's Bliss'	Bumble bee	*Bombus*	sp.	1956	
3/21/2017	12	ERIC_N	*Arbutus*	*andrachne*		Bumble bee	*Bombus*	*vosenesenskii*	1957	
3/21/2017	12	ERIC_N	*Arbutus*	*andrachne*		Honey bee	*Apis*	*melifera*	1961	
3/21/2017	12	ERIC_N	*Erica*	*arborea*		Honey bee	*Apis*	*melifera*	1966	
3/21/2017	12	AUST_N	*Protea*	sp.		Honey bee	*Apis*	*melifera*	1967	
3/21/2017	12	AUST_N	*Westringia*	*fruticosa*	'Wynyabbie Gem'	Honey bee	*Apis*	*melifera*	1973	
3/21/2017	12	AUST_N	*Grevillea*	sp.		Bumble bee	*Bombus*	sp.	1972	

3/21/2017	12	ERIC_S	*Arbutus*	*andrachne*		Honey bee	*Apis*	*melifera*	1974	
3/21/2017	12	ERIC_S	*Arbutus*	*andrachne*		Bumble bee	*Bombus*	sp.	1975	
3/21/2017	12	ERIC_S	*Arbutus*	*andrachne*		Native bee	*Osmia*	sp.	1979	
3/21/2017	12	AUST_S	*Cercis*	*siliquastrum*		Honey bee	*Apis*	*melifera*	1981	
3/21/2017	12	REDW	*Berberis*	*aquifolium*		Native bee	*Lasioglossum*	sp.	1983	COLLECTED
3/21/2017	12	REDW	*Achillea*	*millefolium*		Native bee	*Lasioglossum*	sp.	1986	COLLECTED
3/21/2017	12	MWB	*Heuchera*	*maxima*		Honey bee	*Apis*	*melifera*	1988	
3/21/2017	12	MWB	*Ribes*	*sanguineum*	'Claremont'	Bumble bee	*Bombus*	sp.	1900	
3/21/2017	12	MWB	*Ceanothus*	*griseus*	'Kurt Zadnick'	Native bee	*Osmia*	sp.	2002	
3/21/2017	12	MWB	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	2008	
3/21/2017	12	MWB	*Salvia*		'Bee's Bliss'	Honey bee	*Apis*	*melifera*	2009	
3/21/2017	12	MWB	*Phacelia*	*bolanderi*		Honey bee	*Apis*	*melifera*	2011	
3/21/2017	12	MWB	*Salvia*	*cleevelandii*	'Winnifred Gilman'	Bumble bee	*Bombus*	sp.	2015	COLLECTED
3/21/2017	12	MWB	*Ceanothus*		'Kurt Zadnick'	Native bee	*Nomada*	sp.	2018	COLLECTED
3/21/2017	12	MWB	*Ceanothus*		'Kurt Zadnick'	Native bee	*Halictus*	sp.	2017	
3/21/2017	12	MWB	*Berberis*	*aquifolium*	'Sky Lark'	Honey bee	*Apis*	*melifera*	2019	
3/21/2017	12	MWB	*Eriophyllum*	*lanatum*		Honey bee	*Apis*	*melifera*	2020	
3/21/2017	12	MWB	*Verbena*	*lilaciana*	'De la Mina'	Honey bee	*Apis*	*melifera*	2021	
3/21/2017	12	MWB	*Salvia*	*cleevelandii*	'Winnifred Gilman'	Native bee	*Eucera*	sp.	2023	COLLECTED
3/29/2017	13	ERIC_N	*Erica*	*arborea*		Honey bee	*Apis*	*melifera*	2025	
3/29/2017	13	AUST_N	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	2029	
3/29/2017	13	AUST_N	*Zieria*	sp.		Native bee	*Nomada*	sp.	2027	COLLECTED
3/29/2017	13	AUST_N	*Eremophila*	*weldii*		Bumble bee	*Bombus*	sp.	2036	
3/29/2017	13	AUST_N	*Westringia*	*fruticosa*	'Wynyabbie Gem'	Honey bee	*Apis*	*melifera*	2037	
3/29/2017	13	ERIC_S	*Arbutus*	*andrachne*		Native bee	*Nomada*	sp.	2038	COLLECTED
3/29/2017	13	ERIC_S	*Arbutus*	*andrachne*		Native bee	*Andrena*	sp.	2044	COLLECTED
3/29/2017	13	ERIC_S	*Arbutus*	*menziesii*		Bumble bee	*Bombus*	sp.	2048	
3/29/2017	13	ERIC_S	*Arbutus*	*menziesii*		Honey bee	*Apis*	*melifera*	2046	
3/29/2017	13	ERIC_S	*Arbutus*	*menziesii*		Native bee	*Osmia*	sp.	2047	
3/29/2017	13	AUST_S	*Senna*	*nemophila*		Native bee	*Xylocopa*	*varipuncta*	2053	
3/29/2017	13	AUST_S	*Cistus*	X *pulverulentus*		Native bee	*Xylocopa*	*varipuncta*	2054	
3/29/2017	13	AUST_S	*Cercis*	*siliquastrum*		Honey bee	*Apis*	*melifera*	2055	
3/29/2017	13	AUST_S	*Cercis*	*siliquastrum*		Bumble bee	*Bombus*	sp.	2056	COLLECTED
3/29/2017	13	AUST_S	*Cercis*	*siliquastrum*		Native bee	*Xylocopa*	*tabaniformis*	2058	
3/29/2017	13	AUST_S	*Westringia*	*fruticosa*	'Wynyabbie Gem'	Bumble bee	*Bombus*	sp.	2060	
3/29/2017	13	AUST_S	*Grevillea*	sp.		Native bee	*Xylocopa*	*tabaniformis*	2062	
3/29/2017	13	REDW	*Galvezia*	*speciosa*		Native bee	*Xylocopa*	*tabaniformis*	2063	
3/29/2017	13	REDW	*Achillea*	*millefolium*		Native bee	*Halictus*	*ligatus*	2064	COLLECTED
3/29/2017	13	REDW	*Berberis*	*aquifolium*		Native bee	*Osmia*	sp.	2066	
3/29/2017	13	MWB	*Ceanothus*	sp.		Honey bee	*Apis*	*melifera*	2069	
3/29/2017	13	MWB	*Heuchera*	*maxima*		Honey bee	*Apis*	*melifera*	2070	
3/29/2017	13	MWB	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	2071	
3/29/2017	13	MWB	*Cercis*	*occidentalis*		Native bee	*Xylocopa*	*tabaniformis*	2073	
3/29/2017	13	MWB	*Ceanothus*	sp.		Bumble bee	*Bombus*	sp.	2075	
3/29/2017	13	MWB	*Salvia*		'Bee's Bliss'	Bumble bee	*Bombus*	sp.	2076	
3/29/2017	13	MWB	*Salvia*		'Bee's Bliss'	Native bee	*Xylocopa*	*varipuncta*	2079	
3/29/2017	13	MWB	*Fremontodendron*		'San Gabriel'	Native bee	*Xylocopa*	*varipuncta*	2082	
3/29/2017	13	MWB	*Fremontodendron*		'San Gabriel'	Honey bee	*Apis*	*melifera*	2083	
3/29/2017	13	MWB	*Salvia*	*leucophylla*		Native bee	*Osmia*	sp.	2086	
3/29/2017	13	MWB	*Lupinus*	*albifrons*		Native bee	*Xylocopa*	*varipuncta*	2092	
3/29/2017	13	FOOT	*Ceanothus*	*thrysiflorus*		Honey bee	*Apis*	*melifera*	2094	
3/29/2017	13	FOOT	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	2095	
3/29/2017	13	FOOT	*Cercis*	*occidentalis*		Native bee	*Xylocopa*	*tabaniformis*	2096	
3/29/2017	13	FOOT	*Cercis*	*occidentalis*		Native bee	*Osmia*	sp.	2098	
3/29/2017	13	ENTR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	2099	
3/29/2017	13	ENTR	*Euryops*	*pectinatus*	'Munchkin'	Native bee	*Halictus*	sp.	2101	
3/29/2017	13	ENTR	*Euryops*	*pectinatus*	'Munchkin'	Honey bee	*Apis*	*melifera*	2102	
3/29/2017	13	ENTR	*Ceanothus*		'Ray Hartman'	Honey bee	*Apis*	*melifera*	2103	
3/29/2017	13	ENTR	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	2105	
3/29/2017	13	ENTR	*Cercis*	*occidentalis*		Native bee	*Xylocopa*	*varipuncta*	2106	
3/29/2017	13	ENTR	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	2107	
3/29/2017	13	BOAT	*Lavandula*	*dentata*		Honey bee	*Apis*	*melifera*	2109	
3/29/2017	13	BOAT	*Lavandula*	*dentata*		Native bee	*Eucera*	sp.	2109a	
3/29/2017	13	BOAT	*Bulbine*	*frutescens*		Native bee	*Xylocopa*	*varipuncta*	2113	
3/29/2017	13	COMM	*Rosmarinus*	*officinalis*	'Renzels'	Native bee	*Ceratina*	sp.	2110	
3/29/2017	13	COMM	*Rosmarinus*	*officinalis*	'Renzels'	Honey bee	*Apis*	*melifera*	2111	
3/29/2017	13	COMM	*Cercis*	*occidentalis*		Native bee	*Xylocopa*	*varipuncta*	2114	
3/29/2017	13	COTT	*Cercis*	*occidentalis*		Native bee	*Xylocopa*	*varipuncta*	2115	
3/29/2017	13	YOLO	*Oenothera*	sp.		Native bee	*Melissodes*	sp.	2116	
3/29/2017	13	GAZE	*Scilla*	*peruviana*	'Alba'	Honey bee	*Apis*	*melifera*	2117	
3/29/2017	13	GAZE	*Chaenomeles*	*speciosa*	'Candida'	Bumble bee	*Bombus*	*vosnesenskii*	2118	
3/29/2017	13	GAZE	*Prunus*	*persica*		Native bee	*Xylocopa*	*varipuncta*	2119	
3/29/2017	13	GAZE	*Cercis*	*chinensis*	'Alba'	Honey bee	*Apis*	*melifera*	2120	
3/29/2017	13	GAZE	*Cercis*	*chinensis*	'Alba'	Native bee	*Xylocopa*	*varipuncta*	2121	
3/29/2017	13	GAZE	*Syringia*	*vulgaris*	'Angel White'	Native bee	*Xylocopa*	*tabaniformis*	2123	
3/29/2017	13	STOR	*Ceanothus*		'Ray Hartman'	Honey bee	*Apis*	*melifera*	2124	
3/29/2017	13	STOR	*Lavandula*	*angustifolia*	'Hidcote'	Bumble bee	*Bombus*	sp.	2125	
3/29/2017	13	STOR	*Lavandula*	*angustifolia*	'Hidcote'	Honey bee	*Apis*	*melifera*	2126	
3/29/2017	13	STOR	*Salvia*	x *jamensis*		Native bee	*Xylocopa*	*tabaniformis*	2127	
3/29/2017	13	STOR	*Cercis*	*occidentalis*		Bumble bee	*Bombus*	*vosnesenskii*	2129	

3/29/2017 13	STOR	*Ceanothus*	*griseus*	'Bambico'	Native bee	*Halictus*	sp.	2133	
3/29/2017 13	STOR	*Cercis*	*occidentalis*		Native bee	*Xylocopa*	*varipuncta*	2135	
3/29/2017 13	STOR	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	2137	
3/29/2017 13	STOR	*Rosmarinus*	*officinalis*		Native bee	*Halictus*	sp.	2138	
3/29/2017 13	STOR	*Scabiosa*	*ochroleuca*		Native bee	*Xylocopa*	*varipuncta*	2139	
3/29/2017 13	STOR	*Scabiosa*	*ochroleuca*		Honey bee	*Apis*	*melifera*	2140	
3/29/2017 13	STOR	*Scophora*	*secundiflora*	'Silver Peso'	Native bee	*Xylocopa*	*varipuncta*	2141	
3/29/2017 13	STOR	*Scophora*	*secundiflora*	'Silver Peso'	Native bee	*Melissodes*	sp.	2143	
3/29/2017 13	EASI	*Geranium*	*cantabrigiense*	'Biokovo'	Honey bee	*Apis*	*melifera*	2144	
3/29/2017 13	EASI	*Heuchera*	*maxima*		Honey bee	*Apis*	*melifera*	2145	
3/29/2017 13	EASI	*Heuchera*	*maxima*		Bumble bee	*Bombus*	sp.	2146	
3/29/2017 13	EASI	*Ceanothus*		'Ray Hartman'	Native bee	*Xylocopa*	*varipuncta*	2147	
3/29/2017 13	EASI	*Geum*		'Totally Tangerine'	Bumble bee	*Bombus*	*vosnesenskii*	2148	
3/29/2017 13	EASI	*Ceanothus*		'Ray Hartman'	Honey bee	*Apis*	*melifera*	2150	
3/29/2017 13	EASI	*Teucrium*	*fruticans*	'Azureum'	Honey bee	*Apis*	*melifera*	2151	
3/29/2017 13	EASI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	2152	
3/29/2017 13	SOAF	*Salvia*	*disermas*		Bumble bee	*Bombus*	sp.	2156	
3/29/2017 13	MEDI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	2157	
3/29/2017 13	MEDI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	2158	
3/29/2017 13	MEDI	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	2159	
3/29/2017 13	MEDI	*Cneorum*	*tricoccon*		Honey bee	*Apis*	*melifera*	2160	
3/29/2017 13	MEDI	*Cistus*	*incanus*		Honey bee	*Apis*	*melifera*	2161	
3/29/2017 13	MEDI	*Cistus*	*incanus*		Native bee	*Halictus*	*ligatus*	2162	COLLECTED
3/29/2017 13	MEDI	*Lavatera*	*maritima*		Honey bee	*Apis*	*melifera*	2164	
3/29/2017 13	ARGE	*Lantana*	*montevidensis*	lavender flowered form	Native bee	*Xylocopa*	*varipuncta*	2166	
3/29/2017 13	SWUS	*Ungnadia*	*speciosa*		Native bee	*Xylocopa*	*varipuncta*	2170a	
3/29/2017 13	SWUS	*Isomeris*	*arborea*		Native bee	*Xylocopa*	*varipuncta*	2175	
3/29/2017 13	SWUS	*Isomeris*	*arborea*		Honey bee	*Apis*	*melifera*	2176	
3/29/2017 13	SWUS	*Cercis*	*occidentalis*		Native bee	*Xylocopa*	*varipuncta*	2172	
3/29/2017 13	SWUS	*Isomeris*	*arborea*		Bumble bee	*Bombus*	sp.	2179	
3/29/2017 13	SWUS	*Salvia*	*leucophylla*		Honey bee	*Apis*	*melifera*	2180	
3/29/2017 13	SWUS	*Salvia*	*leucophylla*		Native bee	*Xylocopa*	*varipuncta*	2181	
3/29/2017 13	CONI	*Ceanothus*		'Ray Hartman'	Honey bee	*Apis*	*melifera*	2182	
3/29/2017 13	AHQ	*Teucrium*	*fruticans*	'Azureum'	Honey bee	*Apis*	*melifera*	2183	
3/29/2017 13	AHQ	*Nandina*	*domestica*		Native bee	*Xylocopa*	*varipuncta*	2184	
3/29/2017 13	AHQ	*Lupinus*	*albifrons*		Bumble bee	*Bombus*	sp.	2188	
3/29/2017 13	AHQ	*Lupinus*	*albifrons*		Native bee	*Xylocopa*	*varipuncta*	2189	
3/29/2017 13	AHQ	*Ceanothus*		'Ray Hartman'	Honey bee	*Apis*	*melifera*	2190	
3/29/2017 13	AHQ	*Cercis*	*occidentalis*		Native bee	*Xylocopa*	*varipuncta*	2192	
3/29/2017 13	AHQ	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	2194	
3/29/2017 13	AHQ	*Isomeris*	*arborea*		Honey bee	*Apis*	*melifera*	2195	
3/29/2017 13	KING	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	2197	
3/29/2017 13	KING	*Salvia*		'Point Mugu'	Honey bee	*Apis*	*melifera*	2199	
3/29/2017 13	KING	*Salvia*		'Point Mugu'	Bumble bee	*Bombus*	sp.	2200	
3/29/2017 13	KING	*Cercis*	*occidentalis*		Native bee	*Xylocopa*	*varipuncta*	2201	
3/29/2017 13	MRAK	*Malus*		'Hopa'	Honey bee	*Apis*	*melifera*	2203	
4/5/2017 14	FOOT	*Heuchera*	*maxima*		Bumble bee	*Bombus*	sp.	2207	
4/5/2017 14	FOOT	*Heuchera*	*maxima*		Honey bee	*Apis*	*melifera*	2209	
4/5/2017 14	FOOT	*Ceanothus*	sp.		Honey bee	*Apis*	*melifera*	2210	
4/5/2017 14	FOOT	*Ceanothus*	sp.		Bumble bee	*Bombus*	sp.	2211	
4/5/2017 14	FOOT	*Rhamnus*	*crocea*		Honey bee	*Apis*	*melifera*	2212	
4/5/2017 14	ENTR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	2213	
4/5/2017 14	ENTR	*Euryops*	*pectinatus*		Honey bee	*Apis*	*melifera*	2214	
4/5/2017 14	ENTR	*Bulbine*	*frutescens*		Bumble bee	*Bombus*	sp.	2215	
4/5/2017 14	ENTR	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	2216	
4/5/2017 14	ENTR	*Ceanothus*		'Ray Hartman'	Bumble bee	*Bombus*	sp.	2217	
4/5/2017 14	ENTR	*Ceanothus*		'Ray Hartman'	Native bee	*Andrena*	sp.	2221	
4/5/2017 14	ENTR	*Ceanothus*		'Ray Hartman'	Honey bee	*Apis*	*melifera*	2224	
4/5/2017 14	LODG	*Pittosporum*	*tobira*		Honey bee	*Apis*	*melifera*	2227	
4/5/2017 14	BOAT	*Iris*	*x germanica*	white form	Native bee	*Eucera*	sp.	2229	
4/5/2017 14	BOAT	*Bulbine*	*frutescens*		Native bee	*Eucera*	sp.	2229a	
4/5/2017 14	BOAT	*Bulbine*	*frutescens*		Honey bee	*Apis*	*melifera*	2230	
4/5/2017 14	BOAT	*Iris*	*x germanica*		Native bee	*Xylocopa*	*varipuncta*	2231	
4/5/2017 14	BOAT	*Bulbine*	*frutescens*		Native bee	*Xylocopa*	*varipuncta*	2232	
4/5/2017 14	BOAT	*Lavandula*	*dentata*		Honey bee	*Apis*	*melifera*	2233	
4/5/2017 14	COTT	*Fremontodendron*		'California Glory'	Honey bee	*Apis*	*melifera*	2234	
4/5/2017 14	YOLO	*Lupinus*	*acutiflorus*	'Ed Gedling'	Bumble bee	*Bombus*	*vosnesenskii*	2235	
4/5/2017 14	GAZE	*Elaeagnus*	*umbellata*		Honey bee	*Apis*	*melifera*	2236	
4/5/2017 14	GAZE	*Scilla*	*peruviana*	'Alba'	Honey bee	*Apis*	*melifera*	2237	
4/5/2017 14	GAZE	*Pittosporum*	*tobira*		Honey bee	*Apis*	*melifera*	2238	
4/5/2017 14	GAZE	*Rhaphiolepis*	*indica*	'Snow White'	Honey bee	*Apis*	*melifera*	2239	
4/5/2017 14	GAZE	*Poncirus*	*umbellata*		Honey bee	*Apis*	*melifera*	2240	
4/5/2017 14	GAZE	*Osteomeles*	*schwerinae*		Honey bee	*Apis*	*melifera*	2241	
4/5/2017 14	GAZE	*Osteomeles*	*schwerinae*		Bumble bee	*Bombus*	sp.	2242	
4/5/2017 14	GAZE	*Chionanthus*	*retusus*		Native bee	*Xylocopa*	*varipuncta*	2243	
4/5/2017 14	GAZE	*Chaenomeles*	*speciosa*	'Candida'	Honey bee	*Apis*	*melifera*	2246	
4/5/2017 14	GAZE	*Chaenomeles*	*speciosa*	'Candida'	Bumble bee	*Bombus*	sp.	2244	
4/5/2017 14	GAZE	*Heuchera*	*maxima*		Honey bee	*Apis*	*melifera*	2247	
4/5/2017 14	GAZE	*Rosa*	*banksiae*		Honey bee	*Apis*	*melifera*	2248	
4/5/2017 14	GAZE	*Abutilon*	*x hybridum*	white flowered form	Honey bee	*Apis*	*melifera*	2249	

4/5/2017	14	STOR	*Heuchera*	*rosada*		Honey bee	*Apis*	*melifera*	2250	
4/5/2017	14	STOR	*Erysimum*	sp.		Honey bee	*Apis*	*melifera*	2251	
4/5/2017	14	STOR	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	2252	
4/5/2017	14	STOR	*Lavandula*	*angustifolia*	'Hidcote'	Bumble bee	*Bombus*	sp.	2253	
4/5/2017	14	STOR	*Lavandula*	*angustifolia*	'Hidcote'	Honey bee	*Apis*	*melifera*	2254	
4/5/2017	14	STOR	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	2257	
4/5/2017	14	STOR	*Bulbine*	*frutescens*	'Tiny Tangerine'	Honey bee	*Apis*	*melifera*	2258	
4/5/2017	14	STOR	*Ceanothus*		'Ray Hartman'	Honey bee	*Apis*	*melifera*	2260	
4/5/2017	14	STOR	*Scabiosa*	*ochroleuca*		Honey bee	*Apis*	*melifera*	2261	
4/5/2017	14	STOR	*Ceanothus*	*griseus*	'Bambico'	Native bee	*Andrena*	sp.	2262	
4/5/2017	14	STOR	*Ceanothus*	*griseus*	'Bambico'	Bumble bee	*Bombus*	sp.	2263	
4/5/2017	14	STOR	*Rosa*	*rouletii*		Honey bee	*Apis*	*melifera*	2264	
4/5/2017	14	STOR	*Allium*	*christophii*		Honey bee	*Apis*	*melifera*	2266	
4/5/2017	14	STOR	*Salvia*		'Hot Lips'	Native bee	*Xylocopa*	*varipuncta*	2268	
4/5/2017	14	STOR	*Scophora*	*secundiflora*	'Silver Peso'	Native bee	*Eucera*	sp.	2269	
4/5/2017	14	STOR	*Bulbine*	*frutescens*	'Tiny Tangerine'	Bumble bee	*Bombus*	sp.	2272	
4/5/2017	14	STOR	*Salvia*	*disermas*		Bumble bee	*Bombus*	sp.	2273	
4/5/2017	14	STOR	*Scilla*	*peruviana*		Honey bee	*Apis*	*melifera*	2274	
4/5/2017	14	EASI	*Geranium*	*cantabrigiense*	'Biokovo'	Honey bee	*Apis*	*melifera*	2275	
4/5/2017	14	EASI	*Geranium*	*cantabrigiense*	'Biokovo'	Bumble bee	*Bombus*	*vosnesenskii*	2276	
4/5/2017	14	EASI	*Heuchera*	*rosada*		Honey bee	*Apis*	*melifera*	2278	
4/5/2017	14	EASI	*Salvia*		'Hot Lips'	Honey bee	*Apis*	*melifera*	2280	
4/5/2017	14	EASI	*Geum*		'Totally Tangerine'	Honey bee	*Apis*	*melifera*	2281	
4/5/2017	14	EASI	*Teucrium*	*fruticans*	'Azureum'	Honey bee	*Apis*	*melifera*	2282	
4/5/2017	14	EASI	*Bulbine*	*frutescens*	'Tiny Tangerine'	Native bee	*Xylocopa*	*varipuncta*	2283	
4/5/2017	14	EASI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	2284	
4/5/2017	14	EASI	*Ceanothus*		'Ray Hartman'	Honey bee	*Apis*	*melifera*	2288	
4/5/2017	14	EASI	*Erigeron*	*karvinskianus*		Honey bee	*Apis*	*melifera*	2289	
4/5/2017	14	EASI	*Geum*		'Totally Tangerine'	Native bee	*Halictus*	sp.	2290	
4/5/2017	14	EASI	*Chaenomeles*	*speciosa*		Honey bee	*Apis*	*melifera*	2291	
4/5/2017	14	SOAF	*Euryops*	*pectinatus*		Honey bee	*Apis*	*melifera*	2292	
4/5/2017	14	MEDI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	2294	
4/5/2017	14	MEDI	*Lavandula*	*dentata*		Honey bee	*Apis*	*melifera*	2295	
4/5/2017	14	MEDI	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	2296	
4/5/2017	14	MEDI	*Cistus*	*incanus*		Honey bee	*Apis*	*melifera*	2297	
4/5/2017	14	MEDI	*Cistus*	*incanus*		Native bee	*Halictus*	sp.	2298	
4/5/2017	14	MEDI	*Cneorum*	*tricoccon*		Honey bee	*Apis*	*melifera*	2302	
4/5/2017	14	MEDI	*Cistus*	*monspeliensis*		Native bee	*Lasioglossum*	*tagulariforme*	2303	COLLECTED
4/5/2017	14	MEDI	*Lavatera*	*maritima*		Honey bee	*Apis*	*melifera*	2311	
4/5/2017	14	MEDI	*Teucrium*	*fruticans*		Bumble bee	*Bombus*	sp.	2312	
4/5/2017	14	MEDI	*Lavandula*	*stoechas*	'Otto Quast'	Bumble bee	*Bombus*	*vosnesenskii*	2313	
4/5/2017	14	SWUS	*Sedum*	*dendroideum*		Honey bee	*Apis*	*melifera*	2314	
4/5/2017	14	SWUS	*Salvia*	*microphylla*		Native bee	*Xylocopa*	*varipuncta*	2315	
4/5/2017	14	SWUS	*Salvia*	*leucophylla*		Honey bee	*Apis*	*melifera*	2316	
4/5/2017	14	SWUS	*Salvia*	*leucophylla*		Native bee	*Habropoda*	*depressa*	2324	COLLECTED
4/5/2017	14	SWUS	*Salvia*	*leucophylla*		Native bee	*Osmia*	sp.	2317	
4/5/2017	14	SWUS	*Salvia*	*leucophylla*		Bumble bee	*Bombus*	sp.	2318	
4/5/2017	14	SWUS	*Salvia*	*leucophylla*		Native bee	*Halictus*	sp.	2329	
4/5/2017	14	CONI	*Ceanothus*		'Ray Hartman'	Native bee	*Andrena*	sp.	2330	
4/5/2017	14	CONI	*Ceanothus*		'Ray Hartman'	Honey bee	*Apis*	*melifera*	2331	
4/5/2017	14	AHQ	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	2333	
4/5/2017	14	AHQ	*Ceanothus*	sp.		Honey bee	*Apis*	*melifera*	2334	
4/5/2017	14	AHQ	*Ceanothus*	sp.		Native bee	*Andrena*	sp.	2335	
4/5/2017	14	AHQ	*Ceanothus*	sp.		Native bee	*Lasioglossum*	sp.	2337	COLLECTED
4/5/2017	14	AHQ	*Ceanothus*	sp.		Bumble bee	*Bombus*	sp.	2338	
4/5/2017	14	REDB	*Isomeris*	*arborea*		Honey bee	*Apis*	*melifera*	2339	
4/5/2017	14	KING	*Salvia*	*leucophylla*	'Bee's Bliss'	Bumble bee	*Bombus*	sp.	2342	
4/5/2017	14	KING	*Salvia*	*leucophylla*	'Bee's Bliss'	Honey bee	*Apis*	*melifera*	2343	
4/5/2017	14	KING	*Heuchera*	*rosada*		Bumble bee	*Bombus*	sp.	2344	
4/5/2017	14	KING	*Heuchera*	*rosada*		Honey bee	*Apis*	*melifera*	2345	
4/5/2017	14	MRAK	*Rosa*	*x odorata*	'Mutabilis'	Honey bee	*Apis*	*melifera*	2346	
4/5/2017	14	MRAK	*Rosa*	*x odorata*	'Mutabilis'	Native bee	*Osmia*	sp.	2350	
4/5/2017	14	A_ST	*Lavandula*	*stoechas*	'Otto Quast'	Honey bee	*Apis*	*melifera*	2353	
4/5/2017	14	AUST_N	*Melaleuca*	*styphelioides*		Honey bee	*Apis*	*melifera*	2355	
4/5/2017	14	AUST_N	*Hardenbergia*	*violacea*	'Happy Wanderer'	Honey bee	*Apis*	*melifera*	2357	
4/5/2017	14	AUST_N	*Westringia*	*rigida*	'Morning Light'	Bumble bee	*Bombus*	sp.	2358	
4/5/2017	14	AUST_N	*Zieria*	sp.		Honey bee	*Apis*	*melifera*	2361	
4/5/2017	14	AUST_N	*Grevillea*	*lanigera*		Honey bee	*Apis*	*melifera*	2362	
4/5/2017	14	AUST_N	*Grevillea*	*lanigera*		Bumble bee	*Bombus*	sp.	2363	
4/5/2017	14	AUST_N	*Westringia*	*fruticosa*	'Wynyabbie Gem'	Native bee	*Halictus*	sp.	2368	
4/5/2017	14	ERIC_S	*Arbutus*	*menziesii*		Bumble bee	*Bombus*	sp.	2373	
4/5/2017	14	ERIC_S	*Arbutus*	*menziesii*		Native bee	*Osmia*	*lignaria*	2376	
4/5/2017	14	AUST_S	*Westringia*	*rigida*	'Morning Light'	Honey bee	*Apis*	*melifera*	2380	
4/5/2017	14	AUST_S	*Senna*	*nemophila*		Native bee	*Xylocopa*	*varipuncta*	2382	
4/5/2017	14	AUST_S	*Cercis*	*siliquastrum*		Honey bee	*Apis*	*melifera*	2383	
4/5/2017	14	AUST_S	*Cercis*	*siliquastrum*		Native bee	*Xylocopa*	*tabaniformis*	2384	
4/5/2017	14	AUST_S	*Grevillea*	*lanigera*		Honey bee	*Apis*	*melifera*	2385	
4/5/2017	14	AUST_S	*Grevillea*	*lanigera*		Native bee	*Xylocopa*	*tabaniformis*	2387	
4/5/2017	14	AUST_S	*Hakea*	*leucopthera*		Honey bee	*Apis*	*melifera*	2388	
4/5/2017	14	AUST_S	*Correa*	sp.		Honey bee	*Apis*	*melifera*	2390	

4/5/2017	14	AUST_S	*Cistus*	sp.		Honey bee	*Apis*	*melifera*	2391	
4/5/2017	14	GATE	*Achillea*	*millefolium*		Native bee	*Halictus*	sp.	2393	
4/5/2017	14	REDW	*Heracleum*	*lanatum*		Honey bee	*Apis*	*melifera*	2394	
4/5/2017	14	REDW	*Iris*	sp.	Pacific Coast hybrids	Bumble bee	*Bombus*	sp.	2395	
4/5/2017	14	MWB	*Heuchera*	*maxima*		Honey bee	*Apis*	*melifera*	2396	
4/5/2017	14	MWB	*Heuchera*	*rosada*		Bumble bee	*Bombus*	sp.	2398	
4/5/2017	14	MWB	*Salvia*	*leucophylla*		Bumble bee	*Bombus*	sp.	2399	
4/5/2017	14	MWB	*Salvia*	*leucophylla*		Honey bee	*Apis*	*melifera*	2400	
4/5/2017	14	MWB	*Eschscholzia*	*californica*		Native bee	*Andrena*	sp.	2402	
4/5/2017	14	MWB	*Phacelia*	*bolanderi*		Honey bee	*Apis*	*melifera*	2403	
4/5/2017	14	MWB	*Ceanothus*	*griseus*	'Santa Ana'	Bumble bee	*Bombus*	sp.	2407	
4/5/2017	14	MWB	*Ceanothus*	*griseus*	'Santa Ana'	Honey bee	*Apis*	*melifera*	2408	
4/5/2017	14	MWB	*Salvia*	*cleavelandii*	'Winnifred Gilman'	Native bee	*Xylocopa*	*varipuncta*	2411	
4/5/2017	14	MWB	*Iris*	*Pacific Coast hybrids*	'Canyon Snow'	Native bee	*Xylocopa*	*varipuncta*	2412	
4/5/2017	14	MWB	*Eriophyllum*	*lanatum*		Native bee	*Halictus*	sp.	2413	
4/5/2017	14	MWB	*Eriophyllum*	*lanatum*		Honey bee	*Apis*	*melifera*	2416	
4/5/2017	14	MWB	*Fremontodendron*		'San Gabriel'	Honey bee	*Apis*	*melifera*	2417	
4/5/2017	14	MWB	*Ceanothus*		'Joyce Coulter'	Native bee	*Xylocopa*	*varipuncta*	2418	
4/5/2017	14	MWB	*Ceanothus*		'Joyce Coulter'	Native bee	*Andrena*	sp.	2424	COLLECTED
4/5/2017	14	MWB	*Rhus*	*ovata*		Honey bee	*Apis*	*melifera*	2425	
4/5/2017	14	MWB	*Salvia*	*mellifera*	'Point Mugu'	Native bee	*Osmia*	sp.	2434	COLLECTED
4/5/2017	14	MWB	*Lupinus*	*albifrons*		Bumble bee	*Bombus*	sp.	2435	
4/5/2017	14	MWB	*Lupinus*	*albifrons*		Native bee	*Xylocopa*	*varipuncta*	2437	
4/9/2017	15	ERIC_S	*Arbutus*	*menziesii*		Bumble bee	*Bombus*	sp.	2444	
4/9/2017	15	ERIC_N	*Arbutus*	*andrachne*		Bumble bee	*Bombus*	sp.	2445	
4/9/2017	15	AUST_N	*Melaleuca*	*styphelioides*		Bumble bee	*Bombus*	sp.	2446	
4/9/2017	15	AUST_S	*Correa*	*pulchella*	'Ray's Tangerine'	Bumble bee	*Bombus*	sp.	2447	
4/9/2017	15	AUST_S	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	2448	
4/9/2017	15	AUST_S	*Grevillea*	sp.		Bumble bee	*Bombus*	sp.	2450	
4/9/2017	15	AUST_S	*Cercis*	*siliquastrum*		Honey bee	*Apis*	*melifera*	2451	
4/9/2017	15	AUST_S	*Senna*	*nemophila*		Bumble bee	*Bombus*	sp.	2452	
4/9/2017	15	AUST_S	*Cistus*	X *pulverulentus*		Honey bee	*Apis*	*melifera*	2456	
4/9/2017	15	AUST_S	*Cistus*	X *pulverulentus*		Bumble bee	*Bombus*	sp.	2457	
4/9/2017	15	A_ST	*Ceanothus*	*maritimus*	'Valley Violet'	Bumble bee	*Bombus*	sp.	2458	
4/9/2017	15	REDW	*Eschscholzia*	*californica*		Bumble bee	*Bombus*	*vosnesenskii*	2459	
4/9/2017	15	REDW	*Iris*	*Pacific Coast hybrids*		Bumble bee	*Bombus*	sp.	2469	
4/9/2017	15	MWB	*Heuchera*	*maxima*		Bumble bee	*Bombus*	sp.	2480	
4/9/2017	15	MWB	*Ceanothus*	sp.		Bumble bee	*Bombus*	sp.	2482	
4/9/2017	15	MWB	*Ceanothus*	sp.		Honey bee	*Apis*	*melifera*	2484	
4/9/2017	15	MWB	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	2485	
4/9/2017	15	MWB	*Heuchera*	*maxima*		Honey bee	*Apis*	*melifera*	2488	
4/9/2017	15	MWB	*Salvia*		'Bee's Bliss'	Bumble bee	*Bombus*	sp.	2490	
4/9/2017	15	MWB	*Ceanothus*		'San Gabriel'	Native bee	*Andrena*	sp.	2496	COLLECTED
4/9/2017	15	MWB	*Eriophyllum*	*lanatum*		Honey bee	*Apis*	*melifera*	2500	
4/9/2017	15	MWB	*Verbena*		'De la Mina'	Honey bee	*Apis*	*melifera*	2502	
4/9/2017	15	MWB	*Verbena*		'De la Mina'	Native bee	*Eucera*	sp.	2503	
4/9/2017	15	MWB	*Rhus*	*ovata*		Honey bee	*Apis*	*melifera*	2506	
4/9/2017	15	MWB	*Rhus*	*ovata*		Bumble bee	*Bombus*	sp.	2507	
4/9/2017	15	MWB	*Lupinus*	*albifrons*		Bumble bee	*Bombus*	sp.	2509	
4/9/2017	15	FOOT	*Heuchera*	*maxima*		Bumble bee	*Bombus*	sp.	2510	
4/9/2017	15	FOOT	*Ceanothus*	*thrysiflorus*		Honey bee	*Apis*	*melifera*	2514	
4/9/2017	15	FOOT	*Ceanothus*	*thrysiflorus*		Bumble bee	*Bombus*	sp.	2519	
4/9/2017	15	FOOT	*Rhamnus*	*crocea*		Honey bee	*Apis*	*melifera*	2520	
4/9/2017	15	ENTR	*Bulbine*	*frutescens*		Bumble bee	*Bombus*	sp.	2522	
4/9/2017	15	ENTR	*Bulbine*	*frutescens*		Honey bee	*Apis*	*melifera*	2523	
4/9/2017	15	ENTR	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	2524	
4/9/2017	15	ENTR	*Teucrium*	*fruticans*		Bumble bee	*Bombus*	sp.	2525	
4/9/2017	15	ENTR	*Ceanothus*		'Ray Hartman'	Bumble bee	*Bombus*	sp.	2526	
4/9/2017	15	LODG	*Pittosporum*	*tobira*		Honey bee	*Apis*	*melifera*	2528	
4/9/2017	15	BOAT	*Bulbine*	*frutescens*		Honey bee	*Apis*	*melifera*	2529	
4/9/2017	15	BOAT	*Lavandula*	*stoechas*	'Otto Quast'	Honey bee	*Apis*	*melifera*	2530	
4/9/2017	15	COMM	*Vicia*	sp.		Honey bee	*Apis*	*melifera*	2531	
4/9/2017	15	COTT	*Vicia*	sp.		Honey bee	*Apis*	*melifera*	2532	
4/9/2017	15	YOLO	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	2533	
4/9/2017	15	YOLO	*Lupinus*	*acutiflorus*	'Ed Gedling'	Bumble bee	*Bombus*	*vosnesenskii*	2534	
4/9/2017	15	YOLO	*Eschscholzia*	*californica*		Bumble bee	*Bombus*	*vosnesenskii*	2535	
4/9/2017	15	GAZE	*Elaeagnus*	*umbellata*		Honey bee	*Apis*	*melifera*	2538	
4/9/2017	15	GAZE	*Elaeagnus*	*umbellata*		Bumble bee	*Bombus*	sp.	2539	
4/9/2017	15	GAZE	*Rosa*		'Mount Everest'	Honey bee	*Apis*	*melifera*	2540	
4/9/2017	15	GAZE	*Pittosporum*	*tobira*		Honey bee	*Apis*	*melifera*	2541	
4/9/2017	15	GAZE	*Rhaphiolepis*	*indica*	f. *umbellata*	Honey bee	*Apis*	*melifera*	2542	
4/9/2017	15	GAZE	*Osteomeles*	*schwerinae*		Honey bee	*Apis*	*melifera*	2543	
4/9/2017	15	GAZE	*Cerastium*	*tomentosum*		Native bee	*Andrena*	sp.	2544	COLLECTED
4/9/2017	15	STOR	*Heuchera*	*rosada*		Honey bee	*Apis*	*melifera*	2546	
4/9/2017	15	STOR	*Heuchera*	*rosada*		Bumble bee	*Bombus*	sp.	2547	
4/9/2017	15	STOR	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	2548	
4/9/2017	15	STOR	*Lavandula*	*stoechas*	'Otto Quast'	Honey bee	*Apis*	*melifera*	2549	
4/9/2017	15	STOR	*Lavandula*	*stoechas*	'Otto Quast'	Bumble bee	*Bombus*	sp.	2550	
4/9/2017	15	STOR	*Lavandula*	*stoechas*	'Otto Quast'	Native bee	*Eucera*	sp.	2551a	
4/9/2017	15	STOR	*Allium*	*cristophii*		Native bee	*Xylocopa*	*varipuncta*	2552	

4/9/2017	15	STOR	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	2553	
4/9/2017	15	STOR	*Ceanothus*	*griseus*	'Bambico'	Bumble bee	*Bombus*	sp.	2554	
4/9/2017	15	STOR	*Rosa*	*x odorata*	'Mutabilis'	Honey bee	*Apis*	*melifera*	2555	
4/9/2017	15	STOR	*Ceanothus*	*griseus*	'Bambico'	Honey bee	*Apis*	*melifera*	2557	
4/9/2017	15	STOR	*Ceanothus*	*griseus*	'Bambico'	Native bee	*Halictus*	*ligatus*	2557	COLLECTED
4/9/2017	15	STOR	*Oxalis*	*rubra*		Honey bee	*Apis*	*melifera*	2560	
4/9/2017	15	STOR	*Scabiosa*	*ochroleuca*		Honey bee	*Apis*	*melifera*	2561	
4/9/2017	15	STOR	*Scilla*	*peruviana*		Honey bee	*Apis*	*melifera*	2563	
4/9/2017	15	STOR	*Erigeron*	*karvinskianus*		Honey bee	*Apis*	*melifera*	2564	
4/9/2017	15	STOR	*Phlomis*	*italica*		Honey bee	*Apis*	*melifera*	2565	
4/9/2017	15	STOR	*Tulbaghia*	sp.		Honey bee	*Apis*	*melifera*	2566	
4/9/2017	15	STOR	*Bulbine*	*frutescens*	'Tiny Tangerine'	Honey bee	*Apis*	*melifera*	2568	
4/9/2017	15	STOR	*Syringia*	*patula*		Honey bee	*Apis*	*melifera*	2570	
4/9/2017	15	EASI	*Heuchera*	*rosada*		Honey bee	*Apis*	*melifera*	2571	
4/9/2017	15	EASI	*Geranium*	*cantabrigiense*	'Biokovo'	Honey bee	*Apis*	*melifera*	2572	
4/9/2017	15	EASI	*Geranium*	*cantabrigiense*	'Biokovo'	Native bee	*Eucera*	sp.	2574	
4/9/2017	15	EASI	*Geranium*	*cantabrigiense*	'Biokovo'	Bumble bee	*Bombus*	sp.	2575	
4/9/2017	15	EASI	*Geum*		'Totally Tangerine'	Honey bee	*Apis*	*melifera*	2577	
4/9/2017	15	EASI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	2578	
4/9/2017	15	EASI	*Rosa*	*x odorata*	'Mutabilis'	Honey bee	*Apis*	*melifera*	2579	
4/9/2017	15	EASI	*Bulbine*	*frutescens*	'Tiny Tangerine'	Honey bee	*Apis*	*melifera*	2580	
4/9/2017	15	EASI	*Callistemon*		'Violaceus'	Bumble bee	*Bombus*	sp.	2582	
4/9/2017	15	EASI	*Callistemon*		'Violaceus'	Honey bee	*Apis*	*melifera*	2583	
4/9/2017	15	EASI	*Heuchera*	*rosada*		Bumble bee	*Bombus*	sp.	2584	
4/9/2017	15	EASI	*Salvia*		'Hot Lips'	Honey bee	*Apis*	*melifera*	2585	
4/9/2017	15	EASI	*Chaenomeles*	*speciosa*		Honey bee	*Apis*	*melifera*	2586	
4/9/2017	15	SOAF	*Euryops*	*pectinatus*		Honey bee	*Apis*	*melifera*	2587	
4/9/2017	15	SOAF	*Euryops*	*pectinatus*		Native bee	*Halictus*	sp.	2590	
4/9/2017	15	SOAF	*Osteospermum*	sp.		Honey bee	*Apis*	*melifera*	2591	
4/9/2017	15	SOAF	*Salvia*	*disermas*		Honey bee	*Apis*	*melifera*	2592	
4/9/2017	15	MEDI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	2593	
4/9/2017	15	MEDI	*Lavandula*	*dentata*		Honey bee	*Apis*	*melifera*	2594	
4/9/2017	15	MEDI	*Lavandula*	*dentata*		Bumble bee	*Bombus*	sp.	2598	
4/9/2017	15	MEDI	*Cistus*	*salviifolius*		Honey bee	*Apis*	*melifera*	2599	
4/9/2017	15	MEDI	*Cistus*	*monspeliensis*		Native bee	*Halictus*	sp.	2603	
4/9/2017	15	MEDI	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	2601	
4/9/2017	15	MEDI	*Cneorum*	*tricoccon*		Honey bee	*Apis*	*melifera*	2602	
4/9/2017	15	MEDI	*Teucrium*	*fruticans*		Bumble bee	*Bombus*	sp.	2606	
4/9/2017	15	MEDI	*Lavatera*	*maritima*		Honey bee	*Apis*	*melifera*	2608	
4/9/2017	15	SWUS	*Sedum*	*dendroideum*		Honey bee	*Apis*	*melifera*	2609	
4/9/2017	15	SWUS	*Salvia*	*microphylla*		Honey bee	*Apis*	*melifera*	2610	
4/9/2017	15	SWUS	*Ungnadia*	*speciosa*		Honey bee	*Apis*	*melifera*	2611	
4/9/2017	15	SWUS	*Isomeris*	*arborea*		Honey bee	*Apis*	*melifera*	2612	
4/9/2017	15	SWUS	*Salvia*	*leucantha*		Bumble bee	*Bombus*	*vosnesenskii*	2618	
4/9/2017	15	CONI	*Ceanothus*		'Ray Hartman'	Bumble bee	*Bombus*	sp.	2619	
4/9/2017	15	CONI	*Ceanothus*		'Ray Hartman'	Native bee	*Halictus*	sp.	2620	
4/9/2017	15	AHQ	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	2622	
4/9/2017	15	AHQ	*Ceanothus*	sp.		Bumble bee	*Bombus*	sp.	2623	
4/9/2017	15	DESE	*Isomeris*	*arborea*		Honey bee	*Apis*	*melifera*	2624	
4/9/2017	15	KING	*Salvia*		'Bee's Bliss'	Honey bee	*Apis*	*melifera*	2625	
4/9/2017	15	KING	*Salvia*		'Bee's Bliss'	Bumble bee	*Bombus*	sp.	2627	
4/9/2017	15	KING	*Salvia*		'Bee's Bliss'	Native bee	*Eucera*	sp.	2629	
4/9/2017	15	KING	*Heuchera*	*rosada*		Bumble bee	*Bombus*	sp.	2634	
4/9/2017	15	KING	*Heuchera*	*rosada*		Honey bee	*Apis*	*melifera*	2635	
4/9/2017	15	MRAK	*Rosa*	*x odorata*	'Mutabilis'	Native bee	*Osmia*	sp.	2639	
4/9/2017	15	MRAK	*Rosa*	*x odorata*	'Mutabilis'	Honey bee	*Apis*	*melifera*	2637	
4/20/2017	16	ERIC_S	*Arbutus*	*menziesii*		Bumble bee	*Bombus*	sp.	2645	
4/20/2017	16	ERIC_S	*Arbutus*	*menziesii*		Honey bee	*Apis*	*melifera*	2646	
4/20/2017	16	AUST_S	*Westringia*	*rigida*	'Morning Light'	Honey bee	*Apis*	*melifera*	2648	
4/20/2017	16	AUST_S	*Cistus*	*X pulverulentus*		Honey bee	*Apis*	*melifera*	2649	
4/20/2017	16	AUST_S	*Cistus*	*X pulverulentus*		Bumble bee	*Bombus*	sp.	2650	
4/20/2017	16	AUST_S	*Senna*	*nemophila*		Bumble bee	*Bombus*	sp.	2651	
4/20/2017	16	AUST_S	*Dianella*	*revoluta*		Bumble bee	*Bombus*	sp.	2652	
4/20/2017	16	AUST_S	*Grevillea*		'Mason's Hybrid'	Honey bee	*Apis*	*melifera*	2653	
4/20/2017	16	AUST_S	*Correa*	*pulchella*	'Ray's Tangerine'	Bumble bee	*Bombus*	sp.	2654	
4/20/2017	16	AUST_S	*Libertia*	*parvifolium*		Honey bee	*Apis*	*melifera*	2655	
4/20/2017	16	AUST_S	*Hakea*	*leucopthera*		Honey bee	*Apis*	*melifera*	2656	
4/20/2017	16	AUST_S	*Grevillea*	sp.		Bumble bee	*Bombus*	sp.	2657	
4/20/2017	16	AUST_N	*Callistemon*	*viminalis*		Honey bee	*Apis*	*melifera*	2659	
4/20/2017	16	AUST_N	*Protea*	sp.		Honey bee	*Apis*	*melifera*	2660	
4/20/2017	16	AUST_N	*Hardenbergia*	*violacea*	'Happy Wanderer'	Honey bee	*Apis*	*melifera*	2661	
4/20/2017	16	AUST_N	*Westringia*	*fruticosa*	'Wynyabbie Gem'	Honey bee	*Apis*	*melifera*	2664	
4/20/2017	16	AUST_N	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	2666	
4/20/2017	16	AUST_N	*Grevillea*	sp.		Bumble bee	*Bombus*	sp.	2668	
4/20/2017	16	AUST_N	*Correa*	*pulchella*	'Ray's Tangerine'	Bumble bee	*Bombus*	sp.	2669	
4/20/2017	16	AUST_N	*Dianella*	*revoluta*		Native bee	*Xylocopa*	*varipuncta*	2670	
4/20/2017	16	AUST_N	*Melaleuca*	*wilsonii*		Native bee	*Xylocopa*	*varipuncta*	2671	
4/20/2017	16	AUST_N	*Westringia*	*fruticosa*	'Wynyabbie Gem'	Native bee	*Xylocopa*	*varipuncta*	2674	
4/20/2017	16	AUST_N	*Sollya*	*heterophylla*		Native bee	*Xylocopa*	*varipuncta*	2672	
4/20/2017	16	A_ST	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	2679	

4/20/2017	16	A_ST	Eschscholzia	californica		Native bee	Halictus	sp.	2680	
4/20/2017	16	REDW	Galvezia	speciosa		Bumble bee	Bombus	sp.	2678	
4/20/2017	16	REDW	Physocarpus	capitatus		Honey bee	Apis	melifera	2684	
4/20/2017	16	REDW	Rhamnus	crocea		Honey bee	Apis	melifera	2686	
4/20/2017	16	REDW	Heracleum	lanatum		Honey bee	Apis	melifera	2688	
4/20/2017	16	REDW	Iris	sp.	Pacific Coast hybrids	Bumble bee	Bombus	sp.	2689	
4/20/2017	16	MWB	Heuchera	maxima		Bumble bee	Bombus	sp.	2691	
4/20/2017	16	MWB	Lycianthes	sp.		Bumble bee	Bombus	sp.	2693	
4/20/2017	16	MWB	Encelia	californica		Native bee	Agapostemon	sp.	2696	COLLECTED
4/20/2017	16	MWB	Encelia	californica		Native bee	Andrena	sp.	2701	
4/20/2017	16	MWB	Ceanothus	sp.		Honey bee	Apis	melifera	2702	
4/20/2017	16	MWB	Ceanothus	sp.		Bumble bee	Bombus	sp.	2705	
4/20/2017	16	MWB	Ceanothus	sp.		Native bee	Andrena	sp.	2708	
4/20/2017	16	MWB	Salvia	sp.		Honey bee	Apis	melifera	2709	
4/20/2017	16	MWB	Salvia	sp.		Bumble bee	Bombus	sp.	2711	
4/20/2017	16	MWB	Phacelia	californica		Bumble bee	Bombus	sp.	2712	
4/20/2017	16	MWB	Salvia	spathacea		Native bee	Xylocopa	varipuncta	2713	
4/20/2017	16	MWB	Fremontodendron		'Ken Taylor'	Honey bee	Apis	melifera	2715	
4/20/2017	16	MWB	Iris	Pacific Coast hybrids	'Canyon Snow'	Native bee	Agapostemon	sp.	2716	
4/20/2017	16	MWB	Heuchera	rosada		Honey bee	Apis	melifera	2718	
4/20/2017	16	MWB	Eriophyllum	lanatum		Honey bee	Apis	melifera	2719	
4/20/2017	16	MWB	Lupinus	acutiflorus	'Ed Gedling'	Bumble bee	Bombus	sp.	2722	
4/20/2017	16	MWB	Achillea	millefolium		Native bee	Halictus	sp.	2728	
4/20/2017	16	MWB	Eschscholzia	californica		Honey bee	Apis	melifera	2730	
4/20/2017	16	FOOT	Heuchera	maxima		Bumble bee	Bombus	sp.	2732	
4/20/2017	16	FOOT	Heuchera	maxima		Honey bee	Apis	melifera	2733	
4/20/2017	16	FOOT	Salvia	sp.		Honey bee	Apis	melifera	2735	
4/20/2017	16	FOOT	Salvia	sp.		Native bee	Xylocopa	varipuncta	2736	
4/20/2017	16	FOOT	Salvia	sp.		Bumble bee	Bombus	sp.	2739	
4/20/2017	16	FOOT	Encelia	californica		Native bee	Agapostemon	sp.	2744	
4/20/2017	16	FOOT	Encelia	californica		Native bee	Halictus	sp.	2748	
4/20/2017	16	FOOT	Encelia	californica		Honey bee	Apis	melifera	2755	
4/20/2017	16	ENTR	Euryops	pectinatus		Native bee	Halictus	sp.	2756	
4/20/2017	16	ENTR	Bulbine	frutescens		Bumble bee	Bombus	sp.	2758	
4/20/2017	16	ENTR	Nepeta	x faassenii		Honey bee	Apis	melifera	2759	
4/20/2017	16	ENTR	Teucrium	fruticans		Honey bee	Apis	melifera	2761	
4/20/2017	16	ENTR	Dendromecon	harfordii		Native bee	Andrena	sp.	2769	
4/20/2017	16	ENTR	Dendromecon	harfordii		Native bee	Lasioglossum	sp.	2771	
4/20/2017	16	ENTR	Teucrium	fruticans		Bumble bee	Bombus	sp.	2775	
4/20/2017	16	ACAC	Ceanothus	integerrimus		Native bee	Andrena	sp.	2776	
4/20/2017	16	ACAC	Ceanothus	integerrimus		Bumble bee	Bombus	sp.	2777	
4/20/2017	16	ACAC	Ceanothus	integerrimus		Native bee	Hylaeus	sp.	2781	COLLECTED
4/20/2017	16	LODG	Carpobrotus	chilensis		Native bee	Agapostemon	sp.	2784	
4/20/2017	16	LODG	Pittosporum	tobira		Honey bee	Apis	melifera	2787	
4/20/2017	16	LODG	Carpobrotus	chilensis		Native bee	Lasioglossum	sp.	2788	COLLECTED
4/20/2017	16	BOAT	Iris	x germanica	white form	Native bee	Xylocopa	varipuncta	2790	
4/20/2017	16	BOAT	Salvia	microphylla		Native bee	Xylocopa	varipuncta	2792	
4/20/2017	16	BOAT	Lavandula	stoechas	'Otto Quast'	Honey bee	Apis	melifera	2793	
4/20/2017	16	BOAT	Bulbine	frutescens		Honey bee	Apis	melifera	2794	
4/20/2017	16	BOAT	Lavandula	x ginginsii	'Goodwin Creek Grey'	Native bee	Eucera	sp.	2797	
4/20/2017	16	BOAT	Bulbine	frutescens		Native bee	Xylocopa	varipuncta	2803	
4/20/2017	16	BOAT	Bulbine	frutescens		Native bee	Lasioglossum	sp.	2808	
4/20/2017	16	COMM	Baccharis	salicifolia		Honey bee	Apis	melifera	2810	
4/20/2017	16	COTT	Fremontodendron		'California Glory'	Honey bee	Apis	melifera	2811	
4/20/2017	16	COTT	Fremontodendron		'California Glory'	Bumble bee	Bombus	sp.	2813	
4/20/2017	16	COTT	Fremontodendron		'California Glory'	Native bee	Xylocopa	tabiniformis	2814	
4/20/2017	16	YOLO	Lupinus	acutiflorus	'Ed Gedling'	Bumble bee	Bombus	vosnesenskii	2815	
4/20/2017	16	YOLO	Eschscholzia	californica		Native bee	Agapostemon	sp.	2816	
4/20/2017	16	YOLO	Brassica	sp.		Honey bee	Apis	melifera	2818	
4/20/2017	16	YOLO	Brassica	sp.		Native bee	Agapostemon	sp.	2820	
4/20/2017	16	GAZE	x Pyracomeles	vilmorinii		Honey bee	Apis	melifera	2821	
4/20/2017	16	GAZE	Pittosporum	tobira		Honey bee	Apis	melifera	2823	
4/20/2017	16	GAZE	Rhaphiolepis	indica	f. umbellata	Honey bee	Apis	melifera	2824	
4/20/2017	16	GAZE	Iris		'White Perfection'	Native bee	Xylocopa	tabiniformis	2826	
4/20/2017	16	GAZE	Osteomeles	schwerinae		Honey bee	Apis	melifera	2827	
4/20/2017	16	GAZE	Echium	sp.	White form	Honey bee	Apis	melifera	2828	
4/20/2017	16	GAZE	Philadelphus		'Belle Etoile'	Honey bee	Apis	melifera	2829	
4/20/2017	16	GAZE	Philadelphus		'Belle Etoile'	Native bee	Xylocopa	tabiniformis	2830	
4/20/2017	16	GAZE	Erigeron	karvinskianus		Native bee	Halictus	sp.	2834	
4/20/2017	16	GAZE	Erigeron	karvinskianus		Honey bee	Apis	melifera	2838	
4/20/2017	16	GAZE	Erigeron	karvinskianus		Native bee	Ceratina	sp.	2843	
4/20/2017	16	GAZE	Abutilon	x hybridum	white flowered form	Native bee	Xylocopa	tabiniformis	2844	
4/20/2017	16	STOR	Heuchera	rosada		Honey bee	Apis	melifera	2846	
4/20/2017	16	STOR	Heuchera	rosada		Bumble bee	Bombus	sp.	2847	
4/20/2017	16	STOR	Scabiosa	ochroleuca		Honey bee	Apis	melifera	2848	
4/20/2017	16	STOR	Teucrium	fruticans		Honey bee	Apis	melifera	2849	
4/20/2017	16	STOR	Lavandula	stoechas	'Otto Quast'	Bumble bee	Bombus	sp.	2851	
4/20/2017	16	STOR	Lavandula	stoechas	'Otto Quast'	Honey bee	Apis	melifera	2852	
4/20/2017	16	STOR	Salvia	x jamensis	'Scott's Red'	Native bee	Xylocopa	varipuncta	2853	
4/20/2017	16	STOR	Allium	cristophii		Native bee	Lasioglossum	sp.	2855	COLLECTED

4/20/2017	16	STOR	*Ceanothus*	*griseus*	'Bambico'	Bumble bee	*Bombus*	sp.	2856
4/20/2017	16	STOR	*Geranium*		'Tiny Monster'	Honey bee	*Apis*	*melifera*	2857
4/20/2017	16	STOR	*Salvia*	*microphylla*	var. *wislizenii*	Honey bee	*Apis*	*melifera*	2859
4/20/2017	16	STOR	*Allium*	*cristophii*		Native bee	*Xylocopa*	*varipuncta*	2862
4/20/2017	16	STOR	*Allium*	*cristophii*		Native bee	*Ceratina*	sp.	2865
4/20/2017	16	STOR	*Gaillardia*	sp.		Native bee	*Xylocopa*	*tabiniformis*	2869
4/20/2017	16	STOR	*Lavandula*	*angustifolia*	'Hidcote'	Native bee	*Eucera*	sp.	2874
4/20/2017	16	STOR	*Erigeron*	*karvinskianus*		Honey bee	*Apis*	*melifera*	2881
4/20/2017	16	STOR	*Allium*	sp.		Honey bee	*Apis*	*melifera*	2882
4/20/2017	16	EASI	*Geranium*	*cantabrigiense*	'Biokovo'	Honey bee	*Apis*	*melifera*	2885
4/20/2017	16	EASI	*Heuchera*	*rosada*		Bumble bee	*Bombus*	sp.	2886
4/20/2017	16	EASI	*Heuchera*	*rosada*		Honey bee	*Apis*	*melifera*	2888
4/20/2017	16	EASI	*Geranium*	*cantabrigiense*	'Biokovo'	Bumble bee	*Bombus*	sp.	2889
4/20/2017	16	EASI	*Cistus*	sp.		Honey bee	*Apis*	*melifera*	2891
4/20/2017	16	EASI	*Geum*		'Totally Tangerine'	Bumble bee	*Bombus*	sp.	2892
4/20/2017	16	EASI	*Erigeron*	*karvinskianus*		Honey bee	*Apis*	*melifera*	2894
4/20/2017	16	EASI	*Salvia*		'Bee's Bliss'	Native bee	*Xylocopa*	*varipuncta*	2895
4/20/2017	16	EASI	*Lavandula*	*dentata*		Honey bee	*Apis*	*melifera*	2897
4/20/2017	16	EASI	*Iris*	sp.		Native bee	*Andrena*	sp.	2902
4/20/2017	16	EASI	*Bulbine*	*frutescens*	'Tiny Tangerine'	Native bee	*Xylocopa*	*varipuncta*	2903
4/20/2017	16	EASI	*Cerastium*	*tomentosum*		Honey bee	*Apis*	*melifera*	2904
4/20/2017	16	EASI	*Nepeta*	x *faassenii*		Honey bee	*Apis*	*melifera*	2905
4/20/2017	16	EASI	*Callistemon*		'Violaceus'	Honey bee	*Apis*	*melifera*	2906
4/20/2017	16	EASI	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	2907
4/20/2017	16	EASI	*Lonicera*	sp.		Honey bee	*Apis*	*melifera*	2908
4/20/2017	16	EASI	*Lonicera*	sp.		Bumble bee	*Bombus*	sp.	2910
4/20/2017	16	SOAF	*Euryops*	*pectinatus*		Native bee	*Ceratina*	sp.	2916
4/20/2017	16	SOAF	*Pelargonium*	*cordifolium*		Honey bee	*Apis*	*melifera*	2917
4/20/2017	16	SOAF	*Osteospermum*	sp.		Honey bee	*Apis*	*melifera*	2918
4/20/2017	16	MEDI	*Lavandula*	*dentata*		Honey bee	*Apis*	*melifera*	2919
4/20/2017	16	MEDI	*Cneorum*	*tricoccon*		Honey bee	*Apis*	*melifera*	2920
4/20/2017	16	MEDI	*Lavandula*	*dentata*		Bumble bee	*Bombus*	sp.	2923
4/20/2017	16	MEDI	*Cistus*	sp.		Honey bee	*Apis*	*melifera*	2924
4/20/2017	16	MEDI	*Salvia*	*officinalis*	'Berggarten'	Honey bee	*Apis*	*melifera*	2928
4/20/2017	16	MEDI	*Teucrium*	*fruticans*		Bumble bee	*Bombus*	sp.	2930
4/20/2017	16	MEDI	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	2931
4/20/2017	16	MEDI	*Lavatera*	*maritima*		Honey bee	*Apis*	*melifera*	2933
4/20/2017	16	MEDI	*Echium*	*wildpretii*		Honey bee	*Apis*	*melifera*	2935
4/20/2017	16	ARGE	*Lantana*	*montevidensis*	lavender flowered form	Native bee	*Xylocopa*	*varipuncta*	2937
4/20/2017	16	SWUS	*Salvia*	sp.		Native bee	*Xylocopa*	*varipuncta*	2938
4/20/2017	16	SWUS	*Sophora*	*affins*		Honey bee	*Apis*	*melifera*	2940
4/20/2017	16	SWUS	*Sophora*	*affins*		Native bee	*Osmia*	sp.	2942
4/20/2017	16	SWUS	*Sophora*	*affins*		Native bee	*Xylocopa*	*varipuncta*	2943
4/20/2017	16	SWUS	*Ehretia*	*anacua*		Honey bee	*Apis*	*melifera*	2945
4/20/2017	16	SWUS	*Ehretia*	*anacua*		Bumble bee	*Bombus*	sp.	2946
4/20/2017	16	SWUS	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	2947
4/20/2017	16	CONI	*Prunus*	*ilicifolia*		Honey bee	*Apis*	*melifera*	2949
4/20/2017	16	CONI	*Prunus*	*ilicifolia*		Native bee	*Halictus*	sp.	2951
4/20/2017	16	AHQ	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	2952
4/20/2017	16	DESE	*Prunus*	*ilicifolia*		Honey bee	*Apis*	*melifera*	2956
4/20/2017	16	DESE	*Prunus*	*ilicifolia*		Native bee	*Halictus*	sp.	2961
4/20/2017	16	KING	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	2962
4/20/2017	16	KING	*Salvia*	sp.		Native bee	*Xylocopa*	*tabiniformis*	2964
4/20/2017	16	KING	*Heuchera*	*rosada*		Bumble bee	*Bombus*	sp.	2965
4/27/2017	17	ERIC_S	*Arbutus*	*menziesii*		Bumble bee	*Bombus*	sp.	2966
4/27/2017	17	ERIC_S	*Arbutus*	*menziesii*		Honey bee	*Apis*	*melifera*	2967
4/27/2017	17	AUST_S	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	2970
4/27/2017	17	AUST_S	*Callistemon*	sp.		Native bee	*Xylocopa*	*varipuncta*	2969
4/27/2017	17	AUST_S	*Cistus*	x *pulverulentus*		Honey bee	*Apis*	*melifera*	2971
4/27/2017	17	AUST_S	*Cistus*	x *pulverulentus*		Bumble bee	*Bombus*	sp.	2972
4/27/2017	17	AUST_S	*Senna*	*nemophila*		Bumble bee	*Bombus*	sp.	2973
4/27/2017	17	AUST_S	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	2974
4/27/2017	17	AUST_S	*Grevillea*	sp.		Native bee	*Xylocopa*	*tabiniformis*	2976
4/27/2017	17	AUST_S	*Grevillea*	sp.		Bumble bee	*Bombus*	sp.	2978
4/27/2017	17	AUST_S	*Hakea*	*leucopthera*		Honey bee	*Apis*	*melifera*	2979
4/27/2017	17	AUST_S	*Hakea*	*leucopthera*		Native bee	*Xylocopa*	*varipuncta*	2980
4/27/2017	17	AUST_S	*Correa*	*pulchella*	'Ray's Tangerine'	Native bee	*Osmia*	sp.	2983
4/27/2017	17	AUST_S	*Rosa*	*californica*		Bumble bee	*Bombus*	sp.	2984
4/27/2017	17	AUST_S	*Rosa*	*californica*		Honey bee	*Apis*	*melifera*	2985
4/27/2017	17	AUST_N	*Correa*	*pulchella*	'Ray's Tangerine'	Bumble bee	*Bombus*	sp.	2987
4/27/2017	17	AUST_N	*Melaleuca*	*viminea*		Bumble bee	*Bombus*	sp.	2988
4/27/2017	17	AUST_N	*Melaleuca*	*viminea*		Honey bee	*Apis*	*melifera*	2989
4/27/2017	17	AUST_N	*Grevillea*	sp.		Bumble bee	*Bombus*	sp.	2993
4/27/2017	17	AUST_N	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	2994
4/27/2017	17	AUST_N	*Westringia*	*fruticosa*	'Wynyabbie Gem'	Honey bee	*Apis*	*melifera*	2996
4/27/2017	17	AUST_N	*Dianella*	*revoluta*		Bumble bee	*Bombus*	sp.	2999
4/27/2017	17	AUST_N	*Eucalyptus*	*woodwardii*		Bumble bee	*Bombus*	sp.	3000
4/27/2017	17	AUST_N	*Eucalyptus*	*woodwardii*		Honey bee	*Apis*	*melifera*	3001
4/27/2017	17	AUST_N	*Hardenbergia*	*violacea*	'Happy Wanderer'	Native bee	*Xylocopa*	*varipuncta*	3002
4/27/2017	17	AUST_N	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	3005

4/27/2017	17	AUST_N	*Dianella*	*revoluta*		Honey bee	*Apis*	*melifera*	3006	
4/27/2017	17	GATE	*Rhamnus*	*crocea*		Honey bee	*Apis*	*melifera*	3009	
4/27/2017	17	REDW	*Rhamnus*	*crocea*		Honey bee	*Apis*	*melifera*	3010	
4/27/2017	17	REDW	*Rhamnus*	*crocea*		Native bee	*Hylaeus*	sp.	3012	COLLECTED
4/27/2017	17	REDW	*Rhamnus*	*crocea*		Bumble bee	*Bombus*	sp.	3014	
4/27/2017	17	REDW	*Ceanothus*	thyrsiflorus	'Skylark'	Bumble bee	*Bombus*	sp.	3017	
4/27/2017	17	REDW	*Ceanothus*	thyrsiflorus	'Skylark'	Native bee	*Andrena*	sp.	3025	
4/27/2017	17	REDW	*Iris*	sp.	Pacific Coast hybrids	Honey bee	*Apis*	*melifera*	3027	
4/27/2017	17	REDW	*Iris*	sp.	Pacific Coast hybrids	Native bee	*Andrena*	sp.	3028	COLLECTED
4/27/2017	17	MWB	*Encelia*	*californica*		Native bee	*Halictus*	sp.	3029	
4/27/2017	17	MWB	*Romneya*		'White Cloud'	Honey bee	*Apis*	*melifera*	3033	
4/27/2017	17	MWB	*Encelia*	*californica*		Native bee	*Osmia*	sp.	3035	
4/27/2017	17	MWB	*Venegasia*	*carpesoides*		Native bee	*Osmia*	sp.	3036	
4/27/2017	17	MWB	*Heuchera*	*rosada*		Honey bee	*Apis*	*melifera*	3037	
4/27/2017	17	MWB	*Heuchera*	*rosada*		Bumble bee	*Bombus*	sp.	3038	
4/27/2017	17	MWB	*Salvia*	sp.		Bumble bee	*Bombus*	sp.	3039	
4/27/2017	17	MWB	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	3040	
4/27/2017	17	MWB	*Eschscholzia*	*californica*		Bumble bee	*Bombus*	sp.	3042	
4/27/2017	17	MWB	*Scrophularia*	*californica*		Bumble bee	*Bombus*	sp.	3045	
4/27/2017	17	MWB	*Prunus*	*ilicifolia*		Honey bee	*Apis*	*melifera*	3046	
4/27/2017	17	MWB	*Dendromecon*	*harfordii*		Native bee	*Andrena*	sp.	3049	
4/27/2017	17	MWB	*Fremontodendron*		'Ken Taylor'	Native bee	*Xylocopa*	*tabiniformis*	3050	
4/27/2017	17	MWB	*Ceanothus*	*griseus*	'Santa Ana'	Native bee	*Lasioglossum*	sp.	3051	
4/27/2017	17	MWB	*Phacelia*	*californica*		Bumble bee	*Bombus*	sp.	3052	
4/27/2017	17	MWB	*Wyethia*	*angustifolia*		Bumble bee	*Bombus*	sp.	3056	
4/27/2017	17	MWB	*Wyethia*	*angustifolia*		Native bee	*Agapostemon*	sp.	3059	
4/27/2017	17	MWB	*Wyethia*	*angustifolia*		Native bee	*Andrena*	sp.	3066	
4/27/2017	17	MWB	*Salvia*	sp.		Native bee	*Osmia*	sp.	3069	
4/27/2017	17	MWB	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	3072	
4/27/2017	17	MWB	*Isomeris*	*arborea*		Honey bee	*Apis*	*melifera*	3073	
4/27/2017	17	MWB	*Carpenteria*	*californica*		Native bee	*Andrena*	sp.	3074	
4/27/2017	17	MWB	*Iris*	sp.	Pacific Coast hybrids	Native bee	*Andrena*	sp.	3081	
4/27/2017	17	MWB	*Penstemon*	sp.		Native bee	*Xylocopa*	sp.	3082	
4/27/2017	17	MWB	*Bahiopsis*	*parishii*		Native bee	*Xylocopa*	sp.	3084	
4/27/2017	17	MWB	*Bahiopsis*	*parishii*		Native bee	*Andrena*	sp.	3088	
4/27/2017	17	MWB	*Eschscholzia*	*californica*		Native bee	*Andrena*	sp.	3087	
4/27/2017	17	MWB	*Eriophyllum*	*lanatum*		Native bee	*Halictus*	sp.	3094	
4/27/2017	17	MWB	*Bahiopsis*	*parishii*		Bumble bee	*Bombus*	sp.	3095	
4/27/2017	17	MWB	*Eriophyllum*	*lanatum*		Honey bee	*Apis*	*melifera*	3096	
4/27/2017	17	MWB	*Verbena*		'De la Mina'	Honey bee	*Apis*	*melifera*	3099	
4/27/2017	17	MWB	*Malva*	sp.		Native bee	*Xylocopa*	sp.	3100	
4/27/2017	17	MWB	*Malva*	sp.		Bumble bee	*Bombus*	sp.	3103	
4/27/2017	17	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Halictus*	sp.	3105	
4/27/2017	17	MWB	*Rhus*	*ovata*		Native bee	*Andrena*	sp.	3111	
4/27/2017	17	MWB	*Isomeris*	*arborea*		Bumble bee	*Bombus*	sp.	3112	
4/27/2017	17	MWB	*Isomeris*	*arborea*		Native bee	*Xylocopa*	sp.	3114	
4/27/2017	17	MWB	*Lupinus*	*albifrons*		Native bee	*Xylocopa*	sp.	3115	
4/27/2017	17	MWB	*Lupinus*	*albifrons*		Bumble bee	*Bombus*	sp.	3116	
4/27/2017	17	MWB	*Achillea*	*millefolium*		Honey bee	*Apis*	*melifera*	3117	
4/27/2017	17	FOOT	*Penstemon*		'Margarita BOP'	Honey bee	*Apis*	*melifera*	3120	
4/27/2017	17	FOOT	*Heuchera*	*maxima*		Honey bee	*Apis*	*melifera*	3121	
4/27/2017	17	FOOT	*Heuchera*	*rosada*		Bumble bee	*Bombus*	sp.	3122	
4/27/2017	17	FOOT	*Salvia*	sp.		Bumble bee	*Bombus*	sp.	3124	
4/27/2017	17	FOOT	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	3125	
4/27/2017	17	FOOT	*Cornus*	*glabrata*		Honey bee	*Apis*	*melifera*	3126	
4/27/2017	17	FOOT	*Carpenteria*	*californica*		Native bee	*Halictus*	sp.	3127	
4/27/2017	17	FOOT	*Encelia*	*californica*		Native bee	*Halictus*	sp.	3129	
4/27/2017	17	FOOT	*Encelia*	*californica*		Native bee	*Agapostemon*	sp.	3131	
4/27/2017	17	FOOT	*Encelia*	*californica*		Bumble bee	*Bombus*	sp.	3132	
4/27/2017	17	ENTR	*Salvia*	*chamaedryoides*		Honey bee	*Apis*	*melifera*	3135	
4/27/2017	17	ENTR	*Euryops*	*pectinatus*		Native bee	*Andrena*	sp.	3136	
4/27/2017	17	ENTR	*Euryops*	*pectinatus*		Native bee	*Halictus*	sp.	3140	
4/27/2017	17	ENTR	*Nepeta*	*x faassenii*		Honey bee	*Apis*	*melifera*	3142	
4/27/2017	17	ENTR	*Bulbine*	*frutescens*		Native bee	*Andrena*	sp.	3142b	
4/27/2017	17	ENTR	*Dendromecon*	*harfordii*		Native bee	*Andrena*	sp.	3145	
4/27/2017	17	ENTR	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	3146	
4/27/2017	17	ACAC	*Ceanothus*	*integerrimus*		Native bee	*Andrena*	sp.	3148	
4/27/2017	17	ACAC	*Ceanothus*	*integerrimus*		Native bee	*Lasioglossum*	*sp.*	3153	
4/27/2017	17	CHIL	*Alstroemeria*	x		Honey bee	*Apis*	*melifera*	3154	
4/27/2017	17	LODG	*Carpobrotus*	*chilensis*		Native bee	*Lasioglossum*	*sp.*	3156	
4/27/2017	17	LODG	*Carpobrotus*	*chilensis*		Native bee	*Agapostemon*	sp.	3160	
4/27/2017	17	LODG	*Carpobrotus*	*chilensis*		Native bee	*Halictus*	sp.	3163	
4/27/2017	17	BOAT	*Iris*	*x germanica*		Native bee	*Xylocopa*	sp.	3164	
4/27/2017	17	BOAT	*Iris*	*x germanica*		Native bee	*Agapostemon*	sp.	3168	
4/27/2017	17	BOAT	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	3169	
4/27/2017	17	BOAT	*Iris*	*x germanica*		Native bee	*Andrena*	sp.	3170	
4/27/2017	17	COTT	*Vicia*	sp.		Honey bee	*Apis*	*melifera*	3172	
4/27/2017	17	COTT	*Fremontodendron*		'California Glory'	Honey bee	*Apis*	*melifera*	3173	
4/27/2017	17	COTT	*Fremontodendron*		'California Glory'	Native bee	*Xylocopa*	sp.	3174	
4/27/2017	17	COTT	*Fremontodendron*		'California Glory'	Native bee	*Ceratina*	sp.	3180	

4/27/2017	17	YOLO	Brassica	sp.		Honey bee	Apis	melifera	3182	
4/27/2017	17	YOLO	Lupinus	acutiflorus	'Ed Gedling'	Honey bee	Apis	melifera	3183	
4/27/2017	17	YOLO	Eschscholzia	californica		Native bee	Agapostemon	sp.	3185	
4/27/2017	17	GAZE	Philadelphus		'Belle Etoile'	Native bee	Andrena	sp.	3187	
4/27/2017	17	GAZE	Philadelphus		'Belle Etoile'	Native bee	Xylocopa	tabiniformis	3188	
4/27/2017	17	GAZE	Rosa		'Mount Everest'	Honey bee	Apis	melifera	3189	
4/27/2017	17	GAZE	x Pyracomeles	vilmorinii		Honey bee	Apis	melifera	3190	
4/27/2017	17	GAZE	Osteomeles	schwerinae		Honey bee	Apis	melifera	3192	
4/27/2017	17	GAZE	Echium	sp.	white flowered form	Honey bee	Apis	melifera	3193	
4/27/2017	17	GAZE	Rhaphiolepis	indica	'Snow White'	Native bee	Xylocopa	varipuncta	3194	
4/27/2017	17	GAZE	Heuchera	maxima		Honey bee	Apis	melifera	3195	
4/27/2017	17	GAZE	Erigeron	karvinskianus		Native bee	Halictus	sp.	3196	
4/27/2017	17	GAZE	Erigeron	karvinskianus		Native bee	Ceratina	sp.	3203	
4/27/2017	17	GAZE	Erigeron	karvinskianus		Native bee	Lasioglossum	sp.	3204	
4/27/2017	17	GAZE	spiraea	trichocarpa	'Snow White'	Honey bee	Apis	melifera	3205	
4/27/2017	17	GAZE	Abutilon	x hybridum	white flowered form	Native bee	Xylocopa	sp.	3207	
4/27/2017	17	GAZE	Abutilon	x hybridum	white flowered form	Honey bee	Apis	melifera	3208	
4/27/2017	17	STOR	Allium	cristophii		Honey bee	Apis	melifera	3210	
4/27/2017	17	STOR	Heuchera	rosada		Honey bee	Apis	melifera	3211	
4/27/2017	17	STOR	Heuchera	rosada		Native bee	Ceratina	sp.	3212	
4/27/2017	17	STOR	Teucrium	fruticans		Honey bee	Apis	melifera	3214	
4/27/2017	17	STOR	Rosa		'Moryelrug' Topaz Jewel	Honey bee	Apis	melifera	3216	
4/27/2017	17	STOR	Scabiosa	ochroleuca		Honey bee	Apis	melifera	3217	
4/27/2017	17	STOR	Lavandula		'Marshwood'	Honey bee	Apis	melifera	3218	
4/27/2017	17	STOR	Teucrium	fruticans		Native bee	Xylocopa	sp.	3219	
4/27/2017	17	STOR	Salvia	gregii	'San Takao'	Native bee	Xylocopa	sp.	3220	
4/27/2017	17	STOR	Erigeron	karvinskianus	'Moerheimii'	Native bee	Halictus	sp.	3221	
4/27/2017	17	STOR	Erigeron	karvinskianus	'Moerheimii'	Honey bee	Apis	melifera	3223	
4/27/2017	17	STOR	Erigeron	karvinskianus	'Moerheimii'	Native bee	Ceratina	sp.	3226	
4/27/2017	17	STOR	Gaillardia	sp.		Honey bee	Apis	melifera	3229	
4/27/2017	17	STOR	Salvia	officinalis	'Berggarten'	Honey bee	Apis	melifera	3230	
4/27/2017	17	STOR	Alstroemeria	sp.		Native bee	Agapostemon	sp.	3232	
4/27/2017	17	STOR	Alstroemeria	sp.		Honey bee	Apis	melifera	3234	
4/27/2017	17	STOR	Geranium	x cantabrigiense	'Biokovo'	Honey bee	Apis	melifera	3235	
4/27/2017	17	STOR	Allium	cristophii		Native bee	Andrena	sp.	3236	
4/27/2017	17	STOR	Allium	cristophii		Native bee	Lasioglossum	sp.	3237	
4/27/2017	17	STOR	Nepeta	x faassenii		Honey bee	Apis	melifera	3238	
4/27/2017	17	EASI	Geranium	x cantabrigiense	'Biokovo'	Honey bee	Apis	melifera	3239	
4/27/2017	17	EASI	Geranium	x cantabrigiense	'Biokovo'	Bumble bee	Bombus	sp.	3240	
4/27/2017	17	EASI	Heuchera	rosada		Bumble bee	Bombus	sp.	3241	
4/27/2017	17	EASI	Heuchera	rosada		Honey bee	Apis	melifera	3242	
4/27/2017	17	EASI	Erigeron	karvinskianus		Native bee	Halictus	sp.	3244	
4/27/2017	17	EASI	Salvia	microphylla	'Hot Lips'	Native bee	Xylocopa	sp.	3245	
4/27/2017	17	EASI	Salvia	microphylla	'Hot Lips'	Honey bee	Apis	melifera	3246	
4/27/2017	17	EASI	Allium	cristophii		Honey bee	Apis	melifera	3247	
4/27/2017	17	EASI	Lavandula		'Goodwin Creek Grey'	Honey bee	Apis	melifera	3248	
4/27/2017	17	EASI	Erigeron	karvinskianus		Native bee	Lasioglossum	sp.	3249	
4/27/2017	17	EASI	Penstemon		'Margarita BOP'	Honey bee	Apis	melifera	3251	
4/27/2017	17	EASI	Erigeron	karvinskianus		Native bee	Megachile	sp.	3254	COLLECTED
4/27/2017	17	EASI	Teucrium	fruticans		Honey bee	Apis	melifera	3256	
4/27/2017	17	EASI	Callistemon	sp.		Honey bee	Apis	melifera	3258	
4/27/2017	17	EASI	Bulbine	frutescens		Honey bee	Apis	melifera	3259	
4/27/2017	17	EASI	Nepeta	x faassenii		Honey bee	Apis	melifera	3261	
4/27/2017	17	EASI	Rosa	sp.		Honey bee	Apis	melifera	3262	
4/27/2017	17	EASI	Bulbine	frutescens		Native bee	Xylocopa	sp.	3263	
4/27/2017	17	EASI	Geum		'Totally Tangerine'	Native bee	Lasioglossum	sp.	3264	
4/27/2017	17	EASI	Geum		'Totally Tangerine'	Bumble bee	Bombus	sp.	3267	
4/27/2017	17	EASI	Lonicera	japonica		Bumble bee	Bombus	sp.	3268	
4/27/2017	17	EASI	Lonicera	japonica		Honey bee	Apis	melifera	3269	
4/27/2017	17	EASI	Lonicera	japonica		Native bee	Xylocopa	sp.	3270	
4/27/2017	17	SOAF	Euryops	pectinatus		Native bee	Halictus	sp.	3274	
4/27/2017	17	SOAF	Euryops	pectinatus		Native bee	Lasioglossum	sp.	3277	
4/27/2017	17	SOAF	Pelargonium	cordifolium		Honey bee	Apis	melifera	3279	
4/27/2017	17	SOAF	Osteospermum	sp.		Honey bee	Apis	melifera	3282	
4/27/2017	17	MEDI	Lavandula	sp.		Honey bee	Apis	melifera	3284	
4/27/2017	17	MEDI	Lavandula	sp.		Bumble bee	Bombus	sp.	3285	
4/27/2017	17	MEDI	Cistus	incanus		Honey bee	Apis	melifera	3286	
4/27/2017	17	MEDI	Cistus	monspeliensis		Native bee	Andrena	sp.	3289	
4/27/2017	17	MEDI	Cneorum	tricoccon		Honey bee	Apis	melifera	3290	
4/27/2017	17	MEDI	Teucrium	fruticans		Native bee	Xylocopa	sp.	3291	
4/27/2017	17	MEDI	Salvia	officinalis	'Berggarten'	Honey bee	Apis	melifera	3292	
4/27/2017	17	MEDI	Salvia	officinalis	'Berggarten'	Native bee	Lasioglossum	sp.	3294	
4/27/2017	17	MEDI	Teucrium	fruticans		Bumble bee	Bombus	sp.	3295	
4/27/2017	17	MEDI	Teucrium	fruticans		Honey bee	Apis	melifera	3297	
4/27/2017	17	MEDI	Lavatera	maritima		Honey bee	Apis	melifera	3299	
4/27/2017	17	MEDI	Lavandula	sp.		Native bee	Xylocopa	sp.	3301	
4/27/2017	17	MEDI	Echium	wildpretii		Honey bee	Apis	melifera	3303	
4/27/2017	17	MEDI	Achillea	sp.		Native bee	Halictus	sp.	3305	
4/27/2017	17	ARGE	Calliandra	tweedii		Native bee	Xylocopa	sp.	3309	
4/27/2017	17	ARGE	Calliandra	tweedii		Honey bee	Apis	melifera	3306	

4/27/2017	17	ARGE	*Senecio*	*viravira*		Native bee	*Halictus*	sp.	3310	
4/27/2017	17	SWUS	*Sedum*	*dendroideum*		Honey bee	*Apis*	*melifera*	3311	
4/27/2017	17	SWUS	*Sedum*	*dendroideum*		Native bee	*Lasioglossum*	sp.	3314	
4/27/2017	17	SWUS	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	3317	
4/27/2017	17	SWUS	*Sophora*	*affins*		Native bee	*Xylocopa*	sp.	3318	
4/27/2017	17	SWUS	*Sophora*	*affins*		Honey bee	*Apis*	*melifera*	3319	
4/27/2017	17	SWUS	*Ehretia*	*anacua*		Native bee	*Osmia*	sp.	3320	
4/27/2017	17	SWUS	*Ehretia*	*anacua*		Honey bee	*Apis*	*melifera*	3322	
4/27/2017	17	SWUS	*Ehretia*	*anacua*		Bumble bee	*Bombus*	sp.	3321	
4/27/2017	17	CONI	*Salvia*	*leucophylla*		Honey bee	*Apis*	*melifera*	3324	
4/27/2017	17	CONI	*Phlomis*	*fruticosa*		Honey bee	*Apis*	*melifera*	3325	
4/27/2017	17	CONI	*Phlomis*	*fruticosa*		Native bee	*Xylocopa*	sp.	3326	
4/27/2017	17	CONI	*Prunus*	*ilicifolia*		Honey bee	*Apis*	*melifera*	3327	
4/27/2017	17	CONI	*Prunus*	*ilicifolia*		Native bee	*Lasioglossum*	sp.	3330	
4/27/2017	17	CONI	*Tradescantia*	sp.		Honey bee	*Apis*	*melifera*	3334	
4/27/2017	17	AHQ	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	3333	
4/27/2017	17	REDB	*Prunus*	*ilicifolia*		Honey bee	*Apis*	*melifera*	3335	
4/27/2017	17	KING	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	3337	
4/27/2017	17	KING	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	3338	
4/27/2017	17	KING	*Heuchera*	*rosada*		Honey bee	*Apis*	*melifera*	3339	
4/27/2017	17	KING	*Heuchera*	*rosada*		Bumble bee	*Bombus*	sp.	3340	
4/27/2017	17	MRAK	*Cotoneaster*	*dammeri*	'Lowfast'	Honey bee	*Apis*	*melifera*	3341	
4/27/2017	17	MRAK	*Cotoneaster*	*dammeri*	'Lowfast'	Native bee	*Xylocopa*	sp.	3343	
5/2/2017	18	FOOT	*Salvia*		'Dara's Choice'	Bumble bee	*Bombus*	sp.	3345	
5/2/2017	18	FOOT	*Encelia*	*californica*		Native bee	*Halictus*	sp.	3347	
5/2/2017	18	FOOT	*Encelia*	*californica*		Native bee	*Agapostemon*	sp.	3349	
5/2/2017	18	FOOT	*Penstemon*		'Margarita BOP'	Native bee	*Xylocopa*	sp.	3481	
5/2/2017	18	ENTR	*Salvia*	*chamaedryoides*		Honey bee	*Apis*	*melifera*	3350	
5/2/2017	18	ENTR	*Nepeta*	x *faassenii*		Bumble bee	*Bombus*	sp.	3351	
5/2/2017	18	ENTR	*Nepeta*	x *faassenii*		Honey bee	*Apis*	*melifera*	3353	
5/2/2017	18	ENTR	*Salvia*	*clevelandii*		Native bee	*Xylocopa*	sp.	3355	
5/2/2017	18	ENTR	*Dendromecon*	*harfordii*		Native bee	*Andrena*	sp.	3356	COLLECTED
5/2/2017	18	ENTR	*Teucrium*	*fruticans*		Bumble bee	*Bombus*	sp.	3360	
5/2/2017	18	ENTR	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	3362	
5/2/2017	18	CHIL	*Alstroemeria*	x		Honey bee	*Apis*	*melifera*	3363	
5/2/2017	18	LODG	*Carpobrotus*	*chilensis*		Native bee	*Agapostemon*	sp.	3364	
5/2/2017	18	LODG	*Carpobrotus*	*chilensis*		Native bee	*Halictus*	sp.	3368	
5/2/2017	18	BOAT	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	3369	
5/2/2017	18	COTT	*Vicia*	sp.		Honey bee	*Apis*	*melifera*	3370	
5/2/2017	18	YOLO	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	3372	
5/2/2017	18	YOLO	*Rosa*	*californica*		Honey bee	*Apis*	*melifera*	3373	
5/2/2017	18	YOLO	*Rosa*	*californica*		Native bee	*Lasioglossum*	sp.	3374	COLLECTED
5/2/2017	18	YOLO	*Rosa*	*californica*		Bumble bee	*Bombus*	sp.	3375	
5/2/2017	18	GAZE	*Rosa*		'Radwhite'	Honey bee	*Apis*	*melifera*	3376	
5/2/2017	18	GAZE	*Osteomeles*	*schwerinae*		Honey bee	*Apis*	*melifera*	3377	
5/2/2017	18	GAZE	*Philadelphus*		'Belle Etoile'	Bumble bee	*Bombus*	sp.	3378	
5/2/2017	18	GAZE	*Erigeron*	*karvinskianus*		Native bee	*Halictus*	sp.	3380	
5/2/2017	18	GAZE	*Erigeron*	*karvinskianus*		Native bee	*Ceratina*	sp.	3384	
5/2/2017	18	GAZE	*Deutzia*	*crenata*	var. *nakiana*	Honey bee	*Apis*	*melifera*	3385	
5/2/2017	18	STOR	*Heuchera*	*rosada*		Honey bee	*Apis*	*melifera*	3386	
5/2/2017	18	STOR	*Teucrium*	*fruticans*		Bumble bee	*Bombus*	sp.	3387	
5/2/2017	18	STOR	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	3388	
5/2/2017	18	STOR	*Rosa*		'Moryelrug' Topaz Jewel	Honey bee	*Apis*	*melifera*	3389	
5/2/2017	18	STOR	*Scabiosa*	*ochroleuca*		Honey bee	*Apis*	*melifera*	3389b	
5/2/2017	18	STOR	*Ballota*	*pseudodictamus*		Honey bee	*Apis*	*melifera*	3390	
5/2/2017	18	STOR	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	3391	
5/2/2017	18	STOR	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	3392	
5/2/2017	18	STOR	*Allium*	sp.		Honey bee	*Apis*	*melifera*	3393	
5/2/2017	18	STOR	*Acca*	*sellowiana*		Native bee	*Halictus*	sp.	3394	
5/2/2017	18	STOR	*Oxalis*	sp.		Bumble bee	*Bombus*	sp.	3395	
5/2/2017	18	STOR	*Oxalis*	sp.		Honey bee	*Apis*	*melifera*	3396	
5/2/2017	18	STOR	*Phlomis*	*fruticosa*		Honey bee	*Apis*	*melifera*	3397	
5/2/2017	18	STOR	*Geranium*	sp.		Honey bee	*Apis*	*melifera*	3399	
5/2/2017	18	STOR	*Cistus*	sp.		Honey bee	*Apis*	*melifera*	3400	
5/2/2017	18	STOR	*Cistus*	x *crispatus*	'Warley Rose'	Native bee	*Andrena*	sp.	3406	
5/2/2017	18	STOR	*Cistus*	x *crispatus*	'Warley Rose'	Native bee	*Halictus*	sp.	3401	
5/2/2017	18	STOR	*Cistus*	x *crispatus*	'Warley Rose'	Native bee	*Lasioglossum*	sp.	3404	
5/2/2017	18	STOR	*Salvia*	*officinalis*	'Berggarten'	Honey bee	*Apis*	*melifera*	3407	
5/2/2017	18	STOR	*Salvia*	*officinalis*	'Berggarten'	Native bee	*Lasioglossum*	sp.	3408	
5/2/2017	18	STOR	*Erigeron*	*karvinskianus*		Native bee	*Ceratina*	sp.	3409	
5/2/2017	18	STOR	*Erigeron*	*karvinskianus*		Honey bee	*Apis*	*melifera*	3411	
5/2/2017	18	STOR	*Erigeron*	*karvinskianus*		Native bee	*Lasioglossum*	sp.	3416	
5/2/2017	18	EASI	*Geranium*	*cantabrigiense*	'Biokovo'	Honey bee	*Apis*	*melifera*	3418	
5/2/2017	18	EASI	*Scabiosa*	*ochroleuca*		Bumble bee	*Bombus*	sp.	3419	
5/2/2017	18	EASI	*Scabiosa*	*ochroleuca*		Honey bee	*Apis*	*melifera*	3420	
5/2/2017	18	EASI	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	3421	
5/2/2017	18	EASI	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	3422	
5/2/2017	18	EASI	*Erigeron*	*karvinskianus*		Honey bee	*Apis*	*melifera*	3423	
5/2/2017	18	EASI	*Allium*	sp.		Honey bee	*Apis*	*melifera*	3424	
5/2/2017	18	EASI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	3425	

5/2/2017	18	EASI	*Bulbine*	*fruticans*		Native bee	*Xylocopa*	sp.	3427	
5/2/2017	18	EASI	*Erigeron*	*karvinskianus*		Native bee	*Ceratina*	sp.	3428	
5/2/2017	18	EASI	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	3431	
5/2/2017	18	EASI	*Nepeta*	*x faassenii*		Honey bee	*Apis*	*melifera*	3432	
5/2/2017	18	EASI	*Lavandula*		'Goodwin Creek Grey'	Bumble bee	*Bombus*	sp.	3433	
5/2/2017	18	SOAF	*Albuca*	*major*		Native bee	*Xylocopa*	sp.	3434	
5/2/2017	18	SOAF	*Euryops*	*pectinatus*		Native bee	*Halictus*	sp.	3435	
5/2/2017	18	SOAF	*Callistemon*	sp.		Bumble bee	*Bombus*	sp.	3436	
5/2/2017	18	SOAF	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	3437	
5/2/2017	18	SOAF	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	3438	
5/2/2017	18	MEDI	*Lavandula*	sp.		Native bee	*Habropoda*	sp.	3439	
5/2/2017	18	MEDI	*Cistus*	sp.		Honey bee	*Apis*	*melifera*	3441	
5/2/2017	18	MEDI	*Cneorum*	sp.		Native bee	*Halictus*	sp.	3442	
5/2/2017	18	MEDI	*Cneorum*	sp.		Honey bee	*Apis*	*melifera*	3443	
5/2/2017	18	MEDI	*Teucrium*	*fruticans*		Bumble bee	*Bombus*	sp.	3444	
5/2/2017	18	MEDI	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	3445	
5/2/2017	18	MEDI	*Salvia*	*officinalis*	'Berggarten'	Native bee	*Xylocopa*	sp.	3446	
5/2/2017	18	MEDI	*Salvia*	*officinalis*	'Berggarten'	Honey bee	*Apis*	*melifera*	3447	
5/2/2017	18	MEDI	*Lavatera*	*maritima*		Honey bee	*Apis*	*melifera*	3448	
5/2/2017	18	MEDI	*Lavandula*	sp.		Bumble bee	*Bombus*	sp.	3449	
5/2/2017	18	MEDI	*Echium*	*wildpretii*		Honey bee	*Apis*	*melifera*	3451	
5/2/2017	18	MEDI	*Echium*	*wildpretii*		Bumble bee	*Bombus*	sp.	3453	
5/2/2017	18	MEDI	*Achillea*	*millefolium*		Native bee	*Halictus*	sp.	3454	
5/2/2017	18	ARGE	*Oxalis*	sp.		Honey bee	*Apis*	*melifera*	3455	
5/2/2017	18	ARGE	*Calliandra*	*tweedii*		Honey bee	*Apis*	*melifera*	3456	
5/2/2017	18	ARGE	*Senecio*	*viravira*		Honey bee	*Apis*	*melifera*	3457	
5/2/2017	18	ARGE	*Senecio*	*viravira*		Native bee	*Halictus*	sp.	3459	
5/2/2017	18	ARGE	*Senecio*	*viravira*		Native bee	*Andrena*	sp.	3460	
5/2/2017	18	ARGE	*Senecio*	*viravira*		Native bee	*Agapostemon*	sp.	3461	
5/2/2017	18	SWUS	*Sedum*	*dendroideum*		Honey bee	*Apis*	*melifera*	3462	
5/2/2017	18	SWUS	*Sedum*	*dendroideum*		Native bee	*Lasioglossum*	sp.	3464	
5/2/2017	18	SWUS	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	3465	
5/2/2017	18	SWUS	*Sophora*	*affins*		Native bee	*Xylocopa*	sp.	3467	
5/2/2017	18	SWUS	*Ehretia*	*anacua*		Honey bee	*Apis*	*melifera*	3468	
5/2/2017	18	SWUS	*Phlomis*	*fruticosa*		Honey bee	*Apis*	*melifera*	3469	
5/2/2017	18	CONI	*Prunus*	*ilicifolia*		Honey bee	*Apis*	*melifera*	3470	
5/2/2017	18	CONI	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	3471	
5/2/2017	18	DESE	*Prunus*	*ilicifolia*		Honey bee	*Apis*	*melifera*	3474	
5/2/2017	18	DESE	*Eschscholzia*	*californica*		Native bee	*Andrena*	sp.	3475	
5/2/2017	18	DESE	*Encelia*	*farinosa*		Native bee	*Halictus*	sp.	3476	
5/2/2017	18	DESE	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	3478	
5/2/2017	18	DESE	*Heuchera*	*rosada*		Honey bee	*Apis*	*melifera*	3480	
5/2/2017	18	MRAK	*Agastache*	sp.		Honey bee	*Apis*	*melifera*	3482	
5/2/2017	18	MRAK	*Agastache*	sp.		Bumble bee	*Bombus*	sp.	3483	
5/2/2017	18	MRAK	*Penstemon*		'Margarita BOP'	Native bee	*Xylocopa*	sp.	3484	
5/2/2017	18	MRAK	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	3485	
5/2/2017	18	MRAK	*Gaillardia*	sp.		Bumble bee	*Bombus*	sp.	3486	
5/2/2017	18	MRAK	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	3487	
5/2/2017	18	MRAK	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	3490	
5/2/2017	18	MRAK	*Cotoneaster*	*dammeri*	'Lowfast'	Native bee	*Andrena*	sp.	3491	
5/2/2017	18	MRAK	*Cotoneaster*	*dammeri*	'Lowfast'	Native bee	*Xylocopa*	sp.	3492	
5/2/2017	18	MRAK	*Rosa*	sp.		Native bee	*Xylocopa*	sp.	3494	
5/2/2017	18	MRAK	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	3495	
5/2/2017	18	MRAK	*Hypericum*	*monogynom*		Native bee	*Ceratina*	sp.	3496	COLLECTED
5/2/2017	18	MRAK	*Deutzia*	sp.		Bumble bee	*Bombus*	sp.	3497	
5/2/2017	18	MRAK	*Deutzia*	sp.		Native bee	*Megachile*	sp.	3499	
5/2/2017	18	MRAK	*Deutzia*	*x hybrida*	'Magicien'	Native bee	*Xylocopa*	sp.	3500	
5/2/2017	18	MRAK	*Scabiosa*	sp.		Native bee	*Agapostemon*	sp.	3501	
5/2/2017	18	MRAK	*Scabiosa*	sp.		Native bee	*Ceratina*	sp.	3502	COLLECTED
5/2/2017	18	MRAK	*Rosa*	sp.		Native bee	*Ceratina*	sp.	3503	
5/2/2017	18	AUST_N	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	3507	
5/2/2017	18	AUST_N	*Eucalyptus*	*woodwardii*		Honey bee	*Apis*	*melifera*	3508	
5/2/2017	18	AUST_N	*Westringia*	*fruticosa*	'Wynyabbie Gem'	Native bee	*Xylocopa*	sp.	3509	
5/2/2017	18	AUST_N	*Westringia*	*fruticosa*	'Wynyabbie Gem'	Honey bee	*Apis*	*melifera*	3510	
5/2/2017	18	AUST_N	*Westringia*	*fruticosa*	'Wynyabbie Gem'	Bumble bee	*Bombus*	sp.	3511	
5/2/2017	18	AUST_N	*Westringia*	*fruticosa*	'Wynyabbie Gem'	Native bee	*Anthophora*	sp.	3515	COLLECTED
5/2/2017	18	AUST_N	*Westringia*	*fruticosa*	'Wynyabbie Gem'	Native bee	*Megachile*	sp.	3519	
5/2/2017	18	AUST_N	*Grevillea*	sp.		Bumble bee	*Bombus*	sp.	3521	
5/2/2017	18	AUST_N	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	3522	
5/2/2017	18	AUST_N	*Grevillea*	sp.		Native bee	*Xylocopa*	sp.	3523	
5/2/2017	18	AUST_N	*Eremophila*	*weldii*		Native bee	*Halictus*	sp.	3527	
5/2/2017	18	AUST_N	*Dianella*	*revoluta*		Native bee	*Xylocopa*	sp.	3530	
5/2/2017	18	AUST_N	*Westringia*	*fruticosa*	'Wynyabbie Gem'	Native bee	*Halictus*	sp.	3531	
5/2/2017	18	AUST_N	*Correa*	*pulchella*	'Ray's Tangerine'	Native bee	*Lasioglossum*	sp.	3535	
5/2/2017	18	AUST_N	*Melaleuca*	*viminea*		Honey bee	*Apis*	*melifera*	3538	
5/2/2017	18	AUST_N	*Melaleuca*	*viminea*		Bumble bee	*Bombus*	sp.	3539	
5/2/2017	18	AUST_S	*Rosa*	*californica*		Honey bee	*Apis*	*melifera*	3540	
5/2/2017	18	AUST_S	*Rosa*	*californica*		Native bee	*Andrena*	sp.	3541	
5/2/2017	18	AUST_S	*Correa*	*pulchella*	'Ray's Tangerine'	Bumble bee	*Bombus*	sp.	3545	
5/2/2017	18	AUST_S	*Correa*	*pulchella*	'Ray's Tangerine'	Native bee	*Andrena*	sp.	3547	

5/2/2017	18	AUST_S	*Hakea*	*leucopthera*		Honey bee	*Apis*	*melifera*	3549	
5/2/2017	18	AUST_S	*Grevillea*	sp.		Native bee	*Xylocopa*	sp.	3550	
5/2/2017	18	AUST_S	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	3551	
5/2/2017	18	AUST_S	*Isopogon*	*anethifolius*	'Curra Moors'	Native bee	*Xylocopa*	sp.	3553	
5/2/2017	18	AUST_S	*Cistus*	*X pulverulentus*		Honey bee	*Apis*	*melifera*	3554	
5/2/2017	18	AUST_S	*Rhigozum*	*obovatum*		Honey bee	*Apis*	*melifera*	3555	
5/2/2017	18	AUST_S	*Rhigozum*	*obovatum*		Native bee	*Xylocopa*	sp.	3559	
5/2/2017	18	AUST_S	*Rhigozum*	*obovatum*		Native bee	*Osmia*	sp.	3560	
5/2/2017	18	AUST_S	*Dianella*	*revoluta*		Native bee	*Xylocopa*	sp.	3562	
5/2/2017	18	AUST_S	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	3563	
5/2/2017	18	AUST_S	*Westringia*	*rigida*		Honey bee	*Apis*	*melifera*	3564	
5/2/2017	18	AUST_S	*Westringia*	*rigida*		Native bee	*Megachile*	sp.	3565	
5/2/2017	18	AUST_S	*Westringia*	*rigida*		Native bee	*Andrena*	sp.	3566	
5/2/2017	18	GATE	*Achillea*	*millefolium*		Native bee	*Halictus*	sp.	3567	
5/2/2017	18	GATE	*Rhamnus*	*crocea*		Honey bee	*Apis*	*melifera*	3568	
5/2/2017	18	GATE	*Eschscholzia*	*californica*		Native bee	*Andrena*	sp.	3571	
5/2/2017	18	GATE	*Rosa*	*californica*		Honey bee	*Apis*	*melifera*	3572	
5/2/2017	18	GATE	*Rosa*	*californica*		Native bee	*Andrena*	sp.	3573	
5/2/2017	18	GATE	*Rhamnus*	*crocea*		Native bee	*Andrena*	sp.	3574	
5/2/2017	18	REDW	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	3577	
5/2/2017	18	REDW	*Eschscholzia*	*californica*		Native bee	*Ceratina*	sp.	3578	
5/2/2017	18	REDW	*Achillea*	*millefolium*		Native bee	*Andrena*	sp.	3581	
5/2/2017	18	REDW	*Heliotropium*	*curassavicum*		Native bee	*Halictus*	sp.	3582	COLLECTED
5/2/2017	18	REDW	*Heliotropium*	*curassavicum*		Native bee	*Megachile*	sp.	3588	
5/2/2017	18	REDW	*Achillea*	*millefolium*		Native bee	*Halictus*	sp.	3589	
5/2/2017	18	REDW	*Ceanothus*	sp.		Honey bee	*Apis*	*melifera*	3590	
5/2/2017	18	REDW	*Ceanothus*	sp.		Bumble bee	*Bombus*	sp.	3591	
5/2/2017	18	MWB	*Eriogonum*	*grande*	v. *rubescens*	Native bee	*Lasioglossum*	sp.	3592	
5/2/2017	18	MWB	*Encelia*	*californica*		Native bee	*Anthophora*	sp.	3597	
5/2/2017	18	MWB	*Heuchera*	*rosada*		Honey bee	*Apis*	*melifera*	3598	
5/2/2017	18	MWB	*Heuchera*	*rosada*		Bumble bee	*Bombus*	sp.	3599	
5/2/2017	18	MWB	*Salvia*	sp.		Bumble bee	*Bombus*	sp.	3600	
5/2/2017	18	MWB	*Salvia*	sp.		Native bee	*Anthidium*	sp.	3601	COLLECTED
5/2/2017	18	MWB	*Salvia*		'Dara's Choice'	Honey bee	*Apis*	*melifera*	3605	
5/2/2017	18	MWB	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	3608	
5/2/2017	18	MWB	*Salvia*	sp.		Native bee	*Lasioglossum*	sp.	3609	
5/2/2017	18	MWB	*Dendromecon*	*harfordii*		Native bee	*Andrena*	sp.	3610	
5/2/2017	18	MWB	*Aesculus*	*californica*		Honey bee	*Apis*	*melifera*	3612	
5/2/2017	18	MWB	*Phacelia*	sp.		Bumble bee	*Bombus*	sp.	3613	
5/2/2017	18	MWB	*Phacelia*	sp.		Native bee	*Hylaeus*	sp.	3615	
5/2/2017	18	MWB	*Wyethia*	*angustifolia*		Native bee	*Halictus*	sp.	3623	
5/2/2017	18	MWB	*Isomeris*	*arborea*		Native bee	*Andrena*	sp.	3626	
5/2/2017	18	MWB	*Isomeris*	*arborea*		Bumble bee	*Bombus*	sp.	3629	
5/2/2017	18	MWB	*Isomeris*	*arborea*		Native bee	*Lasioglossum*	sp.	3633	
5/2/2017	18	MWB	*Eschscholzia*	*californica*		Bumble bee	*Bombus*	sp.	3634	
5/2/2017	18	MWB	*Bahiopsis*	*parishii*		Honey bee	*Apis*	*melifera*	3635	
5/2/2017	18	MWB	*Bahiopsis*	*parishii*		Native bee	*Ceratina*	sp.	3636	
5/2/2017	18	MWB	*Bahiopsis*	*parishii*		Native bee	*Halictus*	sp.	3638	
5/2/2017	18	MWB	*Eriophyllum*	*lanatum*		Native bee	*Megachile*	sp.	3640	COLLECTED
5/2/2017	18	MWB	*Eriophyllum*	*lanatum*		Native bee	*Andrena*	sp.	3644	
5/2/2017	18	MWB	*Eriophyllum*	*lanatum*		Native bee	*Halictus*	sp.	3645	
5/2/2017	18	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Megachile*	sp.	3653	
5/2/2017	18	MWB	*Verbena*		'De La Mina'	Bumble bee	*Bombus*	sp.	3649	
5/2/2017	18	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Lasioglossum*	sp.	3650	
5/2/2017	18	MWB	*Verbena*		'De La Mina'	Native bee	*Triepeolus*	sp.	3651	
5/2/2017	18	MWB	*Phacelia*	sp.		Bumble bee	*Bombus*	sp.	3657	
5/2/2017	18	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Halictus*	sp.	3658	
5/2/2017	18	MWB	*Achillea*	*millefolium*		Native bee	*Halictus*	sp.	3661a	COLLECTED
5/2/2017	18	MWB	*Eschscholzia*	*californica*		Native bee	*Andrena*	sp.	3668	
5/2/2017	18	MWB	*Lupinus*	*acutiflorus*	'Ed Gedling'	Bumble bee	*Bombus*	sp.	3669	
5/2/2017	18	MWB	*Lupinus*	*acutiflorus*	'Ed Gedling'	Native bee	*Megachile*	sp.	3674	COLLECTED
5/2/2017	18	MWB	*Salvia*	*mellifera*	'Point Mugu'	Native bee	*Osmia*	sp.	3675	
5/10/2017	19	AUST_N	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	3679	
5/10/2017	19	AUST_N	*Callistemon*	sp.		Bumble bee	*Bombus*	sp.	3683	
5/10/2017	19	AUST_N	*Eucalyptus*	*woodwardii*		Bumble bee	*Bombus*	sp.	3684	
5/10/2017	19	AUST_N	*Eucalyptus*	*woodwardii*		Honey bee	*Apis*	*melifera*	3685	
5/10/2017	19	AUST_N	*Grevillea*	sp.		Bumble bee	*Bombus*	sp.	3689	
5/10/2017	19	AUST_N	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	3690	
5/10/2017	19	AUST_N	*Grevillea*	sp.		Native bee	*Xylocopa*	sp.	3692	
5/10/2017	19	AUST_N	*Callistemon*	sp.		Native bee	*Xylocopa*	sp.	3695	
5/10/2017	19	AUST_S	*Correa*	sp.		Native bee	*Andrena*	sp.	3696	
5/10/2017	19	AUST_S	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	3697	
5/10/2017	19	AUST_S	*Grevillea*	sp.		Native bee	*Xylocopa*	sp.	3699	
5/10/2017	19	AUST_S	*Grevillea*	sp.		Bumble bee	*Bombus*	sp.	3700	
5/10/2017	19	AUST_S	*Rhigozum*	*obovatum*		Native bee	*Xylocopa*	sp.	3701	
5/10/2017	19	AUST_S	*Cistus*	*X pulverulentus*		Honey bee	*Apis*	*melifera*	3702	
5/10/2017	19	AUST_S	*Callistemon*	sp.		Native bee	*Xylocopa*	sp.	3703	
5/10/2017	19	AUST_S	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	3704	
5/10/2017	19	AUST_S	*Dianella*	*revoluta*		Native bee	*Xylocopa*	sp.	3705	
5/10/2017	19	GATE	*Rhamnus*	*crocea*		Honey bee	*Apis*	*melifera*	3706	

5/10/2017	19	GATE	Achillea	millefolium		Honey bee	Apis	melifera	3708	
5/10/2017	19	GATE	Rosa	californica		Native bee	Megachile	sp.	3711	
5/10/2017	19	GATE	Rosa	californica		Honey bee	Apis	melifera	3712	
5/10/2017	19	A_ST	Eschscholzia	californica		Honey bee	Apis	melifera	3714	
5/10/2017	19	A_ST	Eschscholzia	californica		Native bee	Agapostemon	sp.	3716	
5/10/2017	19	REDW	Heliotropium	curassavicum		Native bee	Triepeolus	sp.	3717	
5/10/2017	19	REDW	Aquilegia	eximia		Bumble bee	Bombus	sp.	3722	
5/10/2017	19	MWB	Aesculus	californica		Honey bee	Apis	melifera	3723	
5/10/2017	19	MWB	Romneya	coulteri	'White Cloud'	Honey bee	Apis	melifera	3724	
5/10/2017	19	MWB	Encelia	californica		Honey bee	Apis	melifera	3725	
5/10/2017	19	MWB	Eschscholzia	californica		Native bee	Megachile	sp.	3727	
5/10/2017	19	MWB	Bahiopsis	parishii		Bumble bee	Bombus	sp.	3728	
5/10/2017	19	MWB	Eschscholzia	californica		Honey bee	Apis	melifera	3730	
5/10/2017	19	MWB	Salvia	sp.		Honey bee	Apis	melifera	3733	
5/10/2017	19	MWB	Heuchera	rosada		Bumble bee	Bombus	sp.	3734	
5/10/2017	19	MWB	Eschscholzia	californica		Bumble bee	Bombus	sp.	3735	
5/10/2017	19	MWB	Isomeris	arborea		Native bee	Xylocopa	sp.	3736	
5/10/2017	19	MWB	Isomeris	arborea		Bumble bee	Bombus	sp.	3737	
5/10/2017	19	MWB	Heuchera	rosada		Honey bee	Apis	melifera	3738	
5/10/2017	19	MWB	Heuchera	rosada		Native bee	Xylocopa	sp.	3739	
5/10/2017	19	MWB	Penstemon	sp.		Bumble bee	Bombus	sp.	3740	
5/10/2017	19	MWB	Eriophyllum	lanatum		Native bee	Xylocopa	sp.	3741	
5/10/2017	19	MWB	Bahiopsis	parishii		Native bee	Xylocopa	sp.	3744	
5/10/2017	19	MWB	Eriophyllum	lanatum		Native bee	Agapostemon	sp.	3746	
5/10/2017	19	MWB	Bahiopsis	parishii		Native bee	Agapostemon	sp.	3747	
5/10/2017	19	MWB	Eriophyllum	lanatum		Native bee	Halictus	sp.	3750	
5/10/2017	19	MWB	Eriophyllum	lanatum		Honey bee	Apis	melifera	3752	
5/10/2017	19	MWB	Eriophyllum	lanatum		Native bee	Andrena	sp.	3753	
5/10/2017	19	MWB	Erigeron		'Wayne Roderick'	Native bee	Halictus	sp.	3754	
5/10/2017	19	MWB	Verbena		'De La Mina'	Bumble bee	Bombus	sp.	3756	
5/10/2017	19	MWB	Erigeron		'Wayne Roderick'	Native bee	Megachile	sp.	3757	
5/10/2017	19	MWB	Salvia	sp.		Native bee	Osmia	sp.	3761	
5/10/2017	19	MWB	Salvia	sp.		Native bee	Anthidium	sp.	3763	COLLECTED
5/10/2017	19	MWB	Salvia	sp.		Bumble bee	Bombus	sp.	3764	
5/10/2017	19	MWB	Isomeris	arborea		Native bee	Anthidium	sp.	3764b	
5/10/2017	19	MWB	Fremontodendron	sp.		Native bee	Xylocopa	sp.	3767	
5/10/2017	19	MWB	Eschscholzia	californica		Native bee	Agapostemon	sp.	3769	
5/10/2017	19	MWB	Penstemon		'Margarita BOP'	Native bee	Xylocopa	sp.	3770	
5/10/2017	19	MWB	Rosa	californica		Native bee	Andrena	sp.	3775	COLLECTED
5/10/2017	19	MWB	Rosa	californica		Honey bee	Apis	melifera	3777	
5/10/2017	19	FOOT	Encelia	californica		Native bee	Agapostemon	sp.	3780	
5/10/2017	19	FOOT	Encelia	californica		Native bee	Halictus	sp.	3782	
5/10/2017	19	FOOT	Encelia	californica		Native bee	Andrena	sp.	3784	
5/10/2017	19	ENTR	Salvia	sp.		Honey bee	Apis	melifera	3786	
5/10/2017	19	ENTR	Nepeta	sp.		Bumble bee	Bombus	sp.	3788	
5/10/2017	19	ENTR	Bulbine	frutescens		Honey bee	Apis	melifera	3790	
5/10/2017	19	ENTR	Tagetes	lemmoni		Native bee	Andrena	sp.	3793	
5/10/2017	19	ENTR	Dendromecon	harfordii		Native bee	Andrena	sp.	3798	
5/10/2017	19	ENTR	Teucrium	fruticans		Bumble bee	Bombus	sp.	3801	
5/10/2017	19	ENTR	Teucrium	fruticans		Honey bee	Apis	melifera	3803	
5/10/2017	19	CHIL	Alstroemeria	x		Honey bee	Apis	melifera	3805	
5/10/2017	19	CHIL	Alstroemeria	x		Bumble bee	Bombus	sp.	3807	
5/10/2017	19	LODG	Carpobrotus	chilensis		Native bee	Agapostemon	sp.	3808	
5/10/2017	19	LODG	Quillaja	saponaria		Honey bee	Apis	melifera	3809	
5/10/2017	19	LODG	Galium	sp.		Native bee	Svastra	sp.	3813	COLLECTED
5/10/2017	19	LODG	Carpobrotus	chilensis		Native bee	Melissodes	sp.	3814	
5/10/2017	19	LODG	Carpobrotus	chilensis		Native bee	Xylocopa	sp.	3815	
5/10/2017	19	BOAT	Bulbine	sp.		Honey bee	Apis	melifera	3820	
5/10/2017	19	BOAT	Bulbine	sp.		Bumble bee	Bombus	sp.	3822	
5/10/2017	19	BOAT	Lavandula	dentata		Honey bee	Apis	melifera	3823	
5/10/2017	19	COMM	Brassica	sp.		Honey bee	Apis	melifera	3824	
5/10/2017	19	COTT	Myoporum	parvifolium		Honey bee	Apis	melifera	3827	
5/10/2017	19	COTT	Vicia	sp.		Honey bee	Apis	melifera	3829	
5/10/2017	19	YOLO	Rosa	californica		Honey bee	Apis	melifera	3831	
5/10/2017	19	YOLO	Rosa	californica		Bumble bee	Bombus	sp.	3833	
5/10/2017	19	YOLO	Rosa	californica		Native bee	Lasioglossum	sp.	3835	
5/10/2017	19	YOLO	Rosa	californica		Native bee	Andrena	sp.	3837	
5/10/2017	19	GAZE	Gaura	lindheimeri		Honey bee	Apis	melifera	3841	
5/10/2017	19	GAZE	Rosa		'Korbin' Iceberg floribunda ros	Honey bee	Apis	melifera	3843	
5/10/2017	19	GAZE	Deutzia	crenata	var. nakiana	Bumble bee	Bombus	sp.	3844	
5/10/2017	19	GAZE	Deutzia	crenata	var. nakiana	Honey bee	Apis	melifera	3845	
5/10/2017	19	GAZE	Leptospermum		'White Swan'	Honey bee	Apis	melifera	3846	
5/10/2017	19	GAZE	Erigeron	karvinskianus		Native bee	Andrena	sp.	3850	
5/10/2017	19	GAZE	Erigeron	karvinskianus		Native bee	Hylaeus	sp.	3852	COLLECTED
5/10/2017	19	GAZE	Ligustrum	japonicum	'Texanum'	Honey bee	Apis	melifera	3854	
5/10/2017	19	STOR	Yucca	recurvifolia	'Hinvargas'	Honey bee	Apis	melifera	3840	
5/10/2017	19	STOR	Philadelphus	pekinensis		Native bee	Xylocopa	sp.	3856	
5/10/2017	19	STOR	Heuchera	rosada		Bumble bee	Bombus	sp.	3857	
5/10/2017	19	STOR	Heuchera	rosada		Honey bee	Apis	melifera	3859	
5/10/2017	19	STOR	Scabiosa	ochroleuca		Honey bee	Apis	melifera	3860	

5/10/2017	19	STOR	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	3861	
5/10/2017	19	STOR	*Teucrium*	*fruticans*		Bumble bee	*Bombus*	sp.	3862	
5/10/2017	19	STOR	*Rosa*	*californica*		Honey bee	*Apis*	*melifera*	3863	
5/10/2017	19	STOR	*Ballota*	*pseudodictamnus*		Bumble bee	*Bombus*	sp.	3865	
5/10/2017	19	STOR	*Ballota*	*pseudodictamnus*		Honey bee	*Apis*	*melifera*	3866	
5/10/2017	19	STOR	*Lavandula*		'Marshwood'	Honey bee	*Apis*	*melifera*	3867	
5/10/2017	19	STOR	*Salvia*	*jamensis*	'Scott's Red'	Native bee	*Xylocopa*	sp.	3868	
5/10/2017	19	STOR	*Rosa*	*floribunda*		Bumble bee	*Bombus*	sp.	3869	
5/10/2017	19	STOR	*Scabiosa*	*ochroleuca*		Bumble bee	*Bombus*	sp.	3870	
5/10/2017	19	STOR	*Salvia*		'Balsalmisp'	Bumble bee	*Bombus*	sp.	3871	
5/10/2017	19	STOR	*Oxalis*	sp.		Honey bee	*Apis*	*melifera*	3872	
5/10/2017	19	STOR	*Geranium*		'Tiny Monster'	Honey bee	*Apis*	*melifera*	3874	
5/10/2017	19	STOR	*Alstroemeria*	x		Honey bee	*Apis*	*melifera*	3875	
5/10/2017	19	STOR	*Stachys*	*byzantina*	'Silver Carpet'	Honey bee	*Apis*	*melifera*	3876	
5/10/2017	19	STOR	*Stachys*	*byzantina*	'Silver Carpet'	Native bee	*Anthidium*	sp.	3881	COLLECTED
5/10/2017	19	STOR	*Geranium*	*sanguinea*	'Vision Light Pink'	Native bee	*Ceratina*	*melifera*	3882	
5/10/2017	19	STOR	*Limonium*	*platyphyllum*		Honey bee	*Apis*	*melifera*	3883	
5/10/2017	19	STOR	*Cistus*	x *crispatus*	'Warley Rose'	Honey bee	*Apis*	*melifera*	3884	
5/10/2017	19	STOR	*Erigeron*	*karvinskianus*		Honey bee	*Apis*	*melifera*	3885	
5/10/2017	19	STOR	*Erigeron*	*karvinskianus*		Native bee	*Andrena*	sp.	3886	
5/10/2017	19	STOR	*Salvia*		'Hot Lips'	Honey bee	*Apis*	*melifera*	3887	
5/10/2017	19	STOR	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	3888	
5/10/2017	19	STOR	*Erigeron*	*karvinskianus*		Native bee	*Halictus*	sp.	3892	
5/10/2017	19	STOR	*Veronica*	sp.		Bumble bee	*Bombus*	sp.	3893	
5/10/2017	19	STOR	*Phlomis*	*russeliana*		Honey bee	*Apis*	*melifera*	3894	
5/10/2017	19	EASI	*Heuchera*	*rosada*		Honey bee	*Apis*	*melifera*	3895	
5/10/2017	19	EASI	*Geranium*	*cantabrigiense*	'Biokovo'	Bumble bee	*Bombus*	sp.	3896	
5/10/2017	19	EASI	*Geranium*	*cantabrigiense*	'Biokovo'	Honey bee	*Apis*	*melifera*	3897	
5/10/2017	19	EASI	*Salvia*		'Hot Lips'	Honey bee	*Apis*	*melifera*	3898	
5/10/2017	19	EASI	*Erigeron*		'Wayne Roderick'	Native bee	*Andrena*	sp.	3901	
5/10/2017	19	EASI	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	3902	
5/10/2017	19	EASI	*Delosperma*	*cooperi*		Honey bee	*Apis*	*melifera*	3903	
5/10/2017	19	EASI	*Erigeron*	*karvinskianus*		Native bee	*Lasioglossum*	sp.	3906	
5/10/2017	19	EASI	*Penstemon*		'Margarita BOP'	Honey bee	*Apis*	*melifera*	3907	
5/10/2017	19	EASI	*Bulbine*	*frutescens*	'Tiny Tangerine'	Honey bee	*Apis*	*melifera*	3908	
5/10/2017	19	EASI	*Sedum*	sp.		Honey bee	*Apis*	*melifera*	3910	
5/10/2017	19	EASI	*Heuchera*	*rosada*		Bumble bee	*Bombus*	sp.	3911	
5/10/2017	19	EASI	*Lavandula*		'Goodwin Creek Grey'	Bumble bee	*Bombus*	sp.	3912	
5/10/2017	19	EASI	*Lavandula*		'Goodwin Creek Grey'	Honey bee	*Apis*	*melifera*	3914	
5/10/2017	19	EASI	*Teucrium*	x *lucidrys*		Honey bee	*Apis*	*melifera*	3915	
5/10/2017	19	EASI	*Erigeron*	*karvinskianus*		Honey bee	*Apis*	*melifera*	3916	
5/10/2017	19	EASI	*Nepeta*	x *faassenii*		Honey bee	*Apis*	*melifera*	3917	
5/10/2017	19	EASI	*Allium*	*cristophii*		Honey bee	*Apis*	*melifera*	3918	
5/10/2017	19	EASI	*Gaillardia*	sp.		Native bee	*Xylocopa*	sp.	3919	
5/10/2017	19	MEDI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	3920	
5/10/2017	19	MEDI	*Pterocephalus*	*dumetorum*		Honey bee	*Apis*	*melifera*	3921	
5/10/2017	19	MEDI	*Cistus*	sp.		Bumble bee	*Bombus*	sp.	3922	
5/10/2017	19	MEDI	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	3923	
5/10/2017	19	MEDI	*Cistus*	sp.		Honey bee	*Apis*	*melifera*	3925	
5/10/2017	19	MEDI	*Salvia*	*canariensis*		Native bee	*Anthidium*	sp.	3927	
5/10/2017	19	MEDI	*Salvia*	*canariensis*		Native bee	*Xylocopa*	sp.	3928	
5/10/2017	19	MEDI	*Teucrium*	*fruticans*		Bumble bee	*Bombus*	sp.	3931	
5/10/2017	19	MEDI	*Teucrium*	*fruticans*		Native bee	*Xylocopa*	sp.	3932	
5/10/2017	19	MEDI	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	3933	
5/10/2017	19	MEDI	*Lavatera*	*maritima*		Honey bee	*Apis*	*melifera*	3935	
5/10/2017	19	MEDI	*Lavandula*	sp.		Bumble bee	*Bombus*	sp.	3936	
5/10/2017	19	MEDI	*Achillea*	*millefolium*		Native bee	*Andrena*	sp.	3938	
5/10/2017	19	ARGE	*Calliandra*	*tweedii*		Honey bee	*Apis*	*melifera*	3939	
5/10/2017	19	ARGE	*Oxalis*	sp.		Honey bee	*Apis*	*melifera*	3940	
5/10/2017	19	ARGE	*Senecio*	*viravira*		Honey bee	*Apis*	*melifera*	3941	
5/10/2017	19	ARGE	*Senecio*	*viravira*		Native bee	*Agapostemon*	sp.	3942	
5/10/2017	19	ARGE	*Senecio*	*viravira*		Native bee	*Andrena*	sp.	3943	
5/10/2017	19	ARGE	*Lantana*	*montevidensis*	lavender flowered form	Honey bee	*Apis*	*melifera*	3944	
5/10/2017	19	ARGE	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	3945	
5/10/2017	19	SWUS	*Sedum*	*dendroideum*		Native bee	*Andrena*	sp.	3947	
5/10/2017	19	SWUS	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	3949	
5/10/2017	19	SWUS	*Isomeris*	*arborea*		Honey bee	*Apis*	*melifera*	3952	
5/10/2017	19	SWUS	*Phlomis*	*fruticosa*		Native bee	*Xylocopa*	sp.	3953	
5/10/2017	19	CONI	*Nepeta*	sp.		Native bee	*Megachile*	sp.	3955	
5/10/2017	19	CONI	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	3956	
5/10/2017	19	DESE	*Acacia*	*greggii*		Honey bee	*Apis*	*melifera*	3957	
5/10/2017	19	DESE	*Digitalis*	sp.		Native bee	*Xylocopa*	sp.	3959	
5/10/2017	19	DESE	*Baileya*	*multiradiata*		Native bee	*Andrena*	sp.	3960	
5/10/2017	19	DESE	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	3961	
5/10/2017	19	DESE	*Sphaeralcea*	*ambigua*		Honey bee	*Apis*	*melifera*	3962	
5/10/2017	19	DESE	*Encelia*	*farinosa*		Native bee	*Agapostemon*	sp.	3963	
5/10/2017	19	KING	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	3964	
5/10/2017	19	KING	*Galium*	sp.		Native bee	*Anthidium*	sp.	3965	
5/10/2017	19	KING	*Heuchera*	*rosada*		Honey bee	*Apis*	*melifera*	3967	
5/10/2017	19	KING	*Lonicera*	sp.		Bumble bee	*Bombus*	sp.	3968	

5/10/2017	19	KING	*Aesculus*	*californica*		Honey bee	*Apis*	*melifera*	3969	
5/10/2017	19	MRAK	*Agastache*	sp.		Honey bee	*Apis*	*melifera*	3970	
5/10/2017	19	MRAK	*Penstemon*		'Margarita BOP'	Native bee	*Xylocopa*	sp.	3972	
5/10/2017	19	MRAK	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	3973	
5/10/2017	19	MRAK	*Penstemon*		'Margarita BOP'	Honey bee	*Apis*	*melifera*	3974	
5/10/2017	19	MRAK	*Gaillardia*	sp.		Bumble bee	*Bombus*	sp.	3978	
5/15/2017	20	AUST_N	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	3980	
5/15/2017	20	AUST_N	*Eucalyptus*	*woodwardii*		Bumble bee	*Bombus*	sp.	3981	
5/15/2017	20	AUST_N	*Dianella*	sp.		Bumble bee	*Bombus*	sp.	3982	
5/15/2017	20	AUST_N	*Westringia*	*fruticosa*	'Wynyabbie Gem'	Bumble bee	*Bombus*	sp.	3984	
5/15/2017	20	AUST_N	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	3985	
5/15/2017	20	AUST_N	*Callistemon*	sp.		Bumble bee	*Bombus*	sp.	3986	
5/15/2017	20	AUST_S	*Rosa*	*californica*		Bumble bee	*Bombus*	sp.	3987	
5/15/2017	20	AUST_S	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	3988	
5/15/2017	20	AUST_S	*Hebe*	sp.		Native bee	*Xylocopa*	sp.	3989	
5/15/2017	20	AUST_S	*Hebe*	sp.		Honey bee	*Apis*	*melifera*	3990	
5/15/2017	20	AUST_S	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	3991	
5/15/2017	20	AUST_S	*Grevillea*	sp.		Native bee	*Xylocopa*	sp.	3993	
5/15/2017	20	AUST_S	*Dianella*	sp.		Native bee	*Xylocopa*	sp.	3995	
5/15/2017	20	AUST_S	*Dianella*	sp.		Bumble bee	*Bombus*	sp.	3996	
5/15/2017	20	AUST_S	*Rhigozum*	*obovatum*		Bumble bee	*Bombus*	sp.	3998	
5/15/2017	20	AUST_S	*Rhigozum*	*obovatum*		Native bee	*Xylocopa*	sp.	4000	
5/15/2017	20	AUST_S	*Rhigozum*	*obovatum*		Honey bee	*Apis*	*melifera*	4003	
5/15/2017	20	AUST_S	*Cistus*	X *pulverulentus*		Honey bee	*Apis*	*melifera*	4004	
5/15/2017	20	GATE	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	4007	
5/15/2017	20	GATE	*Rhamnus*	*crocea*		Honey bee	*Apis*	*melifera*	4010	
5/15/2017	20	GATE	*Triteleia*	*laxa*		Honey bee	*Apis*	*melifera*	4011	
5/15/2017	20	A_ST	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	4013	
5/15/2017	20	A_ST	*Triteleia*	*laxa*		Native bee	*Agapostemon*	sp.	4015	
5/15/2017	20	A_ST	*Eschscholzia*	*californica*		Native bee	*Agapostemon*	sp.	4016	
5/15/2017	20	REDW	*Heliotropium*	*curassavicum*		Honey bee	*Apis*	*melifera*	4017	
5/15/2017	20	REDW	*Heliotropium*	*curassavicum*		Native bee	*Megachile*	sp.	4018	COLLECTED
5/15/2017	20	REDW	*Philadelphus*	*lewisii*		Native bee	*Xylocopa*	sp.	4022	
5/15/2017	20	MWB	*Aesculus*	*californica*		Honey bee	*Apis*	*melifera*	4023	
5/15/2017	20	MWB	*Eriogonum*	*grande*	v. *rubescens*	Honey bee	*Apis*	*melifera*	4026	
5/15/2017	20	MWB	*Lycianthes*	sp.		Honey bee	*Apis*	*melifera*	4027	
5/15/2017	20	MWB	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	4028	
5/15/2017	20	MWB	*Heuchera*	*rosada*		Bumble bee	*Bombus*	sp.	4030	COLLECTED
5/15/2017	20	MWB	*Heuchera*	*rosada*		Honey bee	*Apis*	*melifera*	4031	
5/15/2017	20	MWB	*Rhamnus*	*crocea*		Honey bee	*Apis*	*melifera*	4033	
5/15/2017	20	MWB	*Salvia*	sp.		Native bee	*Anthidium*	sp.	4034	
5/15/2017	20	MWB	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	4037	
5/15/2017	20	MWB	*Adenostoma*	*fasciculatum*		Honey bee	*Apis*	*melifera*	4038	
5/15/2017	20	MWB	*Salvia*	sp.		Bumble bee	*Bombus*	sp.	4040	
5/15/2017	20	MWB	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	4043	
5/15/2017	20	MWB	*Lonicera*	sp.		Bumble bee	*Bombus*	sp.	4045	
5/15/2017	20	MWB	*Dendromecon*	*harfordii*		Native bee	*Andrena*	sp.	4046	
5/15/2017	20	MWB	*Asclepias*	*speciosa*		Honey bee	*Apis*	*melifera*	4048	
5/15/2017	20	MWB	*Triteleia*	*laxa*		Honey bee	*Apis*	*melifera*	4049	
5/15/2017	20	MWB	*Isomeris*	*arborea*		Honey bee	*Apis*	*melifera*	4050	
5/15/2017	20	MWB	*Isomeris*	*arborea*		Bumble bee	*Bombus*	sp.	4051	
5/15/2017	20	MWB	*Aquilegia*	*formosa*		Bumble bee	*Bombus*	sp.	4052	
5/15/2017	20	MWB	*Eriophyllum*	*lanatum*		Honey bee	*Apis*	*melifera*	4053	
5/15/2017	20	MWB	*Eriophyllum*	*lanatum*		Native bee	*Halictus*	sp.	4054	
5/15/2017	20	MWB	*Eriophyllum*	*lanatum*		Native bee	*Megachile*	sp.	4055	
5/15/2017	20	MWB	*Eriophyllum*	*lanatum*		Native bee	*Andrena*	sp.	4056	
5/15/2017	20	MWB	*Eriophyllum*	*lanatum*		Native bee	*Ceratina*	sp.	4059	
5/15/2017	20	MWB	*Bahiopsis*	*parishii*		Bumble bee	*Bombus*	sp.	4061	
5/15/2017	20	MWB	*Erigeron*		'Wayne Roderick'	Honey bee	*Apis*	*melifera*	4062	
5/15/2017	20	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Megachile*	sp.	4064	
5/15/2017	20	MWB	*Verbena*		'De La Mina'	Honey bee	*Apis*	*melifera*	4067	
5/15/2017	20	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Halictus*	sp.	4072	
5/15/2017	20	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Agapostemon*	sp.	4074	
5/15/2017	20	MWB	*Lupinus*	*acutiflorus*	'Ed Gedling'	Native bee	*Anthidium*	sp.	4076	
5/15/2017	20	MWB	*Achillea*	*millefolium*		Honey bee	*Apis*	*melifera*	4077	
5/15/2017	20	MWB	*Achillea*	*millefolium*		Native bee	*Agapostemon*	sp.	4078	
5/15/2017	20	MWB	*Rosa*	*californica*		Honey bee	*Apis*	*melifera*	4080	
5/15/2017	20	MWB	*Penstemon*		'Margarita BOP'	Honey bee	*Apis*	*melifera*	4081	
5/15/2017	20	MWB	*Fremontodendron*	sp.		Honey bee	*Apis*	*melifera*	4082	
5/15/2017	20	FOOT	*Salvia*	sp.		Bumble bee	*Bombus*	sp.	4083	
5/15/2017	20	FOOT	*Encelia*	*californica*		Native bee	*Halictus*	sp.	4084	
5/15/2017	20	FOOT	*Encelia*	*californica*		Honey bee	*Apis*	*melifera*	4087	
5/15/2017	20	FOOT	*Encelia*	*californica*		Native bee	*Megachile*	sp.	4089	
5/15/2017	20	FOOT	*Encelia*	*californica*		Native bee	*Agapostemon*	sp.	4090	
5/15/2017	20	ENTR	*Salvia*	*chamaedryoides*		Native bee	*Xylocopa*	sp.	4091	
5/15/2017	20	ENTR	*Salvia*	*chamaedryoides*		Honey bee	*Apis*	*melifera*	4092	
5/15/2017	20	ENTR	*Euryops*	*pectinatus*		Honey bee	*Apis*	*melifera*	4093	
5/15/2017	20	ENTR	*Nepeta*	x *faassenii*		Honey bee	*Apis*	*melifera*	4095	
5/15/2017	20	ENTR	*Bulbine*	*frutescens*		Honey bee	*Apis*	*melifera*	4096	
5/15/2017	20	ENTR	*Salvia*	*clevelandii*		Bumble bee	*Bombus*	sp.	4098	
5/15/2017	20	ENTR	*Salvia*	*clevelandii*		Native bee	*Habropoda*	sp.	4099	

5/15/2017 20	ENTR	*Tagetes*	*lemmoni*		Honey bee	*Apis*	*melifera*	4100	
5/15/2017 20	ENTR	*Tagetes*	*lemmoni*		Native bee	*Melissodes*		4102	COLLECTED
5/15/2017 20	ENTR	*Dendromecon*	*harfordii*		Native bee	*Andrena*	sp.	4104	
5/15/2017 20	ENTR	*Athanasia*	*acerosa*		Native bee	*Andrena*	sp.	4105	
5/15/2017 20	ENTR	*Athanasia*	*acerosa*		Native bee	*Halictus*	sp.	4106	
5/15/2017 20	VALL	*Salvia*		'Dara's Choice'	Honey bee	*Apis*	*melifera*	4107	
5/15/2017 20	VALL	*Salvia*		'Dara's Choice'	Bumble bee	*Bombus*	sp.	4108	
5/15/2017 20	CHIL	*Alstroemeria*	x		Honey bee	*Apis*	*melifera*	4109	
5/15/2017 20	CHIL	*Alstroemeria*	x		Bumble bee	*Bombus*	sp.	4110	
5/15/2017 20	LODG	*Carpobrotus*	*chilensis*		Native bee	*Agapostemon*	sp.	4111	
5/15/2017 20	LODG	*Carpobrotus*	*chilensis*		Native bee	*Lasioglossum*	sp.	4112	
5/15/2017 20	LODG	*Carpobrotus*	*chilensis*		Native bee	*Ceratina*	sp.	4116	
5/15/2017 20	LODG	*Carpobrotus*	*chilensis*		Native bee	*Xylocopa*	sp.	4117	
5/15/2017 20	LODG	*Quillaja*	*saponaria*		Honey bee	*Apis*	*melifera*	4118	
5/15/2017 20	LODG	*Carpobrotus*	*chilensis*		Native bee	*Melissodes*	sp.	4120	
5/15/2017 20	BOAT	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	4122	
5/15/2017 20	BOAT	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	4124	
5/15/2017 20	BOAT	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	4126	
5/15/2017 20	BOAT	*Bulbine*	sp.		Native bee	*Xylocopa*	sp.	4127	
5/15/2017 20	BOAT	*Rosa*	*californica*		Honey bee	*Apis*	*melifera*	4128	
5/15/2017 20	COMM	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	4129	
5/15/2017 20	COTT	*Myoporum*	*parvifolium*		Honey bee	*Apis*	*melifera*	4130	
5/15/2017 20	COTT	*Vicia*	sp.		Native bee	*Xylocopa*	sp.	4131	
5/15/2017 20	COTT	*Vicia*	sp.		Honey bee	*Apis*	*melifera*	4132	
5/15/2017 20	COTT	*Fremontodendron*	sp.		Native bee	*Xylocopa*	sp.	4133	
5/15/2017 20	COTT	*Fremontodendron*	sp.		Honey bee	*Apis*	*melifera*	4134	
5/15/2017 20	YOLO	*Rosa*	*californica*		Honey bee	*Apis*	*melifera*	4135	
5/15/2017 20	YOLO	*Rosa*	*californica*		Native bee	*Hylaeus*	sp.	4137	
5/15/2017 20	YOLO	*Brassica*	sp.		Native bee	*Hylaeus*	sp.	4139	
5/15/2017 20	GAZE	*Salvia*	*gregii*	'Alba'	Native bee	*Xylocopa*	sp.	4143	
5/15/2017 20	GAZE	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	4144	
5/15/2017 20	GAZE	*Salvia*	*x sylvestris*	'Schneehugel'	Honey bee	*Apis*	*melifera*	4145	
5/15/2017 20	GAZE	*Lobularia*	sp.		Native bee	*Lasioglossum*	sp.	4146	
5/15/2017 20	GAZE	*Erigeron*	*karvinskianus*		Native bee	*Andrena*	sp.	4147	
5/15/2017 20	GAZE	*Erigeron*	*karvinskianus*		Native bee	*Lasioglossum*	sp.	4148	
5/15/2017 20	GAZE	*Erigeron*	*karvinskianus*		Honey bee	*Apis*	*melifera*	4149	
5/15/2017 20	GAZE	*Ligustrum*	*japonicum*	'Texanum'	Honey bee	*Apis*	*melifera*	4150	
5/15/2017 20	GAZE	*Deutzia*	*crenata*	*v. nakaiana* 'Nikko'	Honey bee	*Apis*	*melifera*	4151	
5/15/2017 20	GAZE	*Deutzia*	*crenata*	*v. nakaiana* 'Nikko'	Bumble bee	*Bombus*	sp.	4152	
5/15/2017 20	GAZE	*Abutilon*	*x hybridum*	white flowered form	Bumble bee	*Bombus*	sp.	4153	
5/15/2017 20	GAZE	*Abutilon*	*x hybridum*	white flowered form	Honey bee	*Apis*	*melifera*	4154	
5/15/2017 20	GAZE	*Abutilon*	*x hybridum*	white flowered form	Native bee	*Xylocopa*	sp.	4155	
5/15/2017 20	GAZE	*Leptospermum*		'White Swan'	Honey bee	*Apis*	*melifera*	4156	
5/15/2017 20	STOR	*Heuchera*	*rosada*		Honey bee	*Apis*	*melifera*	4158	
5/15/2017 20	STOR	*Scabiosa*	*ochroleuca*		Honey bee	*Apis*	*melifera*	4159	
5/15/2017 20	STOR	*Stachys*	*byzantina*		Honey bee	*Apis*	*melifera*	4160	
5/15/2017 20	STOR	*Stachys*	*byzantina*		Native bee	*Anthidium*	sp.	4162	
5/15/2017 20	STOR	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	4163	
5/15/2017 20	STOR	*Ballota*	*pseudodictamnus*		Bumble bee	*Bombus*	sp.	4166	
5/15/2017 20	STOR	*Ballota*	*pseudodictamnus*		Honey bee	*Apis*	*melifera*	4167	
5/15/2017 20	STOR	*Salvia*	*x jamensis*	'Scott's Red'	Honey bee	*Apis*	*melifera*	4168	
5/15/2017 20	STOR	*Lavandula*		'Marshwood'	Honey bee	*Apis*	*melifera*	4169	
5/15/2017 20	STOR	*Acca*	*sellowiana*		Honey bee	*Apis*	*melifera*	4170	
5/15/2017 20	STOR	*Acca*	*sellowiana*		Native bee	*Xylocopa*	sp.	4171	
5/15/2017 20	STOR	*Rosa*	*mutabilis*		Honey bee	*Apis*	*melifera*	4172	
5/15/2017 20	STOR	*Rosa*	*mutabilis*		Native bee	*Hylaeus*	sp.	4173	
5/15/2017 20	STOR	*Salvia*		'Balsalmisp'	Native bee	*Xylocopa*	sp.	4174	
5/15/2017 20	STOR	*Achillea*	*millefolium*		Native bee	*Lasioglossum*	sp.	4175	
5/15/2017 20	STOR	*Achillea*	*millefolium*		Native bee	*Halictus*	sp.	4176	
5/15/2017 20	STOR	*Oxalis*	sp.		Native bee	*Megachile*	sp.	4177	
5/15/2017 20	STOR	*Oxalis*	sp.		Honey bee	*Apis*	*melifera*	4179	
5/15/2017 20	STOR	*Geranium*		'Tiny Monster'	Honey bee	*Apis*	*melifera*	4180	
5/15/2017 20	STOR	*Oxalis*	sp.		Native bee	*Ceratina*	sp.	4182	
5/15/2017 20	STOR	*Oxalis*	sp.		Native bee	*Lasioglossum*	sp.	4183	
5/15/2017 20	STOR	*Geranium*		'Tiny Monster'	Native bee	*Ceratina*	sp.	4184	
5/15/2017 20	STOR	*Opuntia*	*compressa*		Native bee	*Ceratina*	sp.	4185	
5/15/2017 20	STOR	*Stachys*	*byzantina*		Native bee	*Lasioglossum*	sp.	4189	
5/15/2017 20	STOR	*Nepeta*	*x faassenii*		Honey bee	*Apis*	*melifera*	4191	
5/15/2017 20	STOR	*Limonium*	*platyphyllum*		Honey bee	*Apis*	*melifera*	4192	
5/15/2017 20	STOR	*Cistus*	*x crispatus*	'Warley Rose'	Honey bee	*Apis*	*melifera*	4193	
5/15/2017 20	STOR	*Erigeron*	*karvinskianus*		Native bee	*Megachile*	sp.	4194	
5/15/2017 20	STOR	*Veronica*	sp.		Honey bee	*Apis*	*melifera*	4195	
5/15/2017 20	STOR	*Erigeron*	*karvinskianus*		Honey bee	*Apis*	*melifera*	4197	
5/15/2017 20	STOR	*Erigeron*	*karvinskianus*		Native bee	*Lasioglossum*	sp.	4200	
5/15/2017 20	STOR	*Phlomis*	*russeliana*		Native bee	*Anthidium*	sp.	4201	
5/15/2017 20	STOR	*Penstemon*	sp.		Bumble bee	*Bombus*	sp.	4203	
5/15/2017 20	STOR	*Euryops*	*pectinatus*		Native bee	*Lasioglossum*	sp.	4202	
5/15/2017 20	EASI	*Geranium*	*cantabrigiense*	'Biokovo'	Honey bee	*Apis*	*melifera*	4205	
5/15/2017 20	EASI	*Heuchera*	*rosada*		Honey bee	*Apis*	*melifera*	4206	
5/15/2017 20	EASI	*Bulbine*	*frutescens*		Honey bee	*Apis*	*melifera*	4207	

5/15/2017	20	EASI	*Erigeron*	*karvinskianus*		Native bee	*Lasioglossum*	sp.	4208	
5/15/2017	20	EASI	*Salvia*		'Hot Lips'	Honey bee	*Apis*	*melifera*	4209	
5/15/2017	20	EASI	*Salvia*		'Hot Lips'	Native bee	*Xylocopa*	sp.	4210	
5/15/2017	20	EASI	*Teucrium*	x *lucidrys*		Honey bee	*Apis*	*melifera*	4211	
5/15/2017	20	EASI	*Delosperma*	*cooperi*		Honey bee	*Apis*	*melifera*	4213	
5/15/2017	20	EASI	*Lavandula*		'Goodwin Creek Grey'	Honey bee	*Apis*	*melifera*	4214	
5/15/2017	20	EASI	*Penstemon*		'Margarita BOP'	Native bee	*Xylocopa*	sp.	4215	
5/15/2017	20	EASI	*Penstemon*		'Margarita BOP'	Honey bee	*Apis*	*melifera*	4216	
5/15/2017	20	EASI	*Verbena*		'De La Mina'	Bumble bee	*Bombus*	sp.	4219	
5/15/2017	20	EASI	*Verbena*		'De La Mina'	Honey bee	*Apis*	*melifera*	4220	
5/15/2017	20	EASI	*Sedum*	sp.		Honey bee	*Apis*	*melifera*	4221	
5/15/2017	20	EASI	*Erigeron*	*karvinskianus*		Native bee	*Megachile*	sp.	4222	
5/15/2017	20	EASI	*Scabiosa*	*ochroleuca*		Honey bee	*Apis*	*melifera*	4223	
5/15/2017	20	EASI	*Bulbine*	*frutescens*		Native bee	*Xylocopa*	sp.	4224	
5/15/2017	20	EASI	*Erigeron*		'Wayne Roderick'	Native bee	*Ceratina*	sp.	4225	
5/15/2017	20	EASI	*Cotoneaster*	*lacteus*		Honey bee	*Apis*	*melifera*	4226	
5/15/2017	20	EASI	*Polygala*	*fruticosa*	'Petite butterflies'	Native bee	*Xylocopa*	sp.	4228	
5/15/2017	20	MEDI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	4230	
5/15/2017	20	MEDI	*Pterocephalus*	*dumetorum*		Honey bee	*Apis*	*melifera*	4232	
5/15/2017	20	MEDI	*Lavandula*	sp.		Bumble bee	*Bombus*	sp.	4233	
5/15/2017	20	MEDI	*Cneorum*	*tricoccon*		Honey bee	*Apis*	*melifera*	4234	
5/15/2017	20	MEDI	*Nepeta*	x *faassenii*		Native bee	*Andrena*	sp.	4235	
5/15/2017	20	MEDI	*Nepeta*	x *faassenii*		Honey bee	*Apis*	*melifera*	4236	
5/15/2017	20	MEDI	*Cistus*	sp.		Honey bee	*Apis*	*melifera*	4237	
5/15/2017	20	MEDI	*Salvia*	*canariensis*		Native bee	*Xylocopa*	sp.	4238	
5/15/2017	20	MEDI	*Salvia*	*canariensis*		Native bee	*Anthidium*	sp.	4242	
5/15/2017	20	MEDI	*Teucrium*	*fruticans*		Honey bee	*Apis*	*melifera*	4243	
5/15/2017	20	MEDI	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	4244	
5/15/2017	20	MEDI	*Achillea*	*millefolium*		Native bee	*Halictus*	sp.	4246	
5/15/2017	20	MEDI	*Lavatera*	*maritima*		Native bee	*Xylocopa*	sp.	4249	
5/15/2017	20	MEDI	*Lavatera*	*maritima*		Honey bee	*Apis*	*melifera*	4248	
5/15/2017	20	ARGE	*Calliandra*	*tweedii*		Honey bee	*Apis*	*melifera*	4252	
5/15/2017	20	ARGE	*Senecio*	*viravira*		Honey bee	*Apis*	*melifera*	4253	
5/15/2017	20	ARGE	*Canna*	sp.	yellow flowered form	Native bee	*Xylocopa*	sp.	4254	
5/15/2017	20	ARGE	*Lantana*	*montevidensis*	white flowered form	Native bee	*Xylocopa*	sp.	4255	
5/15/2017	20	ARGE	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	4256	
5/15/2017	20	SWUS	*Sedum*	*dendroideum*		Native bee	*Megachile*	sp.	4261	
5/15/2017	20	SWUS	*Salvia*	*chamaedryoides*		Honey bee	*Apis*	*melifera*	4262	
5/15/2017	20	SWUS	*Salvia*	*chamaedryoides*		Native bee	*Xylocopa*	sp.	4263	
5/15/2017	20	SWUS	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	4264	
5/15/2017	20	SWUS	*Gaillardia*	sp.		Native bee	*Xylocopa*	sp.	4265	
5/15/2017	20	SWUS	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	4266	
5/15/2017	20	SWUS	*Epilobium*	*canum*	ssp.latifolium	Honey bee	*Apis*	*melifera*	4270	
5/15/2017	20	SWUS	*Epilobium*	*canum*	ssp.latifolium	Native bee	*Xylocopa*	sp.	4271	
5/15/2017	20	SWUS	*Isomeris*	*arborea*		Honey bee	*Apis*	*melifera*	4272	
5/15/2017	20	SWUS	*Phlomis*	*fruticosa*		Native bee	*Xylocopa*	sp.	4273	
5/15/2017	20	CONI	*Nepeta*	x *faassenii*		Honey bee	*Apis*	*melifera*	4275	
5/15/2017	20	REDB	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	4277	
5/15/2017	20	DESE	*Opuntia*	*basilaris*	v. *treleasei*	Native bee	*Diadasia*	sp.	4283	COLLECTED
5/15/2017	20	DESE	*Opuntia*	*basilaris*	v. *treleasei*	Honey bee	*Apis*	*melifera*	4286	
5/15/2017	20	DESE	*Digitalis*	sp.		Honey bee	*Apis*	*melifera*	4287	
5/15/2017	20	DESE	*Eschscholzia*	*californica*		Native bee	*Ceratina*	sp.	4288	
5/15/2017	20	DESE	*Digitalis*	sp.		Native bee	*Xylocopa*	sp.	4289	
5/15/2017	20	DESE	*Chilopsis*	*linearis*	v. *glutinosa*	Honey bee	*Apis*	*melifera*	4291	
5/15/2017	20	DESE	*Sphaeralcea*	*ambigua*		Honey bee	*Apis*	*melifera*	4292	
5/15/2017	20	KING	*Salvia*	*mellifera*	'Point Mugu'	Native bee	*Anthidium*	sp.	4297	
5/15/2017	20	KING	*Salvia*	*mellifera*	'Point Mugu'	Honey bee	*Apis*	*melifera*	4296	
5/15/2017	20	KING	*Heuchera*	*rosada*		Honey bee	*Apis*	*melifera*	4298	
5/15/2017	20	MRAK	*Agastache*	sp.		Honey bee	*Apis*	*melifera*	4300	
5/15/2017	20	MRAK	*Penstemon*		'Margarita BOP'	Honey bee	*Apis*	*melifera*	4301	
5/15/2017	20	MRAK	*Gaillardia*	sp.		Bumble bee	*Bombus*	sp.	4302	
5/15/2017	20	MRAK	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	4303	
5/15/2017	20	MRAK	*Agastache*	sp.		Native bee	*Megachile*	sp.	4304	
5/24/2017	21	FOOT	*Encelia*	*californica*		Native bee	*Halictus*	sp.	4311	
5/24/2017	21	FOOT	*Encelia*	*californica*		Native bee	*Agapostemon*	sp.	4314	
5/24/2017	21	FOOT	*Salvia*	*chamaedryoides*		Native bee	*Xylocopa*	sp.	4317	
5/24/2017	21	FOOT	*Salvia*	*chamaedryoides*		Honey bee	*Apis*	*melifera*	4318	
5/24/2017	21	ENTR	*Bulbine*	sp.		Bumble bee	*Bombus*	sp.	4320	
5/24/2017	21	ENTR	*Nepeta*	sp.		Bumble bee	*Bombus*	sp.	4321	
5/24/2017	21	ENTR	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	4322	
5/24/2017	21	ENTR	*Salvia*	sp.		Native bee	*Melissodes*	sp.	4327	COLLECTED
5/24/2017	21	ENTR	*Tagetes*	sp.		Native bee	*Halictus*	sp.	4328	
5/24/2017	21	ENTR	*Heteromeles*	sp.		Bumble bee	*Bombus*	sp.	4329	
5/24/2017	21	ENTR	*Heteromeles*	sp.		Honey bee	*Apis*	*melifera*	4330	
5/24/2017	21	ENTR	*Heteromeles*	sp.		Native bee	*Halictus*	sp.	4333	
5/24/2017	21	ENTR	*Achillea*		'Coronation Gold'	Native bee	*Halictus*	sp.	4334	
5/24/2017	21	ENTR	*Achillea*		'Coronation Gold'	Native bee	*Lasioglossum*	sp.	4335	
5/24/2017	21	VALL	*Aesculus*	*californica*		Honey bee	*Apis*	*melifera*	4336	
5/24/2017	21	VALL	*Salvia*		'Dara's Choice'	Honey bee	*Apis*	*melifera*	4337	
5/24/2017	21	VALL	*Salvia*		'Dara's Choice'	Native bee	*Xylocopa*	sp.	4338	

5/24/2017	21	VALL	Salvia		'Dara's Choice'	Bumble bee	Bombus	sp.	4339	COLLECTED
5/24/2017	21	CHIL	Crinodendron	patagua		Honey bee	Apis	melifera	4340	
5/24/2017	21	CHIL	Alstroemeria	sp.		Bumble bee	Bombus	sp.	4342	
5/24/2017	21	CHIL	Alstroemeria	sp.		Honey bee	Apis	melifera	4343	
5/24/2017	21	CHIL	Alstroemeria	sp.		Native bee	Halictus	sp.	4345	
5/24/2017	21	CHIL	Alstroemeria	sp.		Native bee	Agapostemon	sp.	4347	COLLECTED
5/24/2017	21	CHIL	Alstroemeria	sp.		Native bee	Melissodes	sp.	4351	
5/24/2017	21	LODG	Erigeron	glaucus		Native bee	Andrena	sp.	4354	
5/24/2017	21	CHIL	Heimia	salicifolia		Honey bee	Apis	melifera	4355	
5/24/2017	21	CHIL	Heimia	salicifolia		Native Bee	Lasioglossum	sp.	4356	
5/24/2017	21	LODG	Quillaja	saponaria		Honey bee	Apis	melifera	4357	
5/24/2017	21	LODG	X Chitalpa	tashkentensis	'Morning Cloud'	Honey bee	Apis	melifera	4358	
5/24/2017	21	LODG	Chrysanthemum	sp.		Native bee	Halictus	sp.	4359	
5/24/2017	21	LODG	X Chitalpa	tashkentensis	'Morning Cloud'	Bumble bee	Bombus	sp.	4360	
5/24/2017	21	BOAT	Salvia	sp.		Native bee	Xylocopa	sp.	4361	
5/24/2017	21	BOAT	Salvia	sp.		Honey bee	Apis	melifera	4362	
5/24/2017	21	BOAT	Bulbine	frutescens		Honey bee	Apis	melifera	4363	
5/24/2017	21	BOAT	Lavandula	sp.		Honey bee	Apis	melifera	4364	
5/24/2017	21	BOAT	Bulbine	sp.		Native bee	Megachile	sp.	4367	
5/24/2017	21	BOAT	Rosa	sp.		Native bee	Osmia	sp.	4369	COLLECTED
5/24/2017	21	COMM	Brassica	sp.		Honey bee	Apis	melifera	4372	
5/24/2017	21	COMM	Adenostoma	fasciculatum		Honey bee	Apis	melifera	4373	
5/24/2017	21	COMM	Heteromeles	sp.		Native bee	Andrena	sp.	4374	
5/24/2017	21	COMM	Adenostoma	sp.		Native bee	Andrena	sp.	4377	
5/24/2017	21	COMM	Vicia	sp.		Honey bee	Apis	melifera	4378	
5/24/2017	21	COMM	Vicia	sp.		Bumble bee	Bombus	sp.	4381	
5/24/2017	21	COTT	Myoporum	parvifolium		Honey bee	Apis	melifera	4383	
5/24/2017	21	COTT	Brassica	sp.		Honey bee	Apis	melifera	4384	
5/24/2017	21	COTT	Fremontodendron	sp.		Honey bee	Apis	melifera	4385	
5/24/2017	21	YOLO	Rosa	sp.		Honey bee	Apis	melifera	4387	
5/24/2017	21	YOLO	Brassica	sp.		Native bee	Lasioglossum	sp.	4391	
5/24/2017	21	YOLO	Brassica	sp.		Native bee	Hylaeus	sp.	4392	
5/24/2017	21	YOLO	Rosa	sp.		Native bee	Hylaeus	sp.	4395	
5/24/2017	21	MOUN	Trifolium	sp.		Honey bee	Apis	melifera	4396	
5/24/2017	21	GAZE	Salvia	sp.		Native bee	Megachile	sp.	4400	
5/24/2017	21	GAZE	Salvia	sp.		Native bee	Xylocopa	sp.	4397	
5/24/2017	21	GAZE	Salvia	sp.		Honey bee	Apis	melifera	4401	
5/24/2017	21	GAZE	Salvia	sp.		Native bee	Anthidium	sp.	4406	
5/24/2017	21	GAZE	Gaura	lindheimeri		Honey bee	Apis	melifera	4408	
5/24/2017	21	GAZE	Erigeron	karvinskianus		Native bee	Hylaeus	sp.	4409	
5/24/2017	21	GAZE	Ligustrum	japonicum	'Taxenum'	Honey bee	Apis	melifera	4410	
5/24/2017	21	GAZE	Iberis	sempervirens	'Purity'	Bumble bee	Bombus	sp.	4414	
5/24/2017	21	GAZE	Abutilon	x hybridum		Native bee	Xylocopa	sp.	4415	
5/24/2017	21	GAZE	Abutilon	x hybridum		Bumble bee	Bombus	sp.	4416	
5/24/2017	21	STOR	Scabiosa	sp.		Honey bee	Apis	melifera	4420	
5/24/2017	21	STOR	Stachys	sp.		Bumble bee	Bombus	sp.	4422	
5/24/2017	21	STOR	Rosa	sp.		Honey bee	Apis	melifera	4423	
5/24/2017	21	STOR	Stachys	sp.		Honey bee	Apis	melifera	4425	
5/24/2017	21	STOR	Stachys	sp.		Native bee	Xylocopa	sp.	4426	
5/24/2017	21	STOR	Stachys	sp.		Native bee	Anthidium	sp.	4428	
5/24/2017	21	STOR	Teucrium	fruticans		Honey bee	Apis	melifera	4429	
5/24/2017	21	STOR	Bulbine	frutescens		Native bee	Megachile	sp.	4431	
5/24/2017	21	STOR	Penstemon	sp.		Honey bee	Apis	melifera	4432	
5/24/2017	21	STOR	Ballota	sp.		Bumble bee	Bombus	sp.	4433	
5/24/2017	21	STOR	Ballota	sp.		Honey bee	Apis	melifera	4434	
5/24/2017	21	STOR	Salvia	sp.		Honey bee	Apis	melifera	4435	
5/24/2017	21	STOR	Salvia	sp.		Native bee	Xylocopa	sp.	4437	
5/24/2017	21	STOR	Teucrium	sp.		Native Bee	Megachile	sp.	4438	COLLECTED
5/24/2017	21	STOR	Lavandula		'Goodwin Creek Grey'	Honey bee	Apis	melifera	4443	
5/24/2017	21	STOR	Ceratostigma	plumbaginoides		Honey bee	Apis	melifera	4444	
5/24/2017	21	STOR	Verbena	sp.		Honey bee	Apis	melifera	4445	
5/24/2017	21	STOR	Geranium	sp.		Honey bee	Apis	melifera	4446	
5/24/2017	21	STOR	Rosa	sp.		Native bee	Hylaeus	sp.	4450	
5/24/2017	21	STOR	Nepeta	sp.		Honey bee	Apis	melifera	4451	
5/24/2017	21	STOR	Limonium	platyphyllum		Honey bee	Apis	melifera	4452	
5/24/2017	21	STOR	Limonium	platyphyllum		Native bee	Megachile	sp.	4454	COLLECTED
5/24/2017	21	STOR	Delosperma	sp.		Honey bee	Apis	melifera	4457	
5/24/2017	21	STOR	Delosperma	sp.		Native bee	Xylocopa	sp.	4458	
5/24/2017	21	STOR	Limonium	platyphyllum		Native bee	Halictus	sp.	4460	
5/24/2017	21	STOR	Teucrium	x lucidrys		Native bee	Xylocopa	sp.	4462	
5/24/2017	21	STOR	Cistus	sp.		Honey bee	Apis	melifera	4464	
5/24/2017	21	STOR	Erigeron	karvinskianus		Native bee	Halictus	sp.	4465	
5/24/2017	21	STOR	Erigeron	karvinskianus		Honey bee	Apis	melifera	4466	
5/24/2017	21	STOR	Malva	sp.		Honey bee	Apis	melifera	4467	
5/24/2017	21	STOR	Opuntia	compressa		Native bee	Diadasia	sp.	4468	COLLECTED
5/24/2017	21	EASI	Geranium	× cantabrigiense	'Biokovo'	Honey bee	Apis	melifera	4469	
5/24/2017	21	EASI	Geranium		'Biokovo'	Bumble bee	Bombus	sp.	4470	
5/24/2017	21	EASI	Erysimum	sp.		Native bee	Megachile	sp.	4471	
5/24/2017	21	EASI	Bulbine	frutescens		Honey bee	Apis	melifera	4472	
5/24/2017	21	EASI	Agastache	sp.		Native bee	Xylocopa	sp.	4477	

5/24/2017	21	EASI	*Agastache*	sp.		Native bee	*Anthidium*	sp.	4478	
5/24/2017	21	EASI	*Lotus*	*hirsutus*		Honey bee	*Apis*	*melifera*	4481	
5/24/2017	21	EASI	*Delosperma*	sp.		Honey bee	*Apis*	*melifera*	4482	
5/24/2017	21	EASI	*Erigeron*		'Wayne Roderick'	Native bee	*Megachile*	sp.	4483	
5/24/2017	21	EASI	*Erigeron*	*karvinskianus*		Honey bee	*Apis*	*melifera*	4484	
5/24/2017	21	EASI	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	4485	
5/24/2017	21	EASI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	4486	
5/24/2017	21	EASI	*Russelia*	*equisetiformis*		Native bee	*Xylocopa*	sp.	4487	
5/24/2017	21	EASI	*Erigeron*		'Wayne Roderick'	Native bee	*Halictus*	sp.	4489	
5/24/2017	21	EASI	*Penstemon*		'Margarita BOP'	Bumble bee	*Bombus*	sp.	4490	
5/24/2017	21	EASI	*Penstemon*		'Margarita BOP'	Honey bee	*Apis*	*melifera*	4491	
5/24/2017	21	EASI	*Cerastium*	sp.		Native bee	*Megachile*	sp.	4492	
5/24/2017	21	EASI	*Salvia*	sp.		Native bee	*Melissodes*	sp.	4493	
5/24/2017	21	EASI	*Sedum*	sp.		Honey bee	*Apis*	*melifera*	4494	
5/24/2017	21	EASI	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	4495	
5/24/2017	21	EASI	*Teucrium*	x *lucidrys*		Honey bee	*Apis*	*melifera*	4496	
5/24/2017	21	EASI	*Buddleja*	sp.		Honey bee	*Apis*	*melifera*	4497	
5/24/2017	21	EASI	*Heteromeles*	*arbutifolia*		Honey bee	*Apis*	*melifera*	4498	
5/24/2017	21	SOAF	*Grewia*	*occidentalis*		Honey bee	*Apis*	*melifera*	4499	
5/24/2017	21	SOAF	*Grewia*	*occidentalis*		Native bee	*Xylocopa*	sp.	4500	
5/24/2017	21	SOAF	*Senbrosa*	sp.		Honey bee	*Apis*	*melifera*	4501	
5/24/2017	21	SOAF	*Senbrosa*	sp.		Bumble bee	*Bombus*	sp.	4502	
5/24/2017	21	SOAF	*Cotoneaster*	sp.		Honey bee	*Apis*	*melifera*	4503	
5/24/2017	21	MEDI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	4505	
5/24/2017	21	MEDI	*Pterocephalus*	dumetorum		Honey bee	*Apis*	*melifera*	4508	
5/24/2017	21	MEDI	*Santolina*	sp.		Honey bee	*Apis*	*melifera*	4509	
5/24/2017	21	MEDI	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	4510	
5/24/2017	21	MEDI	*Cistus*	sp.		Honey bee	*Apis*	*melifera*	4511	
5/24/2017	21	MEDI	*Salvia*	*canariensis*		Honey bee	*Apis*	*melifera*	4512	
5/24/2017	21	MEDI	*Salvia*	*canariensis*		Native bee	*Xylocopa*	sp.	4513	
5/24/2017	21	MEDI	*Salvia*	*canariensis*		Native bee	*Megachile*	sp.	4514	
5/24/2017	21	MEDI	*Salvia*	*canariensis*		Bumble bee	*Bombus*	sp.	4517	
5/24/2017	21	MEDI	*Salvia*	*canariensis*		Native bee	*Anthidium*	sp.	4519	
5/24/2017	21	MEDI	*Perovskia*	*atriplicifolia*		Honey bee	*Apis*	*melifera*	4520	
5/24/2017	21	MEDI	*Brasilia*	sp.		Honey bee	*Apis*	*melifera*	4521	
5/24/2017	21	MEDI	*Myoporum*	*parvifolium*		Honey bee	*Apis*	*melifera*	4522	
5/24/2017	21	MEDI	*Phlomis*	*purpurea*		Native bee	*Xylocopa*	sp.	4523	
5/24/2017	21	MEDI	*Lavatera*	sp.		Honey bee	*Apis*	*melifera*	4524	
5/24/2017	21	MEDI	*Teucrium*	x *lucidrys*		Honey bee	*Apis*	*melifera*	4525	
5/24/2017	21	ARGE	*Senecio*	sp.		Honey bee	*Apis*	*melifera*	4526	
5/24/2017	21	ARGE	*Pseudotsuga*	*menziesii*		Honey bee	*Apis*	*melifera*	4527	
5/24/2017	21	ARGE	*Senecio*	sp.		Bumble bee	*Bombus*	sp.	4528	
5/24/2017	21	ARGE	*Lantana*	*montevidensis*		Native bee	*Megachile*	sp.	4530	
5/24/2017	21	ARGE	*Lantana*	*montevidensis*		Honey bee	*Apis*	*melifera*	4531	
5/24/2017	21	SWUS	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	4532	
5/24/2017	21	SWUS	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	4533	
5/24/2017	21	SWUS	*Penstemon*	sp.		Native bee	*Xylocopa*	sp.	4534	
5/24/2017	21	SWUS	*Penstemon*	sp.		Honey bee	*Apis*	*melifera*	4535	
5/24/2017	21	SWUS	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	4536	
5/24/2017	21	SWUS	*Chitalpa*	sp.		Honey bee	*Apis*	*melifera*	4537	
5/24/2017	21	SWUS	*Parkinsonia*	sp.		Honey bee	*Apis*	*melifera*	4542	
5/24/2017	21	SWUS	*Chilopsis*	sp.		Honey bee	*Apis*	*melifera*	4543	
5/24/2017	21	SWUS	*Isomeris*	*arborea*		Honey bee	*Apis*	*melifera*	4544	
5/24/2017	21	SWUS	*Isomeris*	*arborea*		Native bee	*Xylocopa*	sp.	4545	
5/24/2017	21	SWUS	*Salvia*	sp.		Bumble bee	*Bombus*	sp.	4546	
5/24/2017	21	CONI	*Nepeta*	sp.		Native bee	*Anthidium*	sp.	4549	
5/24/2017	21	DESE	*Chilopsis*	*linearis*		Honey bee	*Apis*	*melifera*	4550	
5/24/2017	21	DESE	*Parkinsonia*	sp.		Native bee	*Xylocopa*	sp.	4551	
5/24/2017	21	DESE	*Parkinsonia*	sp.		Honey bee	*Apis*	*melifera*	4552	
5/24/2017	21	DESE	*Opuntia*	sp.		Native bee	*Diadasia*	sp.	4564	
5/24/2017	21	DESE	*Baileya*	*multiradiata*		Native bee	*Andrena*	sp.	4554	
5/24/2017	21	DESE	*Eschscholzia*	*californica*		Bumble bee	*Bombus*	sp.	4556	
5/24/2017	21	DESE	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	4555	
5/24/2017	21	DESE	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	4557	
5/24/2017	21	DESE	*Encelia*	sp.		Native bee	*Melissodes*	sp.	4558	COLLECTED
5/24/2017	21	DESE	*Encelia*	sp.		Native bee	*Halictus*	sp.	4560	COLLECTED
5/24/2017	21	DESE	*Baileya*	*multiradiata*		Native bee	*Megachile*	sp.	4561	
5/24/2017	21	DESE	*Baileya*	*multiradiata*		Native bee	*Halictus*	sp.	4562	
5/24/2017	21	DESE	*Sphaeralcea*	*ambigua*		Native bee	*Diadasia*	sp.	4568	
5/24/2017	21	DESE	*Sphaeralcea*	*ambigua*		Native bee	*Agapostemon*	sp.	4573	
5/24/2017	21	KING	*Heuchera*	sp.		Bumble bee	*Bombus*	sp.	4574	
5/24/2017	21	KING	*Aesculus*	*californica*		Honey bee	*Apis*	*melifera*	4575	
5/24/2017	21	ERIC_N	*Heteromeles*	*arbutifolia*		Honey bee	*Apis*	*melifera*	4576	
5/24/2017	21	AUST_N	*Melaleuca*	sp.		Bumble bee	*Bombus*	sp.	4578	
5/24/2017	21	AUST_N	*Melaleuca*	sp.		Honey bee	*Apis*	*melifera*	4579	
5/24/2017	21	AUST_N	*Myoporum*	*parvifolium*		Honey bee	*Apis*	*melifera*	4580	
5/24/2017	21	AUST_N	*Dianella*	sp.		Bumble bee	*Bombus*	sp.	4581	
5/24/2017	21	AUST_N	*Grevillea*	sp.		Native bee	*Xylocopa*	sp.	4584	
5/24/2017	21	AUST_N	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	4583	
5/24/2017	21	AUST_N	*Grevillea*	sp.		Bumble bee	*Bombus*	sp.	4585	

5/24/2017	21	AUST_N	*Dianella*	sp.		Native bee	*Xylocopa*	sp.	4586	
5/24/2017	21	AUST_S	*Convolvulus*	sp.		Honey bee	*Apis*	*melifera*	4587	
5/24/2017	21	AUST_S	*Apocynum*	*cannabinum*		Honey bee	*Apis*	*melifera*	4589	
5/24/2017	21	AUST_S	*Eremophila*	sp.		Honey bee	*Apis*	*melifera*	4593	
5/24/2017	21	AUST_S	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	4594	
5/24/2017	21	AUST_S	*Callistemon*	sp.		Bumble bee	*Bombus*	sp.	4595	
5/24/2017	21	AUST_S	*Grevillea*	sp.		Native bee	*Xylocopa*	sp.	4596	
5/24/2017	21	AUST_S	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	4597	
5/24/2017	21	AUST_S	*Albizia*	sp.		Honey bee	*Apis*	*melifera*	4598	
5/24/2017	21	AUST_S	*Rhigozum*	*obvatum*		Bumble bee	*Apis*	*melifera*	4599	
5/24/2017	21	AUST_S	*Parkinsonia*	sp.		Native bee	*Xylocopa*	sp.	4600	
5/24/2017	21	AUST_S	*Cistus*	sp.		Honey bee	*Apis*	*melifera*	4601	
5/24/2017	21	ERIC_S	*Heteromeles*	*arbutifolia*		Honey bee	*Apis*	*melifera*	4602	
5/24/2017	21	ERIC_S	*Eschscholzia*	*californica*		Native bee	*Agapostemon*	sp.	4603	
5/24/2017	21	ERIC_S	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	4604	
5/24/2017	21	AUST_S	*Dianella*	sp.		Bumble bee	*Bombus*	sp.	4606	
5/24/2017	21	GATE	*Madia*	sp.		Honey bee	*Apis*	*melifera*	4607	
5/24/2017	21	GATE	*Asclepias*	*speciosa*		Native bee	*Triepeolus*	sp.	4608	
5/24/2017	21	GATE	*Asclepias*	*speciosa*		Honey bee	*Apis*	*melifera*	4609	
5/24/2017	21	GATE	*Asclepias*	*speciosa*		Native bee	*Megachile*	sp.	4611	
5/24/2017	21	GATE	*Madia*	sp.		Native bee	*Andrena*	sp.	4612b	
5/24/2017	21	GATE	*Heteromeles*	*arbutifolia*		Honey bee	*Apis*	*melifera*	4613	
5/24/2017	21	GATE	*Madia*	sp.		Bumble bee	*Bombus*	sp.	4615	
5/24/2017	21	AUST_S	*Bursaria*	*spinosa*		Honey bee	*Apis*	*melifera*	4616	
5/24/2017	21	AUST_S	*Bursaria*	*spinosa*		Bumble bee	*Bombus*	sp.	4617	
5/24/2017	21	A_ST	*Eschscholzia*	*californica*		Native bee	*Agapostemon*	sp.	4620	
5/24/2017	21	REDW	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	4623	
5/24/2017	21	REDW	*Heteromeles*	*arbutifolia*		Honey bee	*Apis*	*melifera*	4624	
5/24/2017	21	REDW	*Heliotropium*	*curassavicum*		Honey bee	*Apis*	*melifera*	4625	
5/24/2017	21	MWB	*Aquilegia*	sp.		Bumble bee	*Bombus*	sp.	4627	
5/24/2017	21	MWB	*Aesculus*	*californica*		Honey bee	*Apis*	*melifera*	4629	
5/24/2017	21	MWB	*Heteromeles*	*arbutifolia*		Honey bee	*Apis*	*melifera*	4630	
5/24/2017	21	MWB	*Eriogonum*	sp.		Bumble bee	*Bombus*	*melifera*	4632	
5/24/2017	21	MWB	*Encelia*	*californica*		Native bee	*Halictus*	sp.	4633	
5/24/2017	21	MWB	*Venegasia*	*carpesoides*		Native bee	*Melissodes*	sp.	4634	COLLECTED
5/24/2017	21	MWB	*Venegasia*	*carpesoides*		Native bee	*Halictus*	sp.	4635	
5/24/2017	21	MWB	*Heuchera*	*rosada*		Bumble bee	*Bombus*	sp.	4636	
5/24/2017	21	MWB	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	4637	
5/24/2017	21	MWB	*Adenostoma*	*fasciculatum*		Bumble bee	*Bombus*	sp.	4640	
5/24/2017	21	MWB	*Salvia*	*officinalis*		Bumble bee	*Bombus*	sp.	4641	
5/24/2017	21	MWB	*Salvia*	*officinalis*		Native bee	*Hoplitis*	sp.	4644	COLLECTED
5/24/2017	21	MWB	*Dendromecon*	sp.		Honey bee	*Apis*	*melifera*	4645	
5/24/2017	21	MWB	*Achillea*	*mellefolium*		Honey bee	*Apis*	*melifera*	4646	
5/24/2017	21	MWB	*Asclepias*	sp.		Honey bee	*Apis*	*melifera*	4647	
5/24/2017	21	MWB	*Asclepias*	sp.		Native bee	*Halictus*	sp.	4648	
5/24/2017	21	MWB	*Eschscholzia*	*californica*		Bumble bee	*Bombus*	sp.	4649	
5/24/2017	21	MWB	*Asclepias*	sp.		Native bee	*Megachile*	sp.	4650	
5/24/2017	21	MWB	*Triteleia*	*laxa*		Honey bee	*Apis*	*melifera*	4651	
5/24/2017	21	MWB	*Triteleia*	*laxa*		Native bee	*Agapostemon*	sp.	4653	
5/24/2017	21	MWB	*Triteleia*	*laxa*		Native bee	*Melissodes*	sp.	4654	COLLECTED
5/24/2017	21	MWB	*Wyethia*	*angustifolia*		Native bee	*Halictus*	sp.	4659	
5/24/2017	21	MWB	*Isomeris*	sp.		Bumble bee	*Bombus*	sp.	4662	
5/24/2017	21	MWB	*Isomeris*	sp.		Native bee	*Megachile*	sp.	4663	
5/24/2017	21	MWB	*Salvia*	*officinalis*		Native bee	*Anthidium*	sp.	4668	
5/24/2017	21	MWB	*Erigeron*		'Wayne Roderick'	Honey bee	*Apis*	*melifera*	4669	
5/24/2017	21	MWB	*Eriophyllum*	*lanatum*		Native bee	*Halictus*	sp.	4670	
5/24/2017	21	MWB	*Eschscholzia*	*californica*		Native bee	*Agapostemon*	sp.	4671	
5/24/2017	21	MWB	*Eschscholzia*	*californica*		Native bee	*Andrena*	sp.	4672	
5/24/2017	21	MWB	*Eriophyllum*	*lanatum*		Bumble bee	*Bombus*	sp.	4674	
5/24/2017	21	MWB	*Eriophyllum*	*lanatum*		Bumble bee	*Bombus*	sp.	4675	
5/24/2017	21	MWB	*Eriophyllum*	*lanatum*		Native bee	*Megachile*	sp.	4680	
5/24/2017	21	MWB	*Eriophyllum*	*lanatum*		Native bee	*Halictus*	sp.	4681	
5/24/2017	21	MWB	*Eriophyllum*	*lanatum*		Native bee	*Osmia*	sp.	4683	COLLECTED
5/24/2017	21	MWB	*Achillea*	*millefolium*		Native bee	*Halictus*	sp.	4687	
5/24/2017	21	MWB	*Eucalyptus*	sp.		Native bee	*Megachile*	sp.	4689	
5/24/2017	21	MWB	*Eucalyptus*	sp.		Native bee	*Halictus*	sp.	4692	
5/24/2017	21	MWB	*Heteromeles*	*arbutifolia*		Native bee	*Andrena*	sp.	4695	
5/24/2017	21	MWB	*Heteromeles*	*arbutifolia*		Native bee	*Megachile*	sp.	4697	
5/24/2017	21	MWB	*Lupinus*	*arboreus*		Native bee	*Anthidium*	sp.	4698	
5/24/2017	21	MWB	*Cleome*	sp.		Honey bee	*Apis*	*melifera*	4699	
5/24/2017	21	MWB	*Salvia*	*officinalis*		Native bee	*Melissodes*	sp.	4703	
5/24/2017	21	MWB	*Fremontodendron*	*californicum*		Honey bee	*Apis*	*melifera*	4704	
5/24/2017	21	MWB	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	4705	COLLECTED
5/24/2017	21	MWB	*Heliotropium*	*curassavicum*		Honey bee	*Apis*	*melifera*	4706	
5/24/2017	21	MWB	*Rosa*	*californica*		Honey bee	*Apis*	*melifera*	4707	
5/24/2017	21	MWB	*Salvia*	*officinalis*		Native bee	*Xylocopa*	sp.	4708	
5/24/2017	21	MRAK	*Salvia*		'Blauhugel'	Honey bee	*Apis*	*melifera*	4709	
5/24/2017	21	MRAK	*Salvia*		'Blauhugel'	Bumble bee	*Bombus*	sp.	4711	
5/24/2017	21	MRAK	*Salvia*		'Blauhugel'	Native bee	*Megachile*	sp.	4712	
5/24/2017	21	MRAK	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	4714	

5/24/2017	21	MRAK	*Gaura*	*lindheimeri*		Native bee	*Melissodes*	sp.	4715	
5/24/2017	21	MRAK	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	4716	
5/24/2017	21	MRAK	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	4718	
5/24/2017	21	MRAK	*Salvia*		'Blauhugel'	Native bee	*Halictus*	sp.	4719	
5/24/2017	21	MRAK	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	4720	
5/24/2017	21	MRAK	*Magnolia*	*grandiflora*		Honey bee	*Apis*	*melifera*	4722	
5/24/2017	21	MRAK	*Abelia*	sp.		Native bee	*Xylocopa*	sp.	4723	
5/24/2017	21	MRAK	*Hypericum*	sp.		Honey bee	*Apis*	*melifera*	4724	
5/24/2017	21	MRAK	*Hibiscus*	*mutabilis*		Honey bee	*Apis*	*melifera*	4725	
5/24/2017	21	MRAK	*Rosa*	sp.		Bumble bee	*Bombus*	sp.	4726	
5/31/2017	22	FOOT	*Triteleia*	*laxa*		Honey bee	*Apis*	*melifera*	4730	
5/31/2017	22	FOOT	*Anemopsis*	*californica*		Native bee	*Halictus*	sp.	4731	
5/31/2017	22	FOOT	*Adenostoma*	sp.		Native bee	*Xylocopa*	sp.	4733	
5/31/2017	22	FOOT	*Heteromeles*	*arbutifolia*		Honey bee	*Apis*	*melifera*	4734	
5/31/2017	22	FOOT	*Heteromeles*	*arbutifolia*		Native bee	*Andrena*	sp.	4735	
5/31/2017	22	FOOT	*Heteromeles*	*arbutifolia*		Native bee	*Megachile*	sp.	4741	
5/31/2017	22	FOOT	*Malosma*	*laurina*		Native bee	*Lasioglossum*	sp.	4743	
5/31/2017	22	FOOT	*Encelia*	*californica*		Native bee	*Halictus*	sp.	4744	
5/31/2017	22	FOOT	*Encelia*	*californica*		Native bee	*Andrena*	sp.	4746	
5/31/2017	22	FOOT	*Encelia*	*californica*		Native bee	*Hoplitis*	sp.	4749	COLLECTED
5/31/2017	22	FOOT	*Encelia*	*californica*		Native bee	*Agapostemon*	sp.	4751	COLLECTED
5/31/2017	22	FOOT	*Encelia*	*californica*		Native bee	*Melissodes*	sp.	4752	COLLECTED
5/31/2017	22	ENTR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	4753	
5/31/2017	22	ENTR	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	4754	
5/31/2017	22	ENTR	*Vitex*	*agnus-cactus*		Honey bee	*Apis*	*melifera*	4755	
5/31/2017	22	ENTR	*Vitex*	*agnus-cactus*		Bumble bee	*Bombus*	sp.	4757	
5/31/2017	22	ENTR	*Nepeta*	sp.		Bumble bee	*Bombus*	sp.	4759	
5/31/2017	22	ENTR	*Bulbine*	*frutescens*		Native bee	*Megachile*	sp.	4761	
5/31/2017	22	ENTR	*Bulbine*	*frutescens*		Native bee	*Anthophora*	sp.	4763	COLLECTED
5/31/2017	22	ENTR	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	4764	
5/31/2017	22	ENTR	*Bulbine*	*frutescens*		Honey bee	*Apis*	*melifera*	4765	
5/31/2017	22	ENTR	*Salvia*	sp.		Native bee	*Anthophora*	sp.	4767	
5/31/2017	22	ENTR	*Tagetes*	sp.		Native bee	*Halictus*	sp.	4768	
5/31/2017	22	ENTR	*Tagetes*	sp.		Native bee	*Andrena*	sp.	4769	
5/31/2017	22	ENTR	*Heteromeles*	*arbutifolia*		Honey bee	*Apis*	*melifera*	4770	
5/31/2017	22	ENTR	*Heteromeles*	*arbutifolia*		Native bee	*Andrena*	sp.	4771	
5/31/2017	22	ENTR	*Heteromeles*	*arbutifolia*		Native bee	*Hylaeus*	sp.	4774	
5/31/2017	22	ENTR	*Encelia*	*californica*		Native bee	*Ceratina*	sp.	4775	
5/31/2017	22	ENTR	*Teucrium*	sp.		Bumble bee	*Bombus*	sp.	4777	
5/31/2017	22	VALL	*Salvia*		'Dara's Choice'	Honey bee	*Apis*	*melifera*	4778	
5/31/2017	22	VALL	*Salvia*		'Dara's Choice'	Bumble bee	*Bombus*	sp.	4779	
5/31/2017	22	VALL	*Salvia*		'Dara's Choice'	Native bee	*Xylocopa*	sp.	4781	
5/31/2017	22	VALL	*Salvia*		'Dara's Choice'	Native bee	*Megachile*	sp.	4782	
5/31/2017	22	CHIL	*Crinodendron*	*patagua*		Honey bee	*Apis*	*melifera*	4783	
5/31/2017	22	CHIL	*Alstroemeria*	sp.		Honey bee	*Apis*	*melifera*	4784	
5/31/2017	22	CHIL	*Alstroemeria*	sp.		Bumble bee	*Bombus*	sp.	4786	
5/31/2017	22	CHIL	*Alstroemeria*	sp.		Native bee	*Lasioglossum*	sp.	4789	
5/31/2017	22	CHIL	*Alstroemeria*	x		Native bee	*Andrena*	sp.	4791	COLLECTED
5/31/2017	22	LODG	*Quillaja*	*saponaria*		Honey bee	*Apis*	*melifera*	4792	
5/31/2017	22	LODG	*Erigeron*	*glaucus*		Native bee	*Melissodes*	sp.	4794	
5/31/2017	22	LODG	X *Chitalpa*	*tashkentensis*	'Morning Cloud'	Honey bee	*Apis*	*melifera*	4795	
5/31/2017	22	LODG	*Chrysanthemum*		'Yellow Diamond'	Native bee	*Halictus*	sp.	4797	
5/31/2017	22	LODG	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	4798	
5/31/2017	22	LODG	*Abelia*	sp.		Honey bee	*Apis*	*melifera*	4799	
5/31/2017	22	LODG	*Sambucus*	sp.		Native bee	*Halictus*	sp.	4800	COLLECTED
5/31/2017	22	LODG	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	4803	
5/31/2017	22	BOAT	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	4804	
5/31/2017	22	BOAT	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	4805	
5/31/2017	22	BOAT	*Bulbine*	*frutescens*		Bumble bee	*Bombus*	sp.	4806	
5/31/2017	22	BOAT	*Origanum*	sp.		Bumble bee	*Bombus*	sp.	4807	
5/31/2017	22	BOAT	*Origanum*	sp.		Native bee	*Lasioglossum*	sp.	4808	
5/31/2017	22	BOAT	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	4809	
5/31/2017	22	BOAT	*Rosa*	sp.		Native bee	*Hylaeus*	sp.	4810	
5/31/2017	22	BOAT	*Rosa*	sp.		Native bee	*Megachile*	sp.	4811	
5/31/2017	22	BOAT	*Bulbine*	*frutescens*		Native bee	*Lasioglossum*	sp.	4815	
5/31/2017	22	BOAT	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	4818	
5/31/2017	22	BOAT	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	4820	
5/31/2017	22	BOAT	*Origanum*	*marjorana*		Native bee	*Halictus*	sp.	4822	
5/31/2017	22	COMM	*Heteromeles*	sp.		Honey bee	*Apis*	*melifera*	4823	
5/31/2017	22	COMM	*Heteromeles*	sp.		Native bee	*Hylaeus*	sp.	4824	
5/31/2017	22	COMM	*Heteromeles*	sp.		Native bee	*Andrena*	sp.	4826	
5/31/2017	22	COMM	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	4827	
5/31/2017	22	COMM	*Brassica*	sp.		Native bee	*Andrena*	sp.	4828	
5/31/2017	22	COMM	*Brassica*	sp.		Native bee	*Halictus*	sp.	4829	
5/31/2017	22	COTT	*Myoporum*	*parvifolium*		Honey bee	*Apis*	*melifera*	4830	
5/31/2017	22	COTT	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	4831	
5/31/2017	22	COTT	*Fremontodendron*	sp.		Native bee	*Xylocopa*	sp.	4832	
5/31/2017	22	COTT	*Fremontodendron*	sp.		Honey bee	*Apis*	*melifera*	4833	
5/31/2017	22	YOLO	*Brassica*	sp.		Native bee	*Halictus*	sp.	4834	
5/31/2017	22	YOLO	*Brassica*	sp.		Native bee	*Hylaeus*	sp.	4837	

5/31/2017	22	YOLO	Brassica	sp.		Native bee	Lasioglossum	sp.	4836
5/31/2017	22	YOLO	Rosa	sp.		Honey bee	Apis	melifera	4838
5/31/2017	22	MOUN	Trifolium	sp.		Honey bee	Apis	melifera	4839
5/31/2017	22	GAZE	Gomphostigma	virgatum		Native bee	Megachile	sp.	4840
5/31/2017	22	GAZE	Salvia	sp.		Native bee	Xylocopa	sp.	4843
5/31/2017	22	GAZE	Salvia	sp.		Native bee	Megachile	sp.	4844
5/31/2017	22	GAZE	Origanum	sp.		Native bee	Anthidium	sp.	4845
5/31/2017	22	GAZE	Gaura	lindheimeri		Honey bee	Apis	melifera	4846
5/31/2017	22	GAZE	Gaura	lindheimeri		Native bee	Megachile	sp.	4847
5/31/2017	22	GAZE	Gaura	lindheimeri		Native bee	Hylaeus	sp.	4848
5/31/2017	22	GAZE	Gaura	lindheimeri		Native bee	Andrena	sp.	4849
5/31/2017	22	GAZE	Brugmansia	sp.		Honey bee	Apis	melifera	4850
5/31/2017	22	GAZE	Myrtus	sp.		Honey bee	Apis	melifera	4851
5/31/2017	22	GAZE	Myrtus	sp.		Native bee	Xylocopa	sp.	4852
5/31/2017	22	GAZE	Crinodendron	patagua		Honey bee	Apis	melifera	4853
5/31/2017	22	GAZE	Erigeron	karvinskianus		Native bee	Lasioglossum	sp.	4857
5/31/2017	22	GAZE	Erigeron	karvinskianus		Native bee	Halictus	sp.	4859
5/31/2017	22	GAZE	Erigeron	karvinskianus		Native bee	Andrena	sp.	4860
5/31/2017	22	GAZE	Rosa	sp.		Native bee	Lasioglossum	sp.	4861
5/31/2017	22	GAZE	Erigeron	karvinskianus		Honey bee	Apis	melifera	4865
5/31/2017	22	GAZE	Ligustrum	sp.		Honey bee	Apis	melifera	4866
5/31/2017	22	GAZE	Tilia	sp.		Honey bee	Apis	melifera	4868
5/31/2017	22	GAZE	Abutilon	sp.		Honey bee	Apis	melifera	4870
5/31/2017	22	STOR	Hydrangea	quercifolia		Honey bee	Apis	melifera	4871
5/31/2017	22	STOR	Nandina	domestica		Bumble bee	Bombus	sp.	4874
5/31/2017	22	STOR	Heuchera	rosada		Bumble bee	Bombus	sp.	4875
5/31/2017	22	STOR	Heuchera	rosada		Native bee	Lasioglossum	sp.	4876
5/31/2017	22	STOR	Stachys	byzantina		Bumble bee	Bombus	sp.	4881
5/31/2017	22	STOR	Stachys	byzantina		Honey bee	Apis	melifera	4882
5/31/2017	22	STOR	Salvia	greggii	'Chiffon'	Bumble bee	Bombus	sp.	4883
5/31/2017	22	STOR	Scabiosa	sp.		Honey bee	Apis	melifera	4884
5/31/2017	22	STOR	Penstemon	sp.		Honey bee	Apis	melifera	4886
5/31/2017	22	STOR	Stachys	byzantina		Native bee	Anthidium	sp.	4887
5/31/2017	22	STOR	Nepeta	sp.		Honey bee	Apis	melifera	4888
5/31/2017	22	STOR	Ballota	sp.		Bumble bee	Bombus	sp.	4889
5/31/2017	22	STOR	Scabiosa	sp.		Native bee	Lasioglossum	sp.	4890
5/31/2017	22	STOR	Ballota	sp.		Honey bee	Apis	melifera	4893
5/31/2017	22	STOR	Lavandula	sp.	'Marshwood'	Honey bee	Apis	melifera	4894
5/31/2017	22	STOR	Limonium	platyphyllum		Honey bee	Apis	melifera	4896
5/31/2017	22	STOR	Limonium	platyphyllum		Native bee	Megachile	sp.	4897
5/31/2017	22	STOR	Salvia	jamensis		Native bee	Xylocopa	sp.	4899
5/31/2017	22	STOR	Salvia	sp.	'Basalmisp'	Honey bee	Apis	melifera	4901
5/31/2017	22	STOR	Chilopsis	linearis		Honey bee	Apis	melifera	4902
5/31/2017	22	STOR	Opuntia	sp.		Native bee	Lasioglossum	sp.	4908
5/31/2017	22	STOR	Buddleja		'Ellen's Choice'	Honey bee	Apis	melifera	4911
5/31/2017	22	STOR	Teucrium	x lucidrys		Honey bee	Apis	melifera	4912
5/31/2017	22	STOR	Malva	sp.		Honey bee	Apis	melifera	4913
5/31/2017	22	STOR	Teucrium	x lucidrys		Native bee	Xylocopa	sp.	4915
5/31/2017	22	STOR	Opuntia	compressa		Honey bee	Apis	melifera	4916
5/31/2017	22	STOR	Opuntia	compressa		Native bee	Diadasia	sp.	4918
5/31/2017	22	STOR	Scabiosa	sp.		Bumble bee	Bombus	sp.	4927
5/31/2017	22	STOR	Scabiosa	sp.		Native bee	Andrena	sp.	4928
5/31/2017	22	STOR	Limonium	platyphyllum		Native bee	Lasioglossum	sp.	4932
5/31/2017	22	STOR	Erigeron	karvinskianus		Honey bee	Apis	melifera	4933
5/31/2017	22	STOR	Erigeron	karvinskianus		Native bee	Megachile	sp.	4934
5/31/2017	22	STOR	Origanum	sp.		Honey bee	Apis	melifera	4935
5/31/2017	22	STOR	Opuntia	sp.		Native bee	Megachile	sp.	4936
5/31/2017	22	STOR	Verbena	bonariensis		Honey bee	Apis	melifera	4937
5/31/2017	22	STOR	Erigeron	karvinskianus		Native bee	Lasioglossum	sp.	4938
5/31/2017	22	STOR	Erigeron	karvinskianus		Native bee	Halictus	sp.	4940
5/31/2017	22	STOR	Geranium	sanguineum	var. striatum	Honey bee	Apis	melifera	4941
5/31/2017	22	STOR	Alstroemeria	sp.		Honey bee	Apis	melifera	4942
5/31/2017	22	EASI	Geranium		'Biokovo'	Honey bee	Apis	melifera	4943
5/31/2017	22	EASI	Geranium		'Biokovo'	Bumble bee	Bombus	sp.	4944
5/31/2017	22	EASI	Bulbine	frutescens		Honey bee	Apis	melifera	4945
5/31/2017	22	EASI	Teucrium	hyrcanium		Honey bee	Apis	melifera	4946
5/31/2017	22	EASI	Salvia		'Hot Lips'	Honey bee	Apis	melifera	4948
5/31/2017	22	EASI	Erigeron	karvinskianus		Native bee	Andrena	sp.	4950
5/31/2017	22	EASI	Erigeron	karvinskianus		Native bee	Halictus	sp.	4951
5/31/2017	22	EASI	Lotus	hirstus		Honey bee	Apis	melifera	4952
5/31/2017	22	EASI	Salvia	sp.		Native bee	Xylocopa	sp.	4953
5/31/2017	22	EASI	Erigeron		'Wayne Roderick'	Native bee	Megachile	sp.	4955
5/31/2017	22	EASI	Erigeron		'Wayne Roderick'	Honey bee	Apis	melifera	4956
5/31/2017	22	EASI	Lavandula	sp.		Honey bee	Apis	melifera	4958
5/31/2017	22	EASI	Salvia	apiana		Bumble bee	Bombus	sp.	4961
5/31/2017	22	EASI	Salvia	sp.		Native bee	Melissodes	sp.	4962
5/31/2017	22	EASI	Sedum	sp.		Honey bee	Apis	melifera	4963
5/31/2017	22	EASI	Lavandula		'Goodwin's Greek Grey'	Bumble bee	Bombus	sp.	4964
5/31/2017	22	EASI	Crinodendron	patagua		Honey bee	Apis	melifera	4965
5/31/2017	22	EASI	Nepeta	sp.		Honey bee	Apis	melifera	4966

5/31/2017	22	EASI	*Lavandula*	sp.		Native bee	*Xylocopa*	sp.	4967	
5/31/2017	22	EASI	*Heteromeles*	*arbutifolia*		Honey bee	*Apis*	*melifera*	4969	
5/31/2017	22	EASI	*Salvia*	*lanceolata*		Native bee	*Megachile*	sp.	4970	
5/31/2017	22	EASI	*Sedum*	sp.		Native bee	*Megachile*	sp.	4974	
5/31/2017	22	EASI	*Eriogonum*	*grande*	var. rubescens	Honey bee	*Apis*	*melifera*	4976	
5/31/2017	22	EASI	*Eriogonum*	*grande*	var. rubescens	Native bee	*Andrena*	sp.	4978	
5/31/2017	22	EASI	*Penstemon*	*margarita*	'BOP'	Bumble bee	*Bombus*	sp.	4981	
5/31/2017	22	EASI	*Penstemon*	*margarita*	'BOP'	Honey bee	*Apis*	*melifera*	4982	
5/31/2017	22	EASI	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	4983	
5/31/2017	22	EASI	*Geum*		'Totally Tangerine'	Native bee	*Andrena*	sp.	4985	
5/31/2017	22	EASI	*Geum*		'Totally Tangerine'	Native bee	*Halictus*	sp.	4986	
5/31/2017	22	EASI	*Geum*		'Totally Tangerine'	Native bee	*Ceratina*	sp.	4990	
5/31/2017	22	ERIC_N	*Heteromeles*	sp.		Native bee	*Andrena*	sp.	4991	
5/31/2017	22	ERIC_N	*Heteromeles*	sp.		Honey bee	*Apis*	*melifera*	4992	
5/31/2017	22	ERIC_N	*Heteromeles*	sp.		Native bee	*Halictus*	sp.	4993	
5/31/2017	22	ERIC_N	*Heteromeles*	sp.		Native bee	*Hoplitis*	sp.	4995	COLLECTED
5/31/2017	22	AUST_N	*Melaleuca*	*styphelioides*		Honey bee	*Apis*	*melifera*	4997	
5/31/2017	22	AUST_N	*Melaleuca*	*styphelioides*		Bumble bee	*Bombus*	sp.	4998	
5/31/2017	22	AUST_N	*Melaleuca*	*styphelioides*		Native bee	*Xylocopa*	sp.	4999	
5/31/2017	22	AUST_N	*Melaleuca*	*styphelioides*		Native bee	*Megachile*	sp.	5000	
5/31/2017	22	AUST_N	*Eucalyptus*	sp.		Bumble bee	*Bombus*	sp.	5002	
5/31/2017	22	AUST_N	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	5003	
5/31/2017	22	AUST_N	*Myoporum*	*parvifolium*		Honey bee	*Apis*	*melifera*	5004	
5/31/2017	22	AUST_N	*Sonchus*	sp.		Native bee	*Halictus*	sp.	5005	
5/31/2017	22	AUST_N	*Dianella*	sp.		Bumble bee	*Bombus*	sp.	5007	
5/31/2017	22	AUST_N	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	5008	
5/31/2017	22	AUST_N	*Grevillea*	sp.		Native bee	*Xylocopa*	sp.	5009	
5/31/2017	22	AUST_N	*Grevillea*	sp.		Bumble bee	*Bombus*	sp.	5010	
5/31/2017	22	AUST_N	*Dianella*	sp.		Native bee	*Xylocopa*	sp.	5011	
5/31/2017	22	AUST_N	*Convolvulus*	sp.		Honey bee	*Apis*	*melifera*	5013	
5/31/2017	22	AUST_N	*Westringia*	sp.		Native bee	*Andrena*	sp.	5016	COLLECTED
5/31/2017	22	AUST_N	*Westringia*	sp.		Native bee	*Megachile*	sp.	5017	
5/31/2017	22	AUST_S	*Apocynum*	*cannabinum*		Honey bee	*Apis*	*melifera*	5018	
5/31/2017	22	AUST_S	*Apocynum*	*cannabinum*		Native bee	*Megachile*	sp.	5019	
5/31/2017	22	AUST_S	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	5021	
5/31/2017	22	AUST_S	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	5022	
5/31/2017	22	AUST_S	*Hebe*	sp.		Honey bee	*Apis*	*melifera*	5023	
5/31/2017	22	AUST_S	*Hebe*	sp.		Native bee	*Megachile*	sp.	5027	
5/31/2017	22	AUST_S	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	5028	
5/31/2017	22	AUST_S	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	5030	
5/31/2017	22	AUST_S	*Grevillea*	sp.		Native bee	*Xylocopa*	sp.	5031	
5/31/2017	22	AUST_S	*Grevillea*	sp.		Native bee	*Andrena*	sp.	5032	
5/31/2017	22	AUST_S	*Grevillea*	sp.		Native bee	*Megachile*	sp.	5033	
5/31/2017	22	AUST_S	*Albizia*	*kalkora*		Honey bee	*Apis*	*melifera*	5034	
5/31/2017	22	AUST_S	*Rhigozum*	*obvatum*		Honey bee	*Apis*	*melifera*	5035	
5/31/2017	22	AUST_S	*Rhigozum*	*obvatum*		Native bee	*Xylocopa*	sp.	5036	
5/31/2017	22	AUST_S	*Rhigozum*	*obvatum*		Bumble bee	*Bombus*	sp.	5037	
5/31/2017	22	AUST_S	*Parkinsonia*	*aculeata*		Native bee	*Xylocopa*	sp.	5039	
5/31/2017	22	AUST_S	*Parkinsonia*	*aculeata*		Native bee	*Megachile*	sp.	5041	COLLECTED
5/31/2017	22	AUST_S	*Parkinsonia*	*aculeata*		Honey bee	*Apis*	*melifera*	5042	
5/31/2017	22	AUST_S	*Pycnosorus*	*globosus*		Native bee	*Halictus*	sp.	5043	
5/31/2017	22	AUST_S	*Dianella*	sp.		Native bee	*Xylocopa*	sp.	5044	
5/31/2017	22	ERIC_S	*Solanum*	sp.		Native bee	*Megachile*	sp.	5045	
5/31/2017	22	ERIC_S	*Solanum*	sp.		Native bee	*Agapostemon*	sp.	5047	
5/31/2017	22	ERIC_S	*Solanum*	sp.		Native bee	*Anthidiellum*	sp.	5050	
5/31/2017	22	ERIC_S	*Solanum*	sp.		Native bee	*Andrena*	sp.	5051	
5/31/2017	22	ERIC_S	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	5052	
5/31/2017	22	ERIC_S	*Eschscholzia*	*californica*		Native bee	*Andrena*	sp.	5054	
5/31/2017	22	ERIC_S	*Heteromeles*	sp.		Bumble bee	*Bombus*	sp.	5055	
5/31/2017	22	ERIC_S	*Heteromeles*	sp.		Honey bee	*Apis*	*melifera*	5056	
5/31/2017	22	ERIC_S	*Heteromeles*	sp.		Native bee	*Halictus*	sp.	5058	
5/31/2017	22	ERIC_S	*Heteromeles*	sp.		Native bee	*Megachile*	sp.	5064	
5/31/2017	22	ERIC_S	*Heteromeles*	sp.		Native bee	*Andrena*	sp.	5066	
5/31/2017	22	AUST_S	*Myoporum*	*parvifolium*		Native bee	*Megachile*	sp.	5068	
5/31/2017	22	AUST_S	*Myoporum*	*parvifolium*		Native bee	*Halictus*	sp.	5069	
5/31/2017	22	AUST_S	*Myoporum*	*parvifolium*		Honey bee	*Apis*	*melifera*	5070	
5/31/2017	22	GATE	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	5071	
5/31/2017	22	GATE	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	5072	
5/31/2017	22	GATE	*Triteleia*	*laxa*		Honey bee	*Apis*	*melifera*	5075	
5/31/2017	22	GATE	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	5076	
5/31/2017	22	GATE	*Eschscholzia*	*californica*		Native bee	*Andrena*	sp.	5078	
5/31/2017	22	GATE	*Achillea*	*millefolium*		Native bee	*Halictus*	sp.	5080	
5/31/2017	22	GATE	*Asclepias*	sp.		Honey bee	*Apis*	*melifera*	5082	
5/31/2017	22	GATE	*Heteromeles*	sp.		Honey bee	*Apis*	*melifera*	5085	
5/31/2017	22	GATE	*Heteromeles*	sp.		Native bee	*Megachile*	sp.	5086	
5/31/2017	22	GATE	*Heteromeles*	sp.		Native bee	*Andrena*	sp.	5088	
5/31/2017	22	GATE	*Madia*	sp.		Native bee	*Andrena*	sp.	5089	
5/31/2017	22	GATE	*Madia*	sp.		Native bee	*Melissodes*	sp.	5090	COLLECTED
5/31/2017	22	GATE	*Madia*	sp.		Native bee	*Halictus*	sp.	5091	
5/31/2017	22	GATE	*Apocynum*	*cannabinum*		Native bee	*Megachile*	sp.	5092	

5/31/2017	22	GATE	Craspedia	globosa		Native bee	Halictus	sp.	5094	
5/31/2017	22	GATE	Convolvulus	sp.		Native bee	Halictus	sp.	5095	
5/31/2017	22	AUST_S	Xerochrysum		'Mohave White'	Native bee	Halictus	sp.	5097	
5/31/2017	22	AUST_S	Xerochrysum		'Mohave White'	Native bee	Andrena	sp.	5099	
5/31/2017	22	AUST_S	Eremophila	maculata		Honey bee	Apis	melifera	5100	
5/31/2017	22	AUST_S	Eremophila	maculata		Native bee	Megachile	sp.	5101	
5/31/2017	22	AUST_S	Bursaria	spinosa		Honey bee	Apis	melifera	5102	
5/31/2017	22	AUST_S	Bursaria	spinosa		Native bee	Megachile	sp.	5103	
5/31/2017	22	AUST_S	Bursaria	spinosa		Native bee	Halictus	sp.	5104	
5/31/2017	22	A_ST	Eschscholzia	californica		Native bee	Halictus	sp.	5107	
5/31/2017	22	A_ST	Eschscholzia	californica		Bumble bee	Bombus	sp.	5108	
5/31/2017	22	A_ST	Triteleia	laxa		Honey bee	Apis	melifera	5109	
5/31/2017	22	REDW	Salvia	sp.		Native bee	Xylocopa	sp.	5110	
5/31/2017	22	REDW	Eschscholzia	californica		Native bee	Halictus	sp.	5111	
5/31/2017	22	REDW	Heteromeles	arbutifolia		Honey bee	Apis	melifera	5112	
5/31/2017	22	REDW	Heteromeles	arbutifolia		Native bee	Halictus	sp.	5113	
5/31/2017	22	REDW	Heteromeles	arbutifolia		Native bee	Megachile	sp.	5114	
5/31/2017	22	REDW	Heliotropium	curassavicum		Honey bee	Apis	melifera	5115	
5/31/2017	22	REDW	Heliotropium	curassavicum		Native bee	Andrena	sp.	5116	
5/31/2017	22	REDW	Heliotropium	curassavicum		Native bee	Ceratina	sp.	5117	
5/31/2017	22	REDW	Heliotropium	curassavicum		Native bee	Lasioglossum	sp.	5118	
5/31/2017	22	MWB	Aesculus	californica		Honey bee	Apis	melifera	5121	
5/31/2017	22	MWB	Heteromeles	arbutifolia		Honey bee	Apis	melifera	5122	
5/31/2017	22	MWB	Heteromeles	arbutifolia		Native bee	Hoplitis	sp.	5123	
5/31/2017	22	MWB	Heteromeles	arbutifolia		Native bee	Andrena	sp.	5124	
5/31/2017	22	MWB	Eriogonum	grande	v. rubescens	Native bee	Megachile	sp.	5125	
5/31/2017	22	MWB	Eriogonum	grande	v. rubescens	Bumble bee	Bombus	sp.	5126	
5/31/2017	22	MWB	Lycianthes	sp.		Bumble bee	Bombus	sp.	5127	
5/31/2017	22	MWB	Eriogonum	grande	v. rubescens	Native bee	Lasioglossum	sp.	5129	
5/31/2017	22	MWB	Encelia	californica		Native bee	Halictus	sp.	5130	
5/31/2017	22	MWB	Encelia	californica		Native bee	Andrena	sp.	5132	
5/31/2017	22	MWB	Venegasia	carpesoides		Native bee	Halictus	sp.	5134	
5/31/2017	22	MWB	Ipomoea	sp.		Native bee	Halictus	sp.	5137	
5/31/2017	22	MWB	Eschscholzia	californica		Honey bee	Apis	melifera	5138	
5/31/2017	22	MWB	Scrophularia	sp.		Bumble bee	Bombus	sp.	5142	
5/31/2017	22	MWB	Eschscholzia	californica		Bumble bee	Bombus	sp.	5143	
5/31/2017	22	MWB	Scrophularia	sp.		Honey bee	Apis	melifera	5145	
5/31/2017	22	MWB	Anemopsis	californica		Native bee	Hoplitis	sp.	5146	
5/31/2017	22	MWB	Sambucus	mexicana		Native bee	Andrena	sp.	5147	
5/31/2017	22	MWB	Salvia	sp.		Honey bee	Apis	melifera	5148	
5/31/2017	22	MWB	Salvia	sp.		Native bee	Anthidium	sp.	5151	
5/31/2017	22	MWB	Asclepias	sp.		Honey bee	Apis	melifera	5152	
5/31/2017	22	MWB	Phacelia	californica		Bumble bee	Bombus	sp.	5153	
5/31/2017	22	MWB	Triteleia	laxa		Honey bee	Apis	melifera	5154	
5/31/2017	22	MWB	Triteleia	laxa		Native bee	Lasioglossum	sp.	5155	
5/31/2017	22	MWB	Triteleia	laxa		Native bee	Agapostemon	sp.	5158	
5/31/2017	22	MWB	Triteleia	laxa		Native bee	Megachile	sp.	5161	
5/31/2017	22	MWB	Asclepias	sp.		Native bee	Hoplitis	sp.	5166	
5/31/2017	22	MWB	Salvia	sp.		Bumble bee	Bombus	sp.	5168	
5/31/2017	22	MWB	Isomeris	arborea		Honey bee	Apis	melifera	5169	
5/31/2017	22	MWB	Eschscholzia	californica		Native bee	Halictus	sp.	5170	
5/31/2017	22	MWB	Aquilegia	sp.		Bumble bee	Bombus	sp.	5171	
5/31/2017	22	MWB	Heuchera	rosada		Bumble bee	Bombus	sp.	5172	
5/31/2017	22	MWB	Aster	chilensis	'Point Saint'	Native bee	Halictus	sp.	5174	
5/31/2017	22	MWB	Aster	chilensis	'Point Saint'	Native bee	Andrena	sp.	5176	
5/31/2017	22	MWB	Penstemon	spectabilis		Native bee	Xylocopa	sp.	5179	
5/31/2017	22	MWB	Eriophyllum	lanatum		Native bee	Andrena	sp.	5180	
5/31/2017	22	MWB	Clarkia	unguiculata		Bumble bee	Bombus	sp.	5182	
5/31/2017	22	MWB	Eriophyllum	lanatum		Native bee	Lasioglossum	sp.	5184	
5/31/2017	22	MWB	Eriophyllum	lanatum		Native bee	Halictus	sp.	5187	
5/31/2017	22	MWB	Eriophyllum	lanatum		Native bee	Megachile	sp.	5188	
5/31/2017	22	MWB	Penstemon	heterophyllus	'Margarita BOP'	Native bee	Osmia	sp.	5189	COLLECTED
5/31/2017	22	MWB	Salvia	sp.		Native bee	Xylocopa	sp.	5191	
5/31/2017	22	MWB	Achillea	millefolium		Native bee	Halictus	sp.	5192	
5/31/2017	22	MWB	Achillea	millefolium		Native bee	Lasioglossum	sp.	5194	
5/31/2017	22	MWB	Erigeron		'Wayne Roderick'	Native bee	Megachile	sp.	5197	
5/31/2017	22	MWB	Achillea	millefolium		Native bee	Hoplitis	sp.	5198	
5/31/2017	22	MWB	Grindelia	sp.		Native bee	Halictus	sp.	5199	
5/31/2017	22	MWB	Grindelia	sp.		Native bee	Andrena	sp.	5202	
5/31/2017	22	MWB	Clarkia	sp.		Native bee	Megachile	sp.	5210	
5/31/2017	22	MWB	Clarkia	sp.		Native bee	Xylocopa	sp.	5215	
5/31/2017	22	MWB	Lupinus	sp.		Bumble bee	Bombus	sp.	5216	
5/31/2017	22	MWB	Cleome	sp.		Native bee	Xylocopa	sp.	5217	
5/31/2017	22	MWB	Cleome	sp.		Native bee	Megachile	sp.	5218	
5/31/2017	22	MWB	Salvia	sp.		Native bee	Melissodes	sp.	5220	
5/31/2017	22	MWB	Fremontodendron	sp.		Honey bee	Apis	melifera	5222	
5/31/2017	22	MWB	Fremontodendron	sp.		Native bee	Halictus	sp.	5223	
5/31/2017	22	MWB	Fremontodendron	sp.		Native bee	Lasioglossum	sp.	5225	
5/31/2017	22	MWB	Heliotropium	curassavicum		Native bee	Lasioglossum	sp.	5226	
5/31/2017	22	MWB	Heliotropium	curassavicum		Honey bee	Apis	melifera	5227	

5/31/2017	22	MWB	*Heliotropium*	*curassavicum*		Native bee	*Hoplitis*	sp.	5230	COLLECTED
5/31/2017	22	MWB	*Monarda*	sp.		Honey bee	*Apis*	*melifera*	5233	
5/31/2017	22	MWB	*Rosa*	*californica*		Bumble bee	*Bombus*	sp.	5234	
5/31/2017	22	MRAK	*Lyonothamnus*	sp.		Honey bee	*Apis*	*melifera*	5235	
5/31/2017	22	MRAK	*Trachelospermum*	*jasminoides*		Honey bee	*Apis*	*melifera*	5236	
5/31/2017	22	MRAK	*Salvia*		'Blauhugel'	Honey bee	*Apis*	*melifera*	5237	
5/31/2017	22	MRAK	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	5238	
5/31/2017	22	MRAK	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	5239	
5/31/2017	22	MRAK	*Gaillardia*	sp.		Bumble bee	*Bombus*	sp.	5241	
5/31/2017	22	MRAK	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	5242	
5/31/2017	22	MRAK	*Gaura*	*lindheimeri*		Native bee	*Melissodes*	sp.	5245	
5/31/2017	22	MRAK	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	5247	
5/31/2017	22	MRAK	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	5248	
5/31/2017	22	MRAK	*Salvia*		'Blauhugel'	Bumble bee	*Bombus*	sp.	5249	
5/31/2017	22	MRAK	*Magnolia*	*grandiflora*		Honey bee	*Apis*	*melifera*	5251	
5/31/2017	22	MRAK	*Heteromeles*	*arbutifolia*		Honey bee	*Apis*	*melifera*	5252	
5/31/2017	22	MRAK	*Heteromeles*	*arbutifolia*		Native bee	*Andrena*	sp.	5253	
5/31/2017	22	MRAK	*Heteromeles*	*arbutifolia*		Native bee	*Melissodes*	sp.	5258	
5/31/2017	22	MRAK	*Aesculus*	*indica*		Native bee	*Xylocopa*	sp.	5259	
5/31/2017	22	MRAK	*Aesculus*	*indica*		Honey bee	*Apis*	*melifera*	5260	
5/31/2017	22	MRAK	*Abelia*	sp.		Honey bee	*Apis*	*melifera*	5262	
5/31/2017	22	MRAK	*Abelia*	sp.		Native bee	*Xylocopa*	sp.	5263	
5/31/2017	22	MRAK	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	5264	
5/31/2017	22	MRAK	*Scabiosa*	sp.		Honey bee	*Apis*	*melifera*	5265	
5/31/2017	22	MRAK	*Scabiosa*	sp.		Native bee	*Halictus*	sp.	5266	
5/31/2017	22	MRAK	*Hypericum*	sp.		Honey bee	*Apis*	*melifera*	5267	
5/31/2017	22	MRAK	*Hypericum*	sp.		Native bee	*Hoplitis*	sp.	5269	
5/31/2017	22	MRAK	*Hypericum*	sp.		Bumble bee	*Bombus*	sp.	5272	
5/31/2017	22	MRAK	*Hypericum*	sp.		Native bee	*Xylocopa*	sp.	5274	
5/31/2017	22	SOAF	*Grewia*	*occidentalis*		Native bee	*Xylocopa*	sp.	5275	
5/31/2017	22	SOAF	*Grewia*	*occidentalis*		Native bee	*Megachile*	sp.	5279	
5/31/2017	22	SOAF	*Athanasia*	*dentata*		Native bee	*Halictus*	sp.	5280	
5/31/2017	22	SOAF	*Athanasia*	*dentata*		Native bee	*Hoplitis*	sp.	5281	
5/31/2017	22	SOAF	*Scabiosa*	sp.		Bumble bee	*Bombus*	sp.	5282	
5/31/2017	22	SOAF	*Scabiosa*	sp.		Honey bee	*Apis*	*melifera*	5283	
5/31/2017	22	SOAF	*Myoporum*	*parvifolium*		Honey bee	*Apis*	*melifera*	5284	
5/31/2017	22	SOAF	*Athanasia*	*acerosa*		Native bee	*Lasioglossum*	sp.	5285	
5/31/2017	22	MEDI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	5286	
5/31/2017	22	MEDI	*Lavandula*	sp.		Bumble bee	*Bombus*	sp.	5287	
5/31/2017	22	MEDI	*Pterocephalus*	*dumetorum*		Honey bee	*Apis*	*melifera*	5288	
5/31/2017	22	MEDI	*Clematis*	sp.		Honey bee	*Apis*	*melifera*	5289	
5/31/2017	22	MEDI	*Cistus*	sp.		Native bee	*Melissodes*	sp.	5290	
5/31/2017	22	MEDI	*Cistus*	sp.		Honey bee	*Apis*	*melifera*	5292	
5/31/2017	22	MEDI	*Brassica*	sp.		Native bee	*Halictus*	sp.	5293	
5/31/2017	22	MEDI	*Cistus*	sp.		Native bee	*Halictus*	sp.	5294	
5/31/2017	22	MEDI	*Cistus*	sp.		Native bee	*Megachile*	sp.	5295	
5/31/2017	22	MEDI	*Santolina*	sp.		Native bee	*Megachile*	sp.	5297	
5/31/2017	22	MEDI	*Perovskia*	*atriplicifolia*		Honey bee	*Apis*	*melifera*	5298	
5/31/2017	22	MEDI	*Perovskia*	*atriplicifolia*		Native bee	*Xylocopa*	sp.	5299	
5/31/2017	22	MEDI	*Perovskia*	*atriplicifolia*		Native bee	*Hoplitis*	sp.	5301	
5/31/2017	22	MEDI	*Origanum*	*vulgare*		Native bee	*Hoplitis*	sp.	5305	
5/31/2017	22	MEDI	*Salvia*	*caneriensis*		Honey bee	*Apis*	*melifera*	5306	
5/31/2017	22	MEDI	*Salvia*	*caneriensis*		Bumble bee	*Bombus*	sp.	5308	
5/31/2017	22	MEDI	*Salvia*	*caneriensis*		Native bee	*Megachile*	sp.	5309	
5/31/2017	22	MEDI	*Buddleja*	*davidii*		Honey bee	*Apis*	*melifera*	5311	
5/31/2017	22	MEDI	*Santolina*	sp.		Honey bee	*Apis*	*melifera*	5312	
5/31/2017	22	MEDI	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	5313	
5/31/2017	22	MEDI	*Myoporum*	*parvifolium*		Honey bee	*Apis*	*melifera*	5314	
5/31/2017	22	MEDI	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	5315	
5/31/2017	22	MEDI	*Teucrium*	sp.		Native bee	*Anthidium*	sp.	5318	
5/31/2017	22	MEDI	*Teucrium*	sp.		Honey bee	*Apis*	*melifera*	5319	
5/31/2017	22	MEDI	*Lavatera*	sp.		Honey bee	*Apis*	*melifera*	5320	
5/31/2017	22	ARGE	*Malva*	sp.		Honey bee	*Apis*	*melifera*	5321	
5/31/2017	22	ARGE	*Verbena*	sp.		Honey bee	*Apis*	*melifera*	5322	
5/31/2017	22	ARGE	*Senecio*	sp.		Honey bee	*Apis*	*melifera*	5323	
5/31/2017	22	ARGE	*Senecio*	sp.		Native bee	*Halictus*	sp.	5324	
5/31/2017	22	ARGE	*Erythrina*	*crista-galli*		Honey bee	*Apis*	*melifera*	5326	
5/31/2017	22	ARGE	*Senecio*	sp.		Bumble bee	*Bombus*	sp.	5329	
5/31/2017	22	SWUS	*Salvia*	sp.		Native bee	*Melissodes*	sp.	5336	COLLECTED
5/31/2017	22	SWUS	*Salvia*	sp.		Native bee	*Halictus*	sp.	5339	
5/31/2017	22	SWUS	*Sedum*	sp.		Native bee	*Megachile*	sp.	5340	
5/31/2017	22	SWUS	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	5341	
5/31/2017	22	SWUS	*Russelia*	*equisetiformis*		Honey bee	*Apis*	*melifera*	5342	
5/31/2017	22	SWUS	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	5348	
5/31/2017	22	SWUS	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	5349	
5/31/2017	22	SWUS	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	5350	
5/31/2017	22	SWUS	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	5351	COLLECTED
5/31/2017	22	SWUS	*Tecoma*	sp.		Native bee	*Peponapis*	sp.	5352	
5/31/2017	22	SWUS	*Tecoma*		'Sunrise'	Native bee	*Halictus*	sp.	5354	
5/31/2017	22	SWUS	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	5355	

5/31/2017	22	SWUS	*Tecoma*	*stans*	'Gold Star'	Native bee	*Megachile*	sp.	5362	
5/31/2017	22	SWUS	*Gaillardia*	sp.		Native bee	*Lasioglossum*	sp.	5364	
5/31/2017	22	SWUS	*Leucophyllum*	*frutescens*		Honey bee	*Apis*	*melifera*	5365	
5/31/2017	22	SWUS	*Penstemon*	sp.		Native bee	*Hylaeus*	sp.	5366	
5/31/2017	22	SWUS	*Penstemon*	sp.		Honey bee	*Apis*	*melifera*	5367	
5/31/2017	22	SWUS	*Amorpha*	*texana*		Honey bee	*Apis*	*melifera*	5368	
5/31/2017	22	SWUS	*Amorpha*	*texana*		Bumble bee	*Bombus*	sp.	5369	
5/31/2017	22	SWUS	*Amorpha*	*texana*		Native bee	*Megachile*	sp.	5370	
5/31/2017	22	SWUS	*Mimosa*	sp.		Native bee	*Lasioglossum*	sp.	5373	
5/31/2017	22	SWUS	X *Chitalpa*	*tashkentensis*	'Pink Dawn'	Honey bee	*Apis*	*melifera*	5374	
5/31/2017	22	SWUS	*Nolina*	sp.		Native bee	*Megachile*	sp.	5376	
5/31/2017	22	SWUS	*Nolina*	sp.		Native bee	*Halictus*	sp.	5381	
5/31/2017	22	SWUS	*Leucophyllum*	*frutescens*		Native bee	*Lasioglossum*	sp.	5382	
5/31/2017	22	SWUS	*Cercidium*	*microphyllum*		Native bee	*Xylocopa*	sp.	5383	
5/31/2017	22	SWUS	*Cercidium*	*microphyllum*		Native bee	*Megachile*	sp.	5384	
5/31/2017	22	SWUS	*Cercidium*	*microphyllum*		Honey bee	*Apis*	*melifera*	5385	
5/31/2017	22	SWUS	*Chitalpa*	sp.		Honey bee	*Apis*	*melifera*	5390	
5/31/2017	22	CONI	*Heteromeles*	sp.		Honey bee	*Apis*	*melifera*	5392	
5/31/2017	22	CONI	*Heteromeles*	sp.		Native bee	*Andrena*	sp.	5396	
5/31/2017	22	CONI	*Heteromeles*	sp.		Native bee	*Stelis*	sp.	5397	
5/31/2017	22	CONI	*Heteromeles*	sp.		Native bee	*Megachile*	sp.	5398	
5/31/2017	22	CONI	*Heteromeles*	sp.		Honey bee	*Apis*	*melifera*	5399	
5/31/2017	22	CONI	*Heteromeles*	sp.		Native bee	*Megachile*	sp.	5400	
5/31/2017	22	CONI	*Heteromeles*	sp.		Native bee	*Xylocopa*	sp.	5401	
5/31/2017	22	CONI	*Heteromeles*	sp.		Native bee	*Melissodes*	sp.	5402b	
5/31/2017	22	CONI	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	5402	
5/31/2017	22	CONI	*Nepeta*	sp.		Native bee	*Hylaeus*	sp.	5405	
5/31/2017	22	AHQ	*Heteromeles*	sp.		Honey bee	*Apis*	*melifera*	5407	
5/31/2017	22	AHQ	*Heteromeles*	sp.		Native bee	*Andrena*	sp.	5408	
5/31/2017	22	AHQ	*Heteromeles*	sp.		Native bee	*Hoplitis*	sp.	5411	
5/31/2017	22	DESE	*Chitalpa*	sp.		Bumble bee	*Bombus*	sp.	5412	
5/31/2017	22	DESE	*Chitalpa*	sp.		Native bee	*Andrena*	sp.	5414	
5/31/2017	22	DESE	*Chitalpa*	sp.		Honey bee	*Apis*	*melifera*	5415	
5/31/2017	22	DESE	*Acacia*	*greggii*		Honey bee	*Apis*	*melifera*	5416	
5/31/2017	22	DESE	*Acacia*	*greggii*		Native bee	*Megachile*	sp.	5417	
5/31/2017	22	DESE	*Encelia*	sp.		Native bee	*Melissodes*	sp.	5418	
5/31/2017	22	DESE	*Opuntia*	sp.		Native bee	*Diadasia*	sp.	5421	COLLECTED
5/31/2017	22	DESE	*Baileya*	*multiradiata*		Native bee	*Halictus*	sp.	5422	
5/31/2017	22	DESE	*Baileya*	*multiradiata*		Native bee	*Hoplitis*	sp.	5425	
5/31/2017	22	DESE	*Baileya*	*multiradiata*		Native bee	*Andrena*	sp.	5426	
5/31/2017	22	DESE	*Eschscholzia*	*californica*		Native bee	*Anthidiellum*	sp.	5428	COLLECTED
5/31/2017	22	DESE	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	5434	
5/31/2017	22	DESE	*Bahiopsis*	*parishii*		Native bee	*Andrena*	sp.	5435	
5/31/2017	22	DESE	*Sphaeralcea*	*ambigua*		Native bee	*Megachile*	sp.	5437	
5/31/2017	22	DESE	*Sphaeralcea*	*ambigua*		Native bee	*Diadasia*	sp.	5438	
5/31/2017	22	DESE	*Sphaeralcea*	*ambigua*		Honey bee	*Apis*	*melifera*	5439	
5/31/2017	22	DESE	*Sphaeralcea*	*ambigua*		Native bee	*Agapostemon*	sp.	5441	
5/31/2017	22	KING	*Salvia*	sp.		Native bee	*Anthidium*	sp.	5442	
5/31/2017	22	KING	*Aesculus*	sp.		Honey bee	*Apis*	*melifera*	5443	
6/9/2017	23	ERIC_N	*Heteromeles*	*arbutifolia*		Honey bee	*Apis*	*melifera*	5445	
6/9/2017	23	ERIC_N	*Heteromeles*	*arbutifolia*		Native bee	*Halictus*	sp.	5446	
6/9/2017	23	AUST_N	*Hebe*		'Champagne'	Honey bee	*Apis*	*melifera*	5448	
6/9/2017	23	AUST_N	*Callistemon*	*salignus*		Bumble bee	*Bombus*	sp.	5449	
6/9/2017	23	AUST_N	*Myoporum*	*parvifolium*		Honey bee	*Apis*	*melifera*	5450	
6/9/2017	23	AUST_N	*Sonchus*	sp.		Native bee	*Halictus*	sp.	5452	
6/9/2017	23	AUST_N	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	5453	
6/9/2017	23	AUST_N	*Grevillea*	sp.		Native bee	*Xylocopa*	sp.	5454	
6/9/2017	23	AUST_N	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	5455	
6/9/2017	23	AUST_S	*Apocynum*	*cannabinum*		Honey bee	*Apis*	*melifera*	5456	
6/9/2017	23	AUST_S	*Eremophila*	sp.		Honey bee	*Apis*	*melifera*	5457	
6/9/2017	23	AUST_S	*Hebe*	sp.		Native bee	*Anthophora*	sp.	5458	
6/9/2017	23	AUST_S	*Ligustrum*	*quihoui*		Honey bee	*Apis*	*melifera*	5459	
6/9/2017	23	AUST_S	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	5460	
6/9/2017	23	AUST_S	*Grevillea*	sp.		Native bee	*Xylocopa*	sp.	5461	
6/9/2017	23	AUST_S	*Vitex*	*agnus-castus*		Bumble bee	*Bombus*	sp.	5462	
6/9/2017	23	AUST_S	*Vitex*	*agnus-castus*		Honey bee	*Apis*	*melifera*	5463	
6/9/2017	23	AUST_S	*Calliandra*	sp.		Honey bee	*Apis*	*melifera*	5464	
6/9/2017	23	AUST_S	*Parkinsonia*	sp.		Bumble bee	*Bombus*	sp.	5465	
6/9/2017	23	AUST_S	*Parkinsonia*	sp.		Native bee	*Xylocopa*	sp.	5466	
6/9/2017	23	AUST_S	*Parkinsonia*	sp.		Honey bee	*Apis*	*melifera*	5467	
6/9/2017	23	AUST_S	*Tipuana*	*tipu*		Bumble bee	*Bombus*	sp.	5468	
6/9/2017	23	AUST_S	*Tipuana*	*tipu*		Honey bee	*Apis*	*melifera*	5469	
6/9/2017	23	ERIC_S	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	5470	
6/9/2017	23	ERIC_S	*Eschscholzia*	*californica*		Native bee	*Andrena*	sp.	5471	
6/9/2017	23	ERIC_S	*Eschscholzia*	*californica*		Native bee	*Agapostemon*	sp.	5472	
6/9/2017	23	ERIC_S	*Heteromeles*	*arbutifolia*		Honey bee	*Apis*	*melifera*	5474	
6/9/2017	23	GATE	*Helianthus*	sp.		Native bee	*Halictus*	sp.	5475	
6/9/2017	23	GATE	*Eschscholzia*	*californica*		Bumble bee	*Bombus*	sp.	5476	
6/9/2017	23	GATE	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	5477	
6/9/2017	23	GATE	*Triteleia*	sp.		Bumble bee	*Bombus*	sp.	5479	

6/9/2017	23	GATE	*Madia*	sp.		Honey bee	*Apis*	*melifera*	5480
6/9/2017	23	GATE	*Madia*	sp.		Native bee	*Melissodes*	sp.	5482
6/9/2017	23	GATE	*Madia*	sp.		Native bee	*Halictus*	sp.	5481
6/9/2017	23	GATE	*Asclepias*	*fascicularis*		Honey bee	*Apis*	*melifera*	5486
6/9/2017	23	GATE	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	5488
6/9/2017	23	GATE	*Ipomoea*	sp.		Native bee	*Halictus*	sp.	5489
6/9/2017	23	AUST_S	*Bursaria*	*spinosa*		Honey bee	*Apis*	*melifera*	5490
6/9/2017	23	A_ST	*Eschscholzia*	*californica*		Bumble bee	*Bombus*	sp.	5491
6/9/2017	23	A_ST	*Adenostoma*	sp.		Bumble bee	*Bombus*	sp.	5492
6/9/2017	23	A_ST	*Eschscholzia*	*californica*		Native bee	*Melissodes*	sp.	5493
6/9/2017	23	A_ST	*Adenostoma*	sp.		Honey bee	*Apis*	*melifera*	5494
6/9/2017	23	A_ST	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	5495
6/9/2017	23	REDW	*Heteromeles*	*arbutifolia*		Native bee	*Halictus*	sp.	5496
6/9/2017	23	REDW	*Heteromeles*	*arbutifolia*		Honey bee	*Apis*	*melifera*	5497
6/9/2017	23	MWB	*Aquilegia*	sp.		Bumble bee	*Bombus*	sp.	5498
6/9/2017	23	MWB	*Heteromeles*	*arbutifolia*		Native bee	*Andrena*	sp.	5499
6/9/2017	23	MWB	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	5500
6/9/2017	23	MWB	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	5501
6/9/2017	23	MWB	*Eschscholzia*	*californica*		Native bee	*Andrena*	sp.	5502
6/9/2017	23	MWB	*Eriophyllum*	*lanatum*		Native bee	*Halictus*	sp.	5503
6/9/2017	23	MWB	*Heuchera*	sp.		Bumble bee	*Bombus*	sp.	5504
6/9/2017	23	MWB	*Eschscholzia*	*californica*		Bumble bee	*Bombus*	sp.	5506
6/9/2017	23	MWB	*Heteromeles*	*arbutifolia*		Honey bee	*Apis*	*melifera*	5507
6/9/2017	23	MWB	*Salvia*	sp.		Native bee	*Anthidium*	sp.	5508
6/9/2017	23	MWB	*Salvia*	sp.		Bumble bee	*Bombus*	sp.	5509
6/9/2017	23	MWB	*Asclepias*	sp.		Honey bee	*Apis*	*melifera*	5512
6/9/2017	23	MWB	*Asclepias*	sp.		Native bee	*Andrena*	sp.	5514
6/9/2017	23	MWB	*Asclepias*	sp.		Native bee	*Megachile*	sp.	5515
6/9/2017	23	MWB	*Asclepias*	sp.		Native bee	*Xylocopa*	sp.	5516
6/9/2017	23	MWB	*Triteleia*	*laxa*		Native bee	*Halictus*	sp.	5518
6/9/2017	23	MWB	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	5519
6/8/2017	22	MWB	*Eriogonum*	sp.		Native bee	*Megachile*	sp.	5521
6/9/2017	23	MWB	*Eriogonum*	sp.		Native bee	*Agapostemon*	sp.	5522
6/9/2017	23	MWB	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	5523
6/9/2017	23	MWB	*Fremontodendron*	sp.		Honey bee	*Apis*	*melifera*	5524
6/9/2017	23	MWB	*Fremontodendron*	sp.		Native bee	*Andrena*	sp.	5526
6/9/2017	23	MWB	*Salvia*	sp.		Native bee	*Melissodes*	sp.	5529
6/9/2017	23	MWB	*Salvia*	sp.		Native bee	*Halictus*	sp.	5532
6/9/2017	23	MWB	*Eschscholzia*	*californica*		Native bee	*Agapostemon*	sp.	5536
6/9/2017	23	MWB	*Aster*		'Purple Dome'	Native bee	*Halictus*	sp.	5537
6/9/2017	23	MWB	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	5538
6/9/2017	23	MWB	*Ipomoea*	sp.		Native bee	*Halictus*	sp.	5539
6/9/2017	23	MWB	*Eriogonum*	sp.		Bumble bee	*Bombus*	sp.	5541
6/9/2017	23	MWB	*Penstemon*	sp.		Bumble bee	*Bombus*	sp.	5543
6/9/2017	23	MWB	*Ipomoea*	sp.		Honey bee	*Apis*	*melifera*	5544
6/9/2017	23	MWB	*Salvia*	*apiana*		Bumble bee	*Bombus*	sp.	5545
6/9/2017	23	MWB	*Achillea*	*millefolium*		Native bee	*Halictus*	sp.	5549
6/9/2017	23	MWB	*Achillea*	*millefolium*		Native bee	*Hoplitis*	sp.	5550
6/9/2017	23	MWB	*Eucalyptus*	sp.		Native bee	*Halictus*	sp.	5552
6/9/2017	23	MWB	*Heteromeles*	*arbutifolia*		Native bee	*Megachile*	sp.	5553
6/9/2017	23	MWB	*Clarkia*	sp.		Native bee	*Lasioglossum*	sp.	5554
6/9/2017	23	MWB	*Salvia*	sp.		Native bee	*Megachile*	sp.	5558
6/9/2017	23	MWB	*Ipomoea*	sp.		Native bee	*Andrena*	sp.	5559
6/9/2017	23	MWB	*Ipomoea*	sp.		Native bee	*Hylaeus*	*longiceps*	5562
6/9/2017	23	MWB	*Heliotropium*	*curassavicum*		Native bee	*Andrena*	sp.	5563
6/9/2017	23	MWB	*Monarda*	sp.		Bumble bee	*Bombus*	sp.	5564
6/9/2017	23	MWB	*Heliotropium*	*curassavicum*		Honey bee	*Apis*	*melifera*	5565
6/9/2017	23	FOOT	*Eriogonum*	sp.		Native bee	*Andrena*	sp.	5566
6/9/2017	23	FOOT	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	5567
6/9/2017	23	FOOT	*Heteromeles*	sp.		Honey bee	*Apis*	*melifera*	5569
6/9/2017	23	FOOT	*Heteromeles*	sp.		Bumble bee	*Bombus*	sp.	5570
6/9/2017	23	FOOT	*Heteromeles*	sp.		Native bee	*Andrena*	sp.	5571
6/9/2017	23	FOOT	*Malosma*	*laurina*		Native bee	*Hoplitis*	sp.	5573
6/9/2017	23	FOOT	*Encelia*	*californica*		Native bee	*Megachile*	sp.	5575
6/9/2017	23	FOOT	*Encelia*	*californica*		Native bee	*Agapostemon*	sp.	5576
6/9/2017	23	FOOT	*Encelia*	*californica*		Native bee	*Halictus*	sp.	5577
6/9/2017	23	FOOT	*Encelia*	*californica*		Native bee	*Melissodes*	sp.	5579
6/9/2017	23	ENTR	*Salvia*	*chamaedryoides*		Honey bee	*Apis*	*melifera*	5580
6/9/2017	23	ENTR	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	5582
6/9/2017	23	ENTR	*Vitex*	sp.		Native bee	*Xylocopa*	sp.	5583
6/9/2017	23	ENTR	*Vitex*	sp.		Bumble bee	*Bombus*	sp.	5584
6/9/2017	23	ENTR	*Vitex*	sp.		Native bee	*Melissodes*	sp.	5585
6/9/2017	23	ENTR	*Vitex*	sp.		Native bee	*Megachile*	sp.	5587
6/9/2017	23	ENTR	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	5588
6/9/2017	23	ENTR	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	5589
6/9/2017	23	ENTR	*Salvia*	sp.		Native bee	*Svastra*	sp.	5592
6/9/2017	23	ENTR	*Salvia*	sp.		Native bee	*Melissodes*	sp.	5594
6/9/2017	23	ENTR	*Tagetes*	sp.		Native bee	*Halictus*	sp.	5595
6/9/2017	23	ENTR	*Heteromeles*	sp.		Native bee	*Lasioglossum*	sp.	5596
6/9/2017	23	ENTR	*Heteromeles*	sp.		Honey bee	*Apis*	*melifera*	5598

6/9/2017	23	ENTR	*Athanasia*	*acerosa*		Native bee	*Halictus*	sp.	5599	
6/9/2017	23	VALL	*Cephalanthus*	sp.		Honey bee	*Apis*	*melifera*	5601	
6/9/2017	23	VALL	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	5603	
6/9/2017	23	VALL	*Salvia*	sp.		Bumble bee	*Bombus*	sp.	5604	
6/9/2017	23	VALL	*Salvia*	sp.		Native bee	*Melissodes*	sp.	5606	
6/9/2017	23	VALL	*Salvia*	sp.		Native bee	*Megachile*	sp.	5608	
6/9/2017	23	CHIL	*Crinodendron*	*patugua*		Honey bee	*Apis*	*melifera*	5609	
6/9/2017	23	CHIL	*Alstroemeria*	sp.		Honey bee	*Apis*	*melifera*	5610	
6/9/2017	23	CHIL	*Alstroemeria*	sp.		Native bee	*Andrena*	sp.	5613	
6/9/2017	23	CHIL	*Alstroemeria*	sp.		Native bee	*Lasioglossum*	sp.	5615	
6/9/2017	23	CHIL	*Alstroemeria*	sp.		Native bee	*Megachile*	sp.	5618	
6/9/2017	23	CHIL	*Alstroemeria*	sp.		Bumble bee	*Bombus*	sp.	5619	
6/9/2017	23	CHIL	*Alstroemeria*	sp.		Native bee	*Agapostemon*	sp.	5620	
6/9/2017	23	LODG	*Chrysanthemum*		'Yellow Diamond'	Native bee	*Halictus*	sp.	5621	
6/9/2017	23	LODG	*Abelia*	sp.		Honey bee	*Apis*	*melifera*	5623	
6/9/2017	23	LODG	*Abelia*	sp.		Native bee	*Xylocopa*	sp.	5624	
6/9/2017	23	LODG	*Abelia*	sp.		Native bee	*Megachile*	sp.	5625	
6/9/2017	23	LODG	*Sambucus*	sp.		Native bee	*Andrena*	sp.	5626	
6/9/2017	23	LODG	*Brassica*	sp.		Native bee	*Halictus*	sp.	5627	
6/9/2017	23	LODG	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	5628	
6/9/2017	23	BOAT	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	5629	
6/9/2017	23	BOAT	*Abelia*	sp.		Honey bee	*Apis*	*melifera*	5632	
6/9/2017	23	BOAT	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	5633	
6/9/2017	23	BOAT	*Thymus*	sp.		Honey bee	*Apis*	*melifera*	5634	
6/9/2017	23	BOAT	*Teucrium*	sp.		Honey bee	*Apis*	*melifera*	5635	
6/9/2017	23	BOAT	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	5637	
6/9/2017	23	BOAT	*Teucrium*	sp.		Native bee	*Anthidium*	sp.	5638	COLLECTED
6/9/2017	23	COMM	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	5639	
6/9/2017	23	COMM	*Brassica*	sp.		Native bee	*Halictus*	sp.	5640	
6/9/2017	23	COMM	*Heteromeles*	sp.		Honey bee	*Apis*	*melifera*	5641	
6/9/2017	23	COMM	*Heteromeles*	sp.		Native bee	*Megachile*	sp.	5642	
6/9/2017	23	COMM	*Heteromeles*	sp.		Native bee	*Andrena*	sp.	5644	
6/9/2017	23	COTT	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	5645	
6/9/2017	23	COTT	*Myoporum*	sp.		Honey bee	*Apis*	*melifera*	5646	
6/9/2017	23	COTT	*Raphanus*	sp.		Honey bee	*Apis*	*melifera*	5647	
6/9/2017	23	COTT	*Fremontodendron*	sp.		Honey bee	*Apis*	*melifera*	5648	
6/9/2017	23	YOLO	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	5649	
6/9/2017	23	YOLO	*Brassica*	sp.		Native bee	*Halictus*	sp.	5650	
6/9/2017	23	YOLO	*Rosa*	*californica*		Native bee	*Hylaeus*	sp.	5651	
6/9/2017	23	YOLO	*Rosa*	*californica*		Bumble bee	*Bombus*	sp.	5652	
6/9/2017	23	YOLO	*Rosa*	*californica*		Honey bee	*Apis*	*melifera*	5653	
6/9/2017	23	MOUN	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	5654	
6/9/2017	23	GAZE	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	5655	
6/9/2017	23	GAZE	*Trifolium*	sp.		Bumble bee	*Bombus*	sp.	5656	
6/9/2017	23	GAZE	*Chrysanthemum*	sp.		Native bee	*Halictus*	sp.	5657	
6/9/2017	23	GAZE	*Teucrium*	*hyrcanium*	white flowered form	Native bee	*Anthidium*	sp.	5658	
6/9/2017	23	GAZE	*Duranta*	*erecta*	'alba'	Native bee	*Lasioglossum*	sp.	5659	
6/9/2017	23	GAZE	*Myrtus*	sp.		Honey bee	*Apis*	*melifera*	5660	
6/9/2017	23	GAZE	*Salvia*	*x sylvestris*	'Schneehugel'	Honey bee	*Apis*	*melifera*	5661	
6/9/2017	23	GAZE	*Erigeron*	*karvinskianus*		Native bee	*Halictus*	sp.	5662	
6/9/2017	23	GAZE	*Erigeron*	*karvinskianus*		Native bee	*Megachile*	sp.	5663	
6/9/2017	23	GAZE	*Tilia*	sp.		Honey bee	*Apis*	*melifera*	5664	
6/9/2017	23	STOR	*Stachys*	sp.		Bumble bee	*Bombus*	sp.	5665	COLLECTED
6/9/2017	23	STOR	*Stachys*	sp.		Honey bee	*Apis*	*melifera*	5666	
6/9/2017	23	STOR	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	5667	
6/9/2017	23	STOR	*Stachys*	sp.		Native bee	*Anthidium*	sp.	5670	
6/9/2017	23	STOR	*Penstemon*	sp.		Honey bee	*Apis*	*melifera*	5673	
6/9/2017	23	STOR	*Scabiosa*	sp.		Honey bee	*Apis*	*melifera*	5674	
6/9/2017	23	STOR	*Scabiosa*	sp.		Bumble bee	*Bombus*	sp.	5675	
6/9/2017	23	STOR	*Verbena*	*bonariensis*		Honey bee	*Apis*	*melifera*	5676	
6/9/2017	23	STOR	*Ballota*	sp.		Honey bee	*Apis*	*melifera*	5677	
6/9/2017	23	STOR	*Ballota*	sp.		Native bee	*Anthidium*	sp.	5679	
6/9/2017	23	STOR	*Ballota*	sp.		Native bee	*Megachile*	sp.	5680	
6/9/2017	23	STOR	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	5681	
6/9/2017	23	STOR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	5683	
6/9/2017	23	STOR	*Salvia*	sp.		Native bee	*Melissodes*	sp.	5684	
6/9/2017	23	STOR	*Limonium*	sp.		Honey bee	*Apis*	*melifera*	5685	
6/9/2017	23	STOR	*Limonium*	sp.		Native bee	*Megachile*	sp.	5686	
6/9/2017	23	STOR	*Lavandula*		'Goodwin Creek Grey'	Native bee	*Megachile*	sp.	5688	
6/9/2017	23	STOR	*Lavandula*		'Goodwin Creek Grey'	Honey bee	*Apis*	*melifera*	5689	
6/9/2017	23	STOR	*Rosa*	sp.		Native bee	*Melissodes*	sp.	5690	
6/9/2017	23	STOR	*Buddleja*	*davidii*		Honey bee	*Apis*	*melifera*	5691	
6/9/2017	23	STOR	*Teucrium*	*hyrcanium*		Honey bee	*Apis*	*melifera*	5693	
6/9/2017	23	STOR	*Tulbaghia*	sp.		Honey bee	*Apis*	*melifera*	5694	
6/9/2017	23	STOR	*Thymus*	*capitatus*		Honey bee	*Apis*	*melifera*	5695	
6/9/2017	23	STOR	*Teucrium*	*hyrcanium*	white flowered form	Bumble bee	*Bombus*	sp.	5696	
6/9/2017	23	STOR	*Opuntia*	sp.		Native bee	*Melissodes*	sp.	5697	COLLECTED
6/9/2017	23	STOR	*Chilopsis*	*linearis*		Honey bee	*Apis*	*melifera*	5699	
6/9/2017	23	STOR	*Chilopsis*	*linearis*		Bumble bee	*Bombus*	sp.	5700	
6/9/2017	23	STOR	*Ballota*	sp.		Bumble bee	*Bombus*	sp.	5704	

6/9/2017	23	EASI	Geranium	x cantabrigiense	'Biokovo'	Bumble bee	Bombus	sp.	5705	
6/9/2017	23	EASI	Geranium	x cantabrigiense	'Biokovo'	Honey bee	Apis	melifera	5706	
6/9/2017	23	EASI	Gaillardia	sp.		Native bee	Halictus	sp.	5707	
6/9/2017	23	EASI	Gaillardia	sp.		Honey bee	Apis	melifera	5708	
6/9/2017	23	EASI	Teucrium	x lucidrys		Honey bee	Apis	sp.	5711	
6/9/2017	23	EASI	Bulbine	sp.		Bumble bee	Bombus	sp.	5712	
6/9/2017	23	EASI	Salvia	microphylla	'Hot Lips'	Honey bee	Apis	sp.	5714	
6/9/2017	23	EASI	Gaillardia	sp.		Native bee	Melissodes	sp.	5715	
6/9/2017	23	EASI	Salvia	microphylla	'Hot Lips'	Native bee	Xylocopa	sp.	5718	
6/9/2017	23	EASI	Agastache	sp.		Native bee	Anthidium	sp.	5719	
6/9/2017	23	EASI	Agastache	sp.		Native bee	Xylocopa	sp.	5720	
6/9/2017	23	EASI	Aster		'Purple Dome'	Native bee	Melissodes	sp.	5721	
6/9/2017	23	EASI	Erigeron	karvinskianus		Honey bee	Apis	melifera	5722	
6/9/2017	23	EASI	Aster		'Purple Dome'	Native bee	Halictus	sp.	5723	
6/9/2017	23	EASI	Saponaria	x lempergii	'Max Frei'	Native bee	Xylocopa	sp.	5724	
6/9/2017	23	EASI	Russelia	sp.		Native bee	Xylocopa	sp.	5725	
6/9/2017	23	EASI	Bahiopsis	parishii		Native bee	Melissodes	sp.	5726	COLLECTED
6/9/2017	23	EASI	Erigeron	karvinskianus		Native bee	Megachile	sp.	5728	
6/9/2017	23	EASI	Erigeron	karvinskianus		Bumble bee	Bombus	sp.	5729	
6/9/2017	23	EASI	Salvia	clevelandii	'Winifred Gilman'	Native bee	Melissodes	sp.	5732	
6/9/2017	23	EASI	Bulbine	sp.		Honey bee	Apis	melifera	5733	
6/9/2017	23	EASI	Eriogonum	sp.		Honey bee	Apis	melifera	5734	
6/9/2017	23	EASI	Sedum	sp.		Native bee	Megachile	sp.	5735	
6/9/2017	23	EASI	Verbena	lilacina	'De La Mina'	Bumble bee	Bombus	sp.	5738	
6/9/2017	23	EASI	Salvia	sp.		Bumble bee	Bombus	sp.	5739	
6/9/2017	23	EASI	Sedum	sp.		Honey bee	Apis	melifera	5740	
6/9/2017	23	EASI	Nepeta	sp.		Honey bee	Apis	melifera	5741	
6/9/2017	23	EASI	Lavandula	sp.		Bumble bee	Bombus	sp.	5742	
6/9/2017	23	EASI	Penstemon		'Margarita BOP'	Bumble bee	Bombus	sp.	5743	
6/9/2017	23	SOAF	Grewia	sp.		Native bee	Xylocopa	sp.	5744	
6/9/2017	23	MEDI	Lavandula	sp.		Honey bee	Apis	melifera	5745	
6/9/2017	23	MEDI	Lavandula	sp.		Bumble bee	Bombus	sp.	5746	
6/9/2017	23	MEDI	Lavandula	sp.		Native bee	Svastra	sp.	5748	
6/9/2017	23	MEDI	Pterocephalus	dumoetorum		Honey bee	Apis	melifera	5749	
6/9/2017	23	MEDI	Mytrus	sp.		Honey bee	Apis	melifera	5750	
6/9/2017	23	MEDI	Mytrus	sp.		Native bee	Xylocopa	sp.	5752	
6/9/2017	23	MEDI	Brassica	sp.		Honey bee	Apis	melifera	5753	
6/9/2017	23	MEDI	Perovskia	atriplicifolia		Honey bee	Apis	melifera	5755	
6/9/2017	23	MEDI	Vitex	agnus-cactus		Honey bee	Apis	melifera	5756	
6/9/2017	23	MEDI	Vitex	agnus-cactus		Native bee	Melissodes	sp.	5757	COLLECTED
6/9/2017	23	MEDI	Nepeta	sp.		Honey bee	Apis	melifera	5758	
6/9/2017	23	MEDI	Brassica	sp.		Native bee	Andrena	sp.	5759	
6/9/2017	23	MEDI	Spiraea	sp.		Bumble bee	Bombus	sp.	5760	
6/9/2017	23	MEDI	Spiraea	sp.		Honey bee	Apis	melifera	5761	
6/9/2017	23	MEDI	Spiraea	sp.		Native bee	Lasioglossum	sp.	5762	
6/9/2017	23	MEDI	Myoporum	repens		Honey bee	Apis	melifera	5765	
6/9/2017	23	MEDI	Thymus	sp.		Native bee	Halictus	sp.	5766	
6/9/2017	23	MEDI	Thymus	sp.		Honey bee	Apis	melifera	5767	
6/9/2017	23	MEDI	Teucrium	hyrcanium		Honey bee	Apis	melifera	5768	
6/9/2017	23	MEDI	Lavatera	maritima		Honey bee	Apis	melifera	5769	
6/9/2017	23	MEDI	Teucrium	x lucidrys		Honey bee	Apis	melifera	5770	
6/9/2017	23	MEDI	Sideritis	cypria		Bumble bee	Bombus	sp.	5771	
6/9/2017	23	ARGE	Abies	procera		Honey bee	Apis	melifera	5772	
6/9/2017	23	ARGE	Lantana	montevidensis		Honey bee	Apis	melifera	5773	
6/9/2017	23	ARGE	Brassica	sp.		Honey bee	Apis	melifera	5774	
6/9/2017	23	ARGE	Brassica	sp.		Native bee	Halictus	sp.	5775	
6/9/2017	23	SWUS	Salvia	divinorum		Honey bee	Apis	melifera	5780	
6/9/2017	23	SWUS	Salvia	divinorum		Bumble bee	Bombus	sp.	5779	
6/9/2017	23	SWUS	Salvia	divinorum		Native bee	Xylocopa	sp.	5782	
6/9/2017	23	SWUS	Gaura	lindheimeri		Honey bee	Apis	melifera	5783	
6/9/2017	23	SWUS	Salvia	sp.		Native bee	Lasioglossum	sp.	5784	
6/9/2017	23	SWUS	Tecoma	sp.		Native bee	Peponapis	sp.	5785	
6/9/2017	23	SWUS	Gaillardia	sp.		Native bee	Halictus	sp.	5786	
6/9/2017	23	SWUS	Gaillardia	sp.		Native bee	Melissodes	sp.	5788	
6/9/2017	23	SWUS	Penstemon	sp.		Honey bee	Apis	melifera	5789	
6/9/2017	23	SWUS	Perovskia	sp.		Honey bee	Apis	melifera	5790	
6/9/2017	23	SWUS	Ipomoea	sp.		Honey bee	Apis	melifera	5791	
6/9/2017	23	SWUS	Mimosa	sp.		Honey bee	Apis	melifera	5793	
6/9/2017	23	SWUS	Dracaena	sp.		Native bee	Megachile	sp.	5795	
6/9/2017	23	SWUS	Dracaena	sp.		Honey bee	Apis	melifera	5796	
6/9/2017	23	SWUS	Chilopsis	linearis		Honey bee	Apis	melifera	5797	
6/9/2017	23	SWUS	Parkinsonia	sp.		Honey bee	Apis	melifera	5799	
6/9/2017	23	SWUS	Parkinsonia	sp.		Native bee	Megachile	sp.	5803	
6/9/2017	23	CONI	Heteromeles	arbutifolia		Honey bee	Apis	melifera	5804	
6/9/2017	23	CONI	Heteromeles	arbutifolia		Native bee	Megachile	sp.	5805	
6/9/2017	23	CONI	Eriogonum	sp.		Native bee	Xylocopa	sp.	5807	
6/9/2017	23	CONI	Eriogonum	sp.		Native bee	Megachile	sp.	5809	
6/9/2017	23	CONI	Ruellia	brittoniana		Native bee	Melissodes	sp.	5812	
6/9/2017	23	CONI	Ruellia	brittoniana		Honey bee	Apis	melifera	5816	
6/9/2017	23	CONI	Ruellia	brittoniana		Native bee	Megachile	sp.	5818	

6/9/2017	23	CONI	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	5819
6/9/2017	23	CONI	*Eriogonum*	sp.		Bumble bee	*Bombus*	sp.	5820
6/9/2017	23	CONI	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	5821
6/9/2017	23	AHQ	*Heteromeles*	*arbutifolia*		Honey bee	*Apis*	*melifera*	5822
6/9/2017	23	DESE	*Larrea*	sp.		Honey bee	*Apis*	*melifera*	5823
6/9/2017	23	DESE	*Eschscholzia*	*californica*		Bumble bee	*Bombus*	sp.	5824
6/9/2017	23	DESE	*Baileya*	multiradiata		Native bee	*Halictus*	sp.	5826
6/9/2017	23	DESE	*Baileya*	multiradiata		Native bee	*Diadasia*	sp.	5827
6/9/2017	23	DESE	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	5828
6/9/2017	23	DESE	*Encelia*	sp.		Native bee	*Halictus*	sp.	5829
6/9/2017	23	DESE	*Encelia*	sp.		Native bee	*Agapostemon*	sp.	5830
6/9/2017	23	DESE	*Acacia*	sp.		Bumble bee	*Bombus*	sp.	5831
6/9/2017	23	DESE	*Acacia*	sp.		Honey bee	*Apis*	*melifera*	5832
6/9/2017	23	DESE	*Encelia*	sp.		Native bee	*Andrena*	sp.	5833
6/9/2017	23	DESE	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	5834
6/9/2017	23	DESE	*Echinops*	sp.		Native bee	*Diadasia*	sp.	5838
6/9/2017	23	DESE	*Opuntia*	sp.		Native bee	*Diadasia*	sp.	5839
6/9/2017	23	DESE	*Salvia*	sp.		Bumble bee	*Bombus*	sp.	5840
6/9/2017	23	DESE	*Oenothera*	sp.		Native bee	*Diadasia*	sp.	5841
6/9/2017	23	MRAK	*Salvia*		'Blauhugel'	Honey bee	*Apis*	*melifera*	5842
6/9/2017	23	MRAK	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	5843
6/9/2017	23	MRAK	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	5844
6/9/2017	23	MRAK	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	5850
6/9/2017	23	MRAK	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	5858
6/9/2017	23	MRAK	*Ipomoea*	sp.		Honey bee	*Apis*	*melifera*	5859
6/9/2017	23	MRAK	*Magnolia*	*grandiflora*		Honey bee	*Apis*	*melifera*	5860
6/9/2017	23	MRAK	*Abelia*	sp.		Native bee	*Megachile*	sp.	5862
6/9/2017	23	MRAK	*Abelia*	sp.		Honey bee	*Apis*	*melifera*	5863
6/9/2017	23	MRAK	*Abelia*	sp.		Native bee	*Xylocopa*	sp.	5865
6/9/2017	23	MRAK	*Heteromeles*	*arbutifolia*		Native bee	*Megachile*	sp.	5866
6/9/2017	23	MRAK	*Heteromeles*	*arbutifolia*		Native bee	*Andrena*	sp.	5867
6/9/2017	23	MRAK	*Rosa*	*chinensis*	'Mutabilis'	Bumble bee	*Bombus*	sp.	5868
6/9/2017	23	MRAK	*Penstemon*	sp.		Honey bee	*Apis*	*melifera*	5869
6/9/2017	23	MRAK	*Hypericum*	*monogynum*		Bumble bee	*Bombus*	sp.	5870
6/9/2017	23	MRAK	*Scabiosa*	*ochroleuca*		Bumble bee	*Bombus*	sp.	5871
6/9/2017	23	MRAK	*Scabiosa*	*ochroleuca*		Honey bee	*Apis*	*melifera*	5873
6/9/2017	23	MRAK	*Scabiosa*	*ochroleuca*		Native bee	*Melissodes*	sp.	5877
6/12/2017	24	FOOT	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	5882
6/12/2017	24	FOOT	*Heteromeles*	*arbutifolia*		Honey bee	*Apis*	*melifera*	5883
6/12/2017	24	FOOT	*Cephalanthus*	*occidentalis*		Honey bee	*Apis*	*melifera*	5885
6/12/2017	24	FOOT	*Malosma*	*laurina*		Honey bee	*Apis*	*melifera*	5886
6/12/2017	24	FOOT	*Encelia*	*californica*		Native bee	*Halictus*	sp.	5888
6/12/2017	24	FOOT	*Encelia*	*californica*		Native bee	*Melissodes*	sp.	5890
6/12/2017	24	ENTR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	5891
6/12/2017	24	ENTR	*Vitex*	*agnus-castus*		Honey bee	*Apis*	*melifera*	5892
6/12/2017	24	ENTR	*Vitex*	*agnus-castus*		Bumble bee	*Bombus*	sp.	5894
6/12/2017	24	ENTR	*Nepeta*	x *faassenii*		Honey bee	*Apis*	*melifera*	5896
6/12/2017	24	ENTR	*Nepeta*	x *faassenii*		Native bee	*Melissodes*	sp.	5899
6/12/2017	24	ENTR	*Tagetes*	*lemmonii*		Native bee	*Melissodes*	sp.	5901
6/12/2017	24	ENTR	*Tagetes*	*lemmonii*		Native bee	*Halictus*	sp.	5903
6/12/2017	24	ENTR	*Heteromeles*	*arbutifolia*		Honey bee	*Apis*	*melifera*	5904
6/12/2017	24	VALL	*Cephalanthus*	*occidentalis*		Honey bee	*Apis*	*melifera*	5908
6/12/2017	24	VALL	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	5909
6/12/2017	24	VALL	*Crinodendron*	*patagua*		Honey bee	*Apis*	*melifera*	5910
6/12/2017	24	CHIL	*Alstroemeria*	x		Native bee	*Svastra*	sp.	5914
6/12/2017	24	CHIL	*Alstroemeria*	x		Honey bee	*Apis*	*melifera*	5916
6/12/2017	24	LODG	*Chilopsis*	sp.		Honey bee	*Apis*	*melifera*	5917
6/12/2017	24	LODG	*Abelia*	sp.		Honey bee	*Apis*	*melifera*	5918
6/12/2017	24	LODG	*Brassica*	sp.		Native bee	*Halictus*	sp.	5919
6/12/2017	24	LODG	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	5920
6/12/2017	24	LODG	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	5921
6/12/2017	24	BOAT	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	5922
6/12/2017	24	BOAT	*Origanum*	sp.		Bumble bee	*Bombus*	sp.	5924
6/12/2017	24	BOAT	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	5925
6/12/2017	24	BOAT	*Lavandula*	sp.		Bumble bee	*Bombus*	sp.	5926
6/12/2017	24	BOAT	*Thymus*	sp.		Honey bee	*Apis*	*melifera*	5927
6/12/2017	24	BOAT	*Teucrium*	sp.		Honey bee	*Apis*	*melifera*	5928
6/12/2017	24	BOAT	*Origanum*	*majorana*		Honey bee	*Apis*	*melifera*	5929
6/12/2017	24	COMM	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	5930
6/12/2017	24	COMM	*Heteromeles*	sp.		Honey bee	*Apis*	*melifera*	5931
6/12/2017	24	COTT	*Myoporum*	sp.		Honey bee	*Apis*	*melifera*	5932
6/12/2017	24	COTT	*Raphanus*	sp.		Honey bee	*Apis*	*melifera*	5935
6/12/2017	24	COTT	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	5938
6/12/2017	24	COTT	*Fremontodendron*	sp.		Honey bee	*Apis*	*melifera*	5940
6/12/2017	24	YOLO	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	5941
6/12/2017	24	YOLO	*Brassica*	sp.		Native bee	*Lasioglossum*	sp.	5942
6/12/2017	24	YOLO	*Rosa*	*californica*		Honey bee	*Apis*	*melifera*	5943
6/12/2017	24	YOLO	*Rosa*	*californica*		Bumble bee	*Bombus*	sp.	5944
6/12/2017	24	MOUN	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	5945
6/12/2017	24	GAZE	*Origanum*	*majorana*		Honey bee	*Apis*	*melifera*	5947

6/12/2017	24	GAZE	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	5948	
6/12/2017	24	GAZE	*Nicotiana*	*sylvestris*		Native bee	*Xylocopa*	sp.	5950	
6/12/2017	24	GAZE	*Myrtus*	sp.		Honey bee	*Apis*	*melifera*	5951	
6/12/2017	24	GAZE	*Rosa*	*californica*		Honey bee	*Apis*	*melifera*	5952	
6/12/2017	24	GAZE	*Agapanthus*	sp.		Honey bee	*Apis*	*melifera*	5954	
6/12/2017	24	GAZE	*Magnolia*	sp.		Honey bee	*Apis*	*melifera*	5955	
6/12/2017	24	GAZE	*Salvia*	*× sylvestris*	'Schneehugel'	Honey bee	*Apis*	*melifera*	5957	
6/12/2017	24	GAZE	*Crinodendron*	*patagua*		Honey bee	*Apis*	*melifera*	5958	
6/12/2017	24	GAZE	*Erigeron*	*karvinskianus*		Native bee	*Hylaeus*	sp.	5959	
6/12/2017	24	GAZE	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	5960	
6/12/2017	24	GAZE	*Abutilon*	sp.		Bumble bee	*Bombus*	sp.	5961	
6/12/2017	24	GAZE	*Abutilon*	sp.		Native bee	*Xylocopa*	sp.	5962	
6/12/2017	24	GAZE	*Tilia*	sp.		Honey bee	*Apis*	*melifera*	5963	
6/12/2017	24	STOR	*Stachys*	sp.		Bumble bee	*Bombus*	sp.	5964	
6/12/2017	24	STOR	*Stachys*	sp.		Native bee	*Anthidium*	sp.	5968	
6/12/2017	24	STOR	*Penstemon*	sp.		Honeybee	*Apis*	*melifera*	5970	
6/12/2017	24	STOR	*Origanum*	sp.		Honeybee	*Apis*	*melifera*	5971	
6/12/2017	24	STOR	*Tulbaghia*	sp.		Honeybee	*Apis*	*melifera*	5973	
6/12/2017	24	STOR	*Scabiosa*	sp.		Honeybee	*Apis*	*melifera*	5974	
6/12/2017	24	STOR	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	5975	
6/12/2017	24	STOR	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	5976	
6/12/2017	24	STOR	*Salvia*	sp.		Native bee	*Melissodes*	sp.	5977	
6/12/2017	24	STOR	*Salvia*	sp.		Honeybee	*Apis*	*melifera*	5978	
6/12/2017	24	STOR	*Ballota*	sp.		Honeybee	*Apis*	*melifera*	5979	
6/12/2017	24	STOR	*Scabiosa*	sp.		Native bee	*Lasioglossum*	sp.	5980	
6/12/2017	24	STOR	*Salvia*	sp.		Bumble bee	*Bombus*	sp.	5982	
6/12/2017	24	STOR	*Thymus*	*capitatus*		Honeybee	*Apis*	*melifera*	5983	
6/12/2017	24	STOR	*Limonium*	*platyphyllum*		Honeybee	*Apis*	*melifera*	5984	
6/12/2017	24	STOR	*Scabiosa*	sp.		Native bee	*Melissodes*	sp.	5985	
6/12/2017	24	STOR	*Scabiosa*	sp.		Bumble bee	*Bombus*	sp.	5986	
6/12/2017	24	STOR	*Lavandula*		'Lisa Marie'	Bumble bee	*Bombus*	sp.	5990	
6/12/2017	24	STOR	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	5994	
6/12/2017	24	STOR	*Glaucium*	*flavum*		Native bee	*Hoplitis*	sp.	5997	
6/12/2017	24	STOR	*Lavandula*	sp.		Honeybee	*Apis*	*melifera*	5998	
6/12/2017	24	STOR	*Chilopsis*	sp.		Honeybee	*Apis*	*melifera*	5999	
6/12/2017	24	STOR	*Opuntia*	sp.		Native bee	*Diadasia*	sp.	6001	
6/12/2017	24	STOR	*Rosa*		'Happenstance'	Native bee	*Halictus*	sp.	6002	
6/12/2017	24	STOR	*Rosa*		'Happenstance'	Honeybee	*Apis*	*melifera*	6004	
6/12/2017	24	STOR	*Erigeron*	*karvinskianus*		Native bee	*Halictus*	sp.	6006	
6/12/2017	24	STOR	*Scabiosa*	sp.		Native bee	*Anthidiellum*	sp.	6007	COLLECTED
6/12/2017	24	STOR	*Stachys*	*byzantina*		Honeybee	*Apis*	*melifera*	6008	
6/12/2017	24	STOR	*Delosperma*	*cooperi*		Honeybee	*Apis*	*melifera*	6009	
6/12/2017	24	STOR	*Malva*	*alcea*		Honeybee	*Apis*	*melifera*	6010	
6/12/2017	24	STOR	*Buddleja*	*davidii*		Honeybee	*Apis*	*melifera*	6011	
6/12/2017	24	STOR	*Teucrium*	x *lucidrys*		Honeybee	*Apis*	*melifera*	6013	
6/12/2017	24	STOR	*Oxalis*	sp.		Honeybee	*Apis*	*melifera*	6015	
6/12/2017	24	STOR	*Lavandula*		'Goodwin Creek Grey'	Native bee	*Megachile*	sp.	6018	
6/12/2017	24	STOR	*Limonium*	*platyphyllum*		Native bee	*Megachile*	sp.	6019	
6/12/2017	24	EASI	*Geranium*		'Biokovo'	Honeybee	*Apis*	*melifera*	6021	
6/12/2017	24	EASI	*Geranium*		'Biokovo'	Bumble bee	*Bombus*	sp.	6022	
6/12/2017	24	EASI	*Teucrium*	x *lucidrys*		Honeybee	*Apis*	*melifera*	6023	
6/12/2017	24	EASI	*Erysimum*	sp.		Native bee	*Megachile*	sp.	6024	
6/12/2017	24	EASI	*Erysimum*	sp.		Native bee	*Halictus*	sp.	6025	
6/12/2017	24	EASI	*Caesalpinia*	*pulcherrima*		Honeybee	*Apis*	*melifera*	6026	
6/12/2017	24	EASI	*Agastache*	sp.		Native bee	*Anthidiellum*	sp.	6027	
6/12/2017	24	EASI	*Aster*	*bigelovii*		Native bee	*Melissodes*	sp.	6028	
6/12/2017	24	EASI	*Aster*	*bigelovii*		Native bee	*Halictus*	sp.	6029	
6/12/2017	24	EASI	*Erigeron*	*karvinskianus*		Native bee	*Halictus*	sp.	6030	
6/12/2017	24	EASI	*Agastache*	sp.		Native bee	*Xylocopa*	sp.	6032	
6/12/2017	24	EASI	*Salvia*	sp.		Honeybee	*Apis*	*melifera*	6033	
6/12/2017	24	EASI	*Salvia*	sp.		Bumble bee	*Bombus*	sp.	6034	
6/12/2017	24	EASI	*Gaillardia*	sp.		Honeybee	*Apis*	*melifera*	6037	
6/12/2017	24	EASI	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	6038	
6/12/2017	24	EASI	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	6041	
6/12/2017	24	EASI	*Salvia*	sp.		Native bee	*Halictus*	sp.	6042	
6/12/2017	24	EASI	*Delosperma*	*cooperi*		Bumble bee	*Bombus*	sp.	6043	
6/12/2017	24	EASI	*Erigeron*	*karvinskianus*		Honeybee	*Apis*	*melifera*	6044	
6/12/2017	24	EASI	*Erigeron*	*karvinskianus*		Native bee	*Megachile*	sp.	6046	
6/12/2017	24	EASI	*Bahiopsis*	*parishii*		Native bee	*Agapostemon*	sp.	6053	
6/12/2017	24	EASI	*Eriogonum*	sp.		Bumble bee	*Bombus*	sp.	6054	
6/12/2017	24	EASI	*Eriogonum*	sp.		Native bee	*Megachile*	sp.	6055	
6/12/2017	24	EASI	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	6056	
6/12/2017	24	EASI	*Eriogonum*	sp.		Honeybee	*Apis*	*melifera*	6057	
6/12/2017	24	EASI	*Eriogonum*	sp.		Native bee	*Agapostemon*	sp.	6058	
6/12/2017	24	EASI	*Eriogonum*	sp.		Native bee	*Lasioglossum*	sp.	6060	
6/12/2017	24	EASI	*Salvia*	sp.		Native bee	*Melissodes*	sp.	6061	
6/12/2017	24	EASI	*Hesperaloe*	sp.		Honeybee	*Apis*	*melifera*	6062	
6/12/2017	24	EASI	*Sedum*	sp.		Honeybee	*Apis*	*melifera*	6063	
6/12/2017	24	EASI	*Sedum*	sp.		Native bee	*Megachile*	sp.	6065	
6/12/2017	24	EASI	*Rosa*	sp.		Honeybee	*Apis*	*melifera*	6066	

6/12/2017	24	EASI	*Nepeta*	sp.	Honeybee	*Apis*	*melifera*	6067	
6/12/2017	24	EASI	*Lavandula*	sp.	Honeybee	*Apis*	*melifera*	6069	
6/12/2017	24	EASI	*Lavandula*	sp.	Bumble bee	*Bombus*	sp.	6072	
6/12/2017	24	EASI	*Buddleja*	*davidii*	Honeybee	*Apis*	*melifera*	6073	
6/12/2017	24	EASI	*Erysimum*	sp.	Bumble bee	*Bombus*	sp.	6075	
6/12/2017	24	SOAF	*Grewia*	*occidentalis*	Native bee	*Xylocopa*	sp.	6076	
6/12/2017	24	SOAF	*Scabiosa*	sp.	Native bee	*Svastra*	sp.	6077	
6/12/2017	24	SOAF	*Scabiosa*	sp.	Native bee	*Halictus*	sp.	6078	
6/12/2017	24	SOAF	*Athanasia*	*dentata*	Native bee	*Halictus*	sp.	6079	
6/12/2017	24	SOAF	*Leonotis*	*leonurus*	Honeybee	*Apis*	*melifera*	6080	
6/12/2017	24	SOAF	*Myoporum*	*parvifolium*	Honeybee	*Apis*	*melifera*	6081	
6/12/2017	24	MEDI	*Lavandula*	sp.	Bumble bee	*Bombus*	sp.	6083	
6/12/2017	24	MEDI	*Lavandula*	sp.	Honeybee	*Apis*	*melifera*	6086	
6/12/2017	24	MEDI	*Pterocephalus*	*dumetorum*	Native bee	*Melissodes*	sp.	6093	
6/12/2017	24	MEDI	*Pterocephalus*	*dumetorum*	Honeybee	*Apis*	*melifera*	6094	
6/12/2017	24	MEDI	*Brassica*	sp.	Honeybee	*Apis*	*melifera*	6095	
6/12/2017	24	MEDI	*Perovskia*	*atriplicifolia*	Honeybee	*Apis*	*melifera*	6096	
6/12/2017	24	MEDI	*Perovskia*	*atriplicifolia*	Native bee	*Melissodes*	sp.	6104	
6/12/2017	24	MEDI	*Perovskia*	*atriplicifolia*	Bumble bee	*Bombus*	sp.	6106	
6/12/2017	24	MEDI	*Vitex*	sp.	Honeybee	*Apis*	*melifera*	6107	
6/12/2017	24	MEDI	*Vitex*	sp.	Native bee	*Megachile*	sp.	6108	
6/12/2017	24	MEDI	*Vitex*	sp.	Native bee	*Melissodes*	sp.	6115	
6/12/2017	24	MEDI	*Nepeta*	sp.	Honeybee	*Apis*	*melifera*	6117	
6/12/2017	24	MEDI	*Myrtus*	sp.	Honeybee	*Apis*	*melifera*	6118	
6/12/2017	24	MEDI	*Brassica*	sp.	Native bee	*Andrena*	sp.	6121	
6/12/2017	24	MEDI	*Salvia*	*canariensis*	Bumble bee	*Bombus*	sp.	6123	
6/12/2017	24	MEDI	*Salvia*	*canariensis*	Honeybee	*Apis*	*melifera*	6124	
6/12/2017	24	MEDI	*Salvia*	*canariensis*	Native bee	*Megachile*	sp.	6126	
6/12/2017	24	MEDI	*Salvia*	*canariensis*	Native bee	*Melissodes*	sp.	6127	
6/12/2017	24	MEDI	*Salvia*	*canariensis*	Native bee	*Halictus*	sp.	6128	
6/12/2017	24	MEDI	*Myoporum*	*parvifolium*	Honeybee	*Apis*	*melifera*	6129	
6/12/2017	24	MEDI	*Thymus*	sp.	Honeybee	*Apis*	*melifera*	6130	
6/12/2017	24	MEDI	*Veronica*	sp.	Honeybee	*Apis*	*melifera*	6131	
6/12/2017	24	MEDI	*Lavatera*	sp.	Honeybee	*Apis*	*melifera*	6132	
6/12/2017	24	MEDI	*Teucrium*	sp.	Honeybee	*Apis*	*melifera*	6133	
6/12/2017	24	MEDI	*Sideritis*	*cypria*	Bumble bee	*Bombus*	sp.	6134	
6/12/2017	24	ARGE	*Ipomoea*	sp.	Honeybee	*Apis*	*melifera*	6135	
6/12/2017	24	ARGE	*Sphaeralcea*	sp.	Native bee	*Melissodes*	sp.	6136	
6/12/2017	24	ARGE	*Lantana*	sp.	Honeybee	*Apis*	*melifera*	6138	
6/12/2017	24	ARGE	*Oxalis*	sp.	Honeybee	*Apis*	*melifera*	6139	
6/12/2017	24	ARGE	*Senecio*	sp.	Native bee	*Andrena*	sp.	6140	
6/12/2017	24	ARGE	*Senecio*	sp.	Native bee	*Halictus*	sp.	6144	
6/12/2017	24	ARGE	*Erythrina*	*crista-galli*	Honeybee	*Apis*	*melifera*	6143	
6/12/2017	24	SWUS	*Salvia*	sp.	Bumble bee	*Bombus*	sp.	6147	
6/12/2017	24	SWUS	*Salvia*	sp.	Honeybee	*Apis*	*melifera*	6148	
6/12/2017	24	SWUS	*Salvia*	sp.	Native bee	*Svastra*	sp.	6151	
6/12/2017	24	SWUS	*Gaillardia*	sp.	Native bee	*Melissodes*	sp.	6153	
6/12/2017	24	SWUS	*Salvia*	sp.	Native bee	*Melissodes*	sp.	6154	
6/12/2017	24	SWUS	*Salvia*	sp.	Native bee	*Megachile*	sp.	6156	
6/12/2017	24	SWUS	*Tecoma*	sp.	Native bee	*Megachile*	sp.	6158	COLLECTED
6/12/2017	24	SWUS	*Tecoma*	sp.	Native bee	*Peponapis*	sp.	6159	COLLECTED
6/12/2017	24	SWUS	*Penstemon*	sp.	Honeybee	*Apis*	*melifera*	6160	
6/12/2017	24	SWUS	*Amorpha*	*texana*	Honeybee	*Apis*	*melifera*	6161	
6/12/2017	24	SWUS	*Amorpha*	*texana*	Native bee	*Xylocopa*	sp.	6162	
6/12/2017	24	SWUS	*Amorpha*	*texana*	Bumble bee	*Bombus*	sp.	6163	
6/12/2017	24	SWUS	*Mimosa*	sp.	Honeybee	*Apis*	*melifera*	6165	
6/12/2017	24	SWUS	*Nolina*	*microcarpa*	Honeybee	*Apis*	*melifera*	6167	
6/12/2017	24	SWUS	*Nolina*	*microcarpa*	Native bee	*Halictus*	sp.	6168	
6/12/2017	24	SWUS	*Nolina*	*microcarpa*	Native bee	*Andrena*	sp.	6170	
6/12/2017	24	SWUS	*Nolina*	*microcarpa*	Native bee	*Megachile*	sp.	6169	
6/12/2017	24	SWUS	*Parkinsonia*	sp.	Honeybee	*Apis*	*melifera*	6171	
6/12/2017	24	SWUS	*Parkinsonia*	sp.	Native bee	*Megachile*	sp.	6173	
6/12/2017	24	SWUS	*Parkinsonia*	sp.	Bumble bee	*Bombus*	sp.	6176	
6/12/2017	24	SWUS	*Salvia*	sp.	Native bee	*Xylocopa*	sp.	6178	
6/12/2017	24	CONI	*Heteromeles*	sp.	Honeybee	*Apis*	*melifera*	6179	
6/12/2017	24	CONI	*Heteromeles*	sp.	Native bee	*Svastra*	sp.	6180	
6/12/2017	24	CONI	*Heteromeles*	sp.	Native bee	*Megachile*	sp.	6182	
6/12/2017	24	CONI	*Eriogonum*	sp.	Native bee	*Megachile*	sp.	6187	
6/12/2017	24	CONI	*Eriogonum*	sp.	Honey bee	*Apis*	*melifera*	6188	
6/12/2017	24	CONI	*Nepeta*	sp.	Honeybee	*Apis*	*melifera*	6189	
6/12/2017	24	CONI	*Eriogonum*	sp.	Native bee	*Agapostemon*	sp.	6190	
6/12/2017	24	CONI	*Cephalanthus*	sp.	Honeybee	*Apis*	*melifera*	6191	
6/12/2017	24	CONI	*Tipuana*	*tipu*	Honeybee	*Apis*	*melifera*	6193	
6/12/2017	24	DESE	*Baileya*	*multiradiata*	Native bee	*Melissodes*	sp.	6194	COLLECTED
6/12/2017	24	DESE	*Baileya*	*multiradiata*	Native bee	*Megachile*	sp.	6195	COLLECTED
6/12/2017	24	DESE	*Baileya*	*multiradiata*	Native bee	*Andrena*	sp.	6196	
6/12/2017	24	DESE	*Baileya*	*multiradiata*	Native bee	*Diadasia*	sp.	6197	
6/12/2017	24	DESE	*Baileya*	*multiradiata*	Native bee	*Svastra*	sp.	6198	
6/12/2017	24	DESE	*Eschscholzia*	*californica*	Bumble bee	*Bombus*	sp.	6199	
6/12/2017	24	DESE	*Encelia*	sp.	Native bee	*Melissodes*	sp.	6201	COLLECTED

6/12/2017	24	DESE	*Encelia*	sp.	Native bee	*Xylocopa*	sp.	6202	
6/12/2017	24	DESE	*Opuntia*	sp.	Native bee	*Diadasia*	sp.	6205	
6/12/2017	24	DESE	*Chilopsis*	sp.	Honey bee	*Apis*	*melifera*	6206	
6/12/2017	24	DESE	*Sphaeralcea*	*ambigua*	Native bee	*Melissodes*	sp.	6208	
6/12/2017	24	DESE	*Sphaeralcea*	*ambigua*	Native bee	*Diadasia*	sp.	6210	
6/12/2017	24	KING	*Salvia*	sp.	Native bee	*Melissodes*	sp.	6211	
6/12/2017	24	ERIC_N	*Heteromeles*	sp.	Native bee	*Hoplitis*	sp.	6213	
6/12/2017	24	ERIC_N	*Heteromeles*	sp.	Honeybee	*Apis*	*melifera*	6216	
6/12/2017	24	AUST_N	*Melaleuca*	sp.	Honeybee	*Apis*	*melifera*	6217	
6/12/2017	24	AUST_N	*Callistemon*	sp.	Bumble bee	*Bombus*	sp.	6221	
6/12/2017	24	AUST_N	*Eucalyptus*	sp.	Bumble bee	*Bombus*	sp.	6222	
6/12/2017	24	AUST_N	*Myoporum*	sp.	Honeybee	*Apis*	*melifera*	6223	
6/12/2017	24	AUST_N	*Grevillea*	sp.	Honeybee	*Apis*	*melifera*	6224	
6/12/2017	24	AUST_N	*Grevillea*	sp.	Native bee	*Xylocopa*	sp.	6225	
6/12/2017	24	AUST_N	*Grevillea*	sp.	Bumble bee	*Bombus*	sp.	6226	
6/12/2017	24	AUST_N	*Correa*	sp.	Bumble bee	*Bombus*	sp.	6228	
6/12/2017	24	AUST_N	*Dianella*	sp.	Bumble bee	*Bombus*	sp.	6229	
6/12/2017	24	AUST_N	*Myoporum*	*parvifolium*	Native bee	*Andrena*	sp.	6233	
6/12/2017	24	AUST_N	*Myoporum*	*parvifolium*	Native bee	*Halictus*	sp.	6234	
6/12/2017	24	AUST_N	*Eucalyptus*	sp.	Honeybee	*Apis*	*melifera*	6236	
6/12/2017	24	AUST_N	*Sollya*	sp.	Honeybee	*Apis*	*melifera*	6237	
6/12/2017	24	AUST_N	*Sollya*	sp.	Native bee	*Lasioglossum*	sp.	6238	
6/12/2017	24	AUST_N	*Sollya*	sp.	Native bee	*Megachile*	sp.	6240	
6/12/2017	24	AUST_N	*Westringia*	sp.	Native bee	*Andrena*	sp.	6241	
6/12/2017	24	AUST_N	*Westringia*	sp.	Native bee	*Xylocopa*	sp.	6242	
6/12/2017	24	AUST_N	*Westringia*	sp.	Native bee	*Megachile*	sp.	6243	
6/12/2017	24	AUST_S	*Apocynum*	*cannabinum*	Native bee	*Hoplitis*	sp.	6245	
6/12/2017	24	AUST_S	*Apocynum*	*cannabinum*	Honeybee	*Apis*	*melifera*	6246	
6/12/2017	24	AUST_S	*Eremophila*	*maculata*	Native bee	*Xylocopa*	sp.	6247	
6/12/2017	24	AUST_S	*Eremophila*	*maculata*	Native bee	*Megachile*	sp.	6248	
6/12/2017	24	AUST_S	*Eremophila*	*maculata*	Honeybee	*Apis*	*melifera*	6249	
6/12/2017	24	AUST_S	*Hebe*	sp.	Honeybee	*Apis*	*melifera*	6252	
6/12/2017	24	AUST_S	*Ligustrum*	*quihoui*	Honeybee	*Apis*	*melifera*	6253	
6/12/2017	24	AUST_S	*Ligustrum*	*quihoui*	Native bee	*Megachile*	sp.	6254	
6/12/2017	24	AUST_S	*Grevillea*	sp.	Honeybee	*Apis*	*melifera*	6255	
6/12/2017	24	AUST_S	*Vitex*	sp.	Honeybee	*Apis*	*melifera*	6256	
6/12/2017	24	AUST_S	*Grevillea*	sp.	Bumble bee	*Bombus*	sp.	6257	
6/12/2017	24	AUST_S	*Grevillea*	sp.	Native bee	*Xylocopa*	sp.	6258	
6/12/2017	24	AUST_S	*Westringia*	sp.	Native bee	*Megachile*	sp.	6259	
6/12/2017	24	AUST_S	*Westringia*	sp.	Native bee	*Anthidiellum*	sp.	6260	COLLECTED
6/12/2017	24	AUST_S	*Ozothamnus*	*rosmarinifolius*	Native bee	*Hoplitis*	sp.	6261	
6/12/2017	24	AUST_S	*Parkinsonia*	sp.	Native bee	*Xylocopa*	sp.	6265	
6/12/2017	24	AUST_S	*Parkinsonia*	sp.	Native bee	*Megachile*	sp.	6264	
6/12/2017	24	AUST_S	*Parkinsonia*	sp.	Bumble bee	*Bombus*	sp.	6266	
6/12/2017	24	AUST_S	*Craspedia*	*globosa*	Native bee	*Halictus*	sp.	6267	
6/12/2017	24	AUST_S	*Craspedia*	*globosa*	Native bee	*Stelis*	sp.	6268	
6/12/2017	24	AUST_S	*Craspedia*	*globosa*	Native bee	*Andrena*	sp.	6269	
6/12/2017	24	AUST_S	*Craspedia*	*globosa*	Native bee	*Megachile*	sp.	6270	
6/12/2017	24	AUST_S	*Craspedia*	*globosa*	Native bee	*Hylaeus*	sp.	6271	
6/12/2017	24	AUST_S	*Dianella*	sp.	Bumble bee	*Bombus*	sp.	6273	
6/12/2017	24	AUST_S	*Tipuana*	*tipu*	Native bee	*Xylocopa*	sp.	6275	
6/12/2017	24	AUST_S	*Tipuana*	*tipu*	Bumble bee	*Bombus*	sp.	6276	
6/12/2017	24	AUST_S	*Parkinsonia*	sp.	Honeybee	*Apis*	*melifera*	6277	
6/12/2017	24	ERIC_S	*Lupinus*	sp.	Bumble bee	*Bombus*	sp.	6278	
6/12/2017	24	ERIC_S	*Bulbine*	sp.	Native bee	*Andrena*	sp.	6280	
6/12/2017	24	ERIC_S	*Bulbine*	sp.	Native bee	*Anthidium*	sp.	6281	
6/12/2017	24	ERIC_S	*Heteromeles*	sp.	Honeybee	*Apis*	*melifera*	6285	
6/12/2017	24	ERIC_S	*Heteromeles*	sp.	Native bee	*Megachile*	sp.	6287	
6/12/2017	24	ERIC_S	*Bulbine*	sp.	Native bee	*Lasioglossum*	sp.	6279	
6/12/2017	24	ERIC_S	*Bulbine*	sp.	Native bee	*Megachile*	sp.	6288	
6/12/2017	24	ERIC_S	*Heteromeles*	sp.	Native bee	*Andrena*	sp.	6289	
6/12/2017	24	ERIC_S	*Solanum*	sp.	Native bee	*Lasioglossum*	sp.	6290	
6/12/2017	24	ERIC_S	*Eschscholzia*	*californica*	Native bee	*Halictus*	sp.	6291	
6/12/2017	24	ERIC_S	*Solanum*	sp.	Native bee	*Megachile*	sp.	6292	
6/12/2017	24	ERIC_S	*Kickxia*	*elatine*	Native bee	*Megachile*	sp.	6299	
6/12/2017	24	ERIC_S	*Kickxia*	*elatine*	Native bee	*Anthidiellum*	sp.	6300	
6/12/2017	24	ERIC_S	*Kickxia*	*elatine*	Native bee	*Andrena*	sp.	6301	
6/12/2017	24	ERIC_S	*Kickxia*	*elatine*	Native bee	*Anthidium*	sp.	6304	
6/12/2017	24	GATE	*Triteleia*	sp.	Native bee	*Agapostemon*	sp.	6308	
6/12/2017	24	GATE	*Achillea*	sp.	Native bee	*Halictus*	sp.	6309	
6/12/2017	24	GATE	*Eschscholzia*	*californica*	Native bee	*Halictus*	sp.	6311	
6/12/2017	24	GATE	*Eschscholzia*	*californica*	Bumble bee	*Bombus*	sp.	6312	
6/12/2017	24	GATE	*Eschscholzia*	*californica*	Honeybee	*Apis*	*melifera*	6313	
6/12/2017	24	GATE	*Eschscholzia*	*californica*	Native bee	*Andrena*	sp.	6316	
6/12/2017	24	GATE	*Eschscholzia*	*californica*	Native bee	*Megachile*	sp.	6317	
6/12/2017	24	GATE	*Asclepias*	*fascicularis*	Honeybee	*Apis*	*melifera*	6318	
6/12/2017	24	GATE	*Asclepias*	*fascicularis*	Native bee	*Hoplitis*	sp.	6319	
6/12/2017	24	GATE	*Ipomoea*	sp.	Honeybee	*Apis*	*melifera*	6320	
6/12/2017	24	GATE	*Heteromeles*	sp.	Native bee	*Megachile*	sp.	6323	
6/12/2017	24	GATE	*Madia*	sp.	Native bee	*Halictus*	sp.	6325	

6/12/2017	24	GATE	Madia	sp.		Native bee	Andrena	sp.	6326	
6/12/2017	24	GATE	Madia	sp.		Native bee	Melissodes	sp.	6327	
6/12/2017	24	GATE	Apocynum	cannabinum		Native bee	Megachile	sp.	6332	
6/12/2017	24	GATE	Apocynum	cannabinum		Native bee	Hylaeus	sp.	6331	
6/12/2017	24	GATE	Apocynum	cannabinum		Honeybee	Apis	melifera	6333	
6/12/2017	24	GATE	Rosa	californica		Bumble bee	Bombus	sp.	6334	
6/12/2017	24	GATE	Rosa	californica		Honeybee	Apis	melifera	6336	
6/12/2017	24	GATE	Rosa	californica		Native bee	Megachile	sp.	6337	
6/12/2017	24	AUST_S	Bursaria	spinosa		Honeybee	Apis	melifera	6338	
6/12/2017	24	AUST_S	Bursaria	spinosa		Native bee	Megachile	sp.	6339	
6/12/2017	24	AUST_S	Bursaria	spinosa		Native bee	Halictus	sp.	6341	
6/12/2017	24	A_ST	Eschscholzia	californica		Native bee	Halictus	sp.	6343	
6/12/2017	24	A_ST	Eriogonum	sp.		Honeybee	Apis	melifera	6344	
6/12/2017	24	A_ST	Eriogonum	sp.		Native bee	Hoplitis	sp.	6345	
6/12/2017	24	REDW	Heliotropium	curassavicum		Native bee	Halictus	sp.	6348	
6/12/2017	24	REDW	Heliotropium	curassavicum		Honeybee	Apis	melifera	6350	
6/12/2017	24	REDW	Heliotropium	curassavicum		Native bee	Lasioglossum	sp.	6351	
6/12/2017	24	MWB	Heteromeles	sp.		Native bee	Megachile	sp.	6354	
6/12/2017	24	MWB	Aster	sp.		Native bee	Megachile	sp.	6355	
6/12/2017	24	MWB	Eriogonum	sp.		Native bee	Lasioglossum	sp.	6357	
6/12/2017	24	MWB	Eschscholzia	californica		Honeybee	Apis	melifera	6358	
6/12/2017	24	MWB	Eschscholzia	californica		Native bee	Halictus	sp.	6360	
6/12/2017	24	MWB	Heuchera	sp.		Native bee	Lasioglossum	sp.	6362	
6/12/2017	24	MWB	Eschscholzia	californica		Bumble bee	Bombus	sp.	6363	
6/12/2017	24	MWB	Cephalanthus	occidentalis		Honeybee	Apis	melifera	6364	
6/12/2017	24	MWB	Urtica	dioica		Native bee	Hylaeus	sp.	6366	
6/12/2017	24	MWB	Stachys	albens		Bumble bee	Bombus	sp.	6368	
6/12/2017	24	MWB	Phacelia	sp.		Bumble bee	Bombus	sp.	6369	
6/12/2017	24	MWB	Heteromeles	sp.		Honeybee	Apis	melifera	6370	
6/12/2017	24	MWB	Asclepias	sp.		Honeybee	Apis	melifera	6371	
6/12/2017	24	MWB	Eschscholzia	sp.		Native bee	Andrena	sp.	6372	
6/12/2017	24	MWB	Asclepias	sp.		Native bee	Megachile	sp.	6375	
6/12/2017	24	MWB	Triteleia	sp.		Native bee	Megachile	sp.	6376	
6/12/2017	24	MWB	Solidago	californica	'Cascade Creek'	Native bee	Halictus	sp.	6377	
6/12/2017	24	MWB	Eriogonum	sp.		Honeybee	Apis	melifera	6378	
6/12/2017	24	MWB	Eriogonum	sp.		Native bee	Halictus	sp.	6379	
6/12/2017	24	MWB	Salvia	sp.		Honeybee	Apis	melifera	6380	
6/12/2017	24	MWB	Fremontodendron	sp.		Honeybee	Apis	melifera	6382	
6/12/2017	24	MWB	Salvia	sp.		Native bee	Xylocopa	sp.	6383	
6/12/2017	24	MWB	Salvia	sp.		Native bee	Melissodes	sp.	6387	
6/12/2017	24	MWB	Aquilegia	sp.		Bumble bee	Bombus	sp.	6390	
6/12/2017	24	MWB	Penstemon	sp.		Bumble bee	Bombus	sp.	6392	
6/12/2017	24	MWB	Eriophyllum	lanatum		Native bee	Andrena	sp.	6393	
6/12/2017	24	MWB	Clarkia	unguiculata		Bumble bee	Bombus	sp.	6395	
6/12/2017	24	MWB	Eriogonum	sp.		Native bee	Megachile	sp.	6398	
6/12/2017	24	MWB	Penstemon	sp.		Native bee	Megachile	sp.	6399	
6/12/2017	24	MWB	Salvia	sp.		Bumble bee	Bombus	sp.	6400	
6/12/2017	24	MWB	Achillea	sp.		Native bee	Halictus	sp.	6401	
6/12/2017	24	MWB	Achillea	sp.		Native bee	Andrena	sp.	6402	
6/12/2017	24	MWB	Bahiopsis	parishii		Native bee	Halictus	sp.	6403	
6/12/2017	24	MWB	Ipomoea	sp.		Native bee	Halictus	sp.	6406	
6/12/2017	24	MWB	Ipomoea	sp.		Native bee	Agapostemon	sp.	6407	
6/12/2017	24	MWB	Salvia	sp.		Native bee	Anthidium	sp.	6410	
6/12/2017	24	MWB	Heliotropium	curassavicum		Native bee	Halictus	sp.	6412	
6/12/2017	24	MWB	Heliotropium	curassavicum		Native bee	Megachile	sp.	6413	
6/12/2017	24	MWB	Monarda	sp.		Bumble bee	Bombus	sp.	6415	
6/12/2017	24	MWB	Monarda	sp.		Honeybee	Apis	melifera	6417	
6/12/2017	24	MWB	Monarda	sp.		Native bee	Lasioglossum	sp.	6418	
6/12/2017	24	MWB	Vaccinium	sp.		Bumble bee	Bombus	sp.	6419	
6/12/2017	24	MRAK	Salvia		'Blauhugel'	Honeybee	Apis	melifera	6421	
6/12/2017	24	MRAK	Gaillardia	sp.		Native bee	Megachile	sp.	6423	
6/12/2017	24	MRAK	Gaillardia	sp.		Native bee	Halictus	sp.	6424	
6/12/2017	24	MRAK	Gaillardia	sp.		Native bee	Svastra	sp.	6427	
6/12/2017	24	MRAK	Gaillardia	sp.		Native bee	Triepeolus	sp.	6428	COLLECTED
6/12/2017	24	MRAK	Penstemon	sp.		Native bee	Xylocopa	sp.	6430	
6/12/2017	24	MRAK	Gaillardia	sp.		Native bee	Melissodes	sp.	6428b	
6/12/2017	24	MRAK	Abelia	sp.		Honeybee	Apis	melifera	6431	
6/12/2017	24	MRAK	Abelia	sp.		Native bee	Xylocopa	sp.	6432	
6/12/2017	24	MRAK	Trifolium	sp.		Honeybee	Apis	melifera	6433	
6/12/2017	24	MRAK	Mentha	sp.		Honeybee	Apis	melifera	6434	
6/12/2017	24	MRAK	Hypericum	monogynum		Bumble bee	Bombus	sp.	6435	
6/12/2017	24	MRAK	Scabiosa	sp.		Native bee	Melissodes	sp.	6437	
6/12/2017	24	MRAK	Scabiosa	sp.		Honeybee	Apis	melifera	6438	
6/12/2017	24	MRAK	Scabiosa	sp.		Bumble bee	Bombus	sp.	6439	
6/19/2017	25	GAZE	Abelia	sp.		Honeybee	Apis	melifera	6440	
6/19/2017	25	GAZE	Gomphostigma	virgatum		Honeybee	Apis	melifera	6443	
6/19/2017	25	GAZE	Origanum	sp.		Honeybee	Apis	melifera	6444	
6/19/2017	25	GAZE	Vitex	sp.		Honeybee	Apis	melifera	6445	
6/19/2017	25	GAZE	Buddleja	sp.		Honeybee	Apis	melifera	6446	
6/19/2017	25	GAZE	Rosa	sp.		Honeybee	Apis	melifera	6447	

6/19/2017	25	GAZE	Myrtus	sp.		Honeybee	Apis	melifera	6448	
6/19/2017	25	GAZE	Salvia	x sylvestris	'Schneehügel'	Honeybee	Apis	melifera	6450	
6/19/2017	25	GAZE	Myrtus	sp.		Native bee	Xylocopa	sp.	6451	
6/19/2017	25	GAZE	Vitex	sp.		Native bee	Xylocopa	sp.	6453	
6/19/2017	25	GAZE	Vitex	sp.		Native bee	Megachile	sp.	6454	
6/19/2017	25	GAZE	Duranta	erecta	'Alba'	Honeybee	Apis	melifera	6455	
6/19/2017	25	GAZE	Duranta	erecta	'Alba'	Bumble bee	Bombus	sp.	6456	
6/19/2017	25	GAZE	Verbascum	sp.		Bumble bee	Bombus	sp.	6457	
6/19/2017	25	GAZE	Abutilon	sp.		Bumble bee	Bombus	sp.	6458	
6/19/2017	25	GAZE	Crinodendron	patagua		Honeybee	Apis	melifera	6459	
6/19/2017	25	GAZE	Agapanthus	sp.		Bumble bee	Bombus	sp.	6460	
6/19/2017	25	EASI	Geranium	sp.		Honeybee	Apis	melifera	6461	
6/19/2017	25	EASI	Teucrium	sp.		Honeybee	Apis	melifera	6462	
6/19/2017	25	EASI	Penstemon	sp.		Honeybee	Apis	melifera	6465	
6/19/2017	25	EASI	Echinacea	sp.		Native bee	Agapostemon	sp.	6466	
6/19/2017	25	EASI	Echinacea	sp.		Native bee	Halictus	sp.	6467	
6/19/2017	25	EASI	Aster		'Purple Dome'	Native bee	Andrena	sp.	6468	
6/19/2017	25	EASI	Convolvulus	sp.		Native bee	Halictus	sp.	6469	
6/19/2017	25	EASI	Aster	sp.		Native bee	Halictus	sp.	6470	
6/19/2017	25	EASI	Gaillardia	sp.		Native bee	Melissodes	sp.	6471	
6/19/2017	25	EASI	Gaillardia	sp.		Native bee	Halictus	sp.	6472	
6/19/2017	25	EASI	Salvia	sp.		Native bee	Megachile	sp.	6473	
6/19/2017	25	EASI	Salvia	sp.		Honeybee	Apis	melifera	6475	
6/19/2017	25	EASI	Agastache	sp.		Honeybee	Apis	melifera	6476	
6/19/2017	25	EASI	Equisetum	sp.		Bumble bee	Bombus	sp.	6478	
6/19/2017	25	EASI	Bahiopsis	parishii		Native bee	Andrena	sp.	6479	
6/19/2017	25	EASI	Bulbine	sp.		Honeybee	Apis	melifera	6480	
6/19/2017	25	EASI	Bulbine	sp.		Honeybee	Apis	melifera	6485	
6/19/2017	25	EASI	Bulbine	sp.		Native bee	Anthidiellum	sp.	6484	
6/19/2017	25	EASI	Bulbine	sp.		Native bee	Melissodes	sp.	6497	COLLECTED
6/19/2017	25	EASI	Bulbine	sp.		Native bee	Hylaeus	sp.	6491	
6/19/2017	25	EASI	Salvia	sp.		Native bee	Xylocopa	sp.	6499	
6/19/2017	25	EASI	Lavandula	sp.		Honeybee	Apis	melifera	6500	
6/19/2017	25	EASI	Lavandula	sp.		Bumble bee	Bombus	sp.	6501	
6/19/2017	25	EASI	Salvia	sp.		Native bee	Lasioglossum	sp.	6502	
6/19/2017	25	EASI	Salvia	sp.		Bumble bee	Bombus	sp.	6504	
6/19/2017	25	EASI	Erigeron	karvinskianus		Native bee	Halictus	sp.	6505	
6/19/2017	25	EASI	Eriogonum	sp.		Native bee	Lasioglossum	sp.	6507	
6/19/2017	25	EASI	Eriogonum	sp.		Bumble bee	Bombus	sp.	6508	
6/19/2017	25	EASI	Eriogonum	sp.		Honeybee	Apis	melifera	6509	
6/19/2017	25	EASI	Hesperaloe	sp.		Honeybee	Apis	melifera	6510	
6/19/2017	25	EASI	Sedum	sp.		Native bee	Megachile	sp.	6512	
6/19/2017	25	EASI	Nepeta	sp.		Honeybee	Apis	melifera	6513	
6/19/2017	25	EASI	Salvia	sp.		Native bee	Triepeolus	sp.	6514	
6/19/2017	25	EASI	Origanum	sp.		Honeybee	Apis	melifera	6516	
6/19/2017	25	EASI	Gaillardia	sp.		Native bee	Melissodes	sp.	6517	
6/19/2017	25	EASI	Eryngium	sp.		Native bee	Halictus	sp.	6518	
6/19/2017	25	EASI	Eryngium	sp.		Native bee	Melissodes	sp.	6521	
6/19/2017	25	MOUN	Trifolium	sp.		Honeybee	Apis	melifera	6522	
6/19/2017	25	SOAF	Achillea		'Coronation Gold'	Native bee	Halictus	sp.	6523	
6/19/2017	25	SOAF	Scabiosa	sp.		Bumble bee	Bombus	sp.	6524	
6/19/2017	25	SOAF	Myoporum	parvifolium		Honeybee	Apis	melifera	6525	
6/19/2017	25	MEDI	Lavandula	sp.		Honeybee	Apis	melifera	6527	
6/19/2017	25	MEDI	Lavandula	sp.		Bumble bee	Bombus	sp.	6526	
6/19/2017	25	MEDI	Myrtus	sp.		Honeybee	Apis	melifera	6528	
6/19/2017	25	MEDI	Rosmarinus	officinalis		Native bee	Lasioglossum	sp.	6529	
6/19/2017	25	MEDI	Rosmarinus	officinalis		Native bee	Agapostemon	sp.	6531	
6/19/2017	25	MEDI	Bupleurum	fruticosum		Native bee	Halictus	sp.	6533	
6/19/2017	25	MEDI	Clematis	sp.		Honeybee	Apis	melifera	6534	
6/19/2017	25	MEDI	Vitex	sp.		Honeybee	Apis	melifera	6535	
6/19/2017	25	MEDI	Vitex	sp.		Native Bee	Anthidiellum	sp.	6538	
6/19/2017	25	MEDI	Vitex	sp.		Native bee	Melissodes	sp.	6539	
6/19/2017	25	MEDI	Vitex	sp.		Native bee	Megachile	sp.	6540	
6/19/2017	25	MEDI	Perovskia	atriplicifolia		Honeybee	Apis	melifera	6541	
6/19/2017	25	MEDI	Perovskia	atriplicifolia		Native bee	Melissodes	sp.	6542	
6/19/2017	25	MEDI	Origanum	sp.		Honeybee	Apis	melifera	6543	
6/19/2017	25	MEDI	Origanum	sp.		Native bee	Agapostemon	sp.	6545	
6/19/2017	25	MEDI	Salvia	canariensis		Honeybee	Apis	melifera	6546	
6/19/2017	25	MEDI	Salvia	canariensis		Bumble bee	Bombus	sp.	6548	
6/19/2017	25	MEDI	Salvia	canariensis		Native bee	Lasioglossum	sp.	6549	
6/19/2017	25	MEDI	Salvia	canariensis		Native bee	Megachile	sp.	6552	
6/19/2017	25	MEDI	Brassica	sp.		Honeybee	Apis	melifera	6553	
6/19/2017	25	MEDI	Helichrysum	italicum	ssp.serotinum	Native bee	Halictus	sp.	6554	
6/19/2017	25	MEDI	Myoporum	parvifolium		Native bee	Megachile	sp.	6556	
6/19/2017	25	MEDI	Myoporum	parvifolium		Honeybee	Apis	melifera	6558	
6/19/2017	25	MEDI	Thymus	vulgaris		Honeybee	Apis	melifera	6559	
6/19/2017	25	MEDI	Thymus	vulgaris		Native bee	Melissodes	sp.	6561	
6/19/2017	25	MEDI	Thymus	vulgaris		Native bee	Lasioglossum	sp.	6562	
6/19/2017	25	MEDI	Thymus	vulgaris		Native bee	Megachile	sp.	6563	
6/19/2017	25	MEDI	Lavatera	sp.		Honeybee	Apis	melifera	6564	

6/19/2017	25	LODG	*Chitalpa*	sp.		Honeybee	*Apis*	*melifera*	6565
6/19/2017	25	LODG	*Lagerstroemia*	sp.		Native bee	*Halictus*	sp.	6566
6/19/2017	25	LODG	*Trifolium*	sp.		Honeybee	*Apis*	*melifera*	6568
6/19/2017	25	BOAT	*Origanum*	sp.		Honeybee	*Apis*	*melifera*	6570
6/19/2017	25	BOAT	*Bulbine*	sp.		Native bee	*Megachile*	sp.	6571
6/19/2017	25	BOAT	*Origanum*	sp.		Native bee	*Megachile*	sp.	6572
6/19/2017	25	BOAT	*Thymus*	sp.		Honeybee	*Apis*	*melifera*	6573
6/19/2017	25	BOAT	*Teucrium*	sp.		Honeybee	*Apis*	*melifera*	6574
6/19/2017	25	BOAT	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	6575
6/19/2017	25	BOAT	*Origanum*	sp.		Bumble bee	*Bombus*	sp.	6576
6/19/2017	25	BOAT	*Rosmarinus*	sp.		Native bee	*Lasioglossum*	sp.	6577
6/19/2017	25	BOAT	*Rosmarinus*	sp.		Native bee	*Halictus*	sp.	6578
6/19/2017	25	BOAT	*Rosmarinus*	sp.		Native bee	*Megachile*	sp.	6579
6/19/2017	25	BOAT	*Lavandula*	sp.		Honeybee	*Apis*	*melifera*	6581
6/19/2017	25	COMM	*Heteromeles*	sp.		Native bee	*Andrena*	sp.	6582
6/19/2017	25	COMM	*Heteromeles*	sp.		Bumble bee	*Bombus*	sp.	6583
6/19/2017	25	COMM	*Brassica*	sp.		Native bee	*Halictus*	sp.	6585
6/19/2017	25	COTT	*Cephalanthus*	sp.		Honeybee	*Apis*	*melifera*	6586
6/19/2017	25	COTT	*Myoporum*	*parvifolium*		Honeybee	*Apis*	*melifera*	6588
6/19/2017	25	COTT	*Brassica*	sp.		Honeybee	*Apis*	*melifera*	6589
6/19/2017	25	YOLO	*Brassica*	sp.		Honeybee	*Apis*	*melifera*	6590
6/19/2017	25	YOLO	*Encelia*	sp.		Native bee	*Melissodes*	sp.	6592
6/19/2017	25	YOLO	*Rosa*	sp.		Honeybee	*Apis*	*melifera*	6593
6/19/2017	25	STOR	*Perovskia*	sp.		Honeybee	*Apis*	*melifera*	6594
6/19/2017	25	STOR	*Scabiosa*	sp.		Honeybee	*Apis*	*melifera*	6595
6/19/2017	25	STOR	*Salvia*	sp.		Native bee	*Lasioglossum*	sp.	6596
6/19/2017	25	STOR	*Erigeron*	*karvinskianus*		Native bee	*Halictus*	sp.	6598
6/19/2017	25	STOR	*Optunia*	sp.		Native bee	*Melissodes*	sp.	6601
6/19/2017	25	STOR	*Ballota*	sp.		Honeybee	*Apis*	*melifera*	6602
6/19/2017	25	STOR	*Chilopsis*	sp.		Honeybee	*Apis*	*melifera*	6603
6/19/2017	25	STOR	*Limonium*	sp.		Honeybee	*Apis*	*melifera*	6604
6/19/2017	25	STOR	*Limonium*	sp.		Native bee	*Lasioglossum*	sp.	6605
6/19/2017	25	STOR	*Teucrium*	*hyrcanium*		Honeybee	*Apis*	*melifera*	6606
6/19/2017	25	STOR	*Erigeron*	*karvinskianus*		Native bee	*Hylaeus*	sp.	6607
6/19/2017	25	STOR	*Buddleja*	sp.		Honeybee	*Apis*	*melifera*	6609
6/19/2017	25	STOR	*Teucrium*	sp.		Honeybee	*Apis*	*melifera*	6611
6/19/2017	25	STOR	*Opuntia*	sp.		Native bee	*Melissodes*	sp.	6612
6/19/2017	25	STOR	*Allium*	sp.		Honeybee	*Apis*	*melifera*	6613
6/19/2017	25	STOR	*Scabiosa*	sp.		Native bee	*Anthidium*	sp.	6614
6/19/2017	25	STOR	*Scabiosa*	sp.		Native bee	*Melissodes*	sp.	6616
6/19/2017	25	STOR	*Origanum*	*vulgare*		Honeybee	*Apis*	*melifera*	6617
6/19/2017	25	STOR	*Origanum*	*vulgare*		Native bee	*Triepeolus*	sp.	6618
6/19/2017	25	STOR	*Delosperma*	sp.		Native bee	*Halictus*	sp.	6619
6/19/2017	25	STOR	*Scabiosa*	sp.		Native bee	*Andrena*	sp.	6620
6/19/2017	25	STOR	*Thymus*	sp.		Honeybee	*Apis*	*melifera*	6621
6/19/2017	25	STOR	*Penstemon*	sp.		Native bee	*Megachile*	sp.	6622
6/19/2017	25	STOR	*Scabiosa*	sp.		Native bee	*Melissodes*	sp.	6623
6/19/2017	25	STOR	*Lavandula*		'Lisa Marie'	Bumble bee	*Bombus*	sp.	6624
6/19/2017	25	STOR	*Lavandula*		'Lisa Marie'	Honeybee	*Apis*	*melifera*	6625
6/19/2017	25	STOR	*Lavandula*		'Lisa Marie'	Native bee	*Megachile*	sp.	6627
6/19/2017	25	STOR	*Teucrium*	x *lucidrys*		Native bee	*Halictus*	sp.	6629
6/19/2017	25	ERIC_N	*Heteromeles*	sp.		Native bee	*Hylaeus*	sp.	6631
6/19/2017	25	ERIC_N	*Heteromeles*	sp.		Native bee	*Andrena*	sp.	6632
6/19/2017	25	AUST_N	*Melaleuca*	sp.		Honeybee	*Apis*	*melifera*	6633
6/19/2017	25	AUST_N	*Myoporum*	*parvifolium*		Honeybee	*Apis*	*melifera*	6634
6/19/2017	25	AUST_N	*Grevillea*	sp.		Honeybee	*Apis*	*melifera*	6635
6/19/2017	25	AUST_N	*Grevillea*	sp.		Native bee	*Xylocopa*	sp.	6636
6/19/2017	25	AUST_N	*Myoporum*	*parvifolium*		Native bee	*Megachile*	sp.	6637
6/19/2017	25	AUST_N	*Myoporum*	*parvifolium*		Native bee	*Halictus*	sp.	6638
6/19/2017	25	AUST_N	*Myoporum*	*parvifolium*		Native bee	*Andrena*	sp.	6639b
6/19/2017	25	AUST_N	*Myoporum*	*parvifolium*		Native bee	*Agapostemon*	sp.	6639
6/19/2017	25	AUST_S	*Apocynum*	*cannabinum*		Honeybee	*Apis*	*melifera*	6640
6/19/2017	25	AUST_S	*Rosa*	sp.		Native bee	*Lasioglossum*	sp.	6641
6/19/2017	25	AUST_S	*Eremophila*	*maculata*		Honeybee	*Apis*	*melifera*	6643
6/19/2017	25	AUST_S	*Eremophila*	*maculata*		Native bee	*Megachile*	sp.	6644
6/19/2017	25	AUST_S	*Hebe*	sp.		Native bee	*Lasioglossum*	sp.	6645
6/19/2017	25	AUST_S	*Hebe*	sp.		Native bee	*Halictus*	sp.	6646
6/19/2017	25	AUST_S	*Pycnosorus*	*globosus*		Native bee	*Halictus*	sp.	6647
6/19/2017	25	AUST_S	*Hebe*	sp.		Native bee	*Melissodes*	sp.	6648
6/19/2017	25	AUST_S	*Grevillea*	sp.		Honeybee	*Apis*	*melifera*	6649
6/19/2017	25	AUST_S	*Vitex*	sp.		Bumble bee	*Bombus*	sp.	6650
6/19/2017	25	AUST_S	*Vitex*	sp.		Honeybee	*Apis*	*melifera*	6651
6/19/2017	25	AUST_S	*Vitex*	sp.		Native bee	*Megachile*	sp.	6652
6/19/2017	25	AUST_S	*Grevillea*	sp.		Native bee	*Xylocopa*	sp.	6653
6/19/2017	25	AUST_S	*Parkinsonia*	sp.		Native bee	*Megachile*	sp.	6654
6/19/2017	25	AUST_S	*Parkinsonia*	sp.		Native bee	*Xylocopa*	sp.	6655
6/19/2017	25	AUST_S	*Anigozanthos*	sp.		Native bee	*Halictus*	sp.	6656
6/19/2017	25	AUST_S	*Anigozanthos*	sp.		Native bee	*Andrena*	sp.	6657
6/19/2017	25	AUST_S	*Tipuana*	*tipu*		Bumble bee	*Bombus*	sp.	6658
6/19/2017	25	AUST_S	*Tipuana*	*tipu*		Honeybee	*Apis*	*melifera*	6659

6/19/2017	25	AUST_S	*Tipuana*	*tipu*		Native bee	*Xylocopa*	sp.	6660
6/19/2017	25	ERIC_S	*Lupinus*	sp.		Native bee	*Anthidium*	sp.	6663
6/19/2017	25	ERIC_S	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	6664
6/19/2017	25	ERIC_S	*Eschscholzia*	*californica*		Native bee	*Andrena*	sp.	6666
6/19/2017	25	ERIC_S	*Kickxia*	*elatine*		Native bee	*Halictus*	sp.	6669
6/19/2017	25	ERIC_S	*Kickxia*	*elatine*		Native bee	*Megachile*	sp.	6671
6/19/2017	25	ERIC_S	*Kickxia*	*elatine*		Native bee	*Lasioglossum*	sp.	6674
6/19/2017	25	ERIC_S	*Kickxia*	*elatine*		Native bee	*Anthidiellum*	sp.	6675
6/19/2017	25	GATE	*Grindelia*	sp.		Native bee	*Halictus*	sp.	6676
6/19/2017	25	GATE	*Grindelia*	sp.		Native bee	*Triepeolus*	sp.	6677
6/19/2017	25	GATE	*Grindelia*	sp.		Native bee	*Melissodes*	sp.	6678
6/19/2017	25	GATE	*Grindelia*	sp.		Native bee	*Svastra*	sp.	6680
6/19/2017	25	GATE	*Helianthus*	sp.		Native bee	*Halictus*	sp.	6684
6/19/2017	25	GATE	*Helianthus*	sp.		Native bee	*Melissodes*	sp.	6683
6/19/2017	25	GATE	*Grindelia*	sp.		Native bee	*Melissodes*	sp.	6685
6/19/2017	25	GATE	*Asclepias*	*fascicularis*		Honeybee	*Apis*	*melifera*	6688
6/19/2017	25	GATE	*Asclepias*	*fascicularis*		Native bee	*Megachile*	sp.	6690
6/19/2017	25	GATE	*Convolvulus*	sp.		Native bee	*Hylaeus*	sp.	6692
6/19/2017	25	GATE	*Aster*	sp.		Native bee	*Halictus*	sp.	6694
6/19/2017	25	GATE	*Rosa*	sp.		Honeybee	*Apis*	*melifera*	6695
6/19/2017	25	A_ST	*Eriogonum*	sp.		Native bee	*Anthidium*	sp.	6696
6/19/2017	25	A_ST	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	6697
6/19/2017	25	A_ST	*Eriogonum*	sp.		Native bee	*Melissodes*	sp.	6699
6/19/2017	25	A_ST	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	6701
6/19/2017	25	REDW	*Heliotropium*	*curassavicum*		Native bee	*Halictus*	sp.	6704
6/19/2017	25	REDW	*Heliotropium*	*curassavicum*		Native bee	*Megachile*	sp.	6705
6/19/2017	25	REDW	*Achillea*	sp.		Native bee	*Halictus*	sp.	6707
6/19/2017	25	REDW	*Heliotropium*	*curassavicum*		Native bee	*Ceratina*	sp.	6710
6/19/2017	25	MRAK	*Salvia*		'Blauhugel'	Honeybee	*Apis*	*melifera*	6711
6/19/2017	25	MRAK	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	6712
6/19/2017	25	MRAK	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	6713
6/19/2017	25	MRAK	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	6715
6/19/2017	25	MRAK	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	6717
6/19/2017	25	MRAK	*Gaillardia*	sp.		Native bee	*Svastra*	sp.	6718
6/19/2017	25	MRAK	*Salvia*		'Blauhugel'	Native bee	*Andrena*	sp.	6721
6/19/2017	25	MRAK	*Abelia*	sp.		Honeybee	*Apis*	*melifera*	6723
6/19/2017	25	MRAK	*Rosa*	sp.		Honeybee	*Apis*	*melifera*	6724
6/19/2017	25	MRAK	*Rosa*	sp.		Native bee	*Lasioglossum*	sp.	6726
6/19/2017	25	MRAK	*Rosa*	sp.		Native bee	*Halictus*	sp.	6727
6/19/2017	25	MRAK	*Trifolium*	sp.		Honeybee	*Apis*	*melifera*	6728
6/19/2017	25	MRAK	*Mentha*	sp.		Honeybee	*Apis*	*melifera*	6730
6/19/2017	25	MRAK	*Scabiosa*	sp.		Native bee	*Melissodes*	sp.	6733
6/19/2017	25	MRAK	*Scabiosa*	sp.		Bumble bee	*Bombus*	sp.	6735
6/19/2017	25	MRAK	*Rosa*	*x odorata*	'Mutabilis'	Native bee	*Ceratina*	sp.	6736
6/19/2017	25	MRAK	*Ceratostigma*	*plumbaginoides*		Native bee	*Halictus*	sp.	6739
6/19/2017	25	MWB	*Eriogonum*	sp.		Honeybee	*Apis*		6742
6/19/2017	25	MWB	*Eriogonum*	sp.		Native bee	*Megachile*	sp.	6743
6/19/2017	25	MWB	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	6744
6/19/2017	25	MWB	*Eriogonum*	sp.		Native bee	*Agapostemon*	sp.	6747
6/19/2017	25	MWB	*Salvia*	sp.		Native bee	*Svastra*	sp.	6750
6/19/2017	25	MWB	*Rosa*	*californica*		Honeybee	*Apis*	*melifera*	6751
6/19/2017	25	MWB	*Rosa*	*californica*		Bumble bee	*Bombus*	sp.	6752
6/19/2017	25	MWB	*Stachys*	*albens*		Native bee	*Xylocopa*	sp.	6753
6/19/2017	25	MWB	*Stachys*	*albens*		Native bee	*Anthidium*	sp.	6754
6/19/2017	25	MWB	*Monarda*	sp.		Native bee	*Melissodes*	sp.	6755
6/19/2017	25	MWB	*Heliotropium*	*curassavicum*		Native bee	*Megachile*	sp.	6756
6/19/2017	25	MWB	*Aster*		'Purple Dome'	Native bee	*Halictus*	sp.	6757
6/19/2017	25	MWB	*Aster*		'Purple Dome'	Native bee	*Agapostemon*	sp.	6758
6/19/2017	25	MWB	*Heliotropium*	*curassavicum*		Native bee	*Agapostemon*	sp.	6759
6/19/2017	25	MWB	*Heliotropium*	*curassavicum*		Native bee	*Hylaeus*	sp.	6763
6/19/2017	25	MWB	*Heliotropium*	*curassavicum*		Native bee	*Agapostemon*	sp.	6761
6/19/2017	25	MWB	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	6765
6/19/2017	25	MWB	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	6767
6/19/2017	25	MWB	*Salvia*	sp.		Bumble bee	*Bombus*	sp.	6768
6/19/2017	25	MWB	*Salvia*	sp.		Native bee	*Melissodes*	sp.	6769
6/19/2017	25	MWB	*Fremontodendron*	sp.		Honeybee	*Apis*	*melifera*	6771
6/19/2017	25	MWB	*Fremontodendron*	sp.		Native bee	*Andrena*	sp.	6772
6/19/2017	25	MWB	*Fremontodendron*	sp.		Native bee	*Peponapis*	sp.	6775
6/19/2017	25	MWB	*Salvia*	sp.		Native bee	*Anthidium*	sp.	6776
6/19/2017	25	MWB	*Salvia*	sp.		Native bee	*Svastra*	sp.	6777
6/19/2017	25	MWB	*Salvia*	sp.		Native bee	*Lasioglossum*	sp.	6778
6/19/2017	25	MWB	*Eschscholzia*	*californica*		Bumble bee	*Bombus*	sp.	6779
6/19/2017	25	MWB	*Eschscholzia*	*californica*		Native bee	*Hylaeus*	sp.	6781
6/19/2017	25	MWB	*Aquilegia*	sp.		Native bee	*Megachile*	sp.	6785
6/19/2017	25	MWB	*Aster*	sp.		Native bee	*Halictus*	sp.	6788
6/19/2017	25	MWB	*Lycianthes*	sp.		Bumble bee	*Bombus*	sp.	6789
6/19/2017	25	MWB	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	6790
6/19/2017	25	MWB	*Heuchera*	*rosada*		Bumble bee	*Bombus*	sp.	6791
6/19/2017	25	MWB	*Cephalanthus*	sp.		Honeybee	*Apis*	*melifera*	6792
6/19/2017	25	MWB	*Stachys*	*albens*		Native bee	*Xylocopa*	sp.	6793

6/19/2017	25	MWB	Stachys	albens		Bumble bee	Bombus	sp.	6794	
6/19/2017	25	MWB	Heuchera	rosada		Native bee	Lasioglossum	sp.	6795	
6/19/2017	25	MWB	Heuchera	rosada		Native bee	Megachile	sp.	6796	
6/19/2017	25	MWB	Asclepias	sp.		Honeybee	Apis	melifera	6799	
6/19/2017	25	MWB	Solidago	californica	'Cascade Creek'	Native bee	Halictus	sp.	6800	
6/19/2017	25	MWB	Eriogonum	sp.		Native bee	Andrena	sp.	6801	
6/19/2017	25	MWB	Eriogonum	sp.		Native bee	Anthidium	sp.	6804	
6/19/2017	25	MWB	Eriogonum	sp.		Native bee	Svastra	sp.	6805	
6/19/2017	25	MWB	Ipomoea	sp.		Native bee	Andrena	sp.	6806	
6/19/2017	25	MWB	Penstemon	sp.		Bumble bee	Bombus	sp.	6807	
6/19/2017	25	MWB	Ipomoea	sp.		Native bee	Halictus	sp.	6808	
6/19/2017	25	MWB	Eriogonum	sp.		Native bee	Megachile	sp.	6810	
6/19/2017	25	MWB	Eriogonum	sp.		Native bee	Triepeolus	sp.	6811	COLLECTED
6/19/2017	25	MWB	Achillea	milifolium		Native bee	Halictus	sp.	6813	
6/19/2017	25	MWB	Erigeron		'Wayne Roderick'	Native bee	Halictus	sp.	6814	
6/19/2017	25	MWB	Grindelia	hirsutula		Native bee	Halictus	sp.	6815	
6/19/2017	25	MWB	Heteromeles	sp.		Native bee	Megachile	sp.	6817	
6/19/2017	25	FOOT	Eriogonum	sp.		Native bee	Megachile	sp.	6818	
6/19/2017	25	FOOT	Eriogonum	sp.		Native bee	Andrena	sp.	6819	
6/19/2017	25	FOOT	Eriogonum	sp.		Native bee	Hylaeus	sp.	6820	
6/19/2017	25	FOOT	Heteromeles	sp.		Native bee	Halictus	sp.	6823	
6/19/2017	25	FOOT	Heteromeles	sp.		Native bee	Andrena	sp.	6824	
6/19/2017	25	FOOT	Cephalanthus	sp.		Honeybee	Apis	melifera	6825	
6/19/2017	25	FOOT	Malosma	laurina		Native bee	Megachile	sp.	6828	
6/19/2017	25	FOOT	Malosma	laurina		Native bee	Lasioglossum	sp.	6829	
6/19/2017	25	FOOT	Encelia	californica		Native bee	Melissodes	sp.	6833	
6/19/2017	25	ENTR	Vitex	sp.		Honeybee	Apis	melifera	6834	
6/19/2017	25	ENTR	Vitex	sp.		Native bee	Svastra	sp.	6837	
6/19/2017	25	ENTR	Vitex	sp.		Native bee	Melissodes	sp.	6838	
6/19/2017	25	ENTR	Vitex	sp.		Native bee	Andrena	sp.	6839	
6/19/2017	25	ENTR	Perovskia	atriplicifolia		Honeybee	Apis	melifera	6840	
6/19/2017	25	ENTR	Perovskia	atriplicifolia		Native bee	Svastra	sp.	6841	
6/19/2017	25	ENTR	Salvia	sp.		Native bee	Melissodes	sp.	6842	
6/19/2017	25	ENTR	Perovskia	atriplicifolia		Native bee	Megachile	sp.	6843	
6/19/2017	25	ENTR	Dendromecon	sp.		Native bee	Anthophora	sp.	6846	
6/19/2017	25	ENTR	Salvia	sp.		Native bee	Lasioglossum	sp.	6848	
6/19/2017	25	VALL	Cephalanthus	sp.		Honeybee	Apis	melifera	6849	
6/19/2017	25	VALL	Salvia	sp.		Native bee	Lasioglossum	sp.	6850	
6/19/2017	25	VALL	Salvia	sp.		Native bee	Melissodes	sp.	6851	
6/19/2017	25	ACAC	Acacia	karoo		Honeybee	Apis	melifera	6852	
6/19/2017	25	CHIL	Alstroemeria	sp.		Native bee	Melissodes	sp.	6854	
6/19/2017	25	ARGE	Veronica	nudiflora		Honeybee	Apis	melifera	6856	
6/19/2017	25	SWUS	Salvia	sp.		Native bee	Lasioglossum	sp.	6857	
6/19/2017	25	SWUS	Salvia	sp.		Native bee	Triepeolus	sp.	6858	
6/19/2017	25	SWUS	Tecoma	sp.		Native bee	Peponapis	sp.	6859	
6/19/2017	25	SWUS	Gaillardia	sp.		Native bee	Melissodes	sp.	6860	
6/19/2017	25	SWUS	Gaillardia	sp.		Native bee	Halictus	sp.	6862	
6/19/2017	25	SWUS	Gaura	lindheimeri		Honeybee	Apis	melifera	6863	
6/19/2017	25	SWUS	Gaura	lindheimeri		Native bee	Megachile	sp.	6864	
6/19/2017	25	SWUS	Leucophyllum	sp.		Native bee	Halictus	sp.	6865	
6/19/2017	25	SWUS	Salvia	sp.		Native bee	Megachile	sp.	6866	
6/19/2017	25	SWUS	Gaillardia	sp.		Native bee	Svastra	sp.	6868	
6/19/2017	25	SWUS	Amorpha	texana		Native bee	Anthidium	sp.	6869	
6/19/2017	25	SWUS	Amorpha	texana		Honeybee	Apis	melifera	6870	
6/19/2017	25	SWUS	Amorpha	texana		Native bee	Megachile	sp.	6871	
6/19/2017	25	SWUS	Mimosa	sp.		Native bee	Halictus	sp.	6874	
6/19/2017	25	SWUS	Nolina	sp.		Native bee	Halictus	sp.	6875	
6/19/2017	25	SWUS	Nolina	sp.		Native bee	Megachile	sp.	6876	
6/19/2017	25	SWUS	Nolina	sp.		Native bee	Hylaeus	sp.	6877	
6/19/2017	25	SWUS	Isomeris	arborea		Native bee	Melissodes	sp.	6880	
6/19/2017	25	SWUS	Salvia	sp.		Native bee	Anthidium	sp.	6881	
6/19/2017	25	SWUS	Salvia	sp.		Honeybee	Apis	melifera	6885	
6/19/2017	25	CONI	Salvia	sp.		Native bee	Megachile	sp.	6886	
6/19/2017	25	CONI	Eriogonum	sp.		Native bee	Lasioglossum	sp.	6888	
6/19/2017	25	CONI	Heteromeles	sp.		Native bee	Megachile	sp.	6889	
6/19/2017	25	CONI	Eriogonum	sp.		Native bee	Andrena	sp.	6891	
6/19/2017	25	CONI	Eriogonum	sp.		Native bee	Anthidiellum	sp.	6890	
6/19/2017	25	CONI	Ruellia	brittoniana		Native bee	Melissodes	sp.	6893	
6/19/2017	25	CONI	Eriogonum	sp.		Honeybee	Apis	melifera	6896	
6/19/2017	25	REDB	Cephalanthus	sp.		Bumble bee	Bombus	sp.	6897	
6/19/2017	25	REDB	Cephalanthus	sp.		Honeybee	Apis	melifera	6898	
6/19/2017	25	DESE	Larrea	sp.		Honeybee	Apis	melifera	6899	
6/19/2017	25	DESE	Larrea	sp.		Native bee	Xylocopa	sp.	6901	
6/19/2017	25	DESE	Baileya	multiradiata		Native bee	Halictus	sp.	6902	
6/19/2017	25	DESE	Rumex	crispus		Native bee	Triepeolus	sp.	6903	
6/19/2017	25	DESE	Opuntia	sp.		Native bee	Diadasia	sp.	6907	
6/19/2017	25	DESE	Eschscholzia	californica		Native bee	Halictus	sp.	6909	
6/19/2017	25	DESE	Baileya	multiradiata		Native bee	Triepeolus	sp.	6910	
6/19/2017	25	DESE	Echinops	sp.		Native bee	Triepeolus	sp.	6911	
6/19/2017	25	DESE	Opuntia	sp.		Native bee	Melissodes	sp.	6912	

6/19/2017	25	DESE	*Encelia*	sp.		Native bee	*Melissodes*	sp.	6913	
6/19/2017	25	DESE	*Sphaeralcea*	sp.		Native bee	*Melissodes*	sp.	6914	
6/19/2017	25	DESE	*Sphaeralcea*	sp.		Native bee	*Halictus*	sp.	6915	
6/19/2017	25	KING	*Salvia*	sp.		Native bee	*Anthidiellum*	sp.	6916	
6/19/2017	25	KING	*Eschscholzia*	*californica*		Native bee	*Andrena*	sp.	6917	
6/27/2017	26	AUST_N	*Myoporum*	*parvifolium*		Native bee	*Agapostemon*	sp.	6918	
6/27/2017	26	AUST_N	*Myoporum*	*parvifolium*		Honeybee	*Apis*	*melifera*	6919	
6/27/2017	26	AUST_N	*Grevillea*	sp.		Honeybee	*Apis*	*melifera*	6920	
6/27/2017	26	AUST_N	*Grevillea*	sp.		Native bee	*Megachile*	sp.	6921	
6/27/2017	26	AUST_N	*Myoporum*	*parvifolium*		Native bee	*Triepeolus*	sp.	6924	
6/27/2017	26	AUST_N	*Billardiera*	sp.		Honeybee	*Apis*	*melifera*	6926	
6/27/2017	26	AUST_N	*Westringia*	sp.		Native bee	*Melissodes*	sp.	6927	
6/27/2017	26	AUST_N	*Arctostaphylos*	sp.		Native bee	*Xylocopa*	sp.	6928	
6/27/2017	26	AUST_N	*Westringia*	sp.		Bumble bee	*Bombus*	sp.	6930	
6/27/2017	26	AUST_N	*Westringia*	sp.		Native bee	*Anthidiellum*	sp.	6933	
6/27/2017	26	AUST_N	*Westringia*	sp.		Native bee	*Melissodes*		6937	
6/27/2017	26	AUST_N	*Westringia*	sp.		Native bee	*Andrena*	sp.	6938	
6/27/2017	26	AUST_S	*Apocynum*	sp.		Native bee	*Megachile*	sp.	6939	
6/27/2017	26	AUST_S	*Rosa*	*californica*		Honeybee	*Apis*	*melifera*	6940	
6/27/2017	26	AUST_S	*Convolvulus*	sp.		Honeybee	*Apis*	*melifera*	6941	
6/27/2017	26	AUST_S	*Eremophila*	*maculata*		Honeybee	*Apis*	*melifera*	6942	
6/27/2017	26	AUST_S	*Hebe*	sp.		Native bee	*Lasioglossum*	sp.	6944	
6/27/2017	26	AUST_S	*Hebe*	sp.		Native bee	*Anthidiellum*	sp.	6945	
6/27/2017	26	AUST_S	*Vitex*	sp.		Bumble bee	*Bombus*	sp.	6946	
6/27/2017	26	AUST_S	*Vitex*	sp.		Honeybee	*Apis*	*melifera*	6947	
6/27/2017	26	AUST_S	*Vitex*	sp.		Native bee	*Xylocopa*	sp.	6948	
6/27/2017	26	AUST_S	*Grevillea*	sp.		Honeybee	*Apis*	*melifera*	6949	
6/27/2017	26	AUST_S	*Grevillea*	sp.		Native bee	*Xylocopa*	sp.	6950	
6/27/2017	26	AUST_S	*Westringia*	sp.		Native bee	*Lasioglossum*	sp.	6951	
6/27/2017	26	AUST_S	*Westringia*	sp.		Native bee	*Halictus*	sp.	6953	
6/27/2017	26	AUST_S	*Westringia*	sp.		Native bee	*Andrena*	sp.	6954	
6/27/2017	26	AUST_S	*Ozothamnus*	*rosmarinifolius*		Native bee	*Andrena*	sp.	6955	
6/27/2017	26	AUST_S	*Anigozanthos*	*manglesii*		Native bee	*Lasioglossum*	sp.	6956	
6/27/2017	26	AUST_S	*Myoporum*	*parvifolium*		Native bee	*Lasioglossum*	sp.	6957	
6/27/2017	26	AUST_S	*Myoporum*	*parvifolium*		Native bee	*Agapostemon*	sp.	6958	
6/27/2017	26	AUST_S	*Anigozanthos*	sp.		Native bee	*Agapostemon*	sp.	6962	
6/27/2017	26	AUST_S	*Sonchus*	sp.		Native bee	*Andrena*	sp.	6963	
6/27/2017	26	AUST_S	*Parkinsonia*	sp.		Native bee	*Megachile*	sp.	6964	
6/27/2017	26	AUST_S	*Craspedia*	*globosa*		Native bee	*Andrena*	sp.	6965	
6/27/2017	26	AUST_S	*Westringia*	sp.		Honeybee	*Apis*	*melifera*	6966	
6/27/2017	26	AUST_S	*Westringia*	sp.		Native bee	*Megachile*	sp.	6968	
6/27/2017	26	AUST_S	*Westringia*	sp.		Native bee	*Anthidiellum*	sp.	6969	
6/27/2017	26	AUST_S	*Tipuana*	*tipu*		Bumble bee	*Bombus*	sp.	6970	
6/27/2017	26	AUST_S	*Tipuana*	*tipu*		Honeybee	*Apis*	*melifera*	6971	
6/27/2017	26	ERIC_S	*Lupinus*	sp.		Native bee	*Megachile*	sp.	6972	
6/27/2017	26	ERIC_S	*Lupinus*	sp.		Native bee	*Andrena*	sp.	6973	
6/27/2017	26	ERIC_S	*Bulbine*	sp.		Native bee	*Anthidiellum*	sp.	6974	
6/27/2017	26	GATE	*Rosa*	*californica*		Honeybee	*Apis*	*melifera*	6976	
6/27/2017	26	GATE	*Ipomoea*	sp.		Native bee	*Halictus*	sp.	6977	
6/27/2017	26	GATE	*Aster*	sp.		Native bee	*Triepeolus*	sp.	6978	
6/27/2017	26	GATE	*Grindelia*	sp.		Native bee	*Halictus*	sp.	6980	
6/27/2017	26	GATE	*Helianthus*	sp.		Native bee	*Halictus*	sp.	6981	
6/27/2017	26	GATE	*Grindelia*	sp.		Native bee	*Triepeolus*	sp.	6984	COLLECTED
6/27/2017	26	GATE	*Helianthus*	sp.		Native bee	*Andrena*	sp.	6985	
6/27/2017	26	GATE	*Helianthus*	sp.		Native bee	*Melissodes*	sp.	6986	
6/27/2017	26	GATE	*Grindelia*	sp.		Native bee	*Svastra*	sp.	6987	
6/27/2017	26	GATE	*Grindelia*	sp.		Native bee	*Melissodes*	sp.	6988	
6/27/2017	26	GATE	*Eschscholzia*	*californica*		Bumble bee	*Bombus*	sp.	6989	
6/27/2017	26	GATE	*Asclepias*	sp.		Honeybee	*Apis*	*melifera*	6992	
6/27/2017	26	GATE	*Asclepias*	sp.		Native bee	*Megachile*	sp.	6994	
6/27/2017	26	GATE	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	6997	
6/27/2017	26	GATE	*Eschscholzia*	*californica*		Honeybee	*Apis*	*melifera*	6998	
6/27/2017	26	GATE	*Apocynum*	sp.		Native bee	*Megachile*	sp.	7004	
6/27/2017	26	A_ST	*Eriogonum*	sp.		Honeybee	*Apis*	*melifera*	7007	
6/27/2017	26	A_ST	*Eriogonum*	sp.		Native bee	*Andrena*	sp.	7008	
6/27/2017	26	A_ST	*Eriogonum*	sp.		Native bee	*Triepeolus*	sp.	7009	
6/27/2017	26	A_ST	*Eschscholzia*	sp.		Native bee	*Andrena*	sp.	7010	
6/27/2017	26	A_ST	*Eschscholzia*	sp.		Native bee	*Halictus*	sp.	7011	
6/27/2017	26	REDW	*Heliotropium*	*curassavicum*		Native bee	*Halictus*	sp.	7013	
6/27/2017	26	REDW	*Heliotropium*	*curassavicum*		Native bee	*Lasioglossum*	sp.	7015	
6/27/2017	26	MWB	*Eriogonum*	sp.		Native bee	*Lasioglossum*	sp.	7018	
6/27/2017	26	MWB	*Romneya*		'White Cloud'	Native bee	*Andrena*	sp.	7019	
6/27/2017	26	MWB	*Ipomoea*	sp.		Native bee	*Andrena*	sp.	7020	
6/27/2017	26	MWB	*Heuchera*	*rosada*		Native bee	*Lasioglossum*	sp.	7021	
6/27/2017	26	MWB	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	7023	
6/27/2017	26	MWB	*Cephalanthus*	sp.		Honeybee	*Apis*	*melifera*	7024	
6/27/2017	26	MWB	*Stachys*	*albens*		Native bee	*Melissodes*	sp.	7026	
6/27/2017	26	MWB	*Stachys*	*albens*		Native bee	*Anthidium*	sp.	7029	
6/27/2017	26	MWB	*Stachys*	*albens*		Bumble bee	*Bombus*	sp.	7030	
6/27/2017	26	MWB	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	7031	

6/27/2017	26	MWB	*Salvia*	sp.	Native bee	*Anthidium*	sp.	7032	
6/27/2017	26	MWB	*Solidago*	sp.	Native bee	*Melissodes*	sp.	7033	
6/27/2017	26	MWB	*Solidago*	sp.	Native bee	*Andrena*	sp.	7034	
6/27/2017	26	MWB	*Dendromecon*	sp.	Native bee	*Halictus*	sp.	7035	
6/27/2017	26	MWB	*Asclepias*	sp.	Honeybee	*Apis*	*melifera*	7037	
6/27/2017	26	MWB	*Eschscholzia*	*californica*	Native bee	*Andrena*	sp.	7038	
6/27/2017	26	MWB	*Solidago*	sp.	Honeybee	*Apis*	*melifera*	7039	
6/27/2017	26	MWB	*Solidago*	sp.	Native bee	*Halictus*	sp.	7040	
6/27/2017	26	MWB	*Eriogonum*	sp.	Native bee	*Megachile*	sp.	7043	
6/27/2017	26	MWB	*Eriogonum*	sp.	Honeybee	*Apis*	*melifera*	7044	
6/27/2017	26	MWB	*Eriogonum*	sp.	Native bee	*Halictus*	sp.	7046	
6/27/2017	26	MWB	*Salvia*	sp.	Native bee	*Melissodes*	sp.	7050	
6/27/2017	26	MWB	*Salvia*	sp.	Native bee	*Melissodes*	sp.	7051	
6/27/2017	26	MWB	*Aster*	sp.	Native bee	*Halictus*	sp.	7052	
6/27/2017	26	MWB	*Aster*	sp.	Native bee	*Melissodes*	sp.	7053	
6/27/2017	26	MWB	*Anthriscus*	*sylvestris*	Native bee	*Hylaeus*	sp.	7054	
6/27/2017	26	MWB	*Asclepias*	sp.	Native bee	*Andrena*	sp.	7057	
6/27/2017	26	MWB	*Asclepias*	sp.	Native bee	*Halictus*	sp.	7058	
6/27/2017	26	MWB	*Eriogonum*	sp.	Native bee	*Nomada*	sp.	7061	COLLECTED
6/27/2017	26	MWB	*Eschscholzia*	*californica*	Bumble bee	*Bombus*	sp.	7062	
6/27/2017	26	MWB	*Bahiopsis*	*parishii*	Native bee	*Halictus*	sp.	7063	
6/27/2017	26	MWB	*Salvia*	sp.	Bumble bee	*Bombus*	sp	7064	
6/27/2017	26	MWB	*Salvia*	sp.	Native bee	*Xylocopa*	sp.	7065	
6/27/2017	26	MWB	*Ipomoea*	sp.	Native bee	*Agapostemon*	sp.	7068	
6/27/2017	26	MWB	*Achillea*	sp.	Native bee	*Halictus*	sp.	7069	
6/27/2017	26	MWB	*Grindelia*	sp.	Native bee	*Halictus*	sp.	7074	
6/27/2017	26	MWB	*Heliotropium*	*curassavicum*	Native bee	*Megachile*	sp.	7075	
6/27/2017	26	MWB	*Heliotropium*	*curassavicum*	Honeybee	*Apis*	*melifera*	7076	
6/27/2017	26	MWB	*Monarda*	sp.	Honey bee	*Apis*	*melifera*	7080	
6/27/2017	26	MWB	*Heliotropium*	*curassavicum*	Native bee	*Lasioglossum*	sp.	7081	
6/27/2017	26	MWB	*Eriogonum*	sp.	Native bee	*Megachile*	sp.	7082	
6/27/2017	26	FOOT	*Eriogonum*	sp.	Native bee	*Megachile*	sp.	7084	
6/27/2017	26	FOOT	*Eriogonum*	sp.	Honey bee	*Apis*	*melifera*	7086	
6/27/2017	26	FOOT	*Eriogonum*	sp.	Native bee	*Anthidiellum*	sp.	7087	
6/27/2017	26	FOOT	*Eriogonum*	sp.	Native bee	*Halictus*	sp.	7088	
6/27/2017	26	FOOT	*Cephalanthus*	sp.	Honey bee	*Apis*	*melifera*	7091	
6/27/2017	26	FOOT	*Encelia*	*californica*	Native bee	*Svastra*	sp.	7092	
6/27/2017	26	FOOT	*Encelia*	*californica*	Native bee	*Andrena*	sp.	7093	
6/27/2017	26	FOOT	*Encelia*	*californica*	Native bee	*Melissodes*	sp.	7095	
6/27/2017	26	ENTR	*Vitex*	sp.	Native bee	*Agapostemon*	sp.	7096	
6/27/2017	26	ENTR	*Vitex*	sp.	Honey bee	*Apis*	*melifera*	7097	
6/27/2017	26	ENTR	*Vitex*	sp.	Native bee	*Triepeolus*	sp.	7098	
6/27/2017	26	ENTR	*Vitex*	sp.	Native bee	*Megachile*	sp	7099	
6/27/2017	26	ENTR	*Vitex*	sp.	Native bee	*Halictus*	sp.	7101	
6/27/2017	26	ENTR	*Vitex*	sp.	Bumble bee	*Bombus*	sp.	7102	
6/27/2017	26	ENTR	*Vitex*	sp.	Native bee	*Melissodes*	sp.	7103	
6/27/2017	26	ENTR	*Perovskia*	sp.	Native bee	*Triepeolus*	sp.	7104	
6/27/2017	26	ENTR	*Perovskia*	sp.	Honey bee	*Apis*	*melifera*	7105	
6/27/2017	26	ENTR	*Perovskia*	sp.	Native bee	*Melissodes*	sp.	7106	
6/27/2017	26	ENTR	*Tagetes*	sp.	Native bee	*Triepeolus*	sp.	7107	
6/27/2017	26	ENTR	*Salvia*	sp.	Native bee	*Melissodes*	sp.	7111	
6/27/2017	26	ENTR	*Salvia*	sp.	Native bee	*Lasioglossum*	sp.	7113	
6/27/2017	26	ENTR	*Salvia*	sp.	Native bee	*Halictus*	sp.	7114	
6/27/2017	26	CHIL	*Alstroemeria*	sp.	Native bee	*Halictus*	sp.	7115	
6/27/2017	26	CHIL	*Alstroemeria*	sp.	Native bee	*Andrena*	sp.	7116	
6/27/2017	26	CHIL	*Alstroemeria*	sp.	Bumble bee	*Bombus*	sp.	7118	
6/27/2017	26	CHIL	*Alstroemeria*	sp.	Native bee	*Agapostemon*	sp.	7119	
6/27/2017	26	ARGE	*Veronica*	*nudiflora*	Native bee	*Svastra*	sp.	7122	
6/27/2017	26	ARGE	*Veronica*	*nudiflora*	Native bee	*Halictus*	sp.	7123	
6/27/2017	26	ARGE	*Lantana*	*montevidensis*	Native bee	*Melissodes*	sp.	7125	
6/27/2017	26	SWUS	*Gaillardia*	sp.	Native bee	*Triepeolus*	sp.	7127	
6/27/2017	26	SWUS	*Gaillardia*	sp.	Native bee	*Melissodes*	sp.	7128	
6/27/2017	26	SWUS	*Gaillardia*	sp.	Native bee	*Halictus*	sp.	7129	
6/27/2017	26	SWUS	*Gaillardia*	sp.	Native bee	*Svastra*	sp.	7130	
6/27/2017	26	SWUS	*Tecoma*	sp.	Native bee	*Peponapis*	sp.	7133	
6/27/2017	26	SWUS	*Tecoma*	sp.	Native bee	*Megachile*	sp	7135	
6/27/2017	26	SWUS	*Tecoma*	sp.	Native bee	*Halictus*	sp.	7136	
6/27/2017	26	SWUS	*Mimosa*	sp.	Bumble bee	*Bombus*	sp.	7137	
6/27/2017	26	SWUS	*Salvia*	sp.	Native bee	*Xylocopa*	sp.	7139	
6/27/2017	26	SWUS	*Vauquelinia*	*californica*	Honey bee	*Apis*	*melifera*	7140	
6/27/2017	26	SWUS	*Nolina*	sp.	Native bee	*Megachile*	sp.	7141	
6/27/2017	26	SWUS	X *Chitalpa*	*tashkentensis*	Honey bee	*Apis*	*melifera*	7142	
6/27/2017	26	SWUS	*Chilopsis*	*linearis*	Native bee	*Megachile*	sp.	7144	
6/27/2017	26	CONI	*Salvia*	*lyciodes*	Honey bee	*Apis*	*melifera*	7146	
6/27/2017	26	CONI	*Salvia*	*lyciodes*	Native bee	*Svastra*	sp.	7148	
6/27/2017	26	CONI	*Eriogonum*	*fasciculatum*	Native bee	*Anthidium*	sp.	7149	
6/27/2017	26	CONI	*Eriogonum*	*fasciculatum*	Honey bee	*Apis*	*melifera*	7150	
6/27/2017	26	CONI	*Eriogonum*	*fasciculatum*	Native bee	*Megachile*	sp.	7151	
6/27/2017	26	REDB	*Eriogonum*	*fasciculatum*	Native bee	*Halictus*	sp.	7152	
6/27/2017	26	DESE	*Larrea*	sp.	Native bee	*Megachile*	sp.	7154	

6/27/2017	26	DESE	*Larrea*	sp.		Native bee	*Xylocopa*	sp.	7159	
6/27/2017	26	DESE	*Chilopsis*	*linearis*		Honey bee	*Apis*	*melifera*	7157	
6/27/2017	26	DESE	*Larrea*	sp.		Honey bee	*Apis*	*melifera*	7160	
6/27/2017	26	DESE	*Larrea*	sp.		Native bee	*Anthidium*	sp.	7161	
6/27/2017	26	DESE	*Baileya*	*multiradiata*		Native bee	*Triepeolus*	sp.	7164	
6/27/2017	26	DESE	*Baileya*	*multiradiata*		Native bee	*Andrena*	sp.	7163	
6/27/2017	26	DESE	*Baileya*	*multiradiata*		Native bee	*Halictus*	sp.	7167	
6/27/2017	26	DESE	*Baileya*	*multiradiata*		Native bee	*Megachile*	sp.	7166	
6/27/2017	26	DESE	*Baileya*	*multiradiata*		Native bee	*Diadasia*	sp.	7174	
6/27/2017	26	DESE	*Encelia*	*californica*		Native bee	*Andrena*	sp.	7171	
6/27/2017	26	DESE	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	7175	
6/27/2017	26	DESE	*Nolina*	sp.		Honeybee	*Apis*	*melifera*	7176	
6/27/2017	26	DESE	*Encelia*	*californica*		Native bee	*Melissodes*	sp.	7178	
6/27/2017	26	DESE	*Encelia*	*californica*		Native bee	*Triepeolus*	sp.	7180	
6/27/2017	26	DESE	*Sphaeralcea*	sp.		Native bee	*Halictus*	sp.	7181	
6/27/2017	26	DESE	*Sphaeralcea*	sp.		Native bee	*Andrena*	sp.	7183	
6/27/2017	26	KING	*Salvia*	sp.		Native bee	*Anthidium*	sp.	7185	
6/27/2017	26	MRAK	*Salvia*		'Blauhugel'	Honeybee	*Apis*	*melifera*	7186	
6/27/2017	26	MRAK	*Salvia*		'Blauhugel'	Native bee	*Anthophora*	sp.	7189	
6/27/2017	26	MRAK	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	7190	
6/27/2017	26	MRAK	*Gaillardia*	sp.		Native bee	*Triepeolus*	sp.	7193	
6/27/2017	26	MRAK	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	7194	
6/27/2017	26	MRAK	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	7199	
6/27/2017	26	MRAK	*Abelia*	sp.		Honeybee	*Apis*	*melifera*	7200	
6/27/2017	26	MRAK	*Trifolium*	sp.		Honeybee	*Apis*	*melifera*	7201	
6/27/2017	26	MRAK	*Mentha*	sp.		Native bee	*Agapostemon*	sp.	7202	
6/27/2017	26	MRAK	*Mentha*	sp.		Honeybee	*Apis*	*melifera*	7204	
6/27/2017	26	MRAK	*Scabiosa*	sp.		Honeybee	*Apis*	*melifera*	7206	
6/27/2017	26	MRAK	*Scabiosa*	sp.		Native bee	*Melissodes*	sp.	7209	
6/27/2017	26	MRAK	*Scabiosa*	sp.		Bumble bee	*Bombus*	sp.	7210	
6/27/2017	26	MRAK	*Scabiosa*	sp.		Native bee	*Triepeolus*	sp.	7211	
6/27/2017	26	GAZE	*Gomphostigma*	*virgatum*		Native bee	*Halictus*	sp.	7214	
6/27/2017	26	GAZE	*Penstemon*	sp.		Native bee	*Megachile*	sp.	7216	
6/27/2017	26	GAZE	*Origanum*	sp.		Honeybee	*Apis*	*melifera*	7219	
6/27/2017	26	GAZE	*Origanum*	sp.		Native bee	*Megachile*	sp.	7220	
6/27/2017	26	GAZE	*Chrysanthemum*	sp.		Native bee	*Halictus*	sp.	7221	
6/27/2017	26	GAZE	*Vitex*	sp.		Honeybee	*Apis*	*melifera*	7222	
6/27/2017	26	GAZE	*Vitex*	sp.		Native bee	*Xylocopa*	sp.	7223	
6/27/2017	26	GAZE	*Vitex*	sp.		Bumble bee	*Bombus*	sp.	7224	
6/27/2017	26	GAZE	*Vitex*	sp.		Native bee	*Melissodes*	sp.	7226	
6/27/2017	26	GAZE	*Rosa*		'John F Kennedy'	Native bee	*Halictus*	sp.	7227	COLLECTED
6/27/2017	26	GAZE	*Hibiscus*	*syriacus*		Honeybee	*Apis*	*melifera*	7229	
6/27/2017	26	GAZE	*Gaura*	*lindheimeri*		Honeybee	*Apis*	*melifera*	7230	
6/27/2017	26	GAZE	*Gaura*	*lindheimeri*		Native bee	*Xylocopa*	sp.	7231	
6/27/2017	26	GAZE	*Agapanthus*	sp.		Honeybee	*Apis*	*melifera*	7232	
6/27/2017	26	GAZE	*Vitis*	sp.		Native bee	*Megachile*	sp.	7233	
6/27/2017	26	GAZE	*Magnolia*	*grandiflora*		Honeybee	*Apis*	*melifera*	7234	
6/27/2017	26	GAZE	*Salvia*	x *sylvestris*	'Schneehugel'	Honeybee	*Apis*	*melifera*	7235	
6/27/2017	26	GAZE	*Salvia*	x *sylvestris*	'Schneehugel'	Native bee	*Lasioglossum*	sp.	7237	
6/27/2017	26	GAZE	*Sedum*	album		Native bee	*Halictus*	sp.	7238	
6/27/2017	26	GAZE	*Vitex*	sp.		Native bee	*Megachile*	sp.	7239	
6/27/2017	26	GAZE	*Myrtus*	sp.		Bumble bee	*Bombus*	sp.	7240	
6/27/2017	26	GAZE	*Duranta*	*erecta*	'Alba'	Honeybee	*Apis*	*melifera*	7241	
6/27/2017	26	GAZE	*Duranta*	*erecta*	'Alba'	Bumble bee	*Bombus*	sp.	7242	
6/27/2017	26	GAZE	*Duranta*	*erecta*	'Alba'	Native bee	*Megachile*	sp.	7243	
6/27/2017	26	GAZE	*Crinodendron*	patagua		Honeybee	*Apis*	*melifera*	7244	
6/27/2017	26	STOR	*Pelargonium*	sp.		Native bee	*Halictus*	sp.	7245	
6/27/2017	26	STOR	*Stachys*	sp.		Bumble bee	*Bombus*	sp.	7249	
6/27/2017	26	STOR	*Scabiosa*	sp.		Native bee	*Melissodes*	sp.	7250	
6/27/2017	26	STOR	*Stachys*	sp.		Honeybee	*Apis*	*melifera*	7251	
6/27/2017	26	STOR	*Stachys*	sp.		Native bee	*Anthidium*	sp.	7252	
6/27/2017	26	STOR	*Penstemon*	sp.		Native bee	*Xylocopa*	sp.	7253	
6/27/2017	26	STOR	*Penstemon*	sp.		Honeybee	*Apis*	*melifera*	7254	
6/27/2017	26	STOR	*Salvia*	sp.		Native bee	*Megachile*	sp.	7255	
6/27/2017	26	STOR	*Origanum*	sp.		Honeybee	*Apis*	*melifera*	7257	
6/27/2017	26	STOR	*Penstemon*	sp.		Honeybee	*Apis*	*melifera*	7258	
6/27/2017	26	STOR	*Origanum*	sp.		Native bee	*Halictus*	sp.	7259	
6/27/2017	26	STOR	*Scabiosa*	sp.		Honeybee	*Apis*	*melifera*	7260	
6/27/2017	26	STOR	*Ballota*	*pseudodictamnus*		Honeybee	*Apis*	*melifera*	7261	
6/27/2017	26	STOR	*Scabiosa*	sp.		Native bee	*Halictus*	sp.	7262	
6/27/2017	26	STOR	*Verbena*	sp.		Honeybee	*Apis*	*melifera*	7263	
6/27/2017	26	STOR	*Ballota*	sp.		Bumble bee	*Bombus*	sp.	7270	
6/27/2017	26	STOR	*Thymus*	sp.		Honeybee	*Apis*	*melifera*	7275	
6/27/2017	26	STOR	*Salvia*	sp.		Native bee	*Lasioglossum*	sp.	7277	
6/27/2017	26	STOR	*Perovskia*	*atriplicifolia*		Honeybee	*Apis*	*melifera*	7278	
6/27/2017	26	STOR	*Scabiosa*	sp.		Native bee	*Lasioglossum*	sp.	7280	
6/27/2017	26	STOR	*Perovskia*	*atriplicifolia*		Native bee	*Megachile*	sp.	7281	
6/27/2017	26	STOR	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	7282	
6/27/2017	26	STOR	*Limonium*	sp.		Honeybee	*Apis*	*melifera*	7284	
6/27/2017	26	STOR	*Limonium*	sp.		Native bee	*Lasioglossum*	sp.	7285	

6/27/2017	26	STOR	*Erigeron*	*karvinskianus*		Native bee	*Halictus*	sp.	7286
6/27/2017	26	STOR	*Erigeron*	*karvinskianus*		Native bee	*Andrena*	sp.	7287
6/27/2017	26	STOR	*Limonium*	sp.		Native bee	*Andrena*	sp.	7289
6/27/2017	26	STOR	*Lavandula*		'Goodwin Creek Grey'	Honeybee	*Apis*	*melifera*	7290
6/27/2017	26	STOR	*Lavandula*		'Goodwin Creek Grey'	Native bee	*Megachile*	sp.	7291
6/27/2017	26	STOR	*Leonotis*	*leonurus*		Honeybee	*Apis*	*melifera*	7293
6/27/2017	26	STOR	*Teucrium*	sp.		Honeybee	*Apis*	*melifera*	7294
6/27/2017	26	STOR	*Lavandula*		'Lisa Marie'	Bumble bee	*Bombus*	sp.	7295
6/27/2017	26	STOR	*Gaura*	*lindheimeri*		Honeybee	*Apis*	*melifera*	7296
6/27/2017	26	STOR	*Gaura*	*lindheimeri*		Native bee	*Hylaeus*	sp.	7297
6/27/2017	26	STOR	*Rosa*		'Ausblush'	Native bee	*Halictus*	sp.	7301
6/27/2017	26	STOR	*Nepeta*	sp.		Native bee	*Lasioglossum*	sp.	7302
6/27/2017	26	STOR	*Limonium*	sp.		Native bee	*Megachile*	sp.	7303
6/27/2017	26	STOR	*Limonium*	sp.		Native bee	*Hylaeus*	sp.	7305
6/27/2017	26	STOR	*Delosperma*	sp.		Native bee	*Halictus*	sp.	7308
6/27/2017	26	STOR	*Limonium*	sp.		Native bee	*Halictus*	sp.	7309
6/27/2017	26	STOR	*Scabiosa*	sp.		Native bee	*Triepeolus*	sp.	7310
6/27/2017	26	STOR	*Scabiosa*	sp.		Bumble bee	*Bombus*	sp.	7313
6/27/2017	26	STOR	*Scabiosa*	sp.		Native bee	*Svastra*	sp.	7318
6/27/2017	26	STOR	*Scabiosa*	sp.		Native bee	*Agapostemon*	sp.	7317
6/27/2017	26	EASI	*Heuchera*		'Rosada'	Native bee	*Lasioglossum*	sp.	7321
6/27/2017	26	EASI	*Teucrium*	x *lucidrys*		Honeybee	*Apis*	*melifera*	7322
6/27/2017	26	EASI	*Echinacea*	sp.		Native bee	*Svastra*	sp.	7323
6/27/2017	26	EASI	*Aster*	sp.		Native bee	*Halictus*	sp.	7324
6/27/2017	26	EASI	*Agastache*	sp.		Native bee	*Anthidium*	sp.	7327
6/27/2017	26	EASI	*Agastache*	sp.		Honeybee	*Apis*	*melifera*	7328
6/27/2017	26	EASI	*Bulbine*	sp.		Native bee	*Anthidiellum*	sp.	7329
6/27/2017	26	EASI	*Convolvulus*	sp.		Native bee	*Hylaeus*	sp.	7331
6/27/2017	26	EASI	*Aster*	sp.		Native bee	*Triepeolus*	sp.	7332
6/27/2017	26	EASI	*Scabiosa*	sp.		Native bee	*Melissodes*	sp.	7333
6/27/2017	26	EASI	*Echinacea*	sp.		Native bee	*Svastra*	sp.	7335
6/27/2017	26	EASI	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	7336
6/27/2017	26	EASI	*Gaillardia*	sp.		Native bee	*Svastra*	sp.	7337
6/27/2017	26	EASI	*Aster*	sp.		Native bee	*Svastra*	sp.	7341
6/27/2017	26	EASI	*Delosperma*	sp.		Honeybee	*Apis*	*melifera*	7342
6/27/2017	26	EASI	*Delosperma*	sp.		Native bee	*Halictus*	sp.	7345
6/27/2017	26	EASI	*Delosperma*	sp.		Native bee	*Lasioglossum*	sp.	7346
6/27/2017	26	EASI	*Bahiopsis*	*parishii*		Native bee	*Melissodes*	sp.	7347
6/27/2017	26	EASI	*Lavandula*	sp.		Honeybee	*Apis*	*melifera*	7348
6/27/2017	26	EASI	*Bulbine*	sp.		Native bee	*Halictus*	sp.	7349
6/27/2017	26	EASI	*Salvia*	sp.		Native bee	*Lasioglossum*	sp.	7350
6/27/2017	26	EASI	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	7351
6/27/2017	26	EASI	*Eriogonum*	sp.		Honeybee	*Apis*	*melifera*	7352
6/27/2017	26	EASI	*Origanum*	sp.		Honeybee	*Apis*	*melifera*	7354
6/27/2017	26	EASI	*Solidago*	sp.		Native bee	*Halictus*	sp.	7355
6/27/2017	26	EASI	*Sedum*	sp.		Honeybee	*Apis*	*melifera*	7355
6/27/2017	26	EASI	*Sedum*	sp.		Native bee	*Megachile*	sp.	7356
6/27/2017	26	EASI	*Eriogonum*	sp.		Native bee	*Andrena*	sp.	7357
6/27/2017	26	EASI	*Aster*	sp.		Native bee	*Andrena*	sp.	7358
6/27/2017	26	EASI	*Nepeta*	sp.		Honeybee	*Apis*	*melifera*	7359
6/27/2017	26	EASI	*Bulbine*	sp.		Native bee	*Megachile*	sp.	7361
6/27/2017	26	EASI	*Salvia*	sp.		Native bee	*Megachile*	sp.	7362
6/27/2017	26	EASI	*Eryngium*	sp.		Native bee	*Lasioglossum*	sp.	7363
6/27/2017	26	EASI	*Eryngium*	sp.		Native bee	*Halictus*	sp.	7364
6/27/2017	26	SOAF	*Origanum*	sp.		Honeybee	*Apis*	*melifera*	7365
6/27/2017	26	SOAF	*Origanum*	sp.		Native bee	*Megachile*	sp.	7366
6/27/2017	26	SOAF	*Origanum*	sp.		Native bee	*Anthidiellum*	sp.	7367
6/27/2017	26	SOAF	*Leonotis*	sp.		Honeybee	*Apis*	*melifera*	7368
6/27/2017	26	SOAF	*Athanasia*	*dentata*		Native bee	*Hylaeus*	sp.	7369
6/27/2017	26	MEDI	*Lavandula*	sp.		Honeybee	*Apis*	*melifera*	7370
6/27/2017	26	MEDI	*Myrtus*	sp.		Honeybee	*Apis*	*melifera*	7371
6/27/2017	26	MEDI	*Rosmarinus*	sp.		Native bee	*Halictus*	sp.	7376
6/27/2017	26	MEDI	*Clematis*	sp.		Native bee	*Halictus*	sp.	7377
6/27/2017	26	MEDI	*Vitex*	sp.		Bumble bee	*Bombus*	sp.	7378
6/27/2017	26	MEDI	*Vitex*	sp.		Honeybee	*Apis*	*melifera*	7379
6/27/2017	26	MEDI	*Brassica*	sp.		Native bee	*Andrena*	sp.	7380
6/27/2017	26	MEDI	*Vitex*	sp.		Native bee	*Lasioglossum*	sp.	7382
6/27/2017	26	MEDI	*Vitex*	sp.		Native bee	*Halictus*	sp.	7384
6/27/2017	26	MEDI	*Vitex*	sp.		Native bee	*Anthidiellum*	sp.	7386
6/27/2017	26	MEDI	*Vitex*	sp.		Native bee	*Megachile*	sp.	7387
6/27/2017	26	MEDI	*Vitex*	sp.		Native bee	*Svastra*	sp.	7389
6/27/2017	26	MEDI	*Vitex*	sp.		Native bee	*Melissodes*	sp.	7390
6/27/2017	26	MEDI	*Perovskia*	*atriplicifolia*		Honeybee	*Apis*	*melifera*	7391
6/27/2017	26	MEDI	*Origanum*	sp.		Honeybee	*Apis*	*melifera*	7393
6/27/2017	26	MEDI	*Origanum*	sp.		Native bee	*Anthidiellum*	sp.	7394
6/27/2017	26	MEDI	*Origanum*	sp.		Native bee	*Megachile*	sp.	7395
6/27/2017	26	MEDI	*Myrtus*	sp.		Native bee	*Megachile*	sp.	7398
6/27/2017	26	MEDI	*Salvia*	sp.		Native bee	*Lasioglossum*	sp.	7399
6/27/2017	26	MEDI	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	7400
6/27/2017	26	MEDI	*Myoporum*	*parvifolium*		Honeybee	*Apis*	*melifera*	7401

6/27/2017	26	MEDI	*Thymus*	sp.	Honeybee	*Apis*	*melifera*	7402
6/27/2017	26	MEDI	*Myoporum*	*parvifolium*	Native bee	*Andrena*	sp.	7403
6/27/2017	26	LODG	*Chitalpa*	*tashkentensis*	Honeybee	*Apis*	*melifera*	7404
6/27/2017	26	LODG	*Abelia*	sp.	Native bee	*Agapostemon*	sp.	7405
6/27/2017	26	LODG	*Abelia*	sp.	Honeybee	*Apis*	*melifera*	7406
6/27/2017	26	LODG	*Lagerstroemia*	sp.	Native bee	*Megachile*	sp.	7407
6/27/2017	26	LODG	*Trifolium*	sp.	Native bee	*Megachile*	sp.	7408
6/27/2017	26	LODG	*Trifolium*	sp.	Honeybee	*Apis*	*melifera*	7409
6/27/2017	26	BOAT	*Origanum*	sp.	Honeybee	*Apis*	*melifera*	7410
6/27/2017	26	BOAT	*Salvia*	sp.	Native bee	*Halictus*	sp.	7411
6/27/2017	26	BOAT	*Lavandula*	sp.	Honeybee	*Apis*	*melifera*	7412
6/27/2017	26	BOAT	*Brassica*	sp.	Native bee	*Lasioglossum*	sp.	7413
6/27/2017	26	BOAT	*Thymus*	sp.	Honeybee	*Apis*	*melifera*	7416
6/27/2017	26	BOAT	*Teucrium*	sp.	Honeybee	*Apis*	*melifera*	7417
6/27/2017	26	COMM	*Brassica*	sp.	Native bee	*Lasioglossum*	sp.	7418
6/27/2017	26	COMM	*Cephalanthus*	sp.	Honeybee	*Apis*	*melifera*	7419
6/27/2017	26	COMM	*Myoporum*	*parvifolium*	Honeybee	*Apis*	*melifera*	7420
6/27/2017	26	COMM	*Brassica*	sp.	Honeybee	*Apis*	*melifera*	7421
6/27/2017	26	YOLO	*Encelia*	sp.	Honeybee	*Apis*	*melifera*	7424
6/27/2017	26	YOLO	*Brassica*	sp.	Honeybee	*Apis*	*melifera*	7425
6/27/2017	26	YOLO	*Brassica*	sp.	Native bee	*Lasioglossum*	sp.	7428
6/27/2017	26	YOLO	*Brassica*	sp.	Native bee	*Hylaeus*	sp.	7429
6/27/2017	26	MOUN	*Trifolium*	sp.	Honeybee	*Apis*	*melifera*	7430
7/7/2017	27	AUST_N	*Callistemon*	sp.	Honeybee	*Apis*	*melifera*	7432
7/7/2017	27	AUST_N	*Myoporum*	*parvifolium*	Honeybee	*Apis*	*melifera*	7434
7/7/2017	27	AUST_N	*Myoporum*	*parvifolium*	Native bee	*Agapostemon*	sp.	7435
7/7/2017	27	AUST_N	*Myoporum*	*parvifolium*	Native bee	*Lasioglossum*	sp.	7436
7/7/2017	27	AUST_N	*Myoporum*	*parvifolium*	Bumble bee	*Bombus*	sp.	7437
7/7/2017	27	AUST_N	*Sonchus*	sp.	Native bee	*Andrena*	sp.	7439
7/7/2017	27	AUST_N	*Grevillea*	sp.	Honeybee	*Apis*	*melifera*	7440
7/7/2017	27	AUST_N	*Grevillea*	sp.	Native bee	*Xylocopa*	sp.	7441
7/7/2017	27	AUST_N	*Myoporum*	*parvifolium*	Native bee	*Megachile*	sp.	7442
7/7/2017	27	AUST_N	*Westringia*	sp.	Native bee	*Melissodes*	sp.	7450
7/7/2017	27	AUST_N	*Westringia*	sp.	Native bee	*Agapostemon*	sp.	7451
7/7/2017	27	AUST_S	*Apocynum*	*cannabinum*	Honeybee	*Apis*	*melifera*	7452
7/7/2017	27	AUST_S	*Apocynum*	*cannabinum*	Native bee	*Megachile*	sp.	7455
7/7/2017	27	AUST_S	*Eremophila*	*maculata*	Native bee	*Megachile*	sp.	7456
7/7/2017	27	AUST_S	*Eremophila*	sp.	Native bee	*Lasioglossum*	sp.	7457
7/7/2017	27	AUST_S	*Eremophila*	sp.	Honeybee	*Apis*	*melifera*	7458
7/7/2017	27	AUST_S	*Ipomoea*	sp.	Native bee	*Lasioglossum*	sp.	7460
7/7/2017	27	AUST_S	*Ipomoea*	sp.	Native bee	*Hylaeus*	sp.	7462
7/7/2017	27	AUST_S	*Hebe*	sp.	Native bee	*Megachile*	sp.	7463
7/7/2017	27	AUST_S	*Hebe*	sp.	Native bee	*Melissodes*	sp.	7466
7/7/2017	27	AUST_S	*Hebe*	sp.	Native bee	*Agapostemon*	sp.	7468
7/7/2017	27	AUST_S	*Vitex*	sp.	Native bee	*Melissodes*	sp.	7469
7/7/2017	27	AUST_S	*Grevillea*	sp.	Honeybee	*Apis*	*melifera*	7470
7/7/2017	27	AUST_S	*Westringia*	sp.	Native bee	*Anthidiellum*	sp.	7472
7/7/2017	27	AUST_S	*Sonchus*	sp.	Native bee	*Halictus*	sp.	7473
7/7/2017	27	AUST_S	*Sonchus*	sp.	Native bee	*Andrena*	sp.	7474
7/7/2017	27	AUST_S	*Parkinsonia*	sp.	Native bee	*Megachile*	sp.	7475
7/7/2017	27	AUST_S	*Ozothamnus*	*rosmarinifolius*	Native bee	*Andrena*	sp.	7476
7/7/2017	27	AUST_S	*Ozothamnus*	*rosmarinifolius*	Native bee	*Halictus*	sp.	7478
7/7/2017	27	AUST_S	*Westringia*	sp.	Native bee	*Halictus*	sp.	7479
7/7/2017	27	ERIC_S	*Kickxia*	*elatine*	Honeybee	*Apis*	*melifera*	7482
7/7/2017	27	GATE	*Convolvulus*	sp.	Honeybee	*Apis*	*melifera*	7484
7/7/2017	27	GATE	*Grindelia*	sp.	Native bee	*Halictus*	sp.	7485
7/7/2017	27	GATE	*Grindelia*	sp.	Native bee	*Andrena*	sp.	7486
7/7/2017	27	GATE	*Grindelia*	sp.	Native bee	*Svastra*	sp.	7487
7/7/2017	27	GATE	*Eschscholzia*	*californica*	Native bee	*Halictus*	sp.	7488
7/7/2017	27	GATE	*Convolvulus*	sp.	Native bee	*Halictus*	sp.	7489
7/7/2017	27	GATE	*Grindelia*	sp.	Native bee	*Triepeolus*	sp.	7491
7/7/2017	27	GATE	*Grindelia*	sp.	Native bee	*Anthophora*	sp.	7492
7/7/2017	27	GATE	*Grindelia*	sp.	Native bee	*Melissodes*	sp.	7493
7/7/2017	27	GATE	*Helianthus*	sp.	Native bee	*Melissodes*	sp.	7494
7/7/2017	27	GATE	*Helianthus*	sp.	Honeybee	*Apis*	*melifera*	7495
7/7/2017	27	GATE	*Eschscholzia*	*californica*	Native bee	*Lasioglossum*	sp.	7500
7/7/2017	27	GATE	*Asclepias*	sp.	Honeybee	*Apis*	*melifera*	7501
7/7/2017	27	GATE	*Convolvulus*	sp.	Native bee	*Agapostemon*	sp.	7506
7/7/2017	27	GATE	*Rosa*	*californica*	Native bee	*Megachile*	sp.	7508
7/7/2017	27	GATE	*Rosa*	*californica*	Native bee	*Megachile*	sp.	7509
7/7/2017	27	GATE	*Eschscholzia*	*californica*	Honeybee	*Apis*	*melifera*	7510
7/7/2017	27	GATE	*Eschscholzia*	*californica*	Honeybee	*Apis*	*melifera*	7511
7/7/2017	27	A_ST	*Eschscholzia*	*californica*	Native bee	*Halictus*	sp.	7515
7/7/2017	27	A_ST	*Eriogonum*	sp.	Native bee	*Nomada*	sp.	7516
7/7/2017	27	A_ST	*Eriogonum*	sp.	Honeybee	*Apis*	*melifera*	7517
7/7/2017	27	REDW	*Eschscholzia*	*californica*	Native bee	*Halictus*	sp.	7518
7/7/2017	27	REDW	*Heliotropium*	*curassavicum*	Native bee	*Halictus*	sp.	7522
7/7/2017	27	REDW	*Heliotropium*	*curassavicum*	Native bee	*Andrena*	sp.	7523
7/7/2017	27	REDW	*Heliotropium*	*curassavicum*	Native bee	*Agapostemon*	sp.	7524
7/7/2017	27	REDW	*Heliotropium*	*curassavicum*	Honeybee	*Apis*	*melifera*	7525

7/7/2017	27	REDW	*Heliotropium*	*curassavicum*		Native bee	*Ceratina*	sp.	7526
7/7/2017	27	REDW	*Heliotropium*	*curassavicum*		Native bee	*Lasioglossum*	sp.	7527
7/7/2017	27	MWB	*Aster*	sp.		Native bee	*Halictus*	sp.	7528
7/7/2017	27	MWB	*Solanum*	sp.		Bumble bee	*Bombus*	sp.	7529
7/7/2017	27	MWB	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	7530
7/7/2017	27	MWB	*Eschscholzia*	*californica*		Honeybee	*Apis*	*melifera*	7531
7/7/2017	27	MWB	*Salvia*	*apiana*		Bumble bee	*Bombus*	sp.	7532
7/7/2017	27	MWB	*Eschscholzia*	*californica*		Bumble bee	*Bombus*	sp.	7533
7/7/2017	27	MWB	*Anemopsis*	*californica*		Native bee	*Melissodes*	sp.	7540
7/7/2017	27	MWB	*Salvia*	sp.		Native bee	*Anthidium*	sp.	7542
7/7/2017	27	MWB	*Stachys*	*albens*		Native bee	*Anthidium*	sp.	7543
7/7/2017	27	MWB	*Solidago*	sp.		Native bee	*Halictus*	sp.	7544
7/7/2017	27	MWB	*Solidago*	sp.		Native bee	*Andrena*	sp.	7545
7/7/2017	27	MWB	*Phacelia*	sp.		Native bee	*Halictus*	sp.	7546
7/7/2017	27	MWB	*Eriogonum*	sp.		Nativebee	*Megachile*	sp.	7550
7/7/2017	27	MWB	*Eriogonum*	sp.		Honeybee	*Apis*	*melifera*	7551
7/7/2017	27	MWB	*Eriogonum*	sp.		Bumble bee	*Bombus*	sp.	7553
7/7/2017	27	MWB	*Eriogonum*	sp.		Native bee	*Hylaeus*	sp.	7555
7/7/2017	27	MWB	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	7556
7/7/2017	27	MWB	*Heracleum*	*lanatum*		Honey bee	*Apis*	*melifera*	7557
7/7/2017	27	MWB	*Heracleum*	*lanatum*		Nativebee	*Hylaeus*	sp.	7558
7/7/2017	27	MWB	*Eriogonum*	sp.		Nativebee	*Anthidiellum*	sp.	7559
7/7/2017	27	MWB	*Penstemon*	sp.		Native bee	*Lasioglossum*	sp.	7561
7/7/2017	27	MWB	*Eriogonum*	sp.		Nativebee	*Lasioglossum*	sp.	7564
7/7/2017	27	MWB	*Eriogonum*	sp.		Native bee	*Triepeolus*	sp.	7566
7/7/2017	27	MWB	*Salvia*	*apiana*		Honey bee	*Apis*	*melifera*	7568
7/7/2017	27	MWB	*Convolvulus*	sp.		Native bee	*Andrena*	sp.	7569
7/7/2017	27	MWB	*Achillea*	sp.		Native bee	*Halictus*	sp.	7571
7/7/2017	27	MWB	*Erigeron*		'Wyane Roderick'	Native bee	*Halictus*	sp.	7572
7/7/2017	27	MWB	*Convolvulus*	sp.		Honey bee	*Apis*	*melifera*	7574
7/7/2017	27	MWB	*Convolvulus*	sp.		Native bee	*Agapostemon*	sp.	7576
7/7/2017	27	MWB	*Grindelia*	sp.		Native bee	*Halictus*	sp.	7577
7/7/2017	27	MWB	*Salvia*	sp.		Native bee	*Melissodes*	sp.	7578
7/7/2017	27	MWB	*Fremontodendron*	sp.		Honey bee	*Apis*	*melifera*	7579
7/7/2017	27	MWB	*Heliotropium*	*curassavicum*		Native bee	*Lasioglossum*	sp.	7580
7/7/2017	27	MWB	*Heliotropium*	*curassavicum*		Native bee	*Megachile*	sp.	7581
7/7/2017	27	MWB	*Heliotropium*	*curassavicum*		Native bee	*Halictus*	sp.	7582
7/7/2017	27	MWB	*Aster*	sp.		Native bee	*Triepeolus*	sp.	7585
7/7/2017	27	MWB	*Aster*	sp.		Native bee	*Melissodes*	sp.	7586
7/7/2017	27	MWB	*Acmispon*	*americanus*		Native bee	*Anthidiellum*	sp.	7587
7/7/2017	27	FOOT	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	7588
7/7/2017	27	FOOT	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	7589
7/7/2017	27	FOOT	*Eriogonum*	sp.		Native bee	*Megachile*	sp.	7590
7/7/2017	27	FOOT	*Eriogonum*	sp.		Native bee	*Anthidiellum*	sp.	7591
7/7/2017	27	ENTR	*Vitex*	*agnus-cactus*		Honey bee	*Apis*	*melifera*	7592
7/7/2017	27	ENTR	*Vitex*	*agnus-cactus*		Native bee	*Melissodes*	sp.	7596
7/7/2017	27	ENTR	*Nepeta*	x *faassenii*		Native bee	*Lasioglossum*	sp.	7597
7/7/2017	27	ENTR	*Perovskia*	*atriplicifolia*		Honey bee	*Apis*	*melifera*	7598
7/7/2017	27	ENTR	*Salvia*	sp.		Native bee	*Melissodes*	sp.	7600
7/7/2017	27	ENTR	*Perovskia*	*atriplicifolia*		Native bee	*Megachile*	sp.	7601
7/7/2017	27	ENTR	*Perovskia*	*atriplicifolia*		Native bee	*Anthidiellum*	sp.	7602
7/7/2017	27	ENTR	*Perovskia*	*atriplicifolia*		Native bee	*Triepeolus*	sp.	7604
7/7/2017	27	ENTR	*Vitex*	sp.		Native bee	*Halictus*	sp.	7606
7/7/2017	27	ENTR	*Vitex*	sp.		Bumble bee	*Bombus*	sp.	7610
7/7/2017	27	ENTR	*Vitex*	sp.		Native bee	*Anthidiellum*	sp.	7611
7/7/2017	27	ENTR	*Dasylirion*	*wheeleri*		Honey bee	*Apis*	*melifera*	7612
7/7/2017	27	REDB	*Eriogonum*	sp.		Native bee	*Lasioglossum*	sp.	7613
7/7/2017	27	REDB	*Eriogonum*	sp.		Native bee	*Andrena*	sp.	7614
7/7/2017	27	DESE	*Larrea*	sp.		Native bee	*Halictus*	sp.	7615
7/7/2017	27	DESE	*Baileya*	sp.		Native bee	*Halictus*	sp.	7616
7/7/2017	27	DESE	*Encelia*	sp.		Native bee	*Triepeolus*	sp.	7617
7/7/2017	27	DESE	*Nolina*	sp.		Honey bee	*Apis*	*melifera*	7618
7/7/2017	27	DESE	*Nolina*	sp.		Native bee	*Megachile*	sp.	7619
7/7/2017	27	DESE	*Sphaeralcea*	sp.		Native bee	*Halictus*	sp.	7620
7/7/2017	27	DESE	*Sphaeralcea*	sp.		Native bee	*Svastra*	sp.	7621
7/7/2017	27	DESE	*Salvia*	sp.		Native bee	*Lasioglossum*	sp.	7622
7/7/2017	27	MRAK	*Apentia*		'Red Apple'	Honey bee	*Apis*	*melifera*	7623
7/7/2017	27	MRAK	*Salvia*		'Blauhugel'	Honey bee	*Apis*	*melifera*	7624
7/7/2017	27	MRAK	*Salvia*		'Blauhugel'	Native bee	*Svastra*	sp.	7627
7/7/2017	27	MRAK	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	7629
7/7/2017	27	MRAK	*Salvia*		'Blauhugel'	Native bee	*Melissodes*	sp.	7630
7/7/2017	27	MRAK	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	7631
7/7/2017	27	MRAK	*Gaura*	*lindheimeri*		Native bee	*Halictus*	sp.	7632
7/7/2017	27	MRAK	*Salvia*		'Blauhugel'	Native bee	*Triepeolus*	sp.	7633
7/7/2017	27	MRAK	*Abelia*	sp.		Honey bee	*Apis*	*melifera*	7635
7/7/2017	27	MRAK	*Abelia*	sp.		Native bee	*Megachile*	sp.	7636
7/7/2017	27	MRAK	*Abelia*	sp.		Native bee	*Xylocopa*	sp.	7637
7/7/2017	27	MRAK	*Mentha*	sp.		Honey bee	*Apis*	*melifera*	7638
7/7/2017	27	MRAK	*Mentha*	sp.		Native bee	*Melissodes*	sp.	7640
7/7/2017	27	MRAK	*Mentha*	sp.		Native bee	*Triepeolus*	sp.	7641

7/7/2017	27	MRAK	*Mentha*	sp.		Native bee	*Megachile*	sp.	7642
7/7/2017	27	MRAK	*Hibiscus*	*mutabilis*	'Ruber'	Native bee	*Melissodes*	sp.	7644
7/7/2017	27	MRAK	*Penstemon*	sp.		Native bee	*Lasioglossum*	sp.	7646
7/7/2017	27	MRAK	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	7649
7/7/2017	27	MRAK	*Scabiosa*	sp.		Bumble bee	*Bombus*	sp.	7651
7/7/2017	27	MRAK	*Scabiosa*	sp.		Native bee	*Halictus*	sp.	7652
7/7/2017	27	MRAK	*Scabiosa*	sp.		Native bee	*Triepeolus*	sp.	7653
7/7/2017	27	MRAK	*Scabiosa*	sp.		Native bee	*Lasioglossum*	sp.	7654
7/7/2017	27	MRAK	*Scabiosa*	sp.		Native bee	*Andrena*	sp.	7655
7/7/2017	27	GAZE	*Romneya*	sp.		Honey bee	*Apis*	*melifera*	7657
7/7/2017	27	GAZE	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	7658
7/7/2017	27	GAZE	*Origanum*	sp.		Native bee	*Lasioglossum*	sp.	7660
7/7/2017	27	GAZE	*Vitex*	sp.		Native bee	*Lasioglossum*	sp.	7661
7/7/2017	27	GAZE	*Hibiscus*	*syriacus*		Honey bee	*Apis*	*melifera*	7662
7/7/2017	27	GAZE	*Hibiscus*	*syriacus*		Bumble bee	*Bombus*	sp.	7663
7/7/2017	27	GAZE	*Buddleja*	sp.		Honey bee	*Apis*	*melifera*	7665
7/7/2017	27	GAZE	*Nicotiana*	*sylvestris*		Native bee	*Lasioglossum*	sp.	7666
7/7/2017	27	GAZE	*Nicotiana*	*sylvestris*		Honey bee	*Apis*	*melifera*	7667
7/7/2017	27	GAZE	*Agapanthus*	sp.		Native bee	*Halictus*	sp.	7669
7/7/2017	27	GAZE	*Salvia*	x *sylvestris*		Honey bee	*Apis*	*melifera*	7672
7/7/2017	27	GAZE	*Vitex*	sp.		Native bee	*Melissodes*	sp.	7674
7/7/2017	27	GAZE	*Vitex*	sp.		Native bee	*Svastra*	sp.	7675
7/7/2017	27	GAZE	*Vitex*	sp.		Native bee	*Megachile*	sp.	7676
7/7/2017	27	GAZE	*Hibiscus*	*syriacus*		Native bee	*Melissodes*	sp.	7677
7/7/2017	27	GAZE	*Magnolia*	sp.		Honey bee	*Apis*	*melifera*	7679
7/7/2017	27	GAZE	*Ligustrum*	*quihoui*		Honey bee	*Apis*	*melifera*	7680
7/7/2017	27	STOR	*Rosa*		'Jacgem'	Native bee	*Halictus*	sp.	7681
7/7/2017	27	STOR	*Penstemon*	sp.		Honey bee	*Apis*	*melifera*	7682
7/7/2017	27	STOR	*Scabiosa*	sp.		Bumble bee	*Bombus*	sp.	7683
7/7/2017	27	STOR	*Stachys*	sp.		Native bee	*Anthidium*	sp.	7686
7/7/2017	27	STOR	*Salvia*	sp.		Native bee	*Anthidium*	sp.	7687
7/7/2017	27	STOR	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	7688
7/7/2017	27	STOR	*Scabiosa*	sp.		Native bee	*Halictus*	sp.	7689
7/7/2017	27	STOR	*Epilobium*	sp.		Native bee	*Xylocopa*	sp.	7690
7/7/2017	27	STOR	*Balotta*	sp.		Native bee	*Anthidium*	sp.	7691
7/7/2017	27	STOR	*Scabiosa*	sp.		Honey bee	*Apis*	*melifera*	7692
7/7/2017	27	STOR	*Balotta*	sp.		Honey bee	*Apis*	*melifera*	7693
7/7/2017	27	STOR	*Bulbine*	sp.		Native bee	*Xylocopa*	sp.	7697
7/7/2017	27	STOR	*Tulbaghia*	sp.		Honey bee	*Apis*	*melifera*	7698
7/7/2017	27	STOR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	7699
7/7/2017	27	STOR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	7701
7/7/2017	27	STOR	*Thymus*	sp.		Honey bee	*Apis*	*melifera*	7702
7/7/2017	27	STOR	*Salvia*	sp.		Native bee	*Lasioglossum*	sp.	7704
7/7/2017	27	STOR	*Delosperma*	sp.		Native bee	*Lasioglossum*	sp.	7705
7/7/2017	27	STOR	*Scabiosa*	sp.		Native bee	*Melissodes*	sp.	7707
7/7/2017	27	STOR	*Verbena*	sp.		Honey bee	*Apis*	*melifera*	7710
7/7/2017	27	STOR	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	7711
7/7/2017	27	STOR	*Limonium*	sp.		Honey bee	*Apis*	*melifera*	7712
7/7/2017	27	STOR	*Delosperma*	sp.		Native bee	*Halictus*	sp.	7713
7/7/2017	27	STOR	*Glaucium*	sp.		Honey bee	*Apis*	*melifera*	7714
7/7/2017	27	STOR	*Teucrium*	*hyrcanium*		Honey bee	*Apis*	*melifera*	7715
7/7/2017	27	STOR	*Bulbine*	sp.		Native bee	*Lasioglossum*	sp.	7717
7/7/2017	27	STOR	*Lagerstroemia*	sp.		Native bee	*Halictus*	sp.	7718
7/7/2017	27	STOR	*Buddleja*	sp.		Honey bee	*Apis*	*melifera*	7719
7/7/2017	27	STOR	*Saponaria*	x *lempergii*	'Max Frei'	Native bee	*Lasioglossum*	sp.	7720
7/7/2017	27	STOR	*Buddleja*	sp.		Native bee	*Megachile*	sp.	7722
7/7/2017	27	STOR	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	7724
7/7/2017	27	EASI	*Erysimum*	sp.		Native bee	*Halictus*	sp.	7725
7/7/2017	27	EASI	*Erysimum*	sp.		Native bee	*Lasioglossum*	sp.	7726
7/7/2017	27	EASI	*Teucrium*	x *lucidrys*		Honey bee	*Apis*	*melifera*	7727
7/7/2017	27	EASI	*Aster*	sp.		Native bee	*Halictus*	sp.	7728
7/7/2017	27	EASI	*Agastache*	sp.		Honey bee	*Apis*	*melifera*	7729
7/7/2017	27	EASI	*Echinacea*	sp.		Honey bee	*Apis*	*melifera*	7730
7/7/2017	27	EASI	*Aster*	sp.		Native bee	*Andrena*	sp.	7731
7/7/2017	27	EASI	*Echinacea*	sp.		Native bee	*Melissodes*	sp.	7738
7/7/2017	27	EASI	*Echinacea*	sp.		Native bee	*Svastra*	sp.	7739
7/7/2017	27	EASI	*Bulbine*	sp.		Native bee	*Anthidiellum*	sp.	7741
7/7/2017	27	EASI	*Echinacea*	sp.		Native bee	*Halictus*	sp.	7742
7/7/2017	27	EASI	*Agastache*	sp.		Native bee	*Xylocopa*	sp.	7743
7/7/2017	27	EASI	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	7744
7/7/2017	27	EASI	*Salvia*	sp.		Native bee	*Anthidiellum*	sp.	7746
7/7/2017	27	EASI	*Salvia*	sp.		Native bee	*Halictus*	sp.	7747
7/7/2017	27	EASI	*Convolvulus*	sp.		Native bee	*Agapostemon*	sp.	7749
7/7/2017	27	EASI	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	7750
7/7/2017	27	EASI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	7752
7/7/2017	27	EASI	*Bulbine*	sp.		Native bee	*Lasioglossum*	sp.	7753
7/7/2017	27	EASI	*Eriogonum*	sp.		Native bee	*Lasioglossum*	sp.	7755
7/7/2017	27	EASI	*Bulbine*	sp.		Native bee	*Megachile*	sp.	7758
7/7/2017	27	EASI	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	7759
7/7/2017	27	EASI	*Solidago*	*californica*	'Cascade Creek'	Native bee	*Halictus*	sp.	7760

7/7/2017	27	EASI	Origanum	sp.		Bumble bee	Bombus	sp.	7761	
7/7/2017	27	EASI	Sedum	sp.		Native bee	Agapostemon	sp.	7762	
7/7/2017	27	EASI	Eriogonum	sp.		Honey bee	Apis	melifera	7763	
7/7/2017	27	EASI	Eriogonum	sp.		Native bee	Halictus	sp.	7765	
7/7/2017	27	EASI	Salvia	sp.		Native bee	Xylocopa	sp.	7766	
7/7/2017	27	EASI	Lagerstroemia	sp.		Honey bee	Apis	melifera	7767	
7/7/2017	27	EASI	Lagerstroemia	sp.		Native bee	Halictus	sp.	7768	
7/7/2017	27	EASI	Eryngium	sp.		Native bee	Megachile	sp.	7769	
7/7/2017	27	SOAF	Origanum	sp.		Honey bee	Apis	melifera	7770	
7/7/2017	27	SOAF	Origanum	sp.		Native bee	Megachile	sp.	7772	
7/7/2017	27	SOAF	Origanum	sp.		Native bee	Anthidium	sp.	7773	
7/7/2017	27	MOUN	Trifolium	sp.		Honey bee	Apis	melifera	7774	
7/7/2017	27	SOAF	Myoporum	parvifolium		Honey bee	Apis	melifera	7775	
7/7/2017	27	MEDI	Lavandula	sp.		Honey bee	Apis	melifera	7776	
7/7/2017	27	MEDI	Myrtus	sp.		Honey bee	Apis	melifera	7777	
7/7/2017	27	MEDI	Brassica	sp.		Native bee	Lasioglossum	sp.	7778	
7/7/2017	27	MEDI	Clematis	sp.		Native bee	Halictus	sp.	7781	
7/7/2017	27	MEDI	Clematis	sp.		Honey bee	Apis	melifera	7782	
7/7/2017	27	MEDI	Brassica	sp.		Honey bee	Apis	melifera	7785	
7/7/2017	27	MEDI	Brassica	sp.		Native bee	Halictus	sp.	7784	
7/7/2017	27	MEDI	Brassica	sp.		Native bee	Megachile	sp.	7787	
7/7/2017	27	MEDI	Brassica	sp.		Native bee	Andrena	sp.	7789	
7/7/2017	27	MEDI	Vitex	sp.		Native bee	Halictus	sp.	7790	
7/7/2017	27	MEDI	Vitex	sp.		Bumble bee	Bombus	sp.	7791	
7/7/2017	27	MEDI	Perovskia	sp.		Honey bee	Apis	melifera	7792	
7/7/2017	27	MEDI	Perovskia	sp.		Native bee	Melissodes	sp.	7793	
7/7/2017	27	MEDI	Perovskia	sp.		Native bee	Megachile	sp.	7794	
7/7/2017	27	MEDI	Nepeta	sp.		Honey bee	Apis	melifera	7796	
7/7/2017	27	MEDI	Salvia	sp.		Native bee	Anthidium	sp.	7797	
7/7/2017	27	MEDI	Myoporum	parvifolium		Honey bee	Apis	melifera	7798	
7/7/2017	27	MEDI	Myoporum	parvifolium		Native bee	Andrena	sp.	7799	
7/7/2017	27	MEDI	Myoporum	parvifolium		Native bee	Agapostemon	sp.	7800	
7/7/2017	27	MEDI	Pterocephalus	dumetorum		Honey bee	Apis	melifera	7802	
7/7/2017	27	MEDI	Origanum	sp.		Honey bee	Apis	melifera	7803	
7/7/2017	27	MEDI	Capparis	spinosa		Honey bee	Apis	melifera	7804	
7/7/2017	27	MEDI	Lavatera	maritima		Native bee	Agapostemon	sp.	7806	
7/7/2017	27	MEDI	Vitex	sp.		Honey bee	Apis	melifera	7809	
7/7/2017	27	ARGE	Veronica	sp.		Native bee	Svastra	sp.	7812	COLLECTED
7/7/2017	27	ARGE	Veronica	sp.		Honey bee	Apis	melifera	7813	
7/7/2017	27	ARGE	Veronica	sp.		Bumble bee	Bombus	sp.	7822	
7/7/2017	27	ARGE	Veronica	sp.		Native bee	Halictus	sp.	7823	
7/7/2017	27	ARGE	Veronica	sp.		Native bee	Andrena	sp.	7824	
7/7/2017	27	ARGE	Raphanus	sp.		Native bee	Lasioglossum	sp.	7825	
7/7/2017	27	SWUS	Convolvulus	sp.		Native bee	Lasioglossum	sp.	7826	
7/7/2017	27	SWUS	Salvia	sp.		Native bee	Anthidium	sp.	7829	
7/7/2017	27	SWUS	Gaura	lindheimeri		Native bee	Megachile	sp.	7831	
7/7/2017	27	SWUS	Gaillardia	sp.		Native bee	Triepeolus	sp.	7833	
7/7/2017	27	SWUS	Gaillardia	sp.		Native bee	Halictus	sp.	7834	
7/7/2017	27	SWUS	Gaillardia	sp.		Native bee	Melissodes	sp.	7835	
7/7/2017	27	SWUS	Tecoma	x	'Sunrise'	Native bee	Halictus	sp.	7838	
7/7/2017	27	SWUS	Leucophyllum	sp.		Native bee	Halictus	sp.	7840	
7/7/2017	27	SWUS	Leucophyllum	sp.		Honey bee	Apis	melifera	7842	
7/7/2017	27	SWUS	Leucophyllum	sp.		Native bee	Lasioglossum	sp.	7845	
7/7/2017	27	SWUS	Salvia	sp.		Native bee	Halictus	sp.	7847	
7/7/2017	27	SWUS	Convolvulus	sp.		Honey bee	Apis	melifera	7848	
7/7/2017	27	SWUS	Vauquelinia	californica		Honey bee	Apis	melifera	7851	
7/7/2017	27	SWUS	Chitalpa	sp.		Honey bee	Apis	melifera	7852	
7/7/2017	27	SWUS	Nolina	sp.		Native bee	Megachile	sp.	7853	
7/7/2017	27	SWUS	Nolina	sp.		Native bee	Halictus	sp.	7854	
7/7/2017	27	SWUS	Chilopsis	linearis		Native bee	Megachile	sp.	7856	
7/7/2017	27	SWUS	Salvia	sp.		Native bee	Xylocopa	sp.	7857	
7/7/2017	27	CONI	Eriogonum	sp.		Honey bee	Apis	melifera	7858	
7/7/2017	27	CONI	Eriogonum	sp.		Native bee	Anthidiellum	sp.	7859	
7/7/2017	27	CONI	Eriogonum	sp.		Native bee	Megachile	sp.	7860	
7/7/2017	27	CONI	Salvia	sp.		Native bee	Megachile	sp.	7861	
7/7/2017	27	CONI	Eriogonum	sp.		Bumble bee	Bombus	sp.	7862	
7/7/2017	27	CONI	Ruellia	brittoniana		Native bee	Melissodes	sp.	7864	
7/7/2017	27	CONI	Mentha	sp.		Honey bee	Apis	melifera	7865	
7/7/2017	27	CONI	Eriogonum	sp.		Native bee	Halictus	sp.	7866	
7/7/2017	27	CONI	Nepeta	sp.		Native bee	Lasioglossum	sp.	7867	
7/7/2017	27	CONI	Nepeta	sp.		Honey bee	Apis	melifera	7868	
7/7/2017	27	CONI	Limonium	sp.		Honey bee	Apis	melifera	7869	
7/7/2017	27	AHQ	Limonium	sp.		Native bee	Andrena	sp.	7870	
7/7/2017	27	LODG	Chitalpa	sp.		Honey bee	Apis	melifera	7871	
7/7/2017	27	LODG	Abelia	sp.		Honey bee	Apis	melifera	7872	
7/7/2017	27	LODG	Abelia	sp.		Bumble bee	Bombus	sp.	7876	
7/7/2017	27	LODG	Trifolium	sp.		Bumble bee	Bombus	sp.	7877	
7/7/2017	27	LODG	Trifolium	sp.		Honey bee	Apis	melifera	7878	
7/7/2017	27	BOAT	Origanum	sp.		Honey bee	Apis	melifera	7879	
7/7/2017	27	BOAT	Lavandula	sp.		Native bee	Halictus	sp.	7880	

7/7/2017	27	BOAT	*Salvia*	sp.		Native bee	*Halictus*	sp.	7882	
7/7/2017	27	BOAT	*Origanum*	sp.		Native bee	*Megachile*	sp.	7887	
7/7/2017	27	COMM	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	7888	
7/7/2017	27	COTT	*Myoporum*	*parvifolium*		Honey bee	*Apis*	*melifera*	7890	
7/7/2017	27	COTT	*Lagerstroemia*	sp.		Honey bee	*Apis*	*melifera*	7891	
7/7/2017	27	COTT	*Brassica*	sp.		Native bee	*Halictus*	sp.	7893	
7/7/2017	27	COTT	*Brassica*	sp.		Native bee	*Andrena*	sp.	7894	
7/7/2017	27	COTT	*Centaurea*	*solstitialis*		Native bee	*Halictus*	sp.	7895	
7/7/2017	27	YOLO	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	7896	
7/7/2017	27	YOLO	*Centaurea*	*solstitialis*		Honey bee	*Apis*	*melifera*	7898	
7/7/2017	27	YOLO	*Brassica*	sp.		Native bee	*Hylaeus*	sp.	7899	
7/13/2017	28	AUST_N	*Myoporum*	*parvifolium*		Native bee	*Agapostemon*	sp.	7902	
7/13/2017	28	AUST_N	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	7903	
7/13/2017	28	AUST_N	*Grevillea*	sp.		Native bee	*Xylocopa*	sp.	7906	
7/13/2017	28	AUST_N	*Correa*	sp.		Honey bee	*Apis*	*melifera*	7909	
7/13/2017	28	AUST_S	*Apocynum*	*cannabinum*		Honey bee	*Apis*	*melifera*	7913	
7/13/2017	28	AUST_S	*Apocynum*	*cannabinum*		Native bee	*Megachile*	sp.	7914	
7/13/2017	28	AUST_S	*Rosa*	*californica*		Honey bee	*Apis*	*melifera*	7915	
7/13/2017	28	AUST_S	*Eremophila*	sp.		Native bee	*Andrena*	sp.	7917	
7/13/2017	28	AUST_S	*Hebe*	sp.		Native bee	*Agapostemon*	sp.	7919	
7/13/2017	28	AUST_S	*Hebe*	sp.		Native bee	*Megachile*	sp.	7921	
7/13/2017	28	AUST_S	*Hebe*	sp.		Honey bee	*Apis*	*melifera*	7922	
7/13/2017	28	AUST_S	*Hebe*	sp.		Native bee	*Anthidium*	sp.	7923	COLLECTED
7/13/2017	28	AUST_S	*Convolvulus*	sp.		Native bee	*Lasioglossum*	sp.	7924	
7/13/2017	28	AUST_S	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	7925	
7/13/2017	28	AUST_S	*Westringia*	sp.		Native bee	*Anthidium*	sp.	7926	
7/13/2017	28	AUST_S	*Westringia*	sp.		Native bee	*Melissodes*	sp.	7927	
7/13/2017	28	AUST_S	*Convolvulus*	sp.		Native bee	*Agapostemon*	sp.	7928	
7/13/2017	28	AUST_S	*Parkinsonia*	sp.		Native bee	*Megachile*	sp.	7930	
7/13/2017	28	AUST_S	*Craspedia*	*globosa*		Native bee	*Andrena*	sp.	7931	
7/13/2017	28	AUST_S	*Ozothamnus*		'Sussex Silver'	Native bee	*Andrena*	sp.	7932	
7/13/2017	28	AUST_S	*Ozothamnus*		'Sussex Silver'	Native bee	*Halictus*	sp.	7934	
7/13/2017	28	AUST_S	*Ozothamnus*		'Sussex Silver'	Native bee	*Melissodes*	sp.	7937	
7/13/2017	28	ERIC_S	*Lupinus*	sp.		Native bee	*Anthidiellum*	sp.	7938	
7/13/2017	28	ERIC_S	*Bulbine*	sp.		Native bee	*Anthidiellum*	sp.	7941	
7/13/2017	28	ERIC_S	*Kickxia*	*elatine*		Native bee	*Megachile*	sp.	7945	
7/13/2017	28	ERIC_S	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	7946	
7/13/2017	28	GATE	*Rosa*	*californica*		Honey bee	*Apis*	*melifera*	7948	
7/13/2017	28	GATE	*Convolvulus*	sp.		Native bee	*Lasioglossum*	sp.	7949	
7/13/2017	28	GATE	*Convolvulus*	sp.		Native bee	*Halictus*	sp.	7950	
7/13/2017	28	GATE	*Grindelia*	*camporum*		Native bee	*Halictus*	sp.	7958	
7/13/2017	28	GATE	*Grindelia*	*camporum*		Native bee	*Triepeolus*	sp.	7959	
7/13/2017	28	GATE	*Grindelia*	*camporum*		Native bee	*Svastra*	sp.	7962	COLLECTED
7/13/2017	28	GATE	*Grindelia*	*camporum*		Native bee	*Andrena*	sp.	7964	
7/13/2017	28	GATE	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	7967	
7/13/2017	28	GATE	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	7966	
7/13/2017	28	GATE	*Asclepias*	sp.		Honey bee	*Apis*	*melifera*	7968	
7/13/2017	28	GATE	*Aster*	sp.		Native bee	*Halictus*	sp.	7970	
7/13/2017	28	GATE	*Apocynum*	*cannabinum*		Native bee	*Megachile*	sp.	7972	
7/13/2017	28	GATE	*Apocynum*	*cannabinum*		Honey bee	*Apis*	*melifera*	7973	
7/13/2017	28	A_ST	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	7974	
7/13/2017	28	A_ST	*Eriogonum*	sp.		Native bee	*Andrena*	sp.	7975	
7/13/2017	28	REDW	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	7976	
7/13/2017	28	REDW	*Heliotropium*	*curassavicum*		Native bee	*Halictus*	sp.	7977	
7/13/2017	28	REDW	*Heliotropium*	*curassavicum*		Native bee	*Andrena*	sp.	7980	
7/13/2017	28	REDW	*Heliotropium*	*curassavicum*		Honey bee	*Apis*	*melifera*	7981	
7/13/2017	28	REDW	*Heliotropium*	*curassavicum*		Native bee	*Hoplitis*	sp.	7983	
7/13/2017	28	REDW	*Convolvulus*	sp.		Native bee	*Agapostemon*	sp.	7984	
7/13/2017	28	REDW	*Heliotropium*	*curassavicum*		Native bee	*Lasioglossum*	sp.	7986	
7/13/2017	28	REDW	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	7988	
7/13/2017	28	MWB	*Eriogonum*	sp.		Native bee	*Lasioglossum*	sp.	7990	
7/13/2017	28	MWB	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	7991	
7/13/2017	28	MWB	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	7994	
7/13/2017	28	MWB	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	7995	
7/13/2017	28	MWB	*Stachys*	*albens*		Native bee	*Anthidiellum*	sp.	7997	
7/13/2017	28	MWB	*Eschscholzia*	*californica*		Bumble bee	*Bombus*	sp.	7998	
7/13/2017	28	MWB	*Solidago*	*californica*		Native bee	*Halictus*	sp.	7999	
7/13/2017	28	MWB	*Solidago*	*californica*		Native bee	*Andrena*	sp.	8000	
7/13/2017	28	MWB	*Solidago*	*californica*		Native bee	*Melissodes*	sp.	8001	
7/13/2017	28	MWB	*Horkelia*	sp.		Native bee	*Hoplitis*	sp.	8007	
7/13/2017	28	MWB	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	8011	
7/13/2017	28	MWB	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	8012	
7/13/2017	28	MWB	*Eriogonum*	sp.		Native bee	*Megachile*	sp.	8013	
7/13/2017	28	MWB	*Eriogonum*	sp.		Bumble bee	*Bombus*	sp.	8014	
7/13/2017	28	MWB	*Eriogonum*	sp.		Native bee	*Triepeolus*	sp.	8016	
7/13/2017	28	MWB	*Eriogonum*	sp.		Native bee	*Anthidiellum*	sp.	8017	
7/13/2017	28	MWB	*Eriogonum*	sp.		Native bee	*Melissodes*	sp.	8019	
7/13/2017	28	MWB	*Convolvulus*	sp.		Honey bee	*Apis*	*melifera*	8022	
7/13/2017	28	MWB	*Convolvulus*	sp.		Native bee	*Agapostemon*	sp.	8023	
7/13/2017	28	MWB	*Aster*	sp.		Native bee	*Halictus*	sp.	8024	

7/13/2017	28	MWB	*Aster*	sp.		Native bee	*Andrena*	sp.	8025
7/13/2017	28	MWB	*Heracleum*	*lanatum*		Native bee	*Hylaeus*	sp.	8026
7/13/2017	28	MWB	*Heracleum*	*lanatum*		Native bee	*Halictus*	sp.	8028
7/13/2017	28	MWB	*Erigeron*		'Wyane Roderick'	Native bee	*Lasioglossum*	sp.	8030
7/13/2017	28	MWB	*Achillea*	*millefolium*		Native bee	*Halictus*	sp.	8031
7/13/2017	28	MWB	*Grindelia*	sp.		Native bee	*Halictus*	sp.	8032
7/13/2017	28	MWB	*Heliotropium*	*curassavicum*		Native bee	*Halictus*	sp.	8033
7/13/2017	28	MWB	*Heliotropium*	*curassavicum*		Native bee	*Lasioglossum*	sp.	8035
7/13/2017	28	MWB	*Heliotropium*	*curassavicum*		Native bee	*Hoplitis*	sp.	8036
7/13/2017	28	MWB	*Heliotropium*	*curassavicum*		Native bee	*Anthidium*	sp.	8037
7/13/2017	28	MWB	*Lupinus*	sp.		Honey bee	*Apis*	*melifera*	8039
7/13/2017	28	MWB	*Aster*	sp.		Native bee	*Triepeolus*	sp.	8040
7/13/2017	28	MWB	*Acmispon*	*americanus*		Native bee	*Megachile*	sp.	8041
7/13/2017	28	MWB	*Acmispon*	*americanus*		Native bee	*Anthidium*	sp.	8044
7/13/2017	28	MWB	*Acmispon*	*americanus*		Native bee	*Anthidiellum*	sp.	8046
7/13/2017	28	FOOT	*Eriogonum*	sp.		Native bee	*Megachile*	sp.	8047
7/13/2017	28	FOOT	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	8048
7/13/2017	28	FOOT	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	8049
7/13/2017	28	FOOT	*Eriogonum*	sp.		Native bee	*Agapostemon*	sp.	8050
7/13/2017	28	FOOT	*Encelia*	sp.		Native bee	*Halictus*	sp.	8051
7/13/2017	28	FOOT	*Encelia*	sp.		Native bee	*Svastra*	sp.	8054
7/13/2017	28	ENTR	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	8056
7/13/2017	28	ENTR	*Vitex*	sp.		Native bee	*Melissodes*	sp.	8057
7/13/2017	28	ENTR	*Perovskia*	sp.		Native bee	*Megachile*	sp.	8059
7/13/2017	28	ENTR	*Perovskia*	sp.		Native bee	*Triepeolus*	sp.	8060
7/13/2017	28	ENTR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	8063
7/13/2017	28	ENTR	*Perovskia*	sp.		Native bee	*Anthidiellum*	sp.	8064
7/13/2017	28	ENTR	*Perovskia*	sp.		Native bee	*Melissodes*	sp.	8066
7/13/2017	28	ENTR	*Craspedia*	*globosa*		Honey bee	*Apis*	*melifera*	8069
7/13/2017	28	ENTR	*Craspedia*	*globosa*		Honey bee	*Apis*	*melifera*	8070
7/13/2017	28	ENTR	*Vitex*	sp.		Bumble bee	*Bombus*	sp.	8072
7/13/2017	28	ENTR	*Salvia*	sp.		Native bee	*Melissodes*	sp.	8073
7/13/2017	28	REDB	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	8075
7/13/2017	28	REDB	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	8077
7/13/2017	28	DESE	*Larrea*	sp.		Honey bee	*Apis*	*melifera*	8078
7/13/2017	28	DESE	*Baileya*	*multiradiata*		Native bee	*Halictus*	sp.	8080
7/13/2017	28	DESE	*Baileya*	*multiradiata*		Native bee	*Lasioglossum*	sp.	8081
7/13/2017	28	DESE	*Encelia*	sp.		Native bee	*Halictus*	sp.	8082
7/13/2017	28	DESE	*Encelia*	sp.		Native bee	*Andrena*	sp.	8083
7/13/2017	28	DESE	*Encelia*	sp.		Native bee	*Svastra*	sp.	8084
7/13/2017	28	DESE	*Encelia*	sp.		Native bee	*Triepeolus*	sp.	8086
7/13/2017	28	DESE	*Baileya*	*multiradiata*		Native bee	*Anthidium*	sp.	8087
7/13/2017	28	DESE	*Chilopsis*	*linearis*		Honey bee	*Apis*	*melifera*	8088
7/13/2017	28	DESE	*Chitalpa*	*tashkentensis*		Honey bee	*Apis*	*melifera*	8089
7/13/2017	28	DESE	*Ferocactus*	sp.		Native bee	*Diadasia*	sp.	8091
7/13/2017	28	DESE	*Lavatera*	*maritima*		Native bee	*Lasioglossum*	sp.	8097
7/13/2017	28	DESE	*Lavatera*	*maritima*		Native bee	*Halictus*	sp.	8096
7/13/2017	28	MRAK	*Apentia*		'Red Apple'	Honey bee	*Apis*	*melifera*	8098
7/13/2017	28	MRAK	*Salvia*		'Blauhugel'	Honey bee	*Apis*	*melifera*	8101
7/13/2017	28	MRAK	*Buddleja*	*davidii*		Honey bee	*Apis*	*melifera*	8102
7/13/2017	28	MRAK	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	8103
7/13/2017	28	MRAK	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	8104
7/13/2017	28	MRAK	*Salvia*		'Blauhugel'	Native bee	*Anthidium*	sp.	8105
7/13/2017	28	MRAK	*Salvia*		'Blauhugel'	Native bee	*Megachile*	sp.	8107
7/13/2017	28	MRAK	*Penstemon*	*margarita*	'BOP'	Honey bee	*Apis*	*melifera*	8108
7/13/2017	28	MRAK	*Salvia*	sp.		Native bee	*Halictus*	sp.	8109
7/13/2017	28	MRAK	*Salvia*	sp.		Native bee	*Svastra*	sp.	8110
7/13/2017	28	MRAK	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	8111
7/13/2017	28	MRAK	*Abelia*	sp.		Honey bee	*Apis*	*melifera*	8112
7/13/2017	28	MRAK	*Abelia*	sp.		Bumble bee	*Bombus*	sp.	8114
7/13/2017	28	MRAK	*Mentha*	sp.		Honey bee	*Apis*	*melifera*	8115
7/13/2017	28	MRAK	*Scabiosa*	sp.		Native bee	*Lasioglossum*	sp.	8120
7/13/2017	28	MRAK	*Scabiosa*	sp.		Native bee	*Triepeolus*	sp.	8121
7/13/2017	28	MRAK	*Scabiosa*	sp.		Bumble bee	*Bombus*	sp.	8122
7/13/2017	28	MRAK	*Scabiosa*	sp.		Native bee	*Andrena*	sp.	8123
7/13/2017	28	MRAK	*Scabiosa*	sp.		Native bee	*Melissodes*	sp.	8124
7/13/2017	28	GAZE	*Abelia*	sp.		Bumble bee	*Bombus*	sp.	8125
7/13/2017	28	GAZE	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	8127
7/13/2017	28	GAZE	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	8130
7/13/2017	28	GAZE	*Buddleja*	*davidii*		Honey bee	*Apis*	*melifera*	8131
7/13/2017	28	GAZE	*Magnolia*	*grandiflora*		Honey bee	*Apis*	*melifera*	8133
7/13/2017	28	GAZE	*Agapanthus*	sp.		Honey bee	*Apis*	*melifera*	8134
7/13/2017	28	GAZE	*Vitex*	sp.		Bumble bee	*Bombus*	sp.	8135
7/13/2017	28	GAZE	*Duranta*	*erecta*	'Alba'	Honey bee	*Apis*	*melifera*	8136
7/13/2017	28	STOR	*Stachys*	sp.		Native bee	*Anthidium*	sp.	8137
7/13/2017	28	STOR	*Stachys*	sp.		Honey bee	*Apis*	*melifera*	8138
7/13/2017	28	STOR	*Penstemon*	sp.		Honey bee	*Apis*	*melifera*	8139
7/13/2017	28	STOR	*Penstemon*	sp.		Native bee	*Xylocopa*	sp.	8140
7/13/2017	28	STOR	*Penstemon*	*barbatus*		Native bee	*Anthidium*	sp.	8141
7/13/2017	28	STOR	*Penstemon*	sp.		Native bee	*Xylocopa*	sp.	8142

7/13/2017	28	STOR	*Scabiosa*	sp.		Native bee	*Halictus*	sp.	8143
7/13/2017	28	STOR	*Scabiosa*	sp.		Honey bee	*Apis*	*melifera*	8144
7/13/2017	28	STOR	*Ballota*	*pseudodictamnus*		Native bee	*Anthidium*	sp.	8145
7/13/2017	28	STOR	*Ballota*	*pseudodictamnus*		Native bee	*Halictus*	sp.	8146
7/13/2017	28	STOR	*Rosa*		'China Doll'	Honey bee	*Apis*	*melifera*	8147
7/13/2017	28	STOR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	8149
7/13/2017	28	STOR	*Thymus*	sp.		Honey bee	*Apis*	*melifera*	8150
7/13/2017	28	STOR	*Salvia*	sp.		Native bee	*Ceratina*	sp.	8151
7/13/2017	28	STOR	*Scabiosa*	sp.		Native bee	*Triepeolus*	sp.	8152
7/13/2017	28	STOR	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	8153
7/13/2017	28	STOR	*Convolvulus*	sp.		Native bee	*Halictus*	sp.	8154
7/13/2017	28	STOR	*Origanum*	sp.		Native bee	*Triepeolus*	sp.	8155
7/13/2017	28	STOR	*Limonium*	sp.		Honey bee	*Apis*	*melifera*	8156
7/13/2017	28	STOR	*Scabiosa*	sp.		Native bee	*Melissodes*	sp.	8159
7/13/2017	28	STOR	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	8160
7/13/2017	28	STOR	*Gaura*	*lindheimeri*		Native bee	*Agapostemon*	sp.	8161
7/13/2017	28	STOR	*Gaillardia*	sp.		Native bee	*Svastra*	sp.	8162
7/13/2017	28	STOR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	8163
7/13/2017	28	STOR	*Glaucium*	*flavum*		Native bee	*Halictus*	sp.	8165
7/13/2017	28	STOR	*Chilopsis*	*linearis*		Native bee	*Megachile*	sp.	8166
7/13/2017	28	STOR	*Erigeron*	*karvinskianus*		Native bee	*Halictus*	sp.	8168
7/13/2017	28	STOR	*Teucrium*	*hyrcanium*		Honey bee	*Apis*	*melifera*	8169
7/13/2017	28	STOR	*Scabiosa*	sp.		Native bee	*Lasioglossum*	sp.	8172
7/13/2017	28	STOR	*Buddleja*	*davidii*		Bumble bee	*Bombus*	sp.	8175
7/13/2017	28	STOR	*Gaura*	*lindheimeri*		Bumble bee	*Bombus*	sp.	8177
7/13/2017	28	STOR	*Lavandula*	sp.		Bumble bee	*Bombus*	sp.	8178
7/13/2017	28	EASI	*Teucrium*	*x lucidrys*		Honey bee	*Apis*	*melifera*	8179
7/13/2017	28	EASI	*Aster*	sp.		Native bee	*Andrena*	sp.	8180
7/13/2017	28	EASI	*Echinacea*	sp.		Native bee	*Halictus*	sp.	8181
7/13/2017	28	EASI	*Aster*	sp.		Native bee	*Halictus*	sp.	8182
7/13/2017	28	EASI	*Echinacea*	sp.		Native bee	*Agapostemon*	sp.	8184
7/13/2017	28	EASI	*Calandrinia*	*grandiflora*		Native bee	*Halictus*	sp.	8185
7/13/2017	28	EASI	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	8187
7/13/2017	28	EASI	*Lagerstroemia*	sp.		Honey bee	*Apis*	*melifera*	8188
7/13/2017	28	EASI	*Lagerstroemia*	sp.		Native bee	*Lasioglossum*	sp.	8189
7/13/2017	28	EASI	*Convolvulus*	sp.		Native bee	*Halictus*	sp.	8190
7/13/2017	28	EASI	*Echinacea*	sp.		Native bee	*Svastra*	sp.	8195
7/13/2017	28	EASI	*Bulbine*	sp.		Native bee	*Anthidiellum*	sp.	8196
7/13/2017	28	EASI	*Aster*	sp.		Native bee	*Anthidium*	sp.	8197a
7/13/2017	28	EASI	*Agastache*	sp.		Native bee	*Anthidium*	sp.	8201
7/13/2017	28	EASI	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	8203
7/13/2017	28	EASI	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	8205
7/13/2017	28	EASI	*Convolvulus*	sp.		Honey bee	*Apis*	*melifera*	8207
7/13/2017	28	EASI	*Hesperaloe*	*parviflora*		Honey bee	*Apis*	*melifera*	8208
7/13/2017	28	EASI	*Solidago*	sp.		Native bee	*Halictus*	sp.	8209
7/13/2017	28	EASI	*Bulbine*	sp.		Native bee	*Megachile*	sp.	8212
7/13/2017	28	EASI	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	8213
7/13/2017	28	EASI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	8214
7/13/2017	28	EASI	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	8215
7/13/2017	28	EASI	*Bulbine*	sp.		Native bee	*Halictus*	sp.	8216
7/13/2017	28	EASI	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	8218
7/13/2017	28	EASI	*Solidago*	sp.		Honey bee	*Apis*	*melifera*	8219
7/13/2017	28	EASI	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	8221
7/13/2017	28	EASI	*Eriogonum*	sp.		Native bee	*Lasioglossum*	sp.	8223
7/13/2017	28	EASI	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	8224
7/13/2017	28	MOUN	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	8225
7/13/2017	28	SOAF	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	8226
7/13/2017	28	SOAF	*Origanum*	sp.		Native bee	*Megachile*	sp.	8228
7/13/2017	28	SOAF	*Leonotis*	sp.		Honey bee	*Apis*	*melifera*	8231
7/13/2017	28	SOAF	*Myoporum*	*parvifolium*		Honey bee	*Apis*	*melifera*	8232
7/13/2017	28	SOAF	*Myoporum*	*parvifolium*		Native bee	*Halictus*	sp.	8233
7/13/2017	28	MEDI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	8234
7/13/2017	28	MEDI	*Lavandula*	sp.		Native bee	*Anthidium*	sp.	8235
7/13/2017	28	MEDI	*Rosmarinus*	*officianalis*		Native bee	*Andrena*	sp.	8237
7/13/2017	28	MEDI	*Clematis*	sp.		Honey bee	*Apis*	*melifera*	8238
7/13/2017	28	MEDI	*Brassica*	sp.		Native bee	*Megachile*	sp.	8239
7/13/2017	28	MEDI	*Brassica*	sp.		Native bee	*Lasioglossum*	sp.	8242
7/13/2017	28	MEDI	*Brassica*	sp.		Native bee	*Halictus*	sp.	8241
7/13/2017	28	MEDI	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	8244
7/13/2017	28	MEDI	*Brassica*	sp.		Native bee	*Andrena*	sp.	8247
7/13/2017	28	MEDI	*Brassica*	sp.		Native bee	*Hylaeus*	sp.	8248
7/13/2017	28	MEDI	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	8249
7/13/2017	28	MEDI	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	8251
7/13/2017	28	MEDI	*Perovskia*	sp.		Native bee	*Triepeolus*	sp.	8252
7/13/2017	28	MEDI	*Origanum*	sp.		Native bee	*Megachile*	sp.	8254
7/13/2017	28	MEDI	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	8256
7/13/2017	28	MEDI	*Salvia*	*canariensis*		Native bee	*Anthidium*	sp.	8257
7/13/2017	28	MEDI	*Myoporum*	*parvifolium*		Honey bee	*Apis*	*melifera*	8259
7/13/2017	28	MEDI	*Bupleurum*	*fruticosum*		Honey bee	*Apis*	*melifera*	8260
7/13/2017	28	MEDI	*Vitex*	sp.		Native bee	*Melissodes*	sp.	8278

7/13/2017	28	MEDI	*Vitex*	sp.		Native bee	*Megachile*	sp.	8279	
7/13/2017	28	MEDI	*Myoporum*	*parvifolium*		Native bee	*Halictus*	sp.	8281	
7/13/2017	28	ARGE	*Pavonia*	*mission*		Native bee	*Svastra*	sp.	8282	
7/13/2017	28	ARGE	*Veronica*	sp.		Honey bee	*Apis*	*melifera*	8283	
7/13/2017	28	ARGE	*Veronica*	sp.		Native bee	*Halictus*	sp.	8284	
7/13/2017	28	SWUS	*Leucophyllum*	*frutescens*		Honey bee	*Apis*	*melifera*	8288	
7/13/2017	28	SWUS	*Leucophyllum*	*frutescens*		Native bee	*Megachile*	sp.	8293	
7/13/2017	28	SWUS	*Leucophyllum*	*frutescens*		Native bee	*Halictus*	sp.	8296	
7/13/2017	28	SWUS	*Dasylirion*	*wheeleri*		Honey bee	*Apis*	*melifera*	8300	
7/13/2017	28	SWUS	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	8302	
7/13/2017	28	SWUS	*Leucophyllum*	*frutescens*		Native bee	*Lasioglossum*	sp.	8303	
7/13/2017	28	SWUS	*Gaura*	*lindheimeri*		Native bee	*Andrena*	sp.	8305	
7/13/2017	28	SWUS	*Gaillardia*	sp.		Native bee	*Triepeolus*	sp.	8306	
7/13/2017	28	SWUS	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	8307	
7/13/2017	28	SWUS	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	8309	
7/13/2017	28	SWUS	*Salvia*	sp.		Native bee	*Megachile*	sp.	8311	
7/13/2017	28	SWUS	*Nolina*	sp.		Native bee	*Megachile*	sp.	8312	
7/13/2017	28	SWUS	*Chilopsis*	*linearis*		Honey bee	*Apis*	*melifera*	8313	
7/13/2017	28	SWUS	*Isomeris*	*arborea*		Native bee	*Megachile*	sp.	8317	
7/13/2017	28	SWUS	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	8320	
7/13/2017	28	CONI	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	8321	
7/13/2017	28	CONI	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	8323	
7/13/2017	28	CONI	*Eriogonum*	sp.		Native bee	*Anthidiellum*	sp.	8325	
7/13/2017	28	CONI	*Eriogonum*	sp.		Native bee	*Megachile*	sp.	8326	
7/13/2017	28	CONI	*Ruellia*	sp.		Native bee	*Halictus*	sp.	8327	
7/13/2017	28	CONI	*Mentha*	sp.		Native bee	*Halictus*	sp.	8328	
7/13/2017	28	CONI	*Mentha*	sp.		Native bee	*Melissodes*	sp.	8329	
7/13/2017	28	CONI	*Mentha*	sp.		Honey bee	*Apis*	*melifera*	8332	
7/13/2017	28	CONI	*Mentha*	sp.		Native bee	*Triepeolus*	sp.	8334	
7/13/2017	28	CONI	*Nepeta*	sp.		Native bee	*Melissodes*	sp.	8336	
7/13/2017	28	CONI	*Nepeta*	sp.		Native bee	*Megachile*	sp.	8337	
7/13/2017	28	CONI	*Nepeta*	sp.		Native bee	*Triepeolus*	sp.	8338	
7/13/2017	28	AHQ	*Limonium*	sp.		Native bee	*Melissodes*	sp.	8339	
7/13/2017	28	AHQ	*Limonium*	sp.		Native bee	*Triepeolus*	sp.	8340	
7/13/2017	28	AHQ	*Limonium*	sp.		Native bee	*Halictus*	sp.	8341	
7/13/2017	28	AHQ	*Limonium*	sp.		Native bee	*Svastra*	sp.	8343	
7/13/2017	28	CHIL	*Alstroemeria*	sp.		Native bee	*Agapostemon*	sp.	8345	
7/13/2017	28	LODG	X *Chitalpa*	*tashkentensis*		Honey bee	*Apis*	*melifera*	8347	
7/13/2017	28	LODG	*Lagerstroemia*	sp.		Native bee	*Anthidium*	sp.	8350	
7/13/2017	28	LODG	*Lagerstroemia*	sp.		Native bee	*Agapostemon*	sp.	8351	
7/13/2017	28	LODG	*Lagerstroemia*	sp.		Native bee	*Halictus*	sp.	8353	
7/13/2017	28	LODG	*Lagerstroemia*	sp.		Native bee	*Megachile*	sp.	8354	
7/13/2017	28	LODG	*Abelia*	sp.		Native bee	*Halictus*	sp.	8355	
7/13/2017	28	LODG	*Abelia*	sp.		Honey bee	*Apis*	*melifera*	8356	
7/13/2017	28	LODG	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	8357	
7/13/2017	28	BOAT	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	8358	
7/13/2017	28	BOAT	*Origanum*	sp.		Native bee	*Lasioglossum*	sp.	8359	
7/13/2017	28	BOAT	*Foeniculum*	sp.		Honey bee	*Apis*	*melifera*	8360	
7/13/2017	28	BOAT	*Salvia*	sp.		Native bee	*Halictus*	sp.	8361	
7/13/2017	28	COTT	*Myoporum*	*parvifolium*		Honey bee	*Apis*	*melifera*	8363	
7/13/2017	28	COTT	*Centaurea*	*solstitialis*		Native bee	*Halictus*	sp.	8364	
7/13/2017	28	COTT	*Centaurea*	*solstitialis*		Honey bee	*Apis*	*melifera*	8365	
7/13/2017	28	COTT	*Lagerstroemia*	sp.		Honey bee	*Apis*	*melifera*	8369	
7/13/2017	28	YOLO	*Centaurea*	*solstitialis*		Honey bee	*Apis*	*melifera*	8371	
7/13/2017	28	YOLO	*Centaurea*	*solstitialis*		Native bee	*Halictus*	sp.	8372	
7/13/2017	28	YOLO	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	8374	
7/13/2017	28	YOLO	*Brassica*	sp.		Native bee	*Anthidiellum*	sp.	8376	
7/13/2017	28	YOLO	*Brassica*	sp.		Native bee	*Lasioglossum*	sp.	8380	
7/20/2017	29	AUST_N	*Grevillea*	sp.		Native bee	*Xylocopa*	sp.	8381	
7/20/2017	29	AUST_N	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	8382	
7/20/2017	29	AUST_N	*Sollya*	sp.		Honey bee	*Apis*	*melifera*	8384	
7/20/2017	29	AUST_N	*Correa*	sp.		Honey bee	*Apis*	*melifera*	8386	
7/20/2017	29	AUST_S	*Convolvulus*	sp.		Native bee	*Lasioglossum*	sp.	8387	
7/20/2017	29	AUST_S	*Eremophila*	*maculata*		Honey bee	*Apis*	*melifera*	8388	
7/20/2017	29	AUST_S	*Convolvulus*	sp.		Honey bee	*Apis*	*melifera*	8389	
7/20/2017	29	AUST_S	*Kickxia*	*elatine*		Native bee	*Anthidium*	sp.	8391	
7/20/2017	29	AUST_S	*Kickxia*	*elatine*		Native bee	*Lasioglossum*	sp.	8390	
7/20/2017	29	AUST_S	*Hebe*	sp.		Native bee	*Anthidium*	sp.	8393	
7/20/2017	29	AUST_S	*Hebe*	sp.		Native bee	*Agapostemon*	sp.	8394	
7/20/2017	29	AUST_S	*Kickxia*	*elatine*		Native bee	*Agapostemon*	sp.	8397	
7/20/2017	29	AUST_S	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	8398	
7/20/2017	29	AUST_S	*Westringia*	sp.		Native bee	*Svastra*	sp.	8407	COLLECTED
7/20/2017	29	AUST_S	*Westringia*	sp.		Native bee	*Halictus*	sp.	8404	
7/20/2017	29	AUST_S	*Westringia*	sp.		Native bee	*Andrena*	sp.	8405	
7/20/2017	29	AUST_S	*Westringia*	sp.		Native bee	*Anthidium*	sp.	8408	
7/20/2017	29	AUST_S	*Parkinsonia*	sp.		Native bee	*Megachile*	sp.	8409	
7/20/2017	29	AUST_S	*Ozothamnus*		'Sussex Silver'	Native bee	*Andrena*	sp.	8411	
7/20/2017	29	AUST_S	*Ozothamnus*		'Sussex Silver'	Native bee	*Melissodes*	sp.	8413	
7/20/2017	29	AUST_S	*Ozothamnus*		'Sussex Silver'	Native bee	*Triepeolus*	sp.	8414	
7/20/2017	29	AUST_S	*Ozothamnus*		'Sussex Silver'	Native bee	*Lasioglossum*	sp.	8416	

7/20/2017	29	ERIC_S	*Eschscholzia*	*californica*		Native bee	*Andrena*	sp.	8417	
7/20/2017	29	ERIC_S	*Eschscholzia*	*californica*		Native bee	*Melissodes*	sp.	8418	
7/20/2017	29	ERIC_S	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	8420	
7/20/2017	29	ERIC_S	*Eschscholzia*	*californica*		Native bee	*Svastra*	sp.	8424	
7/20/2017	29	GATE	*Rosa*	*californica*		Honey bee	*Apis*	*melifera*	8426	
7/20/2017	29	GATE	*Convolvulus*	sp.		Native bee	*Lasioglossum*	sp.	8427	
7/20/2017	29	GATE	*Grindelia*	*camporum*		Native bee	*Halictus*	sp.	8429	
7/20/2017	29	GATE	*Grindelia*	*camporum*		Native bee	*Triepeolus*	sp.	8431	
7/20/2017	29	GATE	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	8432	
7/20/2017	29	GATE	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	8434	
7/20/2017	29	GATE	*Grindelia*	*camporum*		Native bee	*Melissodes*	sp.	8438	
7/20/2017	29	GATE	*Grindelia*	*camporum*		Native bee	*Svastra*	sp.	8440	COLLECTED
7/20/2017	29	GATE	*Grindelia*	*camporum*		Honey bee	*Apis*	*melifera*	8442	
7/20/2017	29	GATE	*Asclepias*	*californica*		Honey bee	*Apis*	*melifera*	8444	
7/20/2017	29	GATE	*Asclepias*	*californica*		Native bee	*Megachile*	sp.	8446	
7/20/2017	29	GATE	*Aster*	sp.		Native bee	*Halictus*	sp.	8447	
7/20/2017	29	GATE	*Convolvulus*	sp.		Native bee	*Andrena*	sp.	8449	
7/20/2017	29	GATE	*Convolvulus*	sp.		Native bee	*Agapostemon*	sp.	8450	
7/20/2017	29	GATE	*Madia*	sp.		Native bee	*Agapostemon*	sp.	8451	
7/20/2017	29	GATE	*Apocynum*	*cannabinum*		Honey bee	*Apis*	*melifera*	8452	
7/20/2017	29	GATE	*Apocynum*	*cannabinum*		Native bee	*Megachile*	sp.	8453	
7/20/2017	29	GATE	*Apocynum*	*cannabinum*		Native bee	*Andrena*	sp.	8454	
7/20/2017	29	GATE	*Apocynum*	*cannabinum*		Native bee	*Halictus*	sp.	8455	
7/20/2017	29	GATE	*Perideridia*	sp.		Native bee	*Halictus*	sp.	8456	
7/20/2017	29	GATE	*Convolvulus*	sp.		Honey bee	*Apis*	*melifera*	8458	
7/20/2017	29	A_ST	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	8459	
7/20/2017	29	A_ST	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	8460	
7/20/2017	29	A_ST	*Eriogonum*	sp.		Native bee	*Lasioglossum*	sp.	8463	
7/20/2017	29	REDW	*Heliotropium*	*curvassacicum*		Native bee	*Halictus*	sp.	8464	
7/20/2017	29	REDW	*Heliotropium*	*curvassacicum*		Native bee	*Lasioglossum*	sp.	8465	
7/20/2017	29	REDW	*Heliotropium*	*curvassacicum*		Native bee	*Anthophora*	sp.	8475	COLLECTED
7/20/2017	29	REDW	*Heliotropium*	*curvassacicum*		Native bee	*Andrena*	sp.	8479	
7/20/2017	29	REDW	*Heliotropium*	*curvassacicum*		Honey bee	*Apis*	*melifera*	8480	
7/20/2017	29	REDW	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	8481	
7/20/2017	29	MWB	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	8482	
7/20/2017	29	MWB	*Eriogonum*	sp.		Native bee	*Agapostemon*	sp.	8487	
7/20/2017	29	MWB	*Convolvulus*	sp.		Native bee	*Hoplitis*	sp.	8491	
7/20/2017	29	MWB	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	8492	
7/20/2017	29	MWB	*Convolvulus*	sp.		Native bee	*Lasioglossum*	sp.	8496	
7/20/2017	29	MWB	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	8498	
7/20/2017	29	MWB	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	8497	
7/20/2017	29	MWB	*Stachys*	*albens*		Native bee	*Anthidium*	sp.	8502	
7/20/2017	29	MWB	*Solidago*	sp.		Native bee	*Halictus*	sp.	8503	
7/20/2017	29	MWB	*Solidago*	sp.		Native bee	*Lasioglossum*	sp.	8504	
7/20/2017	29	MWB	*Convolvulus*	sp.		Native bee	*Agapostemon*	sp.	8515	
7/20/2017	29	MWB	*Eriogonum*	sp.		Native bee	*Melissodes*	sp.	8508	
7/20/2017	29	MWB	*Eriogonum*	sp.		Native bee	*Hoplitis*	sp.	8509	
7/20/2017	29	MWB	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	8510	
7/20/2017	29	MWB	*Eriogonum*	sp.		Native bee	*Triepeolus*	sp.	8511	
7/20/2017	29	MWB	*Eriogonum*	sp.		Native bee	*Anthidiellum*	sp.	8514	
7/20/2017	29	MWB	*Heuchera*		'Rosada'	Native bee	*Lasioglossum*	sp.	8519	
7/20/2017	29	MWB	*Aster*	sp.		Native bee	*Halictus*	sp.	8520	
7/20/2017	29	MWB	*Aster*	sp.		Native bee	*Lasioglossum*	sp.	8523	
7/20/2017	29	MWB	*Heuchera*		'Rosada'	Native bee	*Andrena*	sp.	8524	
7/20/2017	29	MWB	*Heracleum*	*lanatum*		Honey bee	*Apis*	*melifera*	8525	
7/20/2017	29	MWB	*Eriogonum*	sp.		Native bee	*Lasioglossum*	sp.	8528	
7/20/2017	29	MWB	*Eriogonum*	sp.		Native bee	*Megachile*	sp.	8529	
7/20/2017	29	MWB	*Penstemon*	sp.		Native bee	*Lasioglossum*	sp.	8532	
7/20/2017	29	MWB	*Eriophyllum*	*lanatum*		Native bee	*Halictus*	sp.	8538	
7/20/2017	29	MWB	*Achillea*	*millefolium*		Native bee	*Halictus*	sp.	8540	
7/20/2017	29	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Halictus*	sp.	8541	
7/20/2017	29	MWB	*Grindelia*	sp.		Native bee	*Halictus*	sp.	8542	
7/20/2017	29	MWB	*Grindelia*	sp.		Native bee	*Andrena*	sp.	8543	
7/20/2017	29	MWB	*Salvia*	sp.		Native bee	*Lasioglossum*	sp.	8544	
7/20/2017	29	MWB	*Convolvulus*	sp.		Honey bee	*Apis*	*melifera*	8546	
7/20/2017	29	MWB	*Salvia*	sp.		Native bee	*Anthophora*	sp.	8548	
7/20/2017	29	MWB	*Fremontodendron*	*californicum*		Native bee	*Halictus*	sp.	8549	
7/20/2017	29	MWB	*Fremontodendron*	*californicum*		Honey bee	*Apis*	*melifera*	8552	
7/20/2017	29	MWB	*Heliotropium*	*curvassacicum*		Native bee	*Halictus*	sp.	8554	
7/20/2017	29	MWB	*Heliotropium*	*curvassacicum*		Honey bee	*Apis*	*melifera*	8555	
7/20/2017	29	MWB	*Heliotropium*	*curvassacicum*		Native bee	*Lasioglossum*	sp.	8556	
7/20/2017	29	MWB	*Heliotropium*	*curvassacicum*		Native bee	*Megachile*	sp.	8558	
7/20/2017	29	MWB	*Aster*	sp.		Native bee	*Svastra*	sp.	8560	
7/20/2017	29	MWB	*Aster*	sp.		Native bee	*Triepeolus*	sp.	8564	
7/20/2017	29	MWB	*Acmispon*	*americanus*		Native bee	*Anthidiellum*	sp.	8565	
7/20/2017	29	MWB	*Acmispon*	*americanus*		Native bee	*Megachile*	sp.	8569	
7/20/2017	29	MWB	*Acmispon*	*americanus*		Native bee	*Anthidium*	sp.	8571	
7/20/2017	29	FOOT	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	8578	
7/20/2017	29	FOOT	*Eriogonum*	sp.		Native bee	*Megachile*	sp.	8579	
7/20/2017	29	FOOT	*Eriogonum*	sp.		Native bee	*Anthidiellum*	sp.	8580	

7/20/2017	29	FOOT	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	8581
7/20/2017	29	FOOT	*Eriogonum*	sp.		Native bee	*Agapostemon*	sp.	8582
7/20/2017	29	FOOT	*Eriogonum*	sp.		Native bee	*Andrena*	sp.	8583
7/20/2017	29	ENTR	*Vitex*	sp.		Native bee	*Xylocopa*	sp.	8586
7/20/2017	29	ENTR	*Salvia*	sp.		Native bee	*Anthophora*	sp.	8592
7/20/2017	29	ENTR	*Salvia*	sp.		Native bee	*Lasioglossum*	sp.	8595
7/20/2017	29	ENTR	*Nepeta*	sp.		Native bee	*Lasioglossum*	sp.	8598
7/20/2017	29	ENTR	*Perovskia*	sp.		Native bee	*Triepeolus*	sp.	8599
7/20/2017	29	ENTR	*Bupleurum*	*fruticosum*		Honey bee	*Apis*	*melifera*	8601
7/20/2017	29	ENTR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	8603
7/20/2017	29	ENTR	*Perovskia*	sp.		Native bee	*Melissodes*	sp.	8604
7/20/2017	29	ENTR	*Perovskia*	sp.		Native bee	*Svastra*	sp.	8608
7/20/2017	29	ENTR	*Perovskia*	sp.		Native bee	*Anthidiellum*	sp.	8610
7/20/2017	29	ENTR	*Vitex*	sp.		Native bee	*Melissodes*	sp.	8612
7/20/2017	29	ENTR	*Dasylirion*	*wheeleri*		Native bee	*Megachile*	sp.	8614
7/20/2017	29	CHIL	*Alstroemeria*	sp.		Native bee	*Halictus*	sp.	8615
7/20/2017	29	ARGE	*Veronica*	sp.		Native bee	*Halictus*	sp.	8617
7/20/2017	29	ARGE	*Veronica*	sp.		Native bee	*Lasioglossum*	sp.	8618
7/20/2017	29	SWUS	*Salvia*	sp.		Native bee	*Halictus*	sp.	8621
7/20/2017	29	SWUS	*Dasylirion*	*wheeleri*		Honey bee	*Apis*	*melifera*	8622
7/20/2017	29	SWUS	*Gaillardia*	sp.		Native bee	*Triepeolus*	sp.	8623
7/20/2017	29	SWUS	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	8624
7/20/2017	29	SWUS	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	8625
7/20/2017	29	SWUS	*Tecoma*	X *Sunrise*		Honey bee	*Apis*	*melifera*	8629
7/20/2017	29	SWUS	*Tecoma*	X *Sunrise*		Native bee	*Halictus*	sp.	8631
7/20/2017	29	SWUS	*Leucophyllum*	sp.		Native bee	*Halictus*	sp.	8632
7/20/2017	29	SWUS	*Salvia*	sp.		Native bee	*Anthidium*	sp.	8634
7/20/2017	29	SWUS	*Leucophyllum*	sp.		Honey bee	*Apis*	*melifera*	8635
7/20/2017	29	SWUS	*Leucophyllum*	sp.		Native bee	*Lasioglossum*	sp.	8636
7/20/2017	29	SWUS	*Nolina*	sp.		Native bee	*Megachile*	sp.	8637
7/20/2017	29	SWUS	*Chitalpa*	sp.		Honey bee	*Apis*	*melifera*	8638
7/20/2017	29	CONI	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	8639
7/20/2017	29	CONI	*Eriogonum*	sp.		Native bee	*Megachile*	sp.	8640
7/20/2017	29	CONI	*Eriogonum*	sp.		Native bee	*Anthidiellum*	sp.	8642
7/20/2017	29	CONI	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	8643
7/20/2017	29	CONI	*Mentha*	sp.		Native bee	*Megachile*	sp.	8644
7/20/2017	29	CONI	*Mentha*	sp.		Native bee	*Melissodes*	sp.	8653
7/20/2017	29	CONI	*Mentha*	sp.		Honey bee	*Apis*	*melifera*	8654
7/20/2017	29	CONI	*Ruellia*	sp.		Honey bee	*Apis*	*melifera*	8655
7/20/2017	29	CONI	*Mentha*	sp.		Native bee	*Halictus*	sp.	8656
7/20/2017	29	CONI	*Mentha*	sp.		Native bee	*Megachile*	sp.	8657
7/20/2017	29	CONI	*Nepeta*	sp.		Native bee	*Anthidiellum*	sp.	8659
7/20/2017	29	CONI	*Nepeta*	sp.		Native bee	*Melissodes*	sp.	8660
7/20/2017	29	CONI	*Limonium*	sp.		Native bee	*Andrena*	sp.	8664
7/20/2017	29	REDB	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	8665
7/20/2017	29	REDB	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	8668
7/20/2017	29	DESE	*Baileya*	*multiradiata*		Native bee	*Halictus*	sp.	8669
7/20/2017	29	DESE	*Baileya*	*multiradiata*		Native bee	*Lasioglossum*	sp.	8670
7/20/2017	29	DESE	*Encelia*	sp.		Native bee	*Andrena*	sp.	8674
7/20/2017	29	DESE	*Encelia*	sp.		Native bee	*Melissodes*	sp.	8677
7/20/2017	29	DESE	*Encelia*	sp.		Native bee	*Triepeolus*	sp.	8680
7/20/2017	29	DESE	*Opuntia*	sp.		Native bee	*Diadasia*	sp.	8682
7/20/2017	29	DESE	*Chitalpa*	sp.		Honey bee	*Apis*	*melifera*	8683
7/20/2017	29	DESE	*Sphaeralcea*	sp.		Native bee	*Lasioglossum*	sp.	8687
7/20/2017	29	DESE	*Sphaeralcea*	sp.		Native bee	*Halictus*	sp.	8688
7/20/2017	29	MRAK	*Apentia*		'Red Apple'	Honey bee	*Apis*	*melifera*	8689
7/20/2017	29	MRAK	*Salvia*		'Blauhugel'	Honey bee	*Apis*	*melifera*	8691
7/20/2017	29	MRAK	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	8694
7/20/2017	29	MRAK	*Salvia*		'Blauhugel'	Native bee	*Megachile*	sp.	8695
7/20/2017	29	MRAK	*Gaillardia*	sp.		Native bee	*Triepeolus*	sp.	8696
7/20/2017	29	MRAK	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	8697
7/20/2017	29	MRAK	*Penstemon*	sp.		Native bee	*Lasioglossum*	sp.	8698
7/20/2017	29	MRAK	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	8699
7/20/2017	29	MRAK	*Salvia*		'Blauhugel'	Native bee	*Triepeolus*	sp.	8700
7/20/2017	29	MRAK	*Salvia*		'Blauhugel'	Native bee	*Andrena*	sp.	8702
7/20/2017	29	MRAK	*Gaillardia*	sp.		Native bee	*Svastra*	sp.	8707
7/20/2017	29	MRAK	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	8709
7/20/2017	29	MRAK	*Sapium*	*sebiferum*		Honey bee	*Apis*	*melifera*	8710
7/20/2017	29	MRAK	*Abelia*	sp.		Honey bee	*Apis*	*melifera*	8711
7/20/2017	29	MRAK	*Abelia*	sp.		Native bee	*Xylocopa*	sp.	8714
7/20/2017	29	MRAK	*Mentha*	sp.		Honey bee	*Apis*	*melifera*	8716
7/20/2017	29	MRAK	*Mentha*	sp.		Native bee	*Halictus*	sp.	8718
7/20/2017	29	MRAK	*Scabiosa*	sp.		Native bee	*Halictus*	sp.	8721
7/20/2017	29	MRAK	*Scabiosa*	sp.		Honey bee	*Apis*	*melifera*	8722
7/20/2017	29	MRAK	*Scabiosa*	sp.		Native bee	*Andrena*	sp.	8724
7/20/2017	29	MRAK	*Scabiosa*	sp.		Native bee	*Melissodes*	sp.	8726
7/20/2017	29	MRAK	*Scabiosa*	sp.		Native bee	*Triepeolus*	sp.	8725
7/20/2017	29	GAZE	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	8728
7/20/2017	29	GAZE	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	8730
7/20/2017	29	GAZE	*Hibiscus*	*syriacus*		Honey bee	*Apis*	*melifera*	8732

7/20/2017	29	GAZE	*Hibiscus*	*syriacus*		Native bee	*Xylocopa*	sp.	8734	
7/20/2017	29	GAZE	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	8735	
7/20/2017	29	GAZE	*Gaura*	*lindheimeri*		Native bee	*Agapostemon*	sp.	8736	
7/20/2017	29	GAZE	*Myrtus*	sp.		Honey bee	*Apis*	*melifera*	8737	
7/20/2017	29	GAZE	*Nicotiana*	*sylvestris*		Honey bee	*Apis*	*melifera*	8738	
7/20/2017	29	GAZE	*Aloysia*	*citriodora*		Honey bee	*Apis*	*melifera*	8739	
7/20/2017	29	GAZE	*Hibiscus*	*syriacus*		Native bee	*Halictus*	sp.	8740	
7/20/2017	29	GAZE	*Duranta*	*erecta*	'Alba'	Honey bee	*Apis*	*melifera*	8742	
7/20/2017	29	GAZE	*Hibiscus*	*syriacus*		Native bee	*Melissodes*	sp.	8743	
7/20/2017	29	STOR	*Erigeron*	*karvinskianus*		Native bee	*Lasioglossum*	sp.	8744	
7/20/2017	29	STOR	*Penstemon*	sp.		Native bee	*Xylocopa*	sp.	8745	
7/20/2017	29	STOR	*Salvia*	sp.		Native bee	*Halictus*	sp.	8746	
7/20/2017	29	STOR	*Scabiosa*	sp.		Honey bee	*Apis*	*melifera*	8748	
7/20/2017	29	STOR	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	8750	
7/20/2017	29	STOR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	8754	
7/20/2017	29	STOR	*Thymus*	*capitatus*		Honey bee	*Apis*	*melifera*	8755	
7/20/2017	29	STOR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	8756	
7/20/2017	29	STOR	*Tulbaghia*	sp.		Honey bee	*Apis*	*melifera*	8757	
7/20/2017	29	STOR	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	8758	
7/20/2017	29	STOR	*Gaura*	*lindheimeri*		Native bee	*Andrena*	sp.	8763	
7/20/2017	29	STOR	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	8765	
7/20/2017	29	STOR	*Perovskia*	sp.		Native bee	*Xylocopa*	sp.	8766	
7/20/2017	29	STOR	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	8767	
7/20/2017	29	STOR	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	8769	
7/20/2017	29	STOR	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	8770	
7/20/2017	29	STOR	*Rosmarinus*	*occidentalis*		Native bee	*Halictus*	sp.	8771	
7/20/2017	29	STOR	*Pelargonium*	*sidoides*		Honey bee	*Apis*	*melifera*	8772	
7/20/2017	29	STOR	*Chilopsis*	*linearis*		Honey bee	*Apis*	*melifera*	8774	
7/20/2017	29	STOR	*Scabiosa*	sp.		Native bee	*Halictus*	sp.	8775	
7/20/2017	29	STOR	*Teucrium*	*hyrcanium*		Native bee	*Halictus*	sp.	8776	
7/20/2017	29	STOR	*Alstroemeria*	sp.		Honey bee	*Apis*	*melifera*	8778	
7/20/2017	29	STOR	*Scabiosa*	sp.		Native bee	*Andrena*	sp.	8780	
7/20/2017	29	STOR	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	8781	
7/20/2017	29	STOR	*Ballota*	*pseudodictamnus*		Honey bee	*Apis*	*melifera*	8784	
7/20/2017	29	STOR	*Ballota*	*pseudodictamnus*		Native bee	*Anthidium*	sp.	8785	
7/20/2017	29	STOR	*Ceratostigma*	*plumbaginoides*		Honey bee	*Apis*	*melifera*	8786	
7/20/2017	29	STOR	*Teucrium*	*hyrcanium*		Honey bee	*Apis*	*melifera*	8787	
7/20/2017	29	STOR	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	8788	
7/20/2017	29	STOR	*Limonium*	sp.		Honey bee	*Apis*	*melifera*	8790	
7/20/2017	29	STOR	*Scabiosa*	sp.		Native bee	*Svastra*	sp.	8794	
7/20/2017	29	STOR	*Scabiosa*	sp.		Bumble bee	*Bombus*	sp.	8795	
7/20/2017	29	STOR	*Stachys*	sp.		Native bee	*Anthidium*	sp.	8796	
7/20/2017	29	STOR	*Scabiosa*	sp.		Native bee	*Lasioglossum*	sp.	8797	
7/20/2017	29	STOR	*Scabiosa*	sp.		Native bee	*Melissodes*	sp.	8800	
7/20/2017	29	STOR	*Penstemon*	sp.		Honey bee	*Apis*	*melifera*	8803	
7/20/2017	29	EASI	*Scabiosa*	sp.		Native bee	*Melissodes*	sp.	8805	
7/20/2017	29	EASI	*Echinacea*	sp.		Honey bee	*Apis*	*melifera*	8806	
7/20/2017	29	EASI	*Echinacea*	sp.		Native bee	*Halictus*	sp.	8808	
7/20/2017	29	EASI	*Aster*	sp.		Native bee	*Halictus*	sp.	8809	
7/20/2017	29	EASI	*Echinacea*	sp.		Native bee	*Melissodes*	sp.	8810	
7/20/2017	29	EASI	*Echinacea*	sp.		Native bee	*Andrena*	sp.	8811	
7/20/2017	29	EASI	*Echinacea*	sp.		Native bee	*Svastra*	sp.	8812	
7/20/2017	29	EASI	*Aster*	sp.		Native bee	*Andrena*	sp.	8814	
7/20/2017	29	EASI	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	8816	
7/20/2017	29	EASI	*Lagerstroemia*	sp.		Honey bee	*Apis*	*melifera*	8817	
7/20/2017	29	EASI	*Lagerstroemia*	sp.		Native bee	*Agapostemon*	sp.	8820	
7/20/2017	29	EASI	*Lagerstroemia*	sp.		Native bee	*Lasioglossum*	sp.	8821	
7/20/2017	29	EASI	*Calandrinia*	*grandiflora*		Native bee	*Lasioglossum*	sp.	8823	
7/20/2017	29	EASI	*Bulbine*	sp.		Native bee	*Halictus*	sp.	8824	
7/20/2017	29	EASI	*Convolvulus*	sp.		Native bee	*Lasioglossum*	sp.	8825	
7/20/2017	29	EASI	*Echinacea*	sp.		Native bee	*Agapostemon*	sp.	8827	
7/20/2017	29	EASI	*Gaillardia*	sp.		Native bee	*Svastra*	sp.	8828	
7/20/2017	29	EASI	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	8829	
7/20/2017	29	EASI	*Convolvulus*	sp.		Honey bee	*Apis*	*melifera*	8830	
7/20/2017	29	EASI	*Convolvulus*	sp.		Native bee	*Halictus*	sp.	8831	
7/20/2017	29	EASI	*Erigeron*		'Wayne Roderick'	Native bee	*Halictus*	sp.	8832	
7/20/2017	29	EASI	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	8833	
7/20/2017	29	EASI	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	8834	
7/20/2017	29	EASI	*Bulbine*	sp.		Native bee	*Megachile*	sp.	8841	
7/20/2017	29	EASI	*Lavandula*	sp.		Native bee	*Anthophora*	sp.	8844	COLLECTED
7/20/2017	29	EASI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	8842	
7/20/2017	29	EASI	*Lavandula*	sp.		Native bee	*Megachile*	sp.	8846	
7/20/2017	29	EASI	*Lavandula*	sp.		Native bee	*Halictus*	sp.	8847	
7/20/2017	29	EASI	*Salvia*	sp.		Native bee	*Halictus*	sp.	8848	
7/20/2017	29	EASI	*Bulbine*	sp.		Native bee	*Anthophora*	sp.	8843	
7/20/2017	29	EASI	*Eriogonum*	sp.		Native bee	*Lasioglossum*	sp.	8852	
7/20/2017	29	EASI	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	8853	
7/20/2017	29	EASI	*Eriogonum*	sp.		Native bee	*Andrena*	sp.	8855	
7/20/2017	29	EASI	*Hesperaloe*	sp.		Native bee	*Xylocopa*	sp.	8856	
7/20/2017	29	EASI	*Origanum*	sp.		Native bee	*Megachile*	sp.	8857	

7/20/2017	29	EASI	*Eriogonum*	sp.	Honey bee	*Apis*	*melifera*	8858
7/20/2017	29	EASI	*Solidago*	sp.	Native bee	*Halictus*	sp.	8859
7/20/2017	29	EASI	*Origanum*	sp.	Honey bee	*Apis*	*melifera*	8861
7/20/2017	29	EASI	*Sedum*	sp.	Native bee	*Megachile*	sp.	8862
7/20/2017	29	EASI	*Nepeta*	sp.	Honey bee	*Apis*	*melifera*	8872
7/20/2017	29	EASI	*Callistemon*	sp.	Honey bee	*Apis*	*melifera*	8875
7/20/2017	29	EASI	*Salvia*	sp.	Native bee	*Anthidium*	sp.	8876
7/20/2017	29	EASI	*Rosmarinus*	*officinalis*	Honey bee	*Apis*	*melifera*	8877
7/20/2017	29	EASI	*Rosmarinus*	*officinalis*	Native bee	*Andrena*	sp.	8878
7/20/2017	29	EASI	*Rosa*	*mutabilis*	Honey bee	*Apis*	*melifera*	8879
7/20/2017	29	EASI	*Hesperaloe*	sp.	Native bee	*Halictus*	sp.	8880
7/20/2017	29	SOAF	*Origanum*	sp.	Honey bee	*Apis*	*melifera*	8882
7/20/2017	29	SOAF	*Origanum*	sp.	Native bee	*Andrena*	sp.	8885
7/20/2017	29	SOAF	*Myoporum*	*parvifolium*	Honey bee	*Apis*	*melifera*	8887
7/20/2017	29	MEDI	*Lavandula*	sp.	Honey bee	*Apis*	*melifera*	8890
7/20/2017	29	MEDI	*Clematis*	sp.	Native bee	*Halictus*	sp.	8899
7/20/2017	29	MEDI	*Clematis*	sp.	Honey bee	*Apis*	*melifera*	8892
7/20/2017	29	MEDI	*Rosmarinus*	*officinalis*	Honey bee	*Apis*	*melifera*	8901
7/20/2017	29	MEDI	*Rosmarinus*	*officinalis*	Native bee	*Andrena*	sp.	8902
7/20/2017	29	MEDI	*Rosmarinus*	*officinalis*	Native bee	*Megachile*	sp.	8903
7/20/2017	29	MEDI	*Brassica*	sp.	Native bee	*Lasioglossum*	sp.	8906
7/20/2017	29	MEDI	*Brassica*	sp.	Native bee	*Halictus*	sp.	8907
7/20/2017	29	MEDI	*Brassica*	sp.	Honey bee	*Apis*	*melifera*	8915
7/20/2017	29	MEDI	*Brassica*	sp.	Native bee	*Halictus*	sp.	8915
7/20/2017	29	MEDI	*Perovskia*	sp.	Honey bee	*Apis*	*melifera*	8919
7/20/2017	29	MEDI	*Perovskia*	sp.	Native bee	*Lasioglossum*	sp.	8921
7/20/2017	29	MEDI	*Origanum*	sp.	Native bee	*Anthidiellum*	sp.	8924
7/20/2017	29	MEDI	*Origanum*	sp.	Honey bee	*Apis*	*melifera*	8925
7/20/2017	29	MEDI	*Origanum*	sp.	Native bee	*Lasioglossum*	sp.	8926
7/20/2017	29	MEDI	*Origanum*	sp.	Native bee	*Megachile*	sp.	8927
7/20/2017	29	MEDI	*Salvia*	sp.	Native bee	*Anthidium*	sp.	8929
7/20/2017	29	MEDI	*Salvia*	sp.	Native bee	*Halictus*	sp.	8931
7/20/2017	29	MEDI	*Myoporum*	*parvifolium*	Honey bee	*Apis*	*melifera*	8932
7/20/2017	29	MEDI	*Myoporum*	*parvifolium*	Native bee	*Halictus*	sp.	8933
7/20/2017	29	MEDI	*Bupleurum*	*fruticosum*	Honey bee	*Apis*	*melifera*	8934
7/20/2017	29	MEDI	*Bupleurum*	*fruticosum*	Native bee	*Lasioglossum*	sp.	8936
7/20/2017	29	MEDI	*Bupleurum*	*fruticosum*	Native bee	*Megachile*	sp.	8938
7/20/2017	29	MEDI	*Vitex*	sp.	Native bee	*Hylaeus*	sp.	8939
7/20/2017	29	MEDI	*Vitex*	sp.	Honey bee	*Apis*	*melifera*	8942
7/20/2017	29	MEDI	*Vitex*	sp.	Bumble bee	*Bombus*	sp.	8945
7/20/2017	29	MEDI	*Nerium*	sp.	Native bee	*Halictus*	sp.	8946
7/20/2017	29	LODG	*Buddleja*	*davidii*	Native bee	*Agapostemon*	sp.	8947
7/20/2017	29	LODG	*Chitalpa*	sp.	Honey bee	*Apis*	*melifera*	8949
7/20/2017	29	LODG	*Hemerocallis*	sp.	Native bee	*Lasioglossum*	sp.	8951
7/20/2017	29	LODG	*Brassica*	sp.	Native bee	*Lasioglossum*	sp.	8954
7/20/2017	29	LODG	*Brassica*	sp.	Native bee	*Halictus*	sp.	8955
7/20/2017	29	LODG	*Brassica*	sp.	Native bee	*Andrena*	sp.	8956
7/20/2017	29	LODG	*Trifolium*	sp.	Honey bee	*Apis*	*melifera*	8958
7/20/2017	29	BOAT	*Origanum*	sp.	Honey bee	*Apis*	*melifera*	8960
7/20/2017	29	BOAT	*Salvia*	sp.	Native bee	*Halictus*	sp.	8961
7/20/2017	29	BOAT	*Thymus*	sp.	Honey bee	*Apis*	*melifera*	8962
7/20/2017	29	BOAT	*Foeniculum*	*vulgare*	Honey bee	*Apis*	*melifera*	8964
7/20/2017	29	BOAT	*Foeniculum*	*vulgare*	Native bee	*Halictus*	sp.	8965
7/20/2017	29	BOAT	*Foeniculum*	*vulgare*	Native bee	*Megachile*	sp.	8966
7/20/2017	29	BOAT	*Origanum*	sp.	Native bee	*Megachile*	sp.	8967
7/20/2017	29	COMM	*Brassica*	sp.	Honey bee	*Apis*	*melifera*	8969
7/20/2017	29	COMM	*Brassica*	sp.	Native bee	*Lasioglossum*	sp.	8970
7/20/2017	29	COMM	*Adenostoma*	sp.	Native bee	*Megachile*	sp.	8975
7/20/2017	29	COMM	*Brassica*	sp.	Native bee	*Andrena*	sp.	8977
7/20/2017	29	COTT	*Myoporum*	*parvifolium*	Native bee	*Lasioglossum*	sp.	8978
7/20/2017	29	COTT	*Myoporum*	*parvifolium*	Honey bee	*Apis*	*melifera*	8982
7/20/2017	29	COTT	*Lagerstroemia*	sp.	Honey bee	*Apis*	*melifera*	8983
7/20/2017	29	COTT	*Lagerstroemia*	sp.	Native bee	*Halictus*	sp.	8984
7/20/2017	29	COTT	*Centaurea*	*solstitialis*	Native bee	*Melissodes*	sp.	8986
7/20/2017	29	COTT	*Centaurea*	*solstitialis*	Honey bee	*Apis*	*melifera*	8988
7/20/2017	29	COTT	*Centaurea*	*solstitialis*	Native bee	*Halictus*	sp.	8990
7/20/2017	29	YOLO	*Brassica*	sp.	Honey bee	*Apis*	*melifera*	8996
7/20/2017	29	YOLO	*Brassica*	sp.	Native bee	*Andrena*	sp.	8997
7/20/2017	29	YOLO	*Centaurea*	*solstitialis*	Honey bee	*Apis*	*melifera*	8998
7/20/2017	29	YOLO	*Centaurea*	*solstitialis*	Native bee	*Halictus*	sp.	8999
7/20/2017	29	YOLO	*Brassica*	sp.	Native bee	*Lasioglossum*	sp.	9001
7/20/2017	29	MOUN	*Trifolium*	sp.	Honey bee	*Apis*	*melifera*	9003
7/26/2017	30	GAZE	*Abelia*	sp.	Native bee	*Xylocopa*	sp.	9006
7/26/2017	30	GAZE	*Chrysanthemum*	sp.	Native bee	*Halictus*	sp.	9007
7/26/2017	30	GAZE	*Chrysanthemum*	sp.	Native bee	*Andrena*	sp.	9008
7/26/2017	30	GAZE	*Aloysia*	*citriodora*	Native bee	*Megachile*	sp.	9011
7/26/2017	30	GAZE	*Origanum*	sp.	Native bee	*Lasioglossum*	sp.	9013
7/26/2017	30	GAZE	*Origanum*	sp.	Honey bee	*Apis*	*melifera*	9017
7/26/2017	30	GAZE	*Gaura*	*lindheimeri*	Honey bee	*Apis*	*melifera*	9018
7/26/2017	30	GAZE	*Gaura*	*lindheimeri*	Native bee	*Lasioglossum*	sp.	9020

7/26/2017	30	GAZE	*Crinum*	x	sterile white flower form	Honey bee	*Apis*	*melifera*	9022	
7/26/2017	30	GAZE	*Rosa*		'Iceberg'	Honey bee	*Apis*	*melifera*	9026	
7/26/2017	30	GAZE	*Salvia*	x *sylvestris*	'Schneehugell'	Honey bee	*Apis*	*melifera*	9027	
7/26/2017	30	GAZE	*Sedum*	*album*		Native bee	*Lasioglossum*	sp.	9029	
7/26/2017	30	GAZE	*Hibiscus*	*syriacus*		Honey bee	*Apis*	*melifera*	9030	
7/26/2017	30	GAZE	*Duranta*	*erecta*	'Alba'	Honey bee	*Apis*	*melifera*	9031	
7/26/2017	30	GAZE	*Abutilon*	sp.		Native bee	*Xylocopa*	sp.	9034	
7/26/2017	30	STOR	*Erigeron*	*karvinskianus*		Native bee	*Lasioglossum*	sp.	9037	
7/26/2017	30	STOR	*Stachys*	*byzantina*		Bumble bee	*Bombus*	sp.	9041	COLLECTED
7/26/2017	30	STOR	*Stachys*	*byzantina*		Native bee	*Anthidium*	sp.	9042	
7/26/2017	30	STOR	*Penstemon*	sp.		Honey bee	*Apis*	*melifera*	9046	
7/26/2017	30	STOR	*Penstemon*	sp.		Native bee	*Xylocopa*	sp.	9047	
7/26/2017	30	STOR	*Rosa*	sp.		Native bee	*Halictus*	sp.	9050	
7/26/2017	30	STOR	*Scabiosa*	sp.		Honey bee	*Apis*	*melifera*	9051	
7/26/2017	30	STOR	*Scabiosa*	sp.		Native bee	*Lasioglossum*	sp.	9054	
7/26/2017	30	STOR	*Epilobium*	*canum*		Native bee	*Xylocopa*	sp.	9055	
7/26/2017	30	STOR	*Epilobium*	*canum*		Honey bee	*Apis*	*melifera*	9057	
7/26/2017	30	STOR	*Verbena*	sp.		Native bee	*Anthophora*	sp.	9062	
7/26/2017	30	STOR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	9065	
7/26/2017	30	STOR	*Perovskia*	sp.		Native bee	*Lasioglossum*	sp.	9066	
7/26/2017	30	STOR	*Thymus*	sp.		Honey bee	*Apis*	*melifera*	9068	
7/26/2017	30	STOR	*Salvia*	sp.		Native bee	*Halictus*	sp.	9069	
7/26/2017	30	STOR	*Limonium*	sp.		Honey bee	*Apis*	*melifera*	9071	
7/26/2017	30	STOR	*Limonium*	sp.		Native bee	*Halictus*	sp.	9073	
7/26/2017	30	STOR	*Delosperma*	sp.		Honey bee	*Apis*	*melifera*	9074	
7/26/2017	30	STOR	*Delosperma*	sp.		Native bee	*Lasioglossum*	sp.	9075	
7/26/2017	30	STOR	*Delosperma*	sp.		Native bee	*Halictus*	sp.	9076	
7/26/2017	30	STOR	*Origanum*	*vulgare*	'Betty Rollins'	Honey bee	*Apis*	*melifera*	9077	
7/26/2017	30	STOR	*Origanum*	*vulgare*	'Betty Rollins'	Native bee	*Svastra*	sp.	9080	
7/26/2017	30	STOR	*Origanum*	*vulgare*	'Betty Rollins'	Native bee	*Anthidiellum*	sp.	9081	
7/26/2017	30	STOR	*Penstemon*	sp.		Native bee	*Anthidiellum*	sp.	9082	
7/26/2017	30	STOR	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	9083	
7/26/2017	30	STOR	*Gaura*	*lindheimeri*		Native bee	*Lasioglossum*	sp.	9084	
7/26/2017	30	STOR	*Salvia*	*chionophylla*		Native bee	*Lasioglossum*	sp.	9087	
7/26/2017	30	STOR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	9089	
7/26/2017	30	STOR	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	9090	
7/26/2017	30	STOR	*Gaillardia*	sp.		Native bee	*Svastra*	sp.	9092	
7/26/2017	30	STOR	*Limonium*	sp.		Native bee	*Lasioglossum*	sp.	9094	
7/26/2017	30	STOR	*Ceratostigma*	*plumbaginoides*		Honey bee	*Apis*	*melifera*	9095	
7/26/2017	30	STOR	*Teucrium*	x *lucidrys*		Native bee	*Anthophora*	sp.	9097	
7/26/2017	30	STOR	*Teucrium*	*hyrcanium*		Honey bee	*Apis*	*melifera*	9098	
7/26/2017	30	STOR	*Teucrium*	*hyrcanium*		Native bee	*Halictus*	sp.	9103	
7/26/2017	30	STOR	*Scabiosa*	sp.		Native bee	*Svastra*	sp.	9107	COLLECTED
7/26/2017	30	STOR	*Gaura*	*lindheimeri*		Bumblebee	*Bombus*	sp.	9111	
7/26/2017	30	STOR	*Scabiosa*	sp.		Bumblebee	*Bombus*	sp.	9112	
7/26/2017	30	STOR	*Erigeron*	*karvinskianus*		Native bee	*Halictus*	sp.	9114	
7/26/2017	30	STOR	*Buddleja*	*davidii*		Native bee	*Agapostemon*	sp.	9115	
7/26/2017	30	STOR	*Buddleja*	*davidii*		Native bee	*Halictus*	sp.	9116	
7/26/2017	30	STOR	*Geranium*	sp.		Honey bee	*Apis*	*melifera*	9119	
7/26/2017	30	STOR	*Origanum*	sp.		Native bee	*Megachile*	sp.	9121	
7/26/2017	30	STOR	*Oxalis*	*rubra*		Native bee	*Lasioglossum*	sp.	9122	
7/26/2017	30	STOR	*Ballota*	*pseudodictamnus*		Native bee	*Anthidium*	sp.	9123	
7/26/2017	30	STOR	*Ballota*	*pseudodictamnus*		Honey bee	*Apis*	*melifera*	9124	
7/26/2017	30	STOR	*Chilopsis*	*linearis*		Native bee	*Xylocopa*	sp.	9125	
7/26/2017	30	STOR	*Chilopsis*	*linearis*		Native bee	*Megachile*	sp.	9126	
7/26/2017	30	STOR	*Buddleja*	*davidii*		Native bee	*Anthophora*	sp.	9131	
7/26/2017	30	STOR	*Malacothamnus*	sp.		Honey bee	*Apis*	*melifera*	9132	
7/26/2017	30	STOR	*Malacothamnus*	sp.		Native bee	*Lasioglossum*	sp.	9133	
7/26/2017	30	EASI	*Scabiosa*	sp.		Native bee	*Agapostemon*	sp.	9134	
7/26/2017	30	EASI	*Aster*	sp.		Native bee	*Halictus*	sp.	9135	
7/26/2017	30	EASI	*Aster*	sp.		Native bee	*Andrena*	sp.	9136	
7/26/2017	30	EASI	*Echinacea*	sp.		Native bee	*Melissodes*	sp.	9137	
7/26/2017	30	EASI	*Echinacea*	sp.		Honey bee	*Apis*	*melifera*	9140	
7/26/2017	30	EASI	*Lagerstroemia*	sp.		Honey bee	*Apis*	*melifera*	9141	
7/26/2017	30	EASI	*Lagerstroemia*	sp.		Native bee	*Halictus*	sp.	9142	
7/26/2017	30	EASI	*Salvia*	sp.		Native bee	*Andrena*	sp.	9143	
7/26/2017	30	EASI	*Bulbine*	sp.		Native bee	*Lasioglossum*	sp.	9148	
7/26/2017	30	EASI	*Bulbine*	sp.		Native bee	*Anthophora*	sp.	9150	
7/26/2017	30	EASI	*Convolvulus*	sp.		Native bee	*Lasioglossum*	sp.	9151	
7/26/2017	30	EASI	*Echinacea*	sp.		Native bee	*Melissodes*	sp.	9153	
7/26/2017	30	EASI	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	9154	
7/26/2017	30	EASI	*Agastache*	sp.		Native bee	*Anthidium*	sp.	9156	
7/26/2017	30	EASI	*Convolvulus*	sp.		Honey bee	*Apis*	*melifera*	9159	
7/26/2017	30	EASI	*Teucrium*	x *lucidrys*		Honey bee	*Apis*	*melifera*	9160	
7/26/2017	30	EASI	*Delosperma*	sp.		Native bee	*Lasioglossum*	sp.	9161	
7/26/2017	30	EASI	*Erigeron*		'Wayne Roderick'	Native bee	*Halictus*	sp.	9162	
7/26/2017	30	EASI	*Erigeron*		'Wayne Roderick'	Native bee	*Andrena*	sp.	9163	
7/26/2017	30	EASI	*Bahiopsis*	*parishii*		Native bee	*Andrena*	sp.	9166	
7/26/2017	30	EASI	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	9167	
7/26/2017	30	EASI	*Eriogonum*	sp.		Native bee	*Lasioglossum*	sp.	9168	

7/26/2017	30	EASI	*Eriogonum*	sp.		Native bee	*Anthidiellum*	sp.	9170	
7/26/2017	30	EASI	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	9171	
7/26/2017	30	EASI	*Hesperaloe*	sp.		Honey bee	*Apis*	*melifera*	9172	
7/26/2017	30	EASI	*Solidago*	*californica*	'Cascade Creek'	Native bee	*Halictus*	sp.	9173	
7/26/2017	30	EASI	*Origanum*	sp.		Native bee	*Andrena*	sp.	9174	
7/26/2017	30	EASI	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	9175	
7/26/2017	30	EASI	*Bulbine*	sp.		Native bee	*Megachile*	sp.	9176	
7/26/2017	30	EASI	*Bulbine*	sp.		Native bee	*Halictus*	sp.	9177	
7/26/2017	30	EASI	*Eriogonum*	sp.		Native bee	*Megachile*	sp.	9178	
7/26/2017	30	EASI	*Sedum*	sp.		Native bee	*Megachile*	sp.	9179	
7/26/2017	30	EASI	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	9180	
7/26/2017	30	EASI	*Lavandula*	*dentata*		Honey bee	*Apis*	*melifera*	9182	
7/26/2017	30	EASI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	9183	
7/26/2017	30	EASI	*Rosmarinus*	*officinalis*		Native bee	*Andrena*	sp.	9184	
7/26/2017	30	EASI	*Rosmarinus*	*officinalis*		Native bee	*Megachile*	sp.	9185	
7/26/2017	30	EASI	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	9186	
7/26/2017	30	EASI	*Lavandula*	*dentata*		Native bee	*Anthidium*	sp.	9188	
7/26/2017	30	EASI	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	9189	
7/26/2017	30	EASI	*Eryngium*	sp.		Native bee	*Hylaeus*	sp.	9192	
7/26/2017	30	EASI	*Eryngium*	sp.		Native bee	*Halictus*	sp.	9194	
7/26/2017	30	MOUN	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	9195	
7/26/2017	30	SOAF	*Origanum*	sp.		Native bee	*Andrena*	sp.	9196	
7/26/2017	30	SOAF	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	9198	
7/26/2017	30	SOAF	*Achillea*		'Coronation Gold'	Native bee	*Anthidiellum*	sp.	9199	
7/26/2017	30	SOAF	*Plumbago*	sp.		Native bee	*Lasioglossum*	sp.	9200	
7/26/2017	30	SOAF	*Myoporum*	*parvifolium*		Honey bee	*Apis*	*melifera*	9201	
7/26/2017	30	MEDI	*Lavandula*	*dentata*		Honey bee	*Apis*	*melifera*	9203	
7/26/2017	30	MEDI	*Rosmarinus*	*officinalis*		Native bee	*Andrena*	sp.	9204	
7/26/2017	30	MEDI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	9205	
7/26/2017	30	MEDI	*Clematis*	sp.		Native bee	*Andrena*	sp.	9206	
7/26/2017	30	MEDI	*Clematis*	sp.		Honey bee	*Apis*	*melifera*	9207	
7/26/2017	30	MEDI	*Clematis*	sp.		Native bee	*Halictus*	sp.	9208	
7/26/2017	30	MEDI	*Brassica*	sp.		Native bee	*Andrena*	sp.	9210	
7/26/2017	30	MEDI	*Brassica*	sp.		Native bee	*Lasioglossum*	sp.	9211	
7/26/2017	30	MEDI	*Vitex*	sp.		Native bee	*Andrena*	sp.	9212	
7/26/2017	30	MEDI	*Vitex*	sp.		Native bee	*Megachile*	sp.	9214	
7/26/2017	30	MEDI	*Perovskia*	*atriplicifolia*		Honey bee	*Apis*	*melifera*	9215	
7/26/2017	30	MEDI	*Perovskia*	*atriplicifolia*		Native bee	*Melissodes*	sp.	9216	
7/26/2017	30	MEDI	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	9217	
7/26/2017	30	MEDI	*Clematis*	sp.		Native bee	*Lasioglossum*	sp.	9218	
7/26/2017	30	MEDI	*Origanum*	sp.		Native bee	*Megachile*	sp.	9219	
7/26/2017	30	MEDI	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	9220	
7/26/2017	30	MEDI	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	9223	
7/26/2017	30	MEDI	*Salvia*	sp.		Native bee	*Anthidiellum*	sp.	9224	
7/26/2017	30	MEDI	*Salvia*	sp.		Native bee	*Andrena*	sp.	9225	
7/26/2017	30	MEDI	*Convolvulus*	sp.		Native bee	*Lasioglossum*	sp.	9226	
7/26/2017	30	MEDI	*Convolvulus*	sp.		Honey bee	*Apis*	*melifera*	9230	
7/26/2017	30	MEDI	*Rosmarinus*	sp.		Native bee	*Lasioglossum*	sp.	9232	
7/26/2017	30	MEDI	*Myoporum*	*parvifolium*		Honey bee	*Apis*	*melifera*	9233	
7/26/2017	30	MEDI	*Myoporum*	*parvifolium*		Native bee	*Andrena*	sp.	9234	
7/26/2017	30	MEDI	*Myoporum*	*parvifolium*		Native bee	*Lasioglossum*	sp.	9235	
7/26/2017	30	MEDI	*Bupleurum*	*fruticosum*		Honey bee	*Apis*	*melifera*	9236	
7/26/2017	30	MEDI	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	9237	
7/26/2017	30	MEDI	*Nerium*	sp.		Native bee	*Melissodes*	sp.	9239	
7/26/2017	30	ARGE	*Malva*	sp.		Native bee	*Melissodes*	sp.	9240	
7/26/2017	30	ARGE	*Veronica*	sp.		Honey bee	*Apis*	*melifera*	9241	
7/26/2017	30	SWUS	*Dasylirion*	*wheeleri*		Honey bee	*Apis*	*melifera*	9242	
7/26/2017	30	SWUS	*Ehretia*	*anauca*		Honey bee	*Apis*	*melifera*	9245	
7/26/2017	30	SWUS	*Tecoma*	sp.		Honey bee	*Apis*	*melifera*	9246	
7/26/2017	30	SWUS	*Gaillardia*	sp.		Native bee	*Triepeolus*	sp.	9250	COLLECTED
7/26/2017	30	SWUS	*Gaillardia*	sp.		Native bee	*Svastra*	sp.	9252	COLLECTED
7/26/2017	30	SWUS	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	9253	
7/26/2017	30	SWUS	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	9254	
7/26/2017	30	SWUS	*Leucophyllum*	sp.		Native bee	*Lasioglossum*	sp.	9255	
7/26/2017	30	SWUS	*Leucophyllum*	sp.		Honey bee	*Apis*	*melifera*	9257	
7/26/2017	30	SWUS	*Nolina*	sp.		Honey bee	*Apis*	*melifera*	9258	
7/26/2017	30	SWUS	*Isomeris*	*arborea*		Native bee	*Halictus*	sp.	9260	
7/26/2017	30	CONI	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	9261	
7/26/2017	30	CONI	*Eriogonum*	sp.		Native bee	*Andrena*	sp.	9262	
7/26/2017	30	CONI	*Eriogonum*	sp.		Native bee	*Megachile*	sp.	9263	
7/26/2017	30	CONI	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	9264	
7/26/2017	30	CONI	*Eriogonum*	sp.		Native bee	*Anthidiellum*	sp.	9268	
7/26/2017	30	CONI	*Eriogonum*	sp.		Native bee	*Lasioglossum*	sp.	9269	
7/26/2017	30	CONI	*Ruellia*	sp.		Native bee	*Halictus*	sp.	9273	
7/26/2017	30	CONI	*Ruellia*	sp.		Honey bee	*Apis*	*melifera*	9275	
7/26/2017	30	CONI	*Ruellia*	sp.		Native bee	*Agapostemon*	sp.	9276	
7/26/2017	30	CONI	*Mentha*	sp.		Honey bee	*Apis*	*melifera*	9277	
7/26/2017	30	CONI	*Mentha*	sp.		Native bee	*Triepeolus*	sp.	9279	
7/26/2017	30	CONI	*Mentha*	sp.		Native bee	*Svastra*	sp.	9280	
7/26/2017	30	CONI	*Mentha*	sp.		Native bee	*Andrena*	sp.	9282	

7/26/2017	30	CONI	*Mentha*	sp.		Native bee	*Halictus*	sp.	9283	
7/26/2017	30	CONI	*Mentha*	sp.		Native bee	*Melissodes*	sp.	9284	
7/26/2017	30	CONI	*Limonium*	sp.		Native bee	*Melissodes*	sp.	9285	
7/26/2017	30	CONI	*Limonium*	sp.		Native bee	*Halictus*	sp.	9286	
7/26/2017	30	ENTR	*Perovskia*	sp.		Native bee	*Triepeolus*	sp.	9287	
7/26/2017	30	ENTR	*Perovskia*	sp.		Native bee	*Anthidiellum*	sp.	9288	
7/26/2017	30	ENTR	*Perovskia*	sp.		Native bee	*Melissodes*	sp.	9289	
7/26/2017	30	ENTR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	9292	
7/26/2017	30	ENTR	*Bupleurum*	*fruticosum*		Honey bee	*Apis*	*melifera*	9293	
7/26/2017	30	LODG	*Veronica*	sp.		Native bee	*Lasioglossum*	sp.	9299	
7/26/2017	30	LODG	*Veronica*	sp.		Native bee	*Megachile*	sp.	9301	
7/26/2017	30	LODG	*Chitalpa*	sp.		Honey bee	*Apis*	*melifera*	9304	
7/26/2017	30	LODG	*Trifolium*	sp.		Native bee	*Halictus*	sp.	9305	
7/26/2017	30	BOAT	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	9308	
7/26/2017	30	BOAT	*Penstemon*	sp.		Native bee	*Lasioglossum*	sp.	9311	
7/26/2017	30	BOAT	*Origanum*	sp.		Native bee	*Lasioglossum*	sp.	9312	
7/26/2017	30	BOAT	*Teucrium*	sp.		Honey bee	*Apis*	*melifera*	9313	
7/26/2017	30	COMM	*Rosmarinus*	sp.		Native bee	*Anthidiellum*	sp.	9315	
7/26/2017	30	COMM	*Brassica*	sp.		Native bee	*Lasioglossum*	sp.	9317	
7/26/2017	30	COMM	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	9317b	
7/26/2017	30	COMM	*Rosmarinus*	sp.		Native bee	*Anthidiellum*	sp.	9320	
7/26/2017	30	COTT	*Myoporum*	sp.		Honey bee	*Apis*	*melifera*	9322	
7/26/2017	30	COTT	*Centaurea*	*solstitialis*		Honey bee	*Apis*	*melifera*	9327	
7/26/2017	30	COTT	*Centaurea*	*solstitialis*		Native bee	*Megachile*	sp.	9330	
7/26/2017	30	COTT	*Centaurea*	*solstitialis*		Native bee	*Halictus*	sp.	9331	
7/26/2017	30	YOLO	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	9333	
7/26/2017	30	YOLO	*Centaurea*	*solstitialis*		Native bee	*Andrena*	sp.	9334	
7/26/2017	30	YOLO	*Centaurea*	*solstitialis*		Native bee	*Halictus*	sp.	9335	
7/26/2017	30	YOLO	*Brassica*	sp.		Native bee	*Lasioglossum*	sp.	9336	
7/26/2017	30	AUST_N	*Myoporum*	*parvifolium*		Native bee	*Halictus*	sp.	9338	
7/26/2017	30	AUST_N	*Myoporum*	*parvifolium*		Native bee	*Andrena*	sp.	9339	
7/26/2017	30	AUST_N	*Myoporum*	*parvifolium*		Native bee	*Agapostemon*	sp.	9342	
7/26/2017	30	AUST_N	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	9343	
7/26/2017	30	AUST_N	*Eremophila*	*maculata*		Honey bee	*Apis*	*melifera*	9344	
7/26/2017	30	AUST_N	*Sollya*	sp.		Native bee	*Megachile*	sp.	9348	
7/26/2017	30	AUST_S	*Apocynum*	sp.		Native bee	*Megachile*	sp.	9349	
7/26/2017	30	AUST_S	*Convolvulus*	sp.		Native bee	*Agapostemon*	sp.	9350	
7/26/2017	30	AUST_S	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	9351	
7/26/2017	30	AUST_S	*Correa*	sp.		Native bee	*Triepeolus*	sp.	9354	COLLECTED
7/26/2017	30	AUST_S	*Eremophila*	*maculata*		Native bee	*Megachile*	sp.	9356	
7/26/2017	30	AUST_S	*Hebe*	sp.		Native bee	*Agapostemon*	sp.	9358	
7/26/2017	30	AUST_S	*Hebe*	sp.		Honey bee	*Apis*	*melifera*	9359	
7/26/2017	30	AUST_S	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	9360	
7/26/2017	30	AUST_S	*Grevillea*	sp.		Native bee	*Anthidium*	sp.	9361	
7/26/2017	30	AUST_S	*Westringia*	sp.		Native bee	*Andrena*	sp.	9363	
7/26/2017	30	AUST_S	*Ozothanmus*		'Sussex Silver'	Native bee	*Andrena*	sp.	9364	
7/26/2017	30	AUST_S	*Ozothanmus*		'Sussex Silver'	Native bee	*Lasioglossum*	sp.	9365	
7/26/2017	30	AUST_S	*Solanum*	sp.		Native bee	*Anthophora*	sp.	9366	
7/26/2017	30	AUST_S	*Westringia*	sp.		Native bee	*Megachile*	sp.	9368	
7/26/2017	30	ERIC_S	*Kickxia*	*elatine*		Native bee	*Halictus*	sp.	9369	
7/26/2017	30	ERIC_S	*Kickxia*	*elatine*		Native bee	*Lasioglossum*	sp.	9370	
7/26/2017	30	GATE	*Rosa*	*californica*		Honey bee	*Apis*	*melifera*	9371	
7/26/2017	30	GATE	*Grindelia*	sp.		Native bee	*Halictus*	sp.	9373	
7/26/2017	30	GATE	*Grindelia*	sp.		Native bee	*Andrena*	sp.	9374	
7/26/2017	30	GATE	*Grindelia*	sp.		Native bee	*Svastra*	sp.	9377	
7/26/2017	30	GATE	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	9381	
7/26/2017	30	GATE	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	9382	
7/26/2017	30	GATE	*Asclepias*	sp.		Native bee	*Halictus*	sp.	9386	
7/26/2017	30	GATE	*Asclepias*	sp.		Honey bee	*Apis*	*melifera*	9387	
7/26/2017	30	GATE	*Convolvulus*	sp.		Native bee	*Melissodes*	sp.	9393	
7/26/2017	30	GATE	*Convolvulus*	sp.		Honey bee	*Apis*	*melifera*	9394	
7/26/2017	30	GATE	*Madia*	sp.		Native bee	*Andrena*	sp.	9395	
7/26/2017	30	GATE	*Apocynum*	sp.		Honey bee	*Apis*	*melifera*	9400	
7/26/2017	30	GATE	*Apocynum*	sp.		Native bee	*Megachile*	sp.	9401	
7/26/2017	30	A_ST	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	9403	
7/26/2017	30	A_ST	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	9404	
7/26/2017	30	REDW	*Heliotropium*	*curassavicum*		Honey bee	*Apis*	*melifera*	9406	
7/26/2017	30	REDW	*Heliotropium*	*curassavicum*		Native bee	*Halictus*	sp.	9407	
7/26/2017	30	REDW	*Heliotropium*	*curassavicum*		Native bee	*Lasioglossum*	sp.	9415	
7/26/2017	30	REDW	*Heliotropium*	*curassavicum*		Native bee	*Megachile*	sp.	9416	
7/26/2017	30	REDW	*Heliotropium*	*curassavicum*		Native bee	*Andrena*	sp.	9417	
7/26/2017	30	MWB	*Aster*	sp.		Native bee	*Halictus*	sp.	9419	
7/26/2017	30	MWB	*Eriogonum*	sp.		Native bee	*Lasioglossum*	sp.	9421	
7/26/2017	30	MWB	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	9422	
7/26/2017	30	MWB	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	9423	
7/26/2017	30	MWB	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	9424	
7/26/2017	30	MWB	*Aquilegia*	sp.		Native bee	*Lasioglossum*	sp.	9425	
7/26/2017	30	MWB	*Salvia*	sp.		Native bee	*Anthidiellum*	sp.	9430	
7/26/2017	30	MWB	*Stachys*	sp.		Native bee	*Anthidium*	sp.	9433	
7/26/2017	30	MWB	*Solidago*	sp.		Native bee	*Halictus*	sp.	9434	

7/26/2017	30	MWB	*Horkelia*	sp.		Native bee	*Lasioglossum*	sp.	9438	
7/26/2017	30	MWB	*Epilobium*	sp.		Native bee	*Lasioglossum*	sp.	9440	
7/26/2017	30	MWB	*Solidago*	sp.		Native bee	*Svastra*	sp.	9442	
7/26/2017	30	MWB	*Solidago*	sp.		Native bee	*Andrena*	sp.	9443	
7/26/2017	30	MWB	*Eriogonum*	sp.		Native bee	*Triepeolus*	sp.	9444	
7/26/2017	30	MWB	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	9445	
7/26/2017	30	MWB	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	9446	
7/26/2017	30	MWB	*Eriogonum*	sp.		Native bee	*Melissodes*	sp.	9447	
7/26/2017	30	MWB	*Eriogonum*	sp.		Native bee	*Hylaeus*	sp.	9448	
7/26/2017	30	MWB	*Eriogonum*	sp.		Native bee	*Megachile*	sp.	9449	
7/26/2017	30	MWB	*Heuchera*		'Rosada'	Native bee	*Lasioglossum*	sp.	9450	
7/26/2017	30	MWB	*Aster*	sp.		Native bee	*Lasioglossum*	sp.	9456	
7/26/2017	30	MWB	*Aster*	sp.		Native bee	*Andrena*	sp.	9457	
7/26/2017	30	MWB	*Corethrogyne*	sp.		Native bee	*Halictus*	sp.	9459	
7/26/2017	30	MWB	*Trichostema*	sp.		Native bee	*Lasioglossum*	sp.	9460	
7/26/2017	30	MWB	*Penstemon*	sp.		Native bee	*Lasioglossum*	sp.	9463	
7/26/2017	30	MWB	*Eucalyptus*	sp.		Native bee	*Halictus*	sp.	9464	
7/26/2017	30	MWB	*Eucalyptus*	sp.		Native bee	*Andrena*	sp.	9465	
7/26/2017	30	MWB	*Achillea*	sp.		Native bee	*Halictus*	sp.	9466	
7/26/2017	30	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Halictus*	sp.	9471	
7/26/2017	30	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Andrena*	sp.	9472	
7/26/2017	30	MWB	*Salvia*	sp.		Native bee	*Lasioglossum*	sp.	9473	
7/26/2017	30	MWB	*Eschscholzia*	*californica*		Bumble bee	*Bombus*	sp.	9475	
7/26/2017	30	MWB	*Heliotropium*	*curassavicum*		Native bee	*Lasioglossum*	sp.	9476	
7/26/2017	30	MWB	*Heliotropium*	*curassavicum*		Native bee	*Halictus*	sp.	9477	
7/26/2017	30	MWB	*Heliotropium*	*curassavicum*		Honey bee	*Apis*	*melifera*	9478	
7/26/2017	30	MWB	*Heliotropium*	*curassavicum*		Native bee	*Andrena*	sp.	9482	
7/26/2017	30	MWB	*Heliotropium*	*curassavicum*		Native bee	*Megachile*	sp.	9484	
7/26/2017	30	MWB	*Acmispon*	*americanus*		Native bee	*Anthidiellum*	sp.	9485	
7/26/2017	30	MWB	*Acmispon*	*americanus*		Native bee	*Megachile*	sp.	9489	
7/26/2017	30	MWB	*Acmispon*	*americanus*		Native bee	*Lasioglossum*	sp.	9491	
7/26/2017	30	MWB	*Acmispon*	*americanus*		Native bee	*Anthidium*	sp.	9492	
7/26/2017	30	FOOT	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	9494	
7/26/2017	30	FOOT	*Eriogonum*	sp.		Native bee	*Anthidium*	sp.	9497	
7/26/2017	30	FOOT	*Eriogonum*	sp.		Native bee	*Megachile*	sp.	9498	
7/26/2017	30	FOOT	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	9499	
7/26/2017	30	REDB	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	9500	
7/26/2017	30	REDB	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	9501	
7/26/2017	30	REDB	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	9502	
7/26/2017	30	DESE	*Larrea*	sp.		Honey bee	*Apis*	*melifera*	9508	
7/26/2017	30	DESE	*Chilopsis*	*linearis*		Honey bee	*Apis*	*melifera*	9507	
7/26/2017	30	DESE	*Larrea*	sp.		Native bee	*Lasioglossum*	sp.	9509	
7/26/2017	30	DESE	*Baileya*	*multiradiata*		Native bee	*Halictus*	sp.	9510	
7/26/2017	30	DESE	*Encelia*	sp.		Native bee	*Halictus*	sp.	9512	
7/26/2017	30	DESE	*Encelia*	sp.		Native bee	*Anthidium*	sp.	9515	
7/26/2017	30	DESE	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	9513	
7/26/2017	30	DESE	*Encelia*	sp.		Native bee	*Triepeolus*	sp.	9516	
7/26/2017	30	DESE	*Chitalpa*	sp.		Honey bee	*Apis*	*melifera*	9517	
7/26/2017	30	DESE	*Sphaeralcea*	sp.		Native bee	*Halictus*	sp.	9520	
7/26/2017	30	MRAK	*Apentia*	sp.		Honey bee	*Apis*	*melifera*	9522	
7/26/2017	30	MRAK	*Clarkia*	sp.		Native bee	*Halictus*	sp.	9523	
7/26/2017	30	MRAK	*Salvia*		'Blauhugel'	Honey bee	*Apis*	*melifera*	9524	
7/26/2017	30	MRAK	*Salvia*		'Blauhugel'	Native bee	*Megachile*	sp.	9525	
7/26/2017	30	MRAK	*Salvia*		'Blauhugel'	Native bee	*Anthidium*	sp.	9526	
7/26/2017	30	MRAK	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	9528	
7/26/2017	30	MRAK	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	9530	
7/26/2017	30	MRAK	*Salvia*		'Blauhugel'	Native bee	*Lasioglossum*	sp.	9535	
7/26/2017	30	MRAK	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	9536	
7/26/2017	30	MRAK	*Abelia*	sp.		Honey bee	*Apis*	*melifera*	9537	
7/26/2017	30	MRAK	*Mentha*		'Himalyan Silver'	Honey bee	*Apis*	*melifera*	9538	
7/26/2017	30	MRAK	*Mentha*		'Himalyan Silver'	Native bee	*Andrena*	sp.	9539	
7/26/2017	30	MRAK	*Mentha*		'Himalyan Silver'	Native bee	*Megachile*	sp.	9540	
7/26/2017	30	MRAK	*Mentha*		'Himalyan Silver'	Native bee	*Triepeolus*	sp.	9541	
7/26/2017	30	MRAK	*Mentha*		'Himalyan Silver'	Native bee	*Halictus*	sp.	9542	
7/26/2017	30	MRAK	*Mentha*		'Himalyan Silver'	Native bee	*Svastra*	sp.	9544	COLLECTED
7/26/2017	30	MRAK	*Scabiosa*	sp.		Native bee	*Andrena*	sp.	9548	
7/26/2017	30	MRAK	*Scabiosa*	sp.		Native bee	*Melissodes*	sp.	9551	
7/26/2017	30	MRAK	*Scabiosa*	sp.		Native bee	*Lasioglossum*	sp.	9550	
8/2/2017	31	GAZE	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	9553	
8/2/2017	31	GAZE	*Gaura*	*lindheimeri*		Native bee	*Halictus*	sp.	9554	
8/2/2017	31	GAZE	*Hibiscus*	sp.		Honey bee	*Apis*	*melifera*	9556	
8/2/2017	31	GAZE	*Gaura*	*lindheimeri*		Native bee	*Agapostemon*	sp.	9561	
8/2/2017	31	GAZE	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	9562	
8/2/2017	31	GAZE	*Hibiscus*	sp.		Native bee	*Xylocopa*	sp.	9563	
8/2/2017	31	GAZE	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	9564	
8/2/2017	31	GAZE	*Salvia*	x sylvestris		Honey bee	*Apis*	*melifera*	9565	
8/2/2017	31	GAZE	*Ligustrum*	*quihoui*		Honey bee	*Apis*	*melifera*	9566	
8/2/2017	31	STOR	*Thermopsis*	*villosa*		Bumble bee	*Bombus*	sp.	9568	
8/2/2017	31	STOR	*Stachys*	sp.		Native bee	*Anthidium*	sp.	9569	
8/2/2017	31	STOR	*Stachys*	sp.		Native bee	*Hylaeus*	sp.	9570	

8/2/2017	31	STOR	*Scabiosa*	sp.		Honey bee	*Apis*	*melifera*	9577
8/2/2017	31	STOR	*Scabiosa*	sp.		Native bee	*Megachile*	sp.	9578
8/2/2017	31	STOR	*Scabiosa*	sp.		Native bee	*Lasioglossum*	sp.	9579
8/2/2017	31	STOR	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	9580
8/2/2017	31	STOR	*Rosa*	sp.		Native bee	*Halictus*	sp.	9582
8/2/2017	31	STOR	*Epilobium*	sp.		Native bee	*Anthidiellum*	sp.	9583
8/2/2017	31	STOR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	9585
8/2/2017	31	STOR	*Scabiosa*	sp.		Native bee	*Melissodes*	sp.	9586
8/2/2017	31	STOR	*Perovskia*	sp.		Native bee	*Megachile*	sp.	9588
8/2/2017	31	STOR	*Thymus*	sp.		Honey bee	*Apis*	*melifera*	9590
8/2/2017	31	STOR	*Salvia*	sp.		Native bee	*Megachile*	sp.	9593
8/2/2017	31	STOR	*Salvia*	sp.		Native bee	*Halictus*	sp.	9594
8/2/2017	31	STOR	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	9596
8/2/2017	31	STOR	*Gaillardia*	sp.		Native bee	*Svastra*	sp.	9597
8/2/2017	31	STOR	*Salvia*	*disermas*		Native bee	*Lasioglossum*	sp.	9600
8/2/2017	31	STOR	*Pelargonium*	*sidoides*		Native bee	*Lasioglossum*	sp.	9601
8/2/2017	31	STOR	*Lagerstroemia*	sp.		Native bee	*Halictus*	sp.	9064
8/2/2017	31	STOR	*Glaucium*	*flavum*		Native bee	*Lasioglossum*	sp.	9605
8/2/2017	31	STOR	*Erigeron*	*karvinskianus*		Native bee	*Halictus*	sp.	9607
8/2/2017	31	STOR	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	9608
8/2/2017	31	STOR	*Gaura*	*lindheimeri*		Native bee	*Megachile*	sp.	9610
8/2/2017	31	STOR	*Gaura*	*lindheimeri*		Native bee	*Agapostemon*	sp.	9613
8/2/2017	31	STOR	*Teucrium*	*hyrcanium*		Native bee	*Melissodes*	sp.	9615
8/2/2017	31	STOR	*Teucrium*	*hyrcanium*		Native bee	*Lasioglossum*	sp.	9617
8/2/2017	31	STOR	*Gaura*	*lindheimeri*		Native bee	*Andrena*	sp.	9616
8/2/2017	31	STOR	*Teucrium*	*hyrcanium*		Native bee	*Halictus*	sp.	9618
8/2/2017	31	STOR	*Teucrium*	*hyrcanium*		Native bee	*Megachile*	sp.	9619
8/2/2017	31	STOR	*Rosa*	sp.		Native bee	*Hylaeus*	sp.	9635
8/2/2017	31	STOR	*Teucrium*	x *lucidrys*		Honey bee	*Apis*	*melifera*	9636
8/2/2017	31	STOR	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	9637
8/2/2017	31	STOR	*Gaura*	*lindheimeri*		Native bee	*Xylocopa*	sp.	9638
8/2/2017	31	STOR	*Origanum*	sp.		Native bee	*Lasioglossum*	sp.	9639
8/2/2017	31	STOR	*Convolvulus*	sp.		Native bee	*Lasioglossum*	sp.	9641
8/2/2017	31	STOR	*Nepeta*	x *faassenii*		Native bee	*Lasioglossum*	sp.	9642
8/2/2017	31	STOR	*Scabiosa*	sp.		Native bee	*Andrena*	sp.	9643
8/2/2017	31	STOR	*Erigeron*	*karvinskianus*	'Moerheimii'	Honey bee	*Apis*	*melifera*	9645
8/2/2017	31	STOR	*Delosperma*	*cooperi*		Native bee	*Lasioglossum*	sp.	9647
8/2/2017	31	STOR	*Delosperma*	*cooperi*		Native bee	*Megachile*	sp.	9648
8/2/2017	31	STOR	*Delosperma*	*cooperi*		Native bee	*Halictus*	sp.	9649
8/2/2017	31	STOR	*Limonium*	sp.		Honey bee	*Apis*	*melifera*	9652
8/2/2017	31	EASI	*Teucrium*	x *lucidrys*		Honey bee	*Apis*	*melifera*	9654
8/2/2017	31	EASI	*Aster*	sp.		Native bee	*Andrena*	sp.	9655
8/2/2017	31	EASI	*Aster*	sp.		Native bee	*Halictus*	sp.	9656
8/2/2017	31	EASI	*Echinacea*	sp.		Native bee	*Halictus*	sp.	9657
8/2/2017	31	EASI	*Lagerstroemia*	sp.		Native bee	*Halictus*	sp.	9659
8/2/2017	31	EASI	*Bulbine*	sp.		Native bee	*Lasioglossum*	sp.	9662
8/2/2017	31	EASI	*Calandrinia*	*grandiflora*		Native bee	*Lasioglossum*	sp.	9663
8/2/2017	31	EASI	*Echinacea*	sp.		Native bee	*Melissodes*	sp.	9664
8/2/2017	31	EASI	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	9668
8/2/2017	31	EASI	*Salvia*	sp.		Native bee	*Lasioglossum*	sp.	9671
8/2/2017	31	EASI	*Delosperma*	*cooperi*		Native bee	*Lasioglossum*	sp.	9672
8/2/2017	31	EASI	*Erigeron*	*karvinskianus*	'Wiri'	Native bee	*Halictus*	sp.	9673
8/2/2017	31	EASI	*Eriogonum*	*grande*	var. rubescens	Native bee	*Lasioglossum*	sp.	9674
8/2/2017	31	EASI	*Solidago*	*californica*	'Cascade Creek'	Native bee	*Halictus*	sp.	9675
8/2/2017	31	EASI	*Solidago*	*californica*	'Cascade Creek'	Honey bee	*Apis*	*melifera*	9676
8/2/2017	31	EASI	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	9677
8/2/2017	31	EASI	*Sedum*	sp.		Native bee	*Megachile*	sp.	9678
8/2/2017	31	EASI	*Eriogonum*	sp.		Native bee	*Andrena*	sp.	9679
8/2/2017	31	EASI	*Eriogonum*	sp.		Native bee	*Anthidium*	sp.	9680
8/2/2017	31	EASI	*Convolvulus*	sp.		Native bee	*Halictus*	sp.	9681
8/2/2017	31	EASI	*Nepeta*	x *faassenii*		Honey bee	*Apis*	*melifera*	9682
8/2/2017	31	EASI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	9683
8/2/2017	31	EASI	*Rosmarinus*	*officinalis*		Native bee	*Andrena*	sp.	9685
8/2/2017	31	EASI	*Bulbine*	sp.		Native bee	*Halictus*	sp.	9688
8/2/2017	31	EASI	*Lavandula*	sp.		Native bee	*Melissodes*	sp.	9689
8/2/2017	31	EASI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	9690
8/2/2017	31	EASI	*Salvia*	sp.		Native bee	*Halictus*	sp.	9691
8/2/2017	31	SOAF	*Athanasia*	*dentata*		Native bee	*Halictus*	sp.	9692
8/2/2017	31	SOAF	*Myoporum*	*parvifolium*		Honey bee	*Apis*	*melifera*	9693
8/2/2017	31	SOAF	*Salvia*	sp.		Native bee	*Lasioglossum*	sp.	9694
8/2/2017	31	MEDI	*Clematis*	sp.		Native bee	*Hylaeus*	sp.	9696
8/2/2017	31	MEDI	*Rosmarinus*	*officinalis*		Native bee	*Andrena*	sp.	9699
8/2/2017	31	MEDI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	9700
8/2/2017	31	MEDI	*Rosmarinus*	*officinalis*		Native bee	*Lasioglossum*	sp.	9701
8/2/2017	31	MEDI	*Clematis*	sp.		Honey bee	*Apis*	*melifera*	9702
8/2/2017	31	MEDI	*Brassica*	sp.		Native bee	*Lasioglossum*	sp.	9703
8/2/2017	31	MEDI	*Kickxia*	*elatine*		Native bee	*Halictus*	sp.	9704
8/2/2017	31	MEDI	*Perovskia*	*atriplicifolia*		Honey bee	*Apis*	*melifera*	9705
8/2/2017	31	MEDI	*Perovskia*	*atriplicifolia*		Native bee	*Megachile*	sp.	9706
8/2/2017	31	MEDI	*Perovskia*	*atriplicifolia*		Native bee	*Lasioglossum*	sp.	9707

8/2/2017	31	MEDI	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	9708	
8/2/2017	31	MEDI	*Rosmarinus*	sp.		Native bee	*Megachile*	sp.	9710	
8/2/2017	31	MEDI	*Convolvulus*	sp.		Native bee	*Lasioglossum*	sp.	9712	
8/2/2017	31	MEDI	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	9715	
8/2/2017	31	MEDI	*Vitex*	sp.		Native bee	*Megachile*	sp.	9716	
8/2/2017	31	MEDI	*Vitex*	sp.		Native bee	*Lasioglossum*	sp.	9717	
8/2/2017	31	MEDI	*Myoporum*	*parvifolium*		Honey bee	*Apis*	*melifera*	9718	
8/2/2017	31	ARGE	*Veronica*	*nudiflora*		Honey bee	*Apis*	*melifera*	9719	
8/2/2017	31	ARGE	*Veronica*	*nudiflora*		Native bee	*Halictus*	sp.	9720	
8/2/2017	31	ARGE	*Veronica*	*nudiflora*		Native bee	*Svastra*	sp.	9723	
8/2/2017	31	ARGE	*Veronica*	*nudiflora*		Native bee	*Melissodes*	sp.	9724	
8/2/2017	31	ARGE	*Erythrina*	*crista-galli*		Honey bee	*Apis*	*melifera*	9725	
8/2/2017	31	LODG	*Chitalpa*	sp.		Bumble bee	*Bombus*	sp.	9728	
8/2/2017	31	LODG	*Salvia*		'Blauhugel'	Native bee	*Lasioglossum*	sp.	9729	
8/2/2017	31	LODG	*Salvia*		'Blauhugel'	Honey bee	*Apis*	*melifera*	9730	
8/2/2017	31	LODG	*Lagerstroemia*	sp.		Native bee	*Megachile*	sp.	9731	
8/2/2017	31	LODG	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	9732	
8/2/2017	31	LODG	*Trifolium*	sp.		Native bee	*Megachile*	sp.	9733	
8/2/2017	31	BOAT	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	9734	
8/2/2017	31	BOAT	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	9735	
8/2/2017	31	BOAT	*Origanum*	sp.		Native bee	*Lasioglossum*	sp.	9736	
8/2/2017	31	BOAT	*Origanum*	sp.		Native bee	*Megachile*	sp.	9737	
8/2/2017	31	BOAT	*Foeniculum*	sp.		Honey bee	*Apis*	*melifera*	9738	
8/2/2017	31	COMM	*Rosmarinus*	sp.		Native bee	*Megachile*	sp.	9739	
8/2/2017	31	COMM	*Rosmarinus*	sp.		Native bee	*Lasioglossum*	sp.	9741	
8/2/2017	31	COMM	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	9742	
8/2/2017	31	COMM	*Rosmarinus*	sp.		Native bee	*Andrena*	sp.	9743	
8/2/2017	31	COTT	*Myoporum*	*parvifolium*		Honey bee	*Apis*	*melifera*	9744	
8/2/2017	31	COTT	*Myoporum*	*parvifolium*		Native bee	*Andrena*	sp.	9745	
8/2/2017	31	COTT	*Lagerstroemia*	sp.		Honey bee	*Apis*	*melifera*	9746	
8/2/2017	31	COTT	*Centaurea*	*solstitialis*		Honey bee	*Apis*	*melifera*	9747	
8/2/2017	31	COTT	*Centaurea*	*solstitialis*		Native bee	*Megachile*	sp.	9748	
8/2/2017	31	COTT	*Centaurea*	*solstitialis*		Native bee	*Andrena*	sp.	9750	
8/2/2017	31	COTT	*Brassica*	sp.		Native bee	*Andrena*	sp.	9754	
8/2/2017	31	YOLO	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	9755	
8/2/2017	31	MOUN	*Trifolium*	sp.		Native bee	*Andrena*	sp.	9756	
8/2/2017	31	MOUN	*Trifolium*	sp.		Native bee	*Halictus*	sp.	9758	
8/2/2017	31	AUST_N	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	9759	
8/2/2017	31	AUST_N	*Grevillea*	sp.		Native bee	*Xylocopa*	sp.	9760	
8/2/2017	31	AUST_N	*Grevillea*	sp.		Native bee	*Megachile*	sp.	9761	
8/2/2017	31	AUST_N	*Grevillea*	sp.		Native bee	*Halictus*	sp.	9763	
8/3/2017	32	AUST_N	*Billardiera*	*bicolor*		Native bee	*Lasioglossum*	sp.	9766	
8/2/2017	31	AUST_N	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	9767	
8/2/2017	31	AUST_S	*Eremophila*	*maculata*		Honey bee	*Apis*	*melifera*	9768	
8/2/2017	31	AUST_S	*Eremophila*	*maculata*		Native bee	*Agapostemon*	sp.	9769	
8/2/2017	31	AUST_S	*Eremophila*	*maculata*		Native bee	*Lasioglossum*	sp.	9771	
8/2/2017	31	AUST_S	*Eremophila*	*maculata*		Native bee	*Megachile*	sp.	9772	
8/2/2017	31	AUST_S	*Hebe*	sp.		Native bee	*Melissodes*	sp.	9774	
8/2/2017	31	AUST_S	*Convolvulus*	sp.		Native bee	*Agapostemon*	sp.	9775	
8/2/2017	31	AUST_S	*Convolvulus*	sp.		Native bee	*Lasioglossum*	sp.	9776	
8/2/2017	31	AUST_S	*Convolvulus*	sp.		Native bee	*Halictus*	sp.	9777	
8/2/2017	31	AUST_S	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	9780	
8/2/2017	31	AUST_S	*Westringia*	sp.		Native bee	*Andrena*	sp.	9781	
8/2/2017	31	AUST_S	*Westringia*	sp.		Honey bee	*Apis*	*melifera*	9782	
8/2/2017	31	AUST_S	*Westringia*	sp.		Native bee	*Agapostemon*	sp.	9784	
8/2/2017	31	AUST_S	*Westringia*	sp.		Native bee	*Anthidium*	sp.	9785	
8/2/2017	31	AUST_S	*Parkinsonia*	sp.		Native bee	*Megachile*	sp.	9786	
8/2/2017	31	AUST_S	*Parkinsonia*	sp.		Native bee	*Xylocopa*	sp.	9787	
8/2/2017	31	AUST_S	*Craspedia*	*globosa*		Native bee	*Halictus*	sp.	9788	
8/2/2017	31	AUST_S	*Ozothanmus*		'Sussex Silver'	Native bee	*Triepeolus*	sp.	9789	COLLECTED
8/2/2017	31	AUST_S	*Kickxia*	*elatine*		Native bee	*Anthidium*	sp.	9791	
8/2/2017	31	AUST_S	*Kickxia*	*elatine*		Native bee	*Halictus*	sp.	9792	
8/2/2017	31	AUST_S	*Kickxia*	*elatine*		Native bee	*Lasioglossum*	sp.	9795	
8/2/2017	31	AUST_S	*Ozothanmus*		'Sussex Silver'	Native bee	*Andrena*	sp.	9796	
8/2/2017	31	ERIC_S	*Eschscholzia*	*californica*		Native bee	*Melissodes*	sp.	9799	
8/2/2017	31	ERIC_S	*Kickxia*	*elatine*		Native bee	*Halictus*	sp.	9802	
8/2/2017	31	GATE	*Grindelia*	*camporum*		Native bee	*Halictus*	sp.	9804	
8/2/2017	31	GATE	*Grindelia*	*camporum*		Native bee	*Andrena*	sp.	9805	
8/2/2017	31	GATE	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	9806	
8/2/2017	31	GATE	*Perideridia*	*kelloggii*		Native bee	*Hylaeus*	sp.	9808	
8/2/2017	31	GATE	*Perideridia*	*kelloggii*		Native bee	*Halictus*	sp.	9809	
8/2/2017	31	GATE	*Grindelia*	*camporum*		Native bee	*Melissodes*	sp.	9810	
8/2/2017	31	GATE	*Grindelia*	*camporum*		Native bee	*Svasta*	sp.	9814	
8/2/2017	31	GATE	*Asclepias*	sp.		Native bee	*Lasioglossum*	sp.	9818	
8/2/2017	31	GATE	*Asclepias*	sp.		Native bee	*Halictus*	sp.	9822	
8/2/2017	31	GATE	*Aster*	sp.		Native bee	*Andrena*	sp.	9823	
8/2/2017	31	GATE	*Apocynum*	*cannabinum*		Native bee	*Megachile*	sp.	9826	
8/2/2017	31	GATE	*Rosa*	*californica*		Honey bee	*Apis*	*melifera*	9827	
8/2/2017	31	GATE	*Convolvulus*	sp.		Native bee	*Agapostemon*	sp.	9828	
8/2/2017	31	GATE	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	9830	

8/2/2017	31	A_ST	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	9831	
8/2/2017	31	A_ST	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	9834	
8/2/2017	31	A_ST	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	9835	
8/2/2017	31	REDW	*Heliotropium*	*curassavicum*		Native bee	*Andrena*	sp.	9836	
8/2/2017	31	REDW	*Heliotropium*	*curassavicum*		Native bee	*Megachile*	sp.	9837	
8/2/2017	31	REDW	*Heliotropium*	*curassavicum*		Native bee	*Lasioglossum*	sp.	9839	
8/2/2017	31	MWB	*Aster*	sp.		Native bee	*Halictus*	sp.	9842	
8/2/2017	31	MWB	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	9843	
8/2/2017	31	MWB	*Eschscholzia*	*californica*		Native bee	*Hylaeus*	sp.	9844	
8/2/2017	31	MWB	*Rosa*	*californica*		Native bee	*Halictus*	sp.	9845	
8/2/2017	31	MWB	*Salvia*	sp.		Native bee	*Anthophora*	sp.	9846	
8/2/2017	31	MWB	*Salvia*	sp.		Native bee	*Anthidium*	sp.	9849	
8/2/2017	31	MWB	*Solidago*	sp.		Native bee	*Melissodes*	sp.	9852	
8/2/2017	31	MWB	*Solidago*	sp.		Native bee	*Halictus*	sp.	9858	
8/2/2017	31	MWB	*Salvia*	*spathacea*		Native bee	*Lasioglossum*	sp.	9863	
8/2/2017	31	MWB	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	9864	
8/2/2017	31	MWB	*Eriogonum*	sp.		Native bee	*Hylaeus*	sp.	9865	
8/2/2017	31	MWB	*Eriogonum*	sp.		Native bee	*Megachile*	sp.	9870	
8/2/2017	31	MWB	*Eriogonum*	sp.		Native bee	*Melissodes*	sp.	9873	
8/2/2017	31	MWB	*Eriogonum*	sp.		Native bee	*Anthidiellum*	sp.	9875	
8/2/2017	31	MWB	*Eriogonum*	sp.		Native bee	*Svastra*	sp.	9881	
8/2/2017	31	MWB	*Solidago*	sp.		Native bee	*Andrena*	sp.	9883	
8/2/2017	31	MWB	*Mimulus*	sp.		Native bee	*Lasioglossum*	sp.	9884	
8/2/2017	31	MWB	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	9890	
8/2/2017	31	MWB	*Corethrogyne*	sp.		Native bee	*Halictus*	sp.	9891	
8/2/2017	31	MWB	*Trichostema*	sp.		Native bee	*Hylaeus*	sp.	9893	
8/2/2017	31	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Andrena*	sp.	9898	
8/2/2017	31	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Halictus*	sp.	9899	
8/2/2017	31	MWB	*Grindelia*	*camporum*		Native bee	*Halictus*	sp.	9900	
8/2/2017	31	MWB	*Grindelia*	*camporum*		Native bee	*Andrena*	sp.	9901	
8/2/2017	31	MWB	*Salvia*	sp.		Native bee	*Halictus*	sp.	9904	
8/2/2017	31	MWB	*Dendromecon*	sp.		Native bee	*Halictus*	sp.	9906	
8/2/2017	31	MWB	*Heliotropium*	*curassavicum*		Native bee	*Lasioglossum*	sp.	9914	
8/2/2017	31	MWB	*Heliotropium*	*curassavicum*		Native bee	*Halictus*	sp.	9915	
8/2/2017	31	MWB	*Heliotropium*	*curassavicum*		Native bee	*Agapostemon*	sp.	9917	
8/2/2017	31	MWB	*Heliotropium*	*curassavicum*		Native bee	*Hoplitis*	sp.	9918	
8/2/2017	31	MWB	*Heliotropium*	*curassavicum*		Native bee	*Andrena*	sp.	9920	
8/2/2017	31	MWB	*Aster*	sp.		Native bee	*Andrena*	sp.	9926	
8/2/2017	31	MWB	*Acmispon*	*americanus*		Native bee	*Anthidiellum*	sp.	9927	
8/2/2017	31	MWB	*Acmispon*	*americanus*		Native bee	*Hoplitis*	sp.	9928	
8/2/2017	31	MWB	*Solidago*	sp.		Native bee	*Megachile*	sp.	9942	
8/2/2017	31	MWB	*Epilobium*	sp.		Native bee	*Lasioglossum*	sp.	9943	
8/2/2017	31	FOOT	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	9944	
8/2/2017	31	FOOT	*Eriogonum*	sp.		Native bee	*Xylocopa*	sp.	9946	
8/2/2017	31	ENTR	*Salvia*	sp.		Native bee	*Ashmeadiella*	sp.	9948	COLLECTED
8/2/2017	31	ENTR	*Perovskia*	*atriplicifolia*		Native bee	*Melissodes*	sp.	9950	
8/2/2017	31	ENTR	*Perovskia*	*atriplicifolia*		Native bee	*Megachile*	sp.	9952	
8/2/2017	31	ENTR	*Perovskia*	*atriplicifolia*		Honey bee	*Apis*	*melifera*	9953	
8/2/2017	31	ENTR	*Perovskia*	*atriplicifolia*		Native bee	*Triepeolus*	sp.	9954	
8/2/2017	31	ENTR	*Perovskia*	*atriplicifolia*		Native bee	*Anthidiellum*	sp.	9955	
8/2/2017	31	SWUS	*Salvia*	sp.		Native bee	*Halictus*	sp.	9956	
8/2/2017	31	SWUS	*Leucophyllum*	sp.		Native bee	*Melissodes*	sp.	9957	
8/2/2017	31	SWUS	*Ehretia*	*anacua*		Honey bee	*Apis*	*melifera*	9960	
8/2/2017	31	SWUS	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	9962	
8/2/2017	31	SWUS	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	9965	
8/2/2017	31	SWUS	*Leucophyllum*	sp.		Native bee	*Halictus*	sp.	9968	
8/2/2017	31	SWUS	*Salvia*	sp.		Native bee	*Anthidium*	sp.	9970	
8/2/2017	31	SWUS	*Chitalpa*	sp.		Honey bee	*Apis*	*melifera*	9976	
8/2/2017	31	SWUS	*Leucophyllum*	sp.		Honey bee	*Apis*	*melifera*	9974	
8/2/2017	31	SWUS	*Leucophyllum*	sp.		Native bee	*Hylaeus*	sp.	9981	
8/2/2017	31	SWUS	*Yucca*	sp.		Honey bee	*Apis*	*melifera*	9982	
8/2/2017	31	SWUS	*Chilopsis*	sp.		Native bee	*Megachile*	sp.	9983	
8/2/2017	31	SWUS	*Isomeris*	sp.		Native bee	*Hoplitis*	sp.	9986	
8/2/2017	31	CONI	*Eriogonum*	sp.		Native bee	*Megachile*	sp.	9987	
8/2/2017	31	CONI	*Eriogonum*	sp.		Native bee	*Anthidiellum*	sp.	9988	
8/2/2017	31	CONI	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	9991	
8/2/2017	31	CONI	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	9992	
8/2/2017	31	CONI	*Mentha*	sp.		Native bee	*Halictus*	sp.	9994	
8/2/2017	31	CONI	*Mentha*	sp.		Honey bee	*Apis*	*melifera*	9995	
8/2/2017	31	CONI	*Mentha*	sp.		Native bee	*Melissodes*	sp.	9997	
8/2/2017	31	CONI	*Mentha*	sp.		Native bee	*Megachile*	sp.	9998	
8/2/2017	31	CONI	*Mentha*	sp.		Native bee	*Triepeolus*	sp.	9999	
8/2/2017	31	CONI	*Limonium*	*otolepis*		Native bee	*Halictus*	sp.	10002	
8/2/2017	31	CONI	*Limonium*	*otolepis*		Native bee	*Andrena*	sp.	10004	
8/2/2017	31	REDB	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp	10006	
8/2/2017	31	REDB	*Portulaca*	*oleracea*		Native bee	*Halictus*	sp.	10007	
8/2/2017	31	REDB	*Eriogonum*	sp.		Native bee	*Lasioglossum*	sp.	10010	
8/2/2017	31	DESE	*Chilopsis*	sp.		Native bee	*Halictus*	sp.	10011	
8/2/2017	31	DESE	*Larrea*	sp.		Native bee	*Megachile*	sp.	10013	
8/2/2017	31	DESE	*Baileya*	sp.		Native bee	*Anthidium*	sp.	10015	COLLECTED

8/2/2017	31	DESE	*Baileya*	sp.		Native bee	*Halictus*	sp.	10016	
8/2/2017	31	DESE	*Encelia*	sp.		Native bee	*Anthidium*	sp.	10019	
8/2/2017	31	DESE	*Encelia*	sp.		Native bee	*Halictus*	sp.	10020	
8/2/2017	31	DESE	*Baileya*	*multiradiata*		Native bee	*Megachile*	sp.	10023	
8/2/2017	31	DESE	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	10024	
8/2/2017	31	DESE	*Encelia*	sp.		Native bee	*Andrena*	sp.	10025	
8/2/2017	31	DESE	*Sphaeralcea*	sp.		Native bee	*Lasioglossum*	sp.	10027	
8/2/2017	31	DESE	*Sphaeralcea*	sp.		Native bee	*Halictus*	sp.	10028	
8/2/2017	31	MRAK	*Aptenia*		'Red Apple'	Honey bee	*Apis*	*melifera*	10029	
8/2/2017	31	MRAK	*Salvia*		'Blauhugel'	Honey bee	*Apis*	*melifera*	10031	
8/2/2017	31	MRAK	*Salvia*		'Blauhugel'	Native bee	*Megachile*	sp.	10032	
8/2/2017	31	MRAK	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	10034	
8/2/2017	31	MRAK	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	10042	COLLECTED
8/2/2017	31	MRAK	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	10046	
8/2/2017	31	MRAK	*Campanula*	sp.		Native bee	*Halictus*	sp.	10049	
8/2/2017	31	MRAK	*Mentha*	sp.		Honey bee	*Apis*	*melifera*	10051	
8/2/2017	31	MRAK	*Mentha*	sp.		Native bee	*Halictus*	sp.	10053	
8/2/2017	31	MRAK	*Mentha*	sp.		Native bee	*Andrena*	sp.	10054	
8/2/2017	31	MRAK	*Mentha*	sp.		Native bee	*Megachile*	sp.	10055	
8/2/2017	31	MRAK	*Scabiosa*	sp.		Native bee	*Melissodes*	sp.	10058	
8/2/2017	31	MRAK	*Scabiosa*	sp.		Native bee	*Halictus*	sp.	10059	
8/2/2017	31	MRAK	*Scabiosa*	sp.		Native bee	*Lasioglossum*	sp.	10060	
8/2/2017	31	MRAK	*Scabiosa*	sp.		Native bee	*Andrena*	sp.	10062	
8/11/2017	32	AUST_N	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	10063	
8/11/2017	32	AUST_N	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	10064	
8/11/2017	32	AUST_S	*Convolvulus*	sp.		Native bee	*Halictus*	sp.	10065	
8/11/2017	32	AUST_S	*Correa*	sp.		Honey bee	*Apis*	*melifera*	10067	
8/11/2017	32	AUST_S	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	10069	
8/11/2017	32	AUST_S	*Kickxia*	*elatine*		Honey bee	*Apis*	*melifera*	10070	
8/11/2017	32	AUST_S	*Westringia*	sp.		Native bee	*Andrena*	sp.	10074	
8/11/2017	32	AUST_S	*Westringia*	sp.		Native bee	*Agapostemon*	sp.	10075	
8/11/2017	32	AUST_S	*Parkinsonia*	sp.		Native bee	*Xylocopa*	sp.	10076	
8/11/2017	32	AUST_S	*Kickxia*	*elatine*		Native bee	*Anthidium*	sp.	10077	
8/11/2017	32	AUST_S	*Kickxia*	*elatine*		Native bee	*Anthidiellum*	sp.	10078	
8/11/2017	32	AUST_S	*Kickxia*	*elatine*		Native bee	*Megachile*	sp.	10079	
8/11/2017	32	GATE	*Rosa*	*californica*		Native bee	*Lasioglossum*	sp.	10083	
8/11/2017	32	GATE	*Grindelia*	sp.		Native bee	*Andrena*	sp.	10085	
8/11/2017	32	GATE	*Grindelia*	sp.		Native bee	*Halictus*	sp.	10086	
8/11/2017	32	GATE	*Eschscholzia*	californica		Native bee	*Halictus*	sp.	10087	
8/11/2017	32	GATE	*Grindelia*	sp.		Native bee	*Svastra*	sp.	10088	
8/11/2017	32	GATE	*Aster*	sp.		Native bee	*Svastra*	sp.	10092	
8/11/2017	32	GATE	*Aster*	sp.		Native bee	*Halictus*	sp.	10093	
8/11/2017	32	GATE	*Aster*	sp.		Native bee	*Andrena*	sp.	10095	
8/11/2017	32	GATE	*Madia*	sp.		Native bee	*Halictus*	sp.	10097	
8/11/2017	32	GATE	*Madia*	sp.		Native bee	*Agapostemon*	sp.	10098	
8/11/2017	32	GATE	*Apocynum*	*cannabinum*		Native bee	*Lasioglossum*	sp.	10099	
8/11/2017	32	GATE	*Apocynum*	*cannabinum*		Native bee	*Coelioxys*	sp.	10101	COLLECTED
8/11/2017	32	GATE	*Apocynum*	*cannabinum*		Native bee	*Megachile*	sp.	10102	
8/11/2017	32	A_ST	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	10104	
8/11/2017	32	A_ST	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	10107	
8/11/2017	32	REDW	*Heliotropium*	*curassavicum*		Native bee	*Andrena*	sp.	10112	
8/11/2017	32	REDW	*Heliotropium*	*curassavicum*		Native bee	*Halictus*	sp.	10113	
8/11/2017	32	MWB	*Convolvulus*	sp.		Native bee	*Halictus*	sp.	10114	
8/11/2017	32	MWB	*Aster*	sp.		Native bee	*Halictus*	sp.	10116	
8/11/2017	32	MWB	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	10117	
8/11/2017	32	MWB	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	10118	
8/11/2017	32	MWB	*Solidago*	sp.		Native bee	*Halictus*	sp.	10120	
8/11/2017	32	MWB	*Solidago*	sp.		Native bee	*Andrena*	sp.	10121	
8/11/2017	32	MWB	*Solidago*	sp.		Native bee	*Melissodes*	sp.	10126	COLLECTED
8/11/2017	32	MWB	*Salvia*	sp.		Native bee	*Lasioglossum*	sp.	10127	
8/11/2017	32	MWB	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	10132	
8/11/2017	32	MWB	*Eriogonum*	sp.		Native bee	*Anthidiellum*	sp.	10136	
8/11/2017	32	MWB	*Eriogonum*	sp.		Native bee	*Agapostemon*	sp.	10137	
8/11/2017	32	MWB	*Eriogonum*	sp.		Native bee	*Coelioxys*	sp.	10139	
8/11/2017	32	MWB	*Eriogonum*	sp.		Native bee	*Megachile*	sp.	10141	
8/11/2017	32	MWB	*Eriogonum*	sp.		Native bee	*Hylaeus*	sp.	10142	
8/11/2017	32	MWB	*Eriogonum*	sp.		Native bee	*Melissodes*	sp.	10143	
8/11/2017	32	MWB	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	10144	
8/11/2017	32	MWB	*Aquilegia*	sp.		Native bee	*Lasioglossum*	sp.	10156	
8/11/2017	32	MWB	*Aster*	sp.		Native bee	*Andrena*	sp.	10158	
8/11/2017	32	MWB	*Achillea*	sp.		Native bee	*Lasioglossum*	sp.	10160	
8/11/2017	32	MWB	*Eriogonum*	sp.		Native bee	*Lasioglossum*	sp.	10162	
8/11/2017	32	MWB	*Grindelia*	*camporum*		Native bee	*Halictus*	sp.	10165	
8/11/2017	32	MWB	*Heliotropium*	*curassavicum*		Native bee	*Lasioglossum*	sp.	10166	
8/11/2017	32	MWB	*Heliotropium*	*curassavicum*		Native bee	*Halictus*	sp.	10167	
8/11/2017	32	MWB	*Heliotropium*	*curassavicum*		Native bee	*Andrena*	sp.	10171	
8/11/2017	32	MWB	*Acmispon*	*americanus*		Native bee	*Anthidium*	sp.	10173	
8/11/2017	32	MWB	*Acmispon*	*americanus*		Native bee	*Hoplitis*	sp.	10174	
8/11/2017	32	MWB	*Acmispon*	*americanus*		Native bee	*Anthidiellum*	sp.	10177	
8/11/2017	32	MWB	*Monarda*	sp.		Native bee	*Halictus*	sp.	10178	

8/11/2017	32	FOOT	*Epilobium*	sp.	Native bee	*Lasioglossum*	sp.	10179
8/11/2017	32	FOOT	*Epilobium*	*canum*	Native bee	*Halictus*	sp.	10183
8/11/2017	32	FOOT	*Epilobium*	*canum*	Native bee	*Lasioglossum*	sp.	10184
8/11/2017	32	FOOT	*Epilobium*	*canum*	Honey bee	*Apis*	*melifera*	10185
8/11/2017	32	FOOT	*Epilobium*	*canum*	Native bee	*Halictus*	sp.	10186
8/11/2017	32	FOOT	*Epilobium*	*canum*	Native bee	*Megachile*	sp.	10187
8/11/2017	32	ENTR	*Salvia*	sp.	Native bee	*Lasioglossum*	sp.	10188
8/11/2017	32	ENTR	*Sonchus*	sp.	Native bee	*Halictus*	sp.	10189
8/11/2017	32	ENTR	*Perovskia*	*atriplicifolia*	Native bee	*Anthidiellum*	sp.	10191
8/11/2017	32	ENTR	*Perovskia*	*atriplicifolia*	Honey bee	*Apis*	*melifera*	10192
8/11/2017	32	ENTR	*Perovskia*	*atriplicifolia*	Native bee	*Agapostemon*	sp.	10193
8/11/2017	32	ENTR	*Perovskia*	*atriplicifolia*	Native bee	*Anthidium*	sp.	10196
8/11/2017	32	ENTR	*Perovskia*	*atriplicifolia*	Native bee	*Megachile*	sp.	10197
8/11/2017	32	ACAC	*Acacia*	sp.	Native bee	*Halictus*	sp.	10200
8/11/2017	32	CHIL	*Alstroemeria*	sp.	Native bee	*Halictus*	sp.	10202
8/11/2017	32	LODG	*Chitalpa*	sp.	Honey bee	*Apis*	*melifera*	10203
8/11/2017	32	LODG	*Chitalpa*	sp.	Native bee	*Xylocopa*	sp.	10205
8/11/2017	32	LODG	*Lagerstroemia*	sp.	Native bee	*Halictus*	sp.	10208
8/11/2017	32	LODG	*Trifolium*	sp.	Honey bee	*Apis*	*melifera*	10210
8/11/2017	32	LODG	*Trifolium*	sp.	Native bee	*Halictus*	sp.	10211
8/11/2017	32	BOAT	*Origanum*	sp.	Native bee	*Halictus*	sp.	10214
8/11/2017	32	BOAT	*Origanum*	sp.	Honey bee	*Apis*	*melifera*	10215
8/11/2017	32	BOAT	*Bulbine*	sp.	Native bee	*Andrena*	sp.	10216
8/11/2017	32	BOAT	*Origanum*	sp.	Native bee	*Lasioglossum*	sp.	10217
8/11/2017	32	BOAT	*Foeniculum*	sp.	Honey bee	*Apis*	*melifera*	10218
8/11/2017	32	BOAT	*Foeniculum*	sp.	Native bee	*Halictus*	sp.	10219
8/11/2017	32	BOAT	*Teucrium*	*x lucidrys*	Honey bee	*Apis*	*melifera*	10221
8/11/2017	32	COMM	*Rosmarinus*	sp.	Native bee	*Halictus*	sp.	10222
8/11/2017	32	COMM	*Rosmarinus*	sp.	Native bee	*Lasioglossum*	sp.	10223
8/11/2017	32	COMM	*Brassica*	sp.	Native bee	*Lasioglossum*	sp.	10224
8/11/2017	32	ARGE	*Vernonia*	*nudiflora*	Honey bee	*Apis*	*melifera*	10226
8/11/2017	32	ARGE	*Vernonia*	*nudiflora*	Native bee	*Halictus*	sp.	10228
8/11/2017	32	ARGE	*Vernonia*	*nudiflora*	Native bee	*Andrena*	sp.	10229
8/11/2017	32	ARGE	*Vernonia*	*nudiflora*	Native bee	*Agapostemon*	sp.	10230
8/11/2017	32	SWUS	*Salvia*	sp.	Native bee	*Halictus*	sp.	10238
8/11/2017	32	SWUS	*Penstemon*	sp.	Native bee	*Halictus*	sp.	10237
8/11/2017	32	SWUS	*Tecoma*	sp.	Native bee	*Peponapis*	sp.	10242
8/11/2017	32	SWUS	*Gaillardia*	sp.	Native bee	*Halictus*	sp.	10243
8/11/2017	32	SWUS	*Gaillardia*	sp.	Native bee	*Agapostemon*	sp.	10247
8/11/2017	32	SWUS	*Leucophyllum*	sp.	Native bee	*Halictus*	sp.	10250
8/11/2017	32	SWUS	*Salvia*	sp.	Native bee	*Anthidium*	sp.	10251
8/11/2017	32	SWUS	*Chitalpa*	sp.	Honey bee	*Apis*	*melifera*	10252
8/11/2017	32	SWUS	*Chitalpa*	sp.	Native bee	*Halictus*	sp.	10253
8/11/2017	32	SWUS	*Yucca*	sp.	Honey bee	*Apis*	*melifera*	10254
8/11/2017	32	SWUS	*Chilopsis*	*linearis*	Native bee	*Halictus*	sp.	10257
8/11/2017	32	CONI	*Eriogonum*	sp.	Honey bee	*Apis*	*melifera*	10259
8/11/2017	32	CONI	*Eriogonum*	sp.	Native bee	*Hylaeus*	sp.	10261
8/11/2017	32	CONI	*Eriogonum*	sp.	Native bee	*Halictus*	sp.	10263
8/11/2017	32	CONI	*Eriogonum*	sp.	Native bee	*Megachile*	sp.	10264
8/11/2017	32	CONI	*Eriogonum*	sp.	Native bee	*Anthidiellum*	sp.	10265
8/11/2017	32	CONI	*Mentha*	sp.	Honey bee	*Apis*	*melifera*	10267
8/11/2017	32	CONI	*Mentha*	sp.	Native bee	*Halictus*	sp.	10271
8/11/2017	32	CONI	*Mentha*	sp.	Native bee	*Hylaeus*	sp.	10272
8/11/2017	32	CONI	*Mentha*	sp.	Native bee	*Andrena*	sp.	10273
8/11/2017	32	CONI	*Mentha*	sp.	Native bee	*Megachile*	sp.	10274
8/11/2017	32	CONI	*Nepeta*	sp.	Native bee	*Megachile*	sp.	10275
8/11/2017	32	CONI	*Convolvulus*	sp.	Native bee	*Agapostemon*	sp.	10279
8/11/2017	32	CONI	*Limonium*	*otolepis*	Native bee	*Halictus*	sp.	10281
8/11/2017	32	CONI	*Limonium*	*otolepis*	Native bee	*Megachile*	sp.	10282
8/11/2017	32	CONI	*Limonium*	*otolepis*	Native bee	*Andrena*	sp.	10283
8/11/2017	32	CONI	*Limonium*	sp.	Native bee	*Melissodes*	sp.	10285
8/11/2017	32	CONI	*Limonium*	sp.	Honey bee	*Apis*	*melifera*	10287
8/11/2017	32	REDB	*Eschscholzia*	*californica*	Native bee	*Halictus*	sp.	10289
8/11/2017	32	REDB	*Eriogonum*	sp.	Native bee	*Lasioglossum*	sp.	10290
8/11/2017	32	REDB	*Eriogonum*	sp.	Native bee	*Hoplitis*	sp.	10292
8/11/2017	32	DESE	*Tecoma*	sp.	Native bee	*Agapostemon*	sp.	10293
8/11/2017	32	DESE	*Tecoma*	sp.	Native bee	*Halictus*	sp.	10294
8/11/2017	32	DESE	*Baileya*	*multiradiata*	Native bee	*Halictus*	sp.	10295
8/11/2017	32	DESE	*Baileya*	*multiradiata*	Native bee	*Andrena*	sp.	10296
8/11/2017	32	DESE	*Baileya*	*multiradiata*	Native bee	*Megachile*	sp.	10297
8/11/2017	32	DESE	*Encelia*	sp.	Native bee	*Andrena*	sp.	10298
8/11/2017	32	DESE	*Eschscholzia*	*californica*	Native bee	*Halictus*	sp.	10299
8/11/2017	32	DESE	*Baileya*	*multiradiata*	Native bee	*Diadasia*	sp.	10301
8/11/2017	32	DESE	*Adenostoma*	sp.	Native bee	*Andrena*	sp.	10303
8/11/2017	32	DESE	*Encelia*	sp.	Native bee	*Diadasia*	sp.	10304
8/11/2017	32	DESE	*Encelia*	sp.	Native bee	*Melissodes*	sp.	10308
8/11/2017	32	DESE	*Chitalpa*	sp.	Honey bee	*Apis*	*melifera*	10309
8/11/2017	32	DESE	*Chilopsis*	*linearis*	Honey bee	*Apis*	*melifera*	10310
8/11/2017	32	DESE	*Chilopsis*	*linearis*	Native bee	*Megachile*	sp.	10311
8/11/2017	32	DESE	*Sphaeralcea*	sp.	Native bee	*Halictus*	sp.	10312

8/11/2017	32	DESE	*Sphaeralcea*	sp.		Native bee	*Lasioglossum*	sp.	10316
8/11/2017	32	MRAK	*Apentia*		'Red Apple'	Honey bee	*Apis*	*melifera*	10317
8/11/2017	32	MRAK	*Salvia*		'Blauhugel'	Honey bee	*Apis*	*melifera*	10321
8/11/2017	32	MRAK	*Salvia*		'Blauhugel'	Native bee	*Halictus*	sp.	10319
8/11/2017	32	MRAK	*Salvia*		'Blauhugel'	Native bee	*Andrena*	sp.	10320
8/11/2017	32	MRAK	*Salvia*		'Blauhugel'	Native bee	*Coelioxys*	sp.	10323
8/11/2017	32	MRAK	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	10327
8/11/2017	32	MRAK	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	10329
8/11/2017	32	MRAK	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	10332
8/11/2017	32	MRAK	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	10333
8/11/2017	32	MRAK	*Abelia*	sp.		Honey bee	*Apis*	*melifera*	10334
8/11/2017	32	MRAK	*Abelia*	sp.		Native bee	*Melissodes*	sp.	10335
8/11/2017	32	MRAK	*Abelia*	sp.		Native bee	*Xylocopa*	sp.	10337
8/11/2017	32	MRAK	*Mentha*	sp.		Honey bee	*Apis*	*melifera*	10338
8/11/2017	32	MRAK	*Mentha*	sp.		Native bee	*Halictus*	sp.	10339
8/11/2017	32	MRAK	*Mentha*	sp.		Native bee	*Megachile*	sp.	10341
8/11/2017	32	MRAK	*Mentha*	sp.		Native bee	*Andrena*	sp.	10345
8/11/2017	32	MRAK	*Scabiosa*	sp.		Native bee	*Andrena*	sp.	10348
8/11/2017	32	MRAK	*Scabiosa*	sp.		Native bee	*Melissodes*	sp.	10349
8/11/2017	32	MRAK	*Lagerstroemia*	sp.		Native bee	*Halictus*	sp.	10352
8/11/2017	32	GAZE	*Abelia*	sp.		Native bee	*Halictus*	sp.	10354
8/11/2017	32	GAZE	*Aloysia*	*citriodora*		Honey bee	*Apis*	*melifera*	10355
8/11/2017	32	GAZE	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	10357
8/11/2017	32	GAZE	*Gaura*	*lindheimeri*		Native bee	*Agapostemon*	sp.	10360
8/11/2017	32	GAZE	*Gaura*	*lindheimeri*		Native bee	*Megachile*	sp.	10358
8/11/2017	32	GAZE	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	10362
8/11/2017	32	GAZE	*Urginea*	*maritima*		Native bee	*Megachile*	sp.	10364
8/11/2017	32	GAZE	*Duranta*	*erecta*	'Alba'	Honey bee	*Apis*	*melifera*	10365
8/11/2017	32	STOR	*Erigeron*	*karvinskianus*		Native bee	*Lasioglossum*	sp.	10366
8/11/2017	32	STOR	*Salvia*	sp.		Native bee	*Anthidium*	sp.	10368
8/11/2017	32	STOR	*Stachys*	sp.		Native bee	*Anthidium*	sp.	10371
8/11/2017	32	STOR	*Stachys*	sp.		Native bee	*Halictus*	sp.	10375
8/11/2017	32	STOR	*Penstemon*	sp.		Native bee	*Lasioglossum*	sp.	10376
8/11/2017	32	STOR	*Ballota*	*pseudodictamnus*		Native bee	*Anthidium*	sp.	10381
8/11/2017	32	STOR	*Rosa*		'China Doll'	Honey bee	*Apis*	*melifera*	10383
8/11/2017	32	STOR	*Tulbaghia*	*violacea*	'John Rider'	Honey bee	*Apis*	*melifera*	10385
8/11/2017	32	STOR	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	10387
8/11/2017	32	STOR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	10388
8/11/2017	32	STOR	*Teucrium*	*hyrcanium*		Honey bee	*Apis*	*melifera*	10389
8/11/2017	32	STOR	*Scabiosa*	sp.		Honey bee	*Apis*	*melifera*	10390
8/11/2017	32	STOR	*Salvia*	sp.		Native bee	*Halictus*	sp.	10391
8/11/2017	32	STOR	*Limonium*	*platyphyllum*		Native bee	*Halictus*	sp.	10392
8/11/2017	32	STOR	*Tulbaghia*	simmleri		Native bee	*Andrena*	sp.	10393
8/11/2017	32	STOR	*Tulbaghia*	simmleri		Native bee	*Agapostemon*	sp.	10394
8/11/2017	32	STOR	*Delosperma*	*cooperi*		Native bee	*Halictus*	sp.	10395
8/11/2017	32	STOR	*Tulbaghia*	*simmleri*		Native bee	*Lasioglossum*	sp.	10396
8/11/2017	32	STOR	*Limonium*	cosyrense		Native bee	*Lasioglossum*	sp.	10397
8/11/2017	32	STOR	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	10399
8/11/2017	32	STOR	*Origanum*	sp.		Native bee	*Agapostemon*	sp.	10400
8/11/2017	32	STOR	*Limonium*	*platyphyllum*		Native bee	*Megachile*	sp.	10402
8/11/2017	32	STOR	*Scabiosa*	sp.		Native bee	*Halictus*	sp.	10403
8/11/2017	32	STOR	*Scabiosa*	sp.		Native bee	*Andrena*	sp.	10405
8/11/2017	32	STOR	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	10408
8/11/2017	32	STOR	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	10409
8/11/2017	32	STOR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	10410
8/11/2017	32	STOR	*Gaura*	*lindheimeri*		Native bee	*Halictus*	sp.	10411
8/11/2017	32	STOR	*Gaura*	*lindheimeri*		Native bee	*Megachile*	sp.	10413
8/11/2017	32	STOR	*Rosmarinus*	*officinalis*		Native bee	*Megachile*	sp.	10415
8/11/2017	32	STOR	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	10416
8/11/2017	32	STOR	*Rosmarinus*	*officinalis*		Native bee	*Andrena*	sp.	10418
8/11/2017	32	STOR	*Rosmarinus*	*officinalis*		Native bee	*Anthidiellum*	sp.	10417
8/11/2017	32	STOR	*Leonotis*	*ocymifolia*		Native bee	*Halictus*	sp.	10422
8/11/2017	32	STOR	*Buddleja*	sp.		Native bee	*Agapostemon*	sp.	10426
8/11/2017	32	STOR	*Oxalis*	sp.		Native bee	*Halictus*	sp.	10427
8/11/2017	32	STOR	*Buddleja*	sp.		Honey bee	*Apis*	*melifera*	10429
8/11/2017	32	STOR	*Rosa*	sp.		Native bee	*Hylaeus*	sp.	10430
8/11/2017	32	STOR	*Saponaria*	*x lempergii*		Native bee	*Halictus*	sp.	10431
8/11/2017	32	STOR	*Lagerstroemia*	sp.		Native bee	*Halictus*	sp.	10432
8/11/2017	32	STOR	*Lagerstroemia*	sp.		Native bee	*Lasioglossum*	sp.	10434
8/11/2017	32	STOR	*Chilopsis*	*linearis*		Honey bee	*Apis*	*melifera*	10435
8/11/2017	32	EASI	*Zepheranthus*	sp.		Native bee	*Lasioglossum*	sp.	10436
8/11/2017	32	EASI	*Agastache*	sp.		Native bee	*Anthidium*	sp.	10438
8/11/2017	32	EASI	*Aster*	sp.		Native bee	*Halictus*	sp.	10439
8/11/2017	32	EASI	*Aster*	sp.		Native bee	*Andrena*	sp.	10440
8/11/2017	32	EASI	*Lagerstroemia*	sp.		Native bee	*Halictus*	sp.	10441
8/11/2017	32	EASI	*Lagerstroemia*	sp.		Honey bee	*Apis*	*melifera*	10443
8/11/2017	32	EASI	*Bulbine*	sp.		Native bee	*Halictus*	sp.	10446
8/11/2017	32	EASI	*Calandrinia*	*grandiflora*		Native bee	*Halictus*	sp.	10447
8/11/2017	32	EASI	*Echinacea*	sp.		Honey bee	*Apis*	*melifera*	10448
8/11/2017	32	EASI	*Delosperma*	sp.		Native bee	*Lasioglossum*	sp.	10449

8/11/2017	32	EASI	Erigeron	karvinkianus		Native bee	Halictus	sp.	10451
8/11/2017	32	EASI	Erigeron		'Wayne Roderick'	Native bee	Lasioglossum	sp.	10453
8/11/2017	32	EASI	Bahiopsis	parishii		Native bee	Halictus	sp.	10454
8/11/2017	32	EASI	Hesperaloe	sp.		Native bee	Megachile	sp.	10455
8/11/2017	32	EASI	Solidago	sp.		Native bee	Halictus	sp.	10456
8/11/2017	32	EASI	Eriogonum	sp.		Native bee	Lasioglossum	sp.	10457
8/11/2017	32	EASI	Eriogonum	sp.		Native bee	Halictus	sp.	10458
8/11/2017	32	EASI	Origanum		'Betty Rollins '	Honey bee	Apis	melifera	10459
8/11/2017	32	EASI	Eriogonum	sp.		Native bee	Megachile	sp.	10460
8/11/2017	32	EASI	Eriogonum	sp.		Native bee	Andrena	sp.	10461
8/11/2017	32	EASI	Leucophyllum	sp.		Honey bee	Apis	melifera	10462
8/11/2017	32	EASI	Leucophyllum	sp.		Native bee	Hylaeus	sp.	10463
8/11/2017	32	EASI	Solidago	sp.		Native bee	Agapostemon	sp.	10464
8/11/2017	32	EASI	Sedum	sp.		Native bee	Megachile	sp.	10465
8/11/2017	32	EASI	Nepeta	sp.		Honey bee	Apis	melifera	10466
8/11/2017	32	EASI	Salvia	sp.		Native bee	Anthidium	sp.	10467
8/11/2017	32	EASI	Callistemon	sp.		Native bee	Andrena	sp.	10469
8/11/2017	32	EASI	Callistemon	sp.		Honey bee	Apis	melifera	10470
8/11/2017	32	EASI	Rosmarinus	sp.		Native bee	Halictus	sp.	10071
8/11/2017	32	EASI	Rosmarinus	sp.		Honey bee	Apis	melifera	10472
8/11/2017	32	EASI	Rosmarinus	sp.		Native bee	Agapostemon	sp.	10473
8/11/2017	32	EASI	Rosmarinus	sp.		Native bee	Andrena	sp.	10474
8/11/2017	32	EASI	Bulbine	sp.		Native bee	Megachile	sp.	10476
8/11/2017	32	EASI	Buddleja	sp.		Honey bee	Apis	melifera	10477
8/11/2017	32	EASI	Lavandula	sp.		Native bee	Anthophora	sp.	10479
8/11/2017	32	EASI	Lavandula	sp.		Honey bee	Apis	melifera	10478
8/11/2017	32	EASI	Rosa	sp.		Native bee	Halictus	sp.	10480
8/11/2017	32	MOUN	Trifolium	sp.		Native bee	Halictus	sp.	10483
8/11/2017	32	MOUN	Trifolium	sp.		Honey bee	Apis	melifera	10484
8/11/2017	32	SOAF	Plumbago	sp.		Honey bee	Apis	melifera	10486
8/11/2017	32	MEDI	Lavandula	sp.		Native bee	Megachile	sp.	10488
8/11/2017	32	MEDI	Rosmarinus	sp.		Honey bee	Apis	melifera	10489
8/11/2017	32	MEDI	Rosmarinus	sp.		Native bee	Andrena	sp.	10491
8/11/2017	32	MEDI	Rosmarinus	sp.		Native bee	Anthophora	sp.	10492
8/11/2017	32	MEDI	Rosmarinus	sp.		Native bee	Megachile	sp.	10494
8/11/2017	32	MEDI	Rosmarinus	sp.		Native bee	Xylocopa	sp.	10496
8/11/2017	32	MEDI	Perovskia	atriplicifolia		Honey bee	Apis	melifera	10498
8/11/2017	32	MEDI	Perovskia	atriplicifolia		Native bee	Lasioglossum	sp.	10499
8/11/2017	32	MEDI	Perovskia	atriplicifolia		Native bee	Megachile	sp.	10503
8/11/2017	32	MEDI	Origanum	sp.		Native bee	Agapostemon	sp.	10504
8/11/2017	32	MEDI	Convolvulus	sp.		Native bee	Halictus	sp.	10505
8/11/2017	32	MEDI	Convolvulus	sp.		Honey bee	Apis	melifera	10507
8/11/2017	32	MEDI	Convolvulus	sp.		Native bee	Agapostemon	sp.	10508
8/11/2017	32	MEDI	Salvia	sp.		Native bee	Halictus	sp.	10510
8/11/2017	32	MEDI	Salvia	sp.		Honey bee	Apis	melifera	10512
8/11/2017	32	MEDI	Myoporum	parvifolium		Native bee	Lasioglossum	sp.	10514
8/11/2017	32	MEDI	Veronica	sp.		Honey bee	Apis	melifera	10515
8/11/2017	32	MEDI	Vitex	sp.		Honey bee	Apis	melifera	10516
8/11/2017	32	MEDI	Vitex	sp.		Native bee	Anthidium	sp.	10517
8/11/2017	32	MEDI	Vitex	sp.		Native bee	Hylaeus	sp.	10518
8/11/2017	32	MEDI	Nerium	sp.		Native bee	Melissodes	sp.	10525
8/11/2017	32	MEDI	Myoporum	parvifolium		Honey bee	Apis	melifera	10526
8/11/2017	32	MEDI	Centaurea	solstitialis		Honey bee	Apis	melifera	10527
8/11/2017	32	MEDI	Centaurea	solstitialis		Native bee	Halictus	sp.	10528
8/11/2017	32	MEDI	Lagerstroemia	sp.		Honey bee	Apis	melifera	10530
8/11/2017	32	YOLO	Brassica	sp.		Native bee	Halictus	sp.	10531
8/11/2017	32	YOLO	Centaurea	solstitialis		Native bee	Andrena	sp.	10536
8/17/2017	33	GAZE	Aloysia	citriodora		Honey bee	Apis	melifera	10537
8/17/2017	33	GAZE	Vitex	sp.		Native bee	Megachile	sp.	10538
8/17/2017	33	GAZE	X Amaristetes	multiflora		Native bee	Halictus	sp.	10539
8/17/2017	33	GAZE	Hibiscus	sp.		Native bee	Xylocopa	sp.	10540
8/17/2017	33	GAZE	Amaryllis	sp.		Native bee	Xylocopa	sp.	10541
8/17/2017	33	GAZE	Rosa	sp.		Native bee	Halictus	sp.	10542
8/17/2017	33	GAZE	Lagerstroemia	sp.		Honey bee	Apis	melifera	10543
8/17/2017	33	GAZE	Verbena	sp.		Honey bee	Apis	melifera	10544
8/17/2017	33	GAZE	Urginea	maritima		Honey bee	Apis	melifera	10545
8/17/2017	33	GAZE	Urginea	maritima		Native bee	Megachile	sp.	10546
8/17/2017	33	GAZE	Duranta	erecta	'Alba'	Honey bee	Apis	melifera	10547
8/17/2017	33	STOR	Erigeron	karvinkianus		Native bee	Lasioglossum	sp.	10548
8/17/2017	33	STOR	Stachys	sp.		Native bee	Anthidium	sp.	10549
8/17/2017	33	STOR	Solidago	sp.		Native bee	Halictus	sp.	10574
8/17/2017	33	STOR	Rosa	sp.		Native bee	Halictus	sp.	10575
8/17/2017	33	STOR	Perovskia	sp.		Honey bee	Apis	melifera	10577
8/17/2017	33	STOR	Scabiosa	sp.		Honey bee	Apis	melifera	10578
8/17/2017	33	STOR	Thymus	capitatus		Honey bee	Apis	melifera	10579
8/17/2017	33	STOR	Salvia	sp.		Native bee	Halictus	sp.	10583
8/17/2017	33	STOR	Gaillardia	sp.		Native bee	Halictus	sp.	10584
8/17/2017	33	STOR	Rosmarinus	sp.		Native bee	Anthidiellum	sp.	10585
8/17/2017	33	STOR	Salvia	sp.		Native bee	Xylocopa	sp.	10586
8/17/2017	33	STOR	Salvia	sp.		Native bee	Lasioglossum	sp.	10587

8/17/2017	33	STOR	Oxalis	sp.		Native bee	Lasioglossum	sp.	10588	
8/17/2017	33	STOR	Teucrium	x lucidrys		Honey bee	Apis	melifera	10589	
8/17/2017	33	STOR	Salvia		'Blauhugel'	Honey bee	Apis	melifera	10591	
8/17/2017	33	STOR	Rosa	sp.		Honey bee	Apis	melifera	10592	
8/17/2017	33	STOR	Buddleja	sp.		Honey bee	Apis	melifera	10593	
8/17/2017	33	STOR	Origanum	laevigatum		Honey bee	Apis	melifera	10594	
8/17/2017	33	STOR	Rosa	sp.		Native bee	Agapostemon	sp.	10596	
8/17/2017	33	STOR	Nepeta	sp.		Honey bee	Apis	melifera	10597	
8/17/2017	33	STOR	Scabiosa	sp.		Native bee	Andrena	sp.	10598	
8/17/2017	33	STOR	Verbena	sp.		Honey bee	Apis	melifera	10599	
8/17/2017	33	STOR	Tulbaghia	sp.		Honey bee	Apis	melifera	10602	
8/17/2017	33	STOR	Delosperma	sp.		Native bee	Andrena	sp.	10604	
8/17/2017	33	STOR	Delosperma	sp.		Native bee	Halictus	sp.	10603	
8/17/2017	33	STOR	Limonium	sp.		Native bee	Halictus	sp.	10606	
8/17/2017	33	STOR	Penstemon	sp.		Native bee	Lasioglossum	sp.	10607	
8/17/2017	33	STOR	Scabiosa	sp.		Native bee	Lasioglossum	sp.	10610	
8/17/2017	33	STOR	Buddleja	sp.		Native bee	Halictus	sp.	10611	
8/17/2017	33	STOR	Buddleja	sp.		Native bee	Agapostemon	sp.	10612	
8/17/2017	33	STOR	Lagerstroemia	sp.		Native bee	Halictus	sp.	10617	
8/17/2017	33	STOR	Chilopsis	sp.		Native bee	Megachile	sp.	10619	
8/17/2017	33	STOR	Chilopsis	sp.		Native bee	Halictus	sp.	10620	
8/17/2017	33	STOR	Chilopsis	sp.		Honey bee	Apis	melifera	10621	
8/17/2017	33	STOR	Buddleja	sp.		Honey bee	Apis	melifera	10622	
8/17/2017	33	EASI	Aster	sp.		Native bee	Halictus	sp.	10624	
8/17/2017	33	EASI	Aster	sp.		Native bee	Andrena	sp.	10625	
8/17/2017	33	EASI	Echinacea	sp.		Native bee	Halictus	sp.	10626	
8/17/2017	33	EASI	Lagerstroemia	sp.		Honey bee	Apis	melifera	10627	
8/17/2017	33	EASI	Lagerstroemia	sp.		Native bee	Lasioglossum	sp.	10629	
8/17/2017	33	EASI	Lagerstroemia	sp.		Native bee	Halictus	sp.	10630	
8/17/2017	33	EASI	Calandrinia	grandiflora		Native bee	Halictus	sp.	10631	
8/17/2017	33	EASI	Bulbine	sp.		Honey bee	Apis	melifera	10632	
8/17/2017	33	EASI	Convolvulus	sp.		Native bee	Halictus	sp.	10635	
8/17/2017	33	EASI	Delosperma	sp.		Honey bee	Apis	melifera	10637	
8/17/2017	33	EASI	Delosperma	sp.		Native bee	Lasioglossum	sp.	10638	
8/17/2017	33	EASI	Delosperma	sp.		Native bee	Halictus	sp.	10640	
8/17/2017	33	EASI	Erigeron		'Wayne Roderick'	Native bee	Halictus	sp.	10644	
8/17/2017	33	EASI	Bahiopsis	parishii		Native bee	Halictus	sp.	10645	
8/17/2017	33	EASI	Bahiopsis	parishii		Native bee	Andrena	sp.	10646	
8/17/2017	33	EASI	Hesperaloe	parvifolia		Native bee	Halictus	sp.	10650	
8/17/2017	33	EASI	Bulbine	sp.		Native bee	Halictus	sp.	10653	
8/17/2017	33	EASI	Eriogonum	sp.		Native bee	Halictus	sp.	10656	
8/17/2017	33	EASI	Eriogonum	sp.		Native bee	Lasioglossum	sp.	10659	
8/17/2017	33	EASI	Eriogonum	sp.		Honey bee	Apis	melifera	10661	
8/17/2017	33	EASI	Origanum	sp.		Honey bee	Apis	melifera	10662	
8/17/2017	33	EASI	Solidago	sp.		Native bee	Halictus	sp.	10663	
8/17/2017	33	EASI	Solidago	sp.		Native bee	Andrena	sp.	10669	
8/17/2017	33	EASI	Eriogonum	sp.		Native bee	Megachile	sp.	10673	
8/17/2017	33	EASI	Bulbine	sp.		Native bee	Megachile	sp.	10671	
8/17/2017	33	EASI	Salvia	sp.		Native bee	Halictus	sp.	10672	
8/17/2017	33	EASI	Eriogonum	sp.		Native bee	Anthidiellum	sp.	10674	
8/17/2017	33	EASI	Bulbine	sp.		Native bee	Anthophora	sp.	10675	
8/17/2017	33	EASI	Sedum	sp.		Native bee	Megachile	sp.	10676	
8/17/2017	33	EASI	Lavandula	sp.		Native bee	Anthophora	sp.	10677	
8/17/2017	33	EASI	Salvia	sp.		Native bee	Anthidium	sp.	10680	
8/17/2017	33	EASI	Nepeta	sp.		Honey bee	Apis	melifera	10681	
8/17/2017	33	EASI	Rosa	sp.		Honey bee	Apis	melifera	10682	
8/17/2017	33	EASI	Callistemon	sp.		Honey bee	Apis	melifera	10683	
8/17/2017	33	EASI	Rosmarinus	sp.		Honey bee	Apis	melifera	10684	
8/17/2017	33	EASI	Rosmarinus	sp.		Native bee	Agapostemon	sp.	10686	
8/17/2017	33	EASI	Rosmarinus	sp.		Native bee	Halictus	sp.	10687	
8/17/2017	33	EASI	Buddleja	davidii		Honey bee	Apis	melifera	10688	
8/17/2017	33	EASI	Lavandula	sp.		Honey bee	Apis	melifera	10689	
8/17/2017	33	EASI	Rosmarinus	sp.		Native bee	Andrena	sp.	10690	
8/17/2017	33	EASI	Salvia	sp.		Native bee	Xylocopa	sp.	10692	
8/17/2017	33	SOAF	Euryops	pectinatus		Native bee	Andrena	sp.	10693	
8/17/2017	33	SOAF	Plumbago	sp.		Honey bee	Apis	melifera	10694	
8/17/2017	33	SOAF	Myoporum	parvifolium		Honey bee	Apis	melifera	10695	
8/17/2017	33	MEDI	Lavandula	sp.		Honey bee	Apis	melifera	10696	
8/17/2017	33	MEDI	Rosmarinus	sp.		Honey bee	Apis	melifera	10697	
8/17/2017	33	MEDI	Rosmarinus	sp.		Native bee	Megachile	sp.	10698	
8/17/2017	33	MEDI	Rosmarinus	sp.		Native bee	Andrena	sp.	10699	
8/17/2017	33	MEDI	Perovskia	sp.		Honey bee	Apis	melifera	10702	
8/17/2017	33	MEDI	Perovskia	sp.		Native bee	Anthophora	sp.	10703	COLLECTED
8/17/2017	33	MEDI	Perovskia	sp.		Native bee	Lasioglossum	sp.	10706	
8/17/2017	33	MEDI	Perovskia	sp.		Native bee	Megachile	sp.	10707	
8/17/2017	33	MEDI	Perovskia	sp.		Native bee	Halictus	sp.	10708	
8/17/2017	33	MEDI	Perovskia	sp.		Native bee	Svastra	sp.	10709	
8/17/2017	33	MEDI	Nepeta	sp.		Honey bee	Apis	melifera	10710	
8/17/2017	33	MEDI	Rosmarinus	sp.		Native bee	Halictus	sp.	10712	
8/17/2017	33	MEDI	Convolvulus	sp.		Native bee	Halictus	sp.	10714	

8/17/2017	33	MEDI	*Convolvulus*	sp.	Native bee	*Agapostemon*	sp.	10718	
8/17/2017	33	MEDI	*Sternbergia*	*lutea*	Native bee	*Agapostemon*	sp.	10721	
8/17/2017	33	MEDI	*Lotus*	sp.	Native bee	*Halictus*	sp.	10720	
8/17/2017	33	MEDI	*Lotus*	sp.	Native bee	*Anthidiellum*	sp.	10722	
8/17/2017	33	MEDI	*Vitex*	sp.	Honey bee	*Apis*	*melifera*	10723	
8/17/2017	33	MEDI	*Vitex*	sp.	Native bee	*Agapostemon*	sp.	10724	
8/17/2017	33	MEDI	*Vitex*	sp.	Native bee	*Megachile*	sp.	10727	COLLECTED
8/17/2017	33	MEDI	*Lavatera*	*maritima*	Native bee	*Agapostemon*	sp.	10728	
8/17/2017	33	MEDI	*Veronica*	sp.	Native bee	*Svastra*	sp.	10732	
8/17/2017	33	MEDI	*Veronica*	sp.	Honey bee	*Apis*	*melifera*	10733	
8/17/2017	33	MEDI	*Veronica*	sp.	Native bee	*Halictus*	sp.	10734	
8/17/2017	33	MEDI	*Veronica*	sp.	Native bee	*Agapostemon*	sp.	10735	
8/17/2017	33	SWUS	*Salvia*	sp.	Native bee	*Halictus*	sp.	10740	
8/17/2017	33	SWUS	*Gaillardia*	sp.	Native bee	*Halictus*	sp.	10741	
8/17/2017	33	SWUS	*Tecoma*	sp.	Native bee	*Andrena*	sp.	10742	
8/17/2017	33	SWUS	*Salvia*	sp.	Native bee	*Anthidium*	sp.	10743	
8/17/2017	33	SWUS	*Leucophyllum*	sp.	Native bee	*Halictus*	sp.	10746	
8/17/2017	33	SWUS	*Salvia*	sp.	Native bee	*Xylocopa*	sp.	10752	
8/17/2017	33	SWUS	*Salvia*	sp.	Native bee	*Lasioglossum*	sp.	10746	
8/17/2017	33	SWUS	*Leucophyllum*	sp.	Native bee	*Halictus*	sp.	10750	
8/17/2017	33	SWUS	*Chitalpa*	sp.	Native bee	*Halictus*	sp.	10757	
8/17/2017	33	SWUS	*Yucca*	sp.	Honey bee	*Apis*	*melifera*	10758	
8/17/2017	33	SWUS	*Yucca*	sp.	Native bee	*Megachile*	sp.	10759	
8/17/2017	33	SWUS	*Chilopsis*	*linearis*	Honey bee	*Apis*	*melifera*	10760	
8/17/2017	33	SWUS	*Chilopsis*	*linearis*	Native bee	*Halictus*	sp.	10761	
8/17/2017	33	SWUS	*Salvia*	sp.	Honey bee	*Apis*	*melifera*	10762	
8/17/2017	33	CONI	*Eriogonum*	sp.	Honey bee	*Apis*	*melifera*	10764	
8/17/2017	33	CONI	*Eriogonum*	sp.	Native bee	*Andrena*	sp.	10766	
8/17/2017	33	CONI	*Eriogonum*	sp.	Native bee	*Anthidiellum*	sp.	10767	
8/17/2017	33	CONI	*Eriogonum*	sp.	Native bee	*Megachile*	sp.	10774	
8/17/2017	33	CONI	*Eriogonum*	sp.	Native bee	*Halictus*	sp.	10775	
8/17/2017	33	CONI	*Ruellia*	sp.	Native bee	*Halictus*	sp.	10777	
8/17/2017	33	CONI	*Ruellia*	sp.	Honey bee	*Apis*	*melifera*	10781	
8/17/2017	33	CONI	*Mentha*	*spicata*	Honey bee	*Apis*	*melifera*	10784	
8/17/2017	33	CONI	*Mentha*	*spicata*	Native bee	*Halictus*	sp.	10783	
8/17/2017	33	CONI	*Limonium*	sp.	Honey bee	*Apis*	*melifera*	10786	
8/17/2017	33	CONI	*Limonium*	sp.	Honey bee	*Apis*	*melifera*	10788	
8/17/2017	33	ENTR	*Nepeta*	sp.	Native bee	*Hylaeus*	sp.	10789	
8/17/2017	33	ENTR	*Perovskia*	*atriplicifolia*	Native bee	*Svastra*	sp.	10790	
8/17/2017	33	ENTR	*Perovskia*	*atriplicifolia*	Honey bee	*Apis*	*melifera*	10791	
8/17/2017	33	ENTR	*Perovskia*	*atriplicifolia*	Native bee	*Anthidiellum*	sp.	10793	
8/17/2017	33	ENTR	*Dendromecon*	sp.	Native bee	*Halictus*	sp.	10794	
8/17/2017	33	CHIL	*Alstroemeria*	sp.	Native bee	*Hylaeus*	sp.	10795	
8/17/2017	33	CHIL	*Alstroemeria*	sp.	Native bee	*Agapostemon*	sp.	10796	
8/17/2017	33	LODG	*Chitalpa*	sp.	Honey bee	*Apis*	*melifera*	10798	
8/17/2017	33	LODG	*Veronica*	sp.	Honey bee	*Apis*	*melifera*	10799	
8/17/2017	33	LODG	*Veronica*	sp.	Native bee	*Agapostemon*	sp.	10800	
8/17/2017	33	LODG	*Veronica*	sp.	Native bee	*Halictus*	sp.	10801	
8/17/2017	33	LODG	*Hemerocallis*	sp.	Native bee	*Halictus*	sp.	10802	
8/17/2017	33	LODG	*Chitalpa*	sp.	Native bee	*Megachile*	sp.	10803	
8/17/2017	33	LODG	*Veronica*	sp.	Native bee	*Lasioglossum*	sp.	10804	
8/17/2017	33	LODG	*Syzygium*	*aromaticum*	Native bee	*Halictus*	sp.	10805	
8/17/2017	33	BOAT	*Origanum*	sp.	Honey bee	*Apis*	*melifera*	10807	
8/17/2017	33	BOAT	*Solidago*	sp.	Native bee	*Andrena*	sp.	10810	
8/17/2017	33	BOAT	*Foeniculum*	sp.	Honey bee	*Apis*	*melifera*	10814	
8/17/2017	33	BOAT	*Foeniculum*	sp.	Native bee	*Halictus*	sp.	10815	
8/17/2017	33	BOAT	*Origanum*	sp.	Native bee	*Megachile*	sp.	10816	
8/17/2017	33	COMM	*Rosmarinus*	*officinalis*	Native bee	*Megachile*	sp.	10817	
8/17/2017	33	COMM	*Rosmarinus*	*officinalis*	Native bee	*Halictus*	sp.	10821	
8/17/2017	33	COTT	*Myoporum*	*parvifolium*	Honey bee	*Apis*	*melifera*	10822	
8/17/2017	33	COTT	*Myoporum*	*parvifolium*	Native bee	*Halictus*	sp.	10823	
8/17/2017	33	COTT	*Lagerstroemia*	sp.	Native bee	*Halictus*	sp.	10825	
8/17/2017	33	COTT	*Centaurea*	*solstitialis*	Native bee	*Megachile*	sp.	10827	
8/17/2017	33	COTT	*Centaurea*	*solstitialis*	Native bee	*Halictus*	sp.	10830	
8/17/2017	33	COTT	*Centaurea*	*solstitialis*	Native bee	*Andrena*	sp.	10833	
8/17/2017	33	COTT	*Centaurea*	*solstitialis*	Honey bee	*Apis*	*melifera*	10836	
8/17/2017	33	COTT	*Lagerstroemia*	sp.	Honey bee	*Apis*	*melifera*	10837	
8/17/2017	33	YOLO	*Centaurea*	*solstitialis*	Native bee	*Andrena*	sp.	10836	
8/17/2017	33	MOUN	*Trifolium*	sp.	Honey bee	*Apis*	*melifera*	10839	
8/17/2017	33	MOUN	*Trifolium*	sp.	Native bee	*Halictus*	sp.	10840	
8/17/2017	33	AUST_N	*Callistemon*	sp.	Honey bee	*Apis*	*melifera*	10841	
8/17/2017	33	AUST_N	*Grevillea*	sp.	Native bee	*Megachile*	sp.	10842	
8/17/2017	33	AUST_N	*Grevillea*	sp.	Honey bee	*Apis*	*melifera*	10843	
8/17/2017	33	AUST_N	*Eucalyptus*	sp.	Honey bee	*Apis*	*melifera*	10844	
8/17/2017	33	AUST_N	*Eucalyptus*	sp.	Native bee	*Megachile*	sp.	10845	
8/17/2017	33	AUST_S	*Eremophila*	*maculata*	Honey bee	*Apis*	*melifera*	10848	
8/17/2017	33	AUST_S	*Grevillea*	sp.	Honey bee	*Apis*	*melifera*	10849	
8/17/2017	33	AUST_S	*Grevillea*	sp.	Native bee	*Anthidium*	sp.	10850	
8/17/2017	33	AUST_S	*Westringia*	sp.	Native bee	*Andrena*	sp.	10851	
8/17/2017	33	AUST_S	*Westringia*	sp.	Native bee	*Megachile*	sp.	10852	

8/17/2017	33	AUST_S	*Westringia*	sp.		Native bee	*Melissodes*	sp.	10853
8/17/2017	33	AUST_S	*Westringia*	sp.		Honey bee	*Apis*	*melifera*	10854
8/17/2017	33	AUST_S	*Westringia*	sp.		Native bee	*Agapostemon*	sp.	10855
8/17/2017	33	AUST_S	*Parkinsonia*	sp.		Native bee	*Megachile*	sp.	10862
8/17/2017	33	AUST_S	*Parkinsonia*	sp.		Honey bee	*Apis*	*melifera*	10861
8/17/2017	33	AUST_S	*Craspedia*	*globosa*		Native bee	*Andrena*	sp.	10865
8/17/2017	33	AUST_S	*Craspedia*	*globosa*		Native bee	*Triepeolus*	sp.	10866
8/17/2017	33	AUST_S	*Calostemma*	*purpureum*		Native bee	*Halictus*	sp.	10870
8/17/2017	33	AUST_S	*Ozothanmus*		'Sussex Silver'	Native bee	*Halictus*	sp.	10872
8/17/2017	33	AUST_S	*Kickxia*	*elatine*		Native bee	*Anthidiellum*	sp.	10882
8/17/2017	33	AUST_S	*Kickxia*	*elatine*		Native bee	*Lasioglossum*	sp.	10883
8/17/2017	33	AUST_S	*Kickxia*	*elatine*		Native bee	*Anthidium*	sp.	10884
8/17/2017	33	GATE	*Rosa*	sp.		Native bee	*Halictus*	sp.	10887
8/17/2017	33	GATE	*Grindelia*	*camporum*		Native bee	*Halictus*	sp.	10888
8/17/2017	33	GATE	*Grindelia*	*camporum*		Native bee	*Andrena*	sp.	10889
8/17/2017	33	GATE	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	10890
8/17/2017	33	GATE	*Convolvulus*	sp.		Native bee	*Halictus*	sp.	10893
8/17/2017	33	GATE	*Grindelia*	*camporum*		Native bee	*Melissodes*	sp.	10900
8/17/2017	33	GATE	*Grindelia*	*camporum*		Native bee	*Svastra*	sp.	10904
8/17/2017	33	GATE	*Aster*	sp.		Native bee	*Halictus*	sp.	10906
8/17/2017	33	GATE	*Aster*	sp.		Native bee	*Melissodes*	sp.	10907
8/17/2017	33	GATE	*Aster*	sp.		Native bee	*Andrena*	sp.	10909
8/17/2017	33	GATE	*Madia*	sp.		Native bee	*Andrena*	sp.	10912
8/17/2017	33	GATE	*Apocynum*	*cannabinum*		Honey bee	*Apis*	*melifera*	10915
8/17/2017	33	GATE	*Perideridia*	sp.		Native bee	*Halictus*	sp.	10919
8/17/2017	33	A_ST	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	10921
8/17/2017	33	REDW	*Heliotropium*	*curassavicum*		Native bee	*Lasioglossum*	sp.	10922
8/17/2017	33	REDW	*Heliotropium*	*curassavicum*		Honey bee	*Apis*	*melifera*	10923
8/17/2017	33	REDW	*Heliotropium*	*curassavicum*		Native bee	*Andrena*	sp.	10924
8/17/2017	33	MWB	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	10929
8/17/2017	33	MWB	*Salvia*	sp.		Native bee	*Anthidium*	sp.	10932
8/17/2017	33	MWB	*Datura*	sp.		Native bee	*Lasioglossum*	sp.	10936
8/17/2017	33	MWB	*Solidago*	sp.		Native bee	*Andrena*	sp.	10938
8/17/2017	33	MWB	*Solidago*	sp.		Native bee	*Halictus*	sp.	10939
8/17/2017	33	MWB	*Solidago*	sp.		Native bee	*Melissodes*	sp.	10942
8/17/2017	33	MWB	*Solidago*	sp.		Honey bee	*Apis*	*melifera*	10943
8/17/2017	33	MWB	*Eriogonum*	*fasciculatum*		Native bee	*Megachile*	sp.	10944
8/17/2017	33	MWB	*Eriogonum*	*fasciculatum*		Native bee	*Lasioglossum*	sp.	10945
8/17/2017	33	MWB	*Eriogonum*	*fasciculatum*		Honey bee	*Apis*	*melifera*	10946
8/17/2017	33	MWB	*Eriogonum*	*fasciculatum*		Native bee	*Anthidiellum*	sp.	10950
8/17/2017	33	MWB	*Eriogonum*	*fasciculatum*		Native bee	*Halictus*	sp.	10952
8/17/2017	33	MWB	*Aster*	sp.		Native bee	*Halictus*	sp.	10955
8/17/2017	33	MWB	*Aster*	sp.		Native bee	*Andrena*	sp.	10956
8/17/2017	33	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Andrena*	sp.	10957
8/17/2017	33	MWB	*Grindelia*	sp.		Native bee	*Halictus*	sp.	10958
8/17/2017	33	MWB	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	10959
8/17/2017	33	MWB	*Salvia*	sp.		Native bee	*Lasioglossum*	sp.	10961
8/17/2017	33	MWB	*Salvia*	sp.		Native bee	*Halictus*	sp.	10962
8/17/2017	33	MWB	*Heliotropium*	*curassavicum*		Native bee	*Halictus*	sp.	10963
8/17/2017	33	MWB	*Heliotropium*	*curassavicum*		Honey bee	*Apis*	*melifera*	10964
8/17/2017	33	MWB	*Heliotropium*	*curassavicum*		Native bee	*Agapostemon*	sp.	10965
8/17/2017	33	MWB	*Heliotropium*	*curassavicum*		Native bee	*Lasioglossum*	sp.	10967
8/17/2017	33	MWB	*Heliotropium*	*curassavicum*		Native bee	*Melissodes*	sp.	10969
8/17/2017	33	MWB	*Acmispon*	*americanus*		Native bee	*Anthidiellum*	sp.	10971
8/17/2017	33	MWB	*Acmispon*	*americanus*		Native bee	*Anthidium*	sp.	10972
8/17/2017	33	MWB	*Acmispon*	*americanus*		Native bee	*Hoplitis*	sp.	10974
8/17/2017	33	MWB	*Monarda*	sp.		Native bee	*Agapostemon*	sp.	10976
8/17/2017	33	FOOT	*Epilobium*	sp.		Native bee	*Halictus*	sp.	10978
8/17/2017	33	FOOT	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	10981
8/17/2017	33	REDB	*Eriogonum*	sp.		Native bee	*Lasioglossum*	sp.	10987
8/17/2017	33	REDB	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	10988
8/17/2017	33	REDB	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	10989
8/17/2017	33	DESE	*Chilopsis*	*linearis*		Honey bee	*Apis*	*melifera*	10990
8/17/2017	33	DESE	*Chilopsis*	*linearis*		Native bee	*Megachile*	sp.	10991
8/17/2017	33	DESE	*Tecoma*	sp.		Honey bee	*Apis*	*melifera*	10992
8/17/2017	33	DESE	*Baileya*	*multiradiata*		Native bee	*Halictus*	sp.	10993
8/17/2017	33	DESE	*Encelia*	sp.		Native bee	*Andrena*	sp.	10994
8/17/2017	33	DESE	*Baileya*	*multiradiata*		Native bee	*Anthidium*	sp.	10995
8/17/2017	33	DESE	*Baileya*	*multiradiata*		Native bee	*Diadasia*	sp.	10999
8/17/2017	33	DESE	*Encelia*	sp.		Native bee	*Diadasia*	sp.	11002
8/17/2017	33	DESE	*Chitalpa*	sp.		Honey bee	*Apis*	*melifera*	11004
8/17/2017	33	DESE	*Malva*	*maritima*		Native bee	*Halictus*	sp.	11005
8/17/2017	33	MRAK	*Apentia*		'Red Apple'	Honey bee	*Apis*	*melifera*	11006
8/17/2017	33	MRAK	*Clarkia*	sp.		Native bee	*Halictus*	sp.	11007
8/17/2017	33	MRAK	*Salvia*		'Blauhugel'	Honey bee	*Apis*	*melifera*	11008
8/17/2017	33	MRAK	*Salvia*		'Blauhugel'	Native bee	*Anthidium*	sp.	11009
8/17/2017	33	MRAK	*Salvia*		'Blauhugel'	Native bee	*Agapostemon*	sp.	11010
8/17/2017	33	MRAK	*Salvia*		'Blauhugel'	Native bee	*Andrena*	sp.	11011
8/17/2017	33	MRAK	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	11016
8/17/2017	33	MRAK	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	11017

8/17/2017	33	MRAK	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	11019	
8/17/2017	33	MRAK	*Gaillardia*	sp.		Native bee	*Svastra*	sp.	11022	
8/17/2017	33	MRAK	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	11023	
8/17/2017	33	MRAK	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	11029	
8/17/2017	33	MRAK	*Trifolium*	sp.		Native bee	*Halictus*	sp.	11030	
8/17/2017	33	MRAK	*Abelia*	sp.		Honey bee	*Apis*	*melifera*	11031	
8/17/2017	33	MRAK	*Abelia*	sp.		Native bee	*Xylocopa*	sp.	11032	
8/17/2017	33	MRAK	*Abelia*	sp.		Native bee	*Melissodes*	sp.	11033	
8/17/2017	33	MRAK	*Mentha*	sp.		Honey bee	*Apis*	*melifera*	11034	
8/17/2017	33	MRAK	*Mentha*	sp.		Native bee	*Andrena*	sp.	11035	
8/17/2017	33	MRAK	*Mentha*	sp.		Native bee	*Halictus*	sp.	11041	
8/17/2017	33	MRAK	*Scabiosa*	sp.		Native bee	*Andrena*	sp.	11038	
8/17/2017	33	MRAK	*Scabiosa*	sp.		Honey bee	*Apis*	*melifera*	11040	
8/17/2017	33	MRAK	*Scabiosa*	sp.		Native bee	*Svastra*	sp.	11049	
8/17/2017	33	MRAK	*Mentha*	sp.		Native bee	*Hylaeus*	sp.	11053	
8/23/2017	34	GAZE	*Abelia*	sp.		Native bee	*Halictus*	sp.	11061	
8/23/2017	34	GAZE	*Aloysia*	*citriodora*		Native bee	*Halictus*	sp.	11062	
8/23/2017	34	GAZE	*Aloysia*	*citriodora*		Native bee	*Megachile*	sp.	11064	
8/23/2017	34	GAZE	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	11067	
8/23/2017	34	GAZE	*Tulbaghia*	sp.		Honey bee	*Apis*	*melifera*	11068	
8/23/2017	34	GAZE	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	11069	
8/23/2017	34	GAZE	*Duranta*	*erecta*	Alba'	Honey bee	*Apis*	*melifera*	11070	
8/23/2017	34	STOR	*Erigeron*	*karvinskianus*		Native bee	*Lasioglossum*	sp.	11072	
8/23/2017	34	STOR	*Solidago*	sp.		Native bee	*Halictus*	sp.	11074	
8/23/2017	34	STOR	*Rosa*	sp.		Native bee	*Halictus*	sp.	11076	
8/23/2017	34	STOR	*Rosmarinus*	*officinalis*		Native bee	*Andrena*	sp.	11078	
8/23/2017	34	STOR	*Rosmarinus*	*officinalis*		Native bee	*Agapostemon*	sp.	11079	
8/23/2017	34	STOR	*Salvia*	sp.		Native bee	*Anthidium*	sp.	11083	COLLECTED
8/23/2017	34	STOR	*Solidago*	sp.		Honey bee	*Apis*	*melifera*	11088	
8/23/2017	34	STOR	*Stachys*	sp.		Native bee	*Halictus*	sp.	11089	
8/23/2017	34	STOR	*Stachys*	sp.		Native bee	*Anthidium*	sp.	11091	
8/23/2017	34	STOR	*Solidago*	sp.		Native bee	*Andrena*	sp.	11092	
8/23/2017	34	STOR	*Stachys*	sp.		Honey bee	*Apis*	*melifera*	11093	
8/23/2017	34	STOR	*Erythrina*	*crista galli*		Honey bee	*Apis*	*melifera*	11094	
8/23/2017	34	STOR	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	11095	
8/23/2017	34	STOR	*Epilobium*	sp.		Native bee	*Anthidiellum*	sp.	11098	
8/23/2017	34	STOR	*Leucophyllum*	sp.		Honey bee	*Apis*	*melifera*	11099	
8/23/2017	34	STOR	*Leucophyllum*	sp.		Native bee	*Halictus*	sp.	11101	
8/23/2017	34	STOR	*Leucophyllum*	sp.		Native bee	*Hylaeus*	sp.	11102	
8/23/2017	34	STOR	*Leucophyllum*	sp.		Native bee	*Andrena*	sp.	11105	
8/23/2017	34	STOR	X *Amaristetes*	*multiflora*		Native bee	*Peponapis*	sp.	11107	
8/23/2017	34	STOR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	11109	
8/23/2017	34	STOR	*Scabiosa*	sp.		Native bee	*Lasioglossum*	sp.	11112	
8/23/2017	34	STOR	*Perovskia*	sp.		Native bee	*Lasioglossum*	sp.	11113	
8/23/2017	34	STOR	*Scabiosa*	sp.		Honey bee	*Apis*	*melifera*	11114	
8/23/2017	34	STOR	*Thymus*	sp.		Honey bee	*Apis*	*melifera*	11115	
8/23/2017	34	STOR	*Salvia*	sp.		Native bee	*Lasioglossum*	sp.	11117	
8/23/2017	34	STOR	*Origanum*	*vulgare*		Honey bee	*Apis*	*melifera*	11119	
8/23/2017	34	STOR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	11120	
8/23/2017	34	STOR	*Gaillardia*	*x grandiflora*		Native bee	*Halictus*	sp.	11121	
8/23/2017	34	STOR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	11122	
8/23/2017	34	STOR	*Lagerstroemia*	sp.		Honey bee	*Apis*	*melifera*	11123	
8/23/2017	34	STOR	*Lagerstroemia*	sp.		Native bee	*Andrena*	sp.	11124	
8/23/2017	34	STOR	*Lagerstroemia*	sp.		Native bee	*Halictus*	sp.	11125	
8/23/2017	34	STOR	*Teucrium*	sp.		Native bee	*Anthidium*	sp.	11128	
8/23/2017	34	STOR	*Buddleja*	sp.		Honey bee	*Apis*	*melifera*	11130	
8/23/2017	34	STOR	*Teucrium*	*hyrcanium*		Honey bee	*Apis*	*melifera*	11131	
8/23/2017	34	STOR	*Rosa*	sp.		Native bee	*Hylaeus*	sp.	11134	
8/23/2017	34	STOR	*Scabiosa*	sp.		Native bee	*Andrena*	sp.	11135	
8/23/2017	34	STOR	*Tulbaghia*	sp.		Native bee	*Andrena*	sp.	11136	
8/23/2017	34	STOR	*Tulbaghia*	sp.		Native bee	*Hylaeus*	sp.	11137	
8/23/2017	34	STOR	*Tulbaghia*	sp.		Native bee	*Halictus*	sp.	11139	
8/23/2017	34	STOR	*Delosperma*	sp.		Native bee	*Halictus*	sp.	11140	
8/23/2017	34	STOR	*Tulbaghia*	sp.		Native bee	*Agapostemon*	sp.	11141	
8/23/2017	34	STOR	*Limonium*	sp.		Native bee	*Halictus*	sp.	11142	
8/23/2017	34	STOR	*Tulbaghia*	sp.		Honey bee	*Apis*	*melifera*	11143	
8/23/2017	34	STOR	*Gaura*	*lindheimeri*		Native bee	*Halictus*	sp.	11144	
8/23/2017	34	STOR	*Papaver*	sp.		Native bee	*Halictus*	sp.	11145	
8/23/2017	34	STOR	*Erigeron*	*karvinskianus*		Native bee	*Andrena*	sp.	11147	
8/23/2017	34	STOR	*Erigeron*	*karvinskianus*		Native bee	*Halictus*	sp.	11148	
8/23/2017	34	EASI	*Agastache*	sp.		Native bee	*Anthidium*	sp.	11150	
8/23/2017	34	EASI	*Aster*	*bigelovii*		Native bee	*Lasioglossum*	sp.	11151	
8/23/2017	34	EASI	*Aster*	*bigelovii*		Native bee	*Halictus*	sp.	11153	
8/23/2017	34	EASI	*Echinacea*	sp.		Honey bee	*Apis*	*melifera*	11154	
8/23/2017	34	EASI	*Bulbine*	*frutescens*		Honey bee	*Apis*	*melifera*	11155	
8/23/2017	34	EASI	*Calandrinia*	*grandiflora*		Native bee	*Halictus*	sp.	11158	
8/23/2017	34	EASI	*Aster*	*bigelovii*		Honey bee	*Apis*	*melifera*	11159	
8/23/2017	34	EASI	*Erigeron*		'Wayne Roderick'	Native bee	*Andrena*	sp.	11160	
8/23/2017	34	EASI	*Delosperma*	sp.		Native bee	*Halictus*	sp.	11161	
8/23/2017	34	EASI	*Erigeron*		'Wayne Roderick'	Native bee	*Halictus*	sp.	11162	

8/23/2017	34	EASI	*Saponaria*		'Max Frei'	Honey bee	*Apis*	*melifera*	11163	
8/23/2017	34	EASI	*Bahiopsis*	*parishii*		Native bee	*Andrena*	sp.	11164	
8/23/2017	34	EASI	*Bulbine*	*frutescens*		Native bee	*Halictus*	sp.	11165	
8/23/2017	34	EASI	*Bulbine*	*frutescens*		Native bee	*Megachile*	sp.	11166	
8/23/2017	34	EASI	*Eriogonum*	sp.		Native bee	*Lasioglossum*	sp.	11173	COLLECTED
8/23/2017	34	EASI	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	11177	
8/23/2017	34	EASI	*Leucophyllum*	sp.		Native bee	*Megachile*	sp.	11179	
8/23/2017	34	EASI	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	11181	
8/23/2017	34	EASI	*Solidago*	sp.		Native bee	*Halictus*	sp.	11182	
8/23/2017	34	EASI	*Sedum*	sp.		Honey bee	*Apis*	*melifera*	11184	
8/23/2017	34	EASI	*Sedum*	sp.		Native bee	*Megachile*	sp.	11185	
8/23/2017	34	EASI	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	11186	
8/23/2017	34	EASI	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	11187	
8/23/2017	34	EASI	*Salvia*	sp.		Native bee	*Anthidium*	sp.	11190	
8/23/2017	34	EASI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	11192	
8/23/2017	34	EASI	*Rosmarinus*	*officinalis*		Native bee	*Megachile*	sp.	11193	
8/23/2017	34	EASI	*Rosmarinus*	*officinalis*		Native bee	*Andrena*	sp.	11197	
8/23/2017	34	EASI	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	11198	
8/23/2017	34	MOUN	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	11199	
8/23/2017	34	MOUN	*Trifolium*	sp.		Native bee	*Andrena*	sp.	11200	
8/23/2017	34	MOUN	*Trifolium*	sp.		Native bee	*Halictus*	sp.	11203	
8/23/2017	34	SOAF	*Euryops*	*pectinatus*		Native bee	*Andrena*	sp.	11204	
8/23/2017	34	SOAF	*Plumbago*	sp.		Honey bee	*Apis*	*melifera*	11205	
8/23/2017	34	SOAF	*Bulbine*	*frutescens*		Honey bee	*Apis*	*melifera*	11206	
8/23/2017	34	SOAF	*Bulbine*	*frutescens*		Native bee	*Megachile*	sp.	11207	
8/23/2017	34	MEDI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	11208	
8/23/2017	34	MEDI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	11210	
8/23/2017	34	MEDI	*Rosmarinus*	*officinalis*		Native bee	*Megachile*	sp.	11214	
8/23/2017	34	MEDI	*Rosmarinus*	*officinalis*		Native bee	*Andrena*	sp.	11215	
8/23/2017	34	MEDI	*Perovskia*	sp.		Native bee	*Megachile*	sp.	11216	
8/23/2017	34	MEDI	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	11218	
8/23/2017	34	MEDI	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	11219	
8/23/2017	34	ARGE	*Veronica*	sp.		Native bee	*Lasioglossum*	sp.	11220	
8/23/2017	34	ARGE	*Veronica*	sp.		Honey bee	*Apis*	*melifera*	11222	
8/23/2017	34	ARGE	*Veronica*	sp.		Native bee	*Melissodes*	sp.	11225	
8/23/2017	34	ARGE	*Veronica*	sp.		Native bee	*Anthophora*	sp.	11231	
8/23/2017	34	CHIL	*Alstroemeria*	sp.		Native bee	*Megachile*	sp.	11233	
8/23/2017	34	LODG	*Chitalpa*	sp.		Honey bee	*Apis*	*melifera*	11235	
8/23/2017	34	LODG	*Lagerstroemia*	sp.		Native bee	*Halictus*	sp.	11237	
8/23/2017	34	LODG	*Salvia*		'Blauhugel'	Honey bee	*Apis*	*melifera*	11239	
8/23/2017	34	LODG	*Buddleja*	*lindheimeri*		Native bee	*Halictus*	sp.	11240	
8/23/2017	34	LODG	*Trifolium*	sp.		Native bee	*Andrena*	sp.	11242	
8/23/2017	34	BOAT	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	11244	
8/23/2017	34	BOAT	*Solidago*	sp.		Native bee	*Halictus*	sp.	11245	
8/23/2017	34	BOAT	*Salvia*	sp.		Native bee	*Halictus*	sp.	11246	
8/23/2017	34	COMM	*Rosmarinus*	*officinalis*		Native bee	*Megachile*	sp.	11248	
8/23/2017	34	COMM	*Rosmarinus*	*officinalis*		Native bee	*Coelioxys*	sp.	11255	
8/23/2017	34	COTT	*Lagerstroemia*	sp.		Honey bee	*Apis*	*melifera*	11257	
8/23/2017	34	COTT	*Lagerstroemia*	sp.		Native bee	*Megachile*	sp.	11258	
8/23/2017	34	COTT	*Centaurea*	*solstitialis*		Honey bee	*Apis*	*melifera*	11260	
8/23/2017	34	COTT	*Centaurea*	*solstitialis*		Native bee	*Andrena*	sp.	11261	
8/23/2017	34	AUST_N	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	11262	
8/23/2017	34	AUST_N	*Grevillea*	sp.		Native bee	*Megachile*	sp.	11265	
8/23/2017	34	AUST_N	*Grevillea*	sp.		Native bee	*Anthophora*	sp.	11266	
8/23/2017	34	AUST_N	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	11270	
8/24/2017	35	AUST_N	*Eucalyptus*	sp.		Native bee	*Hylaeus*	sp.	11271	
8/23/2017	34	AUST_N	*Eucalyptus*	sp.		Native bee	*Andrena*	sp.	11272	
8/23/2017	34	AUST_S	*Convolvulus*	sp.		Native bee	*Halictus*	sp.	11273	
8/23/2017	34	AUST_S	*Eremophila*	*maculata*		Honey bee	*Apis*	*melifera*	11274	
8/23/2017	34	AUST_S	*Convolvulus*	sp.		Honey bee	*Apis*	*melifera*	11275	
8/23/2017	34	AUST_S	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	11281	
8/23/2017	34	AUST_S	*Westringia*	sp.		Honey bee	*Apis*	*melifera*	11282	
8/23/2017	34	AUST_S	*Westringia*	sp.		Native bee	*Megachile*	sp.	11283	
8/23/2017	34	AUST_S	*Correa*	sp.		Honey bee	*Apis*	*melifera*	11285	
8/23/2017	34	AUST_S	*Parkinsonia*	sp.		Native bee	*Megachile*	sp.	11286	
8/23/2017	34	AUST_S	*Parkinsonia*	sp.		Native bee	*Xylocopa*	sp.	11287	
8/23/2017	34	AUST_S	*Calostemma*	*purpureum*		Native bee	*Lasioglossum*	sp.	11288	
8/23/2017	34	AUST_S	*Calostemma*	*purpureum*		Native bee	*Halictus*	sp.	11289	
8/23/2017	34	ERIC_S	*Kickxia*	*elatine*		Native bee	*Andrena*	sp.	11291	
8/23/2017	34	ERIC_S	*Kickxia*	*elatine*		Native bee	*Halictus*	sp.	11292	
8/23/2017	34	ERIC_S	*Kickxia*	*elatine*		Honey bee	*Apis*	*melifera*	11295	
8/23/2017	34	ERIC_S	*Datura*	sp.		Native bee	*Agapostemon*	sp.	11298	
8/23/2017	34	ERIC_S	*Datura*	sp.		Native bee	*Xylocopa*	sp.	11300	
8/23/2017	34	GATE	*Aster*	sp.		Native bee	*Andrena*	sp.	11301	
8/23/2017	34	GATE	*Aster*	sp.		Native bee	*Lasioglossum*	sp.	11302	
8/23/2017	34	GATE	*Grindelia*	sp.		Native bee	*Halictus*	sp.	11303	
8/23/2017	34	GATE	*Aster*	sp.		Native bee	*Agapostemon*	sp.	11304	
8/23/2017	34	GATE	*Grindelia*	sp.		Native bee	*Andrena*	sp.	11307	
8/23/2017	34	GATE	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	11308	
8/23/2017	34	GATE	*Grindelia*	sp.		Native bee	*Xylocopa*	sp.	11310	

8/23/2017	34	GATE	*Grindelia*	sp.		Native bee	*Svastra*	sp.	11312
8/23/2017	34	GATE	*Aster*	sp.		Native bee	*Halictus*	sp.	11313
8/23/2017	34	GATE	*Madia*	sp.		Native bee	*Agapostemon*	sp.	11314
8/23/2017	34	GATE	*Madia*	sp.		Native bee	*Halictus*	sp.	11315
8/23/2017	34	GATE	*Apocynum*	*cannabinum*		Native bee	*Lasioglossum*	sp.	11317
8/23/2017	34	A_ST	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	11321
8/23/2017	34	A_ST	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	11322
8/23/2017	34	REDW	*Heliotropium*	*curassavicum*		Honey bee	*Apis*	*melifera*	11323
8/23/2017	34	REDW	*Heliotropium*	*curassavicum*		Native bee	*Lasioglossum*	sp.	11325
8/23/2017	34	REDW	*Heliotropium*	*curassavicum*		Native bee	*Megachile*	sp.	11326
8/23/2017	34	REDW	*Heliotropium*	*curassavicum*		Native bee	*Andrena*	sp.	11327
8/23/2017	34	MWB	*Eriogonum*	sp.		Native bee	*Lasioglossum*	sp.	11329
8/23/2017	34	MWB	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	11332
8/23/2017	34	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Halictus*	sp.	11333
8/23/2017	34	MWB	*Rosa*	sp.		Native bee	*Halictus*	sp.	11334
8/23/2017	34	MWB	*Asclepias*	sp.		Native bee	*Halictus*	sp.	11335
8/23/2017	34	MWB	*Salvia*	sp.		Native bee	*Anthidium*	sp.	11336
8/23/2017	34	MWB	*Solidago*	sp.		Native bee	*Halictus*	sp.	11339
8/23/2017	34	MWB	*Solidago*	sp.		Native bee	*Andrena*	sp.	11340
8/23/2017	34	MWB	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	11343
8/23/2017	34	MWB	*Eriogonum*	sp.		Native bee	*Megachile*	sp.	11344
8/23/2017	34	MWB	*Eriogonum*	sp.		Native bee	*Agapostemon*	sp.	11345
8/23/2017	34	MWB	*Eriogonum*	sp.		Native bee	*Andrena*	sp.	11347
8/23/2017	34	MWB	*Eriogonum*	sp.		Native bee	*Anthidiellum*	sp.	11348
8/23/2017	34	MWB	*Epilobium*	sp.		Native bee	*Lasioglossum*	sp.	11351
8/23/2017	34	MWB	*Aster*	sp.		Native bee	*Halictus*	sp.	11353
8/23/2017	34	MWB	*Aster*	sp.		Native bee	*Andrena*	sp.	11354
8/23/2017	34	MWB	*Achillea*	sp.		Native bee	*Halictus*	sp.	11355
8/23/2017	34	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Andrena*	sp.	11356
8/23/2017	34	MWB	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	11357
8/23/2017	34	MWB	*Verbena*		'De La Mina'	Native bee	*Lasioglossum*	sp.	11358
8/23/2017	34	MWB	*Grindelia*			Native bee	*Halictus*	sp.	11359
8/23/2017	34	MWB	*Heliotropium*	*curassavicum*		Native bee	*Lasioglossum*	sp.	11360
8/23/2017	34	MWB	*Heliotropium*	*curassavicum*		Native bee	*Halictus*	sp.	11365
8/23/2017	34	MWB	*Heliotropium*	*curassavicum*		Native bee	*Melissodes*	sp.	11366
8/23/2017	34	MWB	*Acmispon*	*americanus*		Native bee	*Anthidiellum*	sp.	11367
8/23/2017	34	MWB	*Aster*	sp.		Native bee	*Agapostemon*	sp.	11369
8/23/2017	34	MWB	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	11370
8/23/2017	34	FOOT	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	11371
8/23/2017	34	FOOT	*Eriogonum*	sp.		Native bee	*Agapostemon*	sp.	11372
8/23/2017	34	FOOT	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	11373
8/23/2017	34	FOOT	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	11374
8/23/2017	34	FOOT	*Lippia*	*nodiflora*		Honey bee	*Apis*	*melifera*	11375
8/23/2017	34	FOOT	*Encelia*	sp.		Native bee	*Andrena*	sp.	11376
8/23/2017	34	ENTR	*Salvia*	sp.		Native bee	*Halictus*	sp.	11380
8/23/2017	34	ENTR	*Salvia*	sp.		Native bee	*Anthidium*	sp.	11381
8/23/2017	34	ENTR	*Salvia*	sp.		Native bee	*Megachile*	sp.	11382
8/23/2017	34	ENTR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	11383
8/23/2017	34	ENTR	*Perovskia*	sp.		Native bee	*Melissodes*	sp.	11384
8/23/2017	34	ENTR	*Perovskia*	sp.		Native bee	*Agapostemon*	sp.	11387
8/23/2017	34	ENTR	*Perovskia*	sp.		Native bee	*Megachile*	sp.	11391
8/23/2017	34	ENTR	*Perovskia*	sp.		Native bee	*Anthidiellum*	sp.	11392
8/23/2017	34	SWUS	*Leucophyllum*	sp.		Honey bee	*Apis*	*melifera*	11393
8/23/2017	34	SWUS	*Leucophyllum*	sp.		Native bee	*Halictus*	sp.	11394
8/23/2017	34	SWUS	*Salvia*	sp.		Native bee	*Anthidiellum*	sp.	11397
8/23/2017	34	SWUS	*Leucophyllum*	sp.		Native bee	*Anthidium*	sp.	11399
8/23/2017	34	SWUS	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	11401
8/23/2017	34	SWUS	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	11402
8/23/2017	34	SWUS	*Salvia*	sp.		Native bee	*Halictus*	sp.	11404
8/23/2017	34	SWUS	*Tecoma*	sp.		Honey bee	*Apis*	*melifera*	11405
8/23/2017	34	SWUS	*Tecoma*	sp.		Native bee	*Megachile*	sp.	11406
8/23/2017	34	SWUS	*Tecoma*	sp.		Native bee	*Halictus*	sp.	11408
8/23/2017	34	SWUS	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	11409
8/23/2017	34	SWUS	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	11411
8/23/2017	34	SWUS	*Cercis*	*occidentalis*		Native bee	*Halictus*	sp.	11413
8/23/2017	34	SWUS	*Chitalpa*	sp.		Native bee	*Halictus*	sp.	11414
8/23/2017	34	SWUS	*Nolina*	sp.		Native bee	*Megachile*	sp.	11415
8/23/2017	34	SWUS	*Isomeris*	sp.		Native bee	*Halictus*	sp.	11416
8/23/2017	34	SWUS	*Isomeris*	sp.		Native bee	*Hoplitis*	sp.	11417
8/23/2017	34	CONI	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	11418
8/23/2017	34	CONI	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	11419
8/23/2017	34	CONI	*Eriogonum*	sp.		Native bee	*Anthidiellum*	sp.	11420
8/23/2017	34	CONI	*Ruellia*	sp.		Native bee	*Agapostemon*	sp.	11425
8/23/2017	34	CONI	*Mentha*	sp.		Native bee	*Melissodes*	sp.	11426
8/23/2017	34	CONI	*Mentha*	sp.		Native bee	*Halictus*	sp.	11427
8/23/2017	34	CONI	*Limonium*	sp.		Native bee	*Halictus*	sp.	11431
8/23/2017	34	CONI	*Limonium*	sp.		Native bee	*Andrena*	sp.	11432
8/23/2017	34	CONI	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	11434
8/23/2017	34	REDB	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	11435
8/23/2017	34	REDB	*Eriogonum*	sp.		Native bee	*Coelioxys*	sp.	11437

8/23/2017	34	REDB	Eriogonum	sp.		Native bee	Lasioglossum	sp.	11443	
8/23/2017	34	REDB	Eriogonum	sp.		Native bee	Megachile	sp.	11444	
8/23/2017	34	REDB	Eriogonum	sp.		Native bee	Agapostemon	sp.	11445	
8/23/2017	34	REDB	Cercis	occidentalis		Honey bee	Apis	melifera	11446	
8/23/2017	34	DESE	Chilopsis	linearis		Native bee	Megachile	sp.	11447	
8/23/2017	34	DESE	Chilopsis	linearis		Honey bee	Apis	melifera	11448	
8/23/2017	34	DESE	Larrea	sp.		Native bee	Megachile	sp.	11449	
8/23/2017	34	DESE	Larrea	sp.		Honey bee	Apis	melifera	11450	
8/23/2017	34	DESE	Baileya	multiradiata		Native bee	Halictus	sp.	11451	
8/23/2017	34	DESE	Baileya	multiradiata		Native bee	Andrena	sp.	11452	
8/23/2017	34	DESE	Encelia	sp.		Native bee	Andrena	sp.	11453	
8/23/2017	34	DESE	Encelia	sp.		Native bee	Diadasia	sp.	11457	
8/23/2017	34	DESE	Baileya	multiradiata		Native bee	Diadasia	sp.	11462	
8/23/2017	34	DESE	Baileya	multiradiata		Native bee	Anthidium	sp.	11460	
8/23/2017	34	DESE	Baileya	multiradiata		Native bee	Melissodes	sp.	11464	COLLECTED
8/23/2017	34	DESE	Sphaeralcea	sp.		Native bee	Halictus	sp.	11469	
8/23/2017	34	DESE	Sphaeralcea	sp.		Native bee	Andrena	sp.	11470	
8/23/2017	34	MRAK	Apentia		'Red Apple'	Honey bee	Apis	melifera	11471	
8/23/2017	34	MRAK	Salvia		'Blauhugel'	Native bee	Andrena	sp.	11472	
8/23/2017	34	MRAK	Salvia		'Blauhugel'	Honey bee	Apis	melifera	11473	
8/23/2017	34	MRAK	Gaillardia	sp.		Native bee	Halictus	sp.	11475	
8/23/2017	34	MRAK	Gaillardia	sp.		Native bee	Melissodes	sp.	11480	
8/23/2017	34	MRAK	Gaillardia	sp.		Honey bee	Apis	melifera	11481	
8/23/2017	34	MRAK	Trifolium	sp.		Honey bee	Apis	melifera	11482	
8/23/2017	34	MRAK	Trifolium	sp.		Native bee	Coelioxys	sp.	11484	
8/23/2017	34	MRAK	Abelia	sp.		Native bee	Xylocopa	sp.	11486	
8/23/2017	34	MRAK	Abelia	sp.		Honey bee	Apis	melifera	11487	
8/23/2017	34	MRAK	Abelia	sp.		Native bee	Melissodes	sp.	11488	
8/23/2017	34	MRAK	Mentha	sp.		Native bee	Halictus	sp.	11490	
8/23/2017	34	MRAK	Mentha	sp.		Honey bee	Apis	melifera	11491	
8/23/2017	34	MRAK	Mentha	sp.		Native bee	Andrena	sp.	11493	
8/23/2017	34	MRAK	Scabiosa	sp.		Native bee	Melissodes	sp.	11495	
8/23/2017	34	MRAK	Scabiosa	sp.		Native bee	Anthophora	sp.	11496	
8/30/2017	35	GAZE	Vitex	sp.		Native bee	Megachile	sp.	11499	
8/30/2017	35	GAZE	Origanum	sp.		Bumble bee	Bombus	sp.	11501	
8/30/2017	35	GAZE	Origanum	sp.		Honey bee	Apis	melifera	11502	
8/30/2017	35	GAZE	X Amaristetes	multiflora		Honey bee	Apis	melifera	11503	
8/30/2017	35	GAZE	Tulbaghia	sp.		Native bee	Lasioglossum	sp.	11505	
8/30/2017	35	GAZE	Tulbaghia	sp.		Honey bee	Apis	melifera	11507	
8/30/2017	35	GAZE	Tulbaghia	sp.		Native bee	Hylaeus	sp.	11508	
8/30/2017	35	GAZE	Salvia	x sylvestris	'Schneehigel'	Honey bee	Apis	melifera	11509	
8/30/2017	35	GAZE	Salvia	x sylvestris	'Schneehigel'	Native bee	Hylaeus	sp.	11511	
8/30/2017	35	GAZE	Duranta	erecta	'Alba'	Honey bee	Apis	melifera	11512	
8/30/2017	35	GAZE	Duranta	erecta	'Alba'	Native bee	Megachile	sp.	11513	
8/30/2017	35	GAZE	X Amaristetes	multiflora		Native bee	Xylocopa	sp.	11515	
8/30/2017	35	STOR	Solidago	sp.		Honey bee	Apis	melifera	11516	
8/30/2017	35	STOR	Scabiosa	sp.		Native bee	Halictus	sp.	11517	
8/30/2017	35	STOR	Stachys	sp.		Native bee	Anthidium	sp.	11518	
8/30/2017	35	STOR	Salvia	sp.		Native bee	Anthidium	sp.	11520	
8/30/2017	35	STOR	Rosmarinus	officinalis		Native bee	Andrena	sp.	11521	
8/30/2017	35	STOR	Rosmarinus	officinalis		Native bee	Agapostemon	sp.	11522	
8/30/2017	35	STOR	Rosmarinus	officinalis		Native bee	Halictus	sp.	11524	
8/30/2017	35	STOR	Penstemon	sp.		Honey bee	Apis	melifera	11525	
8/30/2017	35	STOR	Erythrina	cristi galli		Honey bee	Apis	melifera	11526	
8/30/2017	35	STOR	Epilobium	sp.		Native bee	Xylocopa	sp.	11527	
8/30/2017	35	STOR	Epilobium	sp.		Native bee	Lasioglossum	sp.	11528	
8/30/2017	35	STOR	Scabiosa	sp.		Native bee	Lasioglossum	sp.	11531	
8/30/2017	35	STOR	Salvia	sp.		Native bee	Xylocopa	sp.	11532	
8/30/2017	35	STOR	Bulbine	sp.		Native bee	Halictus	sp.	11533	
8/30/2017	35	STOR	Perovskia	sp.		Honey bee	Apis	melifera	11534	
8/30/2017	35	STOR	Perovskia	sp.		Native bee	Anthidium	sp.	11538	
8/30/2017	35	STOR	Thymus	sp.		Native bee	Halictus	sp.	11539	
8/30/2017	35	STOR	Rosa	sp.		Native bee	Lasioglossum	sp.	11542	
8/30/2017	35	STOR	Gaillardia	sp.		Native bee	Halictus	sp.	11543	
8/30/2017	35	STOR	Bulbine	sp.		Native bee	Anthidium	sp.	11544	
8/30/2017	35	STOR	Bulbine	sp.		Honey bee	Apis	melifera	11545	
8/30/2017	35	STOR	Salvia	sp.		Native bee	Halictus	sp.	11546	
8/30/2017	35	STOR	Limonium	sp.		Native bee	Halictus	sp.	11547	
8/30/2017	35	STOR	Ceratostigma	plumbaginoides		Honey bee	Apis	melifera	11548	
8/30/2017	35	STOR	Teucrium	sp.		Native bee	Anthidium	sp.	11549	
8/30/2017	35	STOR	Teucrium	sp.		Honey bee	Apis	melifera	11550	
8/30/2017	35	STOR	Gaura	lindheimeri		Native bee	Xylocopa	sp.	11551	
8/30/2017	35	STOR	Gaura	lindheimeri		Honey bee	Apis	melifera	11552	
8/30/2017	35	STOR	Verbena	sp.		Honey bee	Apis	melifera	11557	
8/30/2017	35	STOR	Leucophyllum	sp.		Honey bee	Apis	melifera	11558	
8/30/2017	35	STOR	Rosa	sp.		Honey bee	Apis	melifera	11559	
8/30/2017	35	STOR	Leucophyllum	sp.		Native bee	Hylaeus	sp.	11560	
8/30/2017	35	STOR	Gaura	lindheimeri		Native bee	Andrena	sp.	11561	
8/30/2017	35	STOR	Scabiosa	sp.		Native bee	Nomada	sp.	11562	
8/30/2017	35	STOR	Scabiosa	sp.		Native bee	Andrena	sp.	11563	

8/30/2017	35	STOR	*Tulbaghia*	sp.		Native bee	*Andrena*	sp.	11564
8/30/2017	35	STOR	*Tulbaghia*	sp.		Native bee	*Halictus*	sp.	11566
8/30/2017	35	STOR	*Delosperma*	sp.		Honey bee	*Apis*	*melifera*	11567
8/30/2017	35	STOR	*Delosperma*	sp.		Native bee	*Halictus*	sp.	11568
8/30/2017	35	STOR	*Tulbaghia*	sp.		Native bee	*Lasioglossum*	sp.	11570
8/30/2017	35	STOR	*Verbena*	sp.		Honey bee	*Apis*	*melifera*	11571
8/30/2017	35	STOR	*Lagerstroemia*	sp.		Native bee	*Halictus*	sp.	11572
8/30/2017	35	STOR	*Chilopsis*	*linearis*		Native bee	*Anthophora*	sp.	11576
8/30/2017	35	STOR	*Chilopsis*	*linearis*		Native bee	*Megachile*	sp.	11577
8/30/2017	35	EASI	*Agastache*	sp.		Native bee	*Anthidium*	sp.	11578
8/30/2017	35	EASI	*Aster*	sp.		Native bee	*Halictus*	sp.	11580
8/30/2017	35	EASI	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	11581
8/30/2017	35	EASI	*Bulbine*	sp.		Native bee	*Halictus*	sp.	11583
8/30/2017	35	EASI	*Erigeron*		'Wayne Roderick'	Native bee	*Andrena*	sp.	11584
8/30/2017	35	EASI	*Erigeron*		'Wayne Roderick'	Native bee	*Lasioglossum*	sp.	11585
8/30/2017	35	EASI	*Bahiopsis*	*parishii*		Native bee	*Andrena*	sp.	11586
8/30/2017	35	EASI	*Hesperaloe*	*parviflora*		Native bee	*Halictus*	sp.	11588
8/30/2017	35	EASI	*Eriogonum*	sp.		Native bee	*Megachile*	sp.	11589
8/30/2017	35	EASI	*Bulbine*	sp.		Native bee	*Megachile*	sp.	11592
8/30/2017	35	EASI	*Solidago*	sp.		Honey bee	*Apis*	*melifera*	11593
8/30/2017	35	EASI	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	11594
8/30/2017	35	EASI	*Leucophyllum*	sp.		Native bee	*Hylaeus*	sp.	11595
8/30/2017	35	EASI	*Origanum*	sp.		Native bee	*Megachile*	sp.	11596
8/30/2017	35	EASI	*Sedum*	sp.		Honey bee	*Apis*	*melifera*	11597
8/30/2017	35	EASI	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	11598
8/30/2017	35	EASI	*Eriogonum*	sp.		Native bee	*Andrena*	sp.	11599
8/30/2017	35	EASI	*Salvia*	sp.		Native bee	*Anthidium*	sp.	11602
8/30/2017	35	EASI	*Callistemon*	sp.		Native bee	*Andrena*	sp.	11603
8/30/2017	35	EASI	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	11604
8/30/2017	35	EASI	*Rosmarinus*	*officinalis*		Native bee	*Andrena*	sp.	11605
8/30/2017	35	EASI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	11606
8/30/2017	35	EASI	*Passiflora*	sp.		Native bee	*Xylocopa*	sp.	11608
8/30/2017	35	EASI	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	11610
8/30/2017	35	SOAF	*Euryops*	*pectinatus*		Native bee	*Halictus*	sp.	11611
8/30/2017	35	SOAF	*Euryops*	*pectinatus*		Native bee	*Andrena*	sp.	11612
8/30/2017	35	MEDI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	11614
8/30/2017	35	MEDI	*Rosmarinus*	*officinalis*		Native bee	*Andrena*	sp.	11616
8/30/2017	35	MEDI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	11617
8/30/2017	35	MEDI	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	11618
8/30/2017	35	MEDI	*Perovskia*	sp.		Native bee	*Anthidiellum*	sp.	11619
8/30/2017	35	MEDI	*Rosmarinus*	*officinalis*		Native bee	*Xylocopa*	sp.	11620
8/30/2017	35	MEDI	*Lavandula*	sp.		Native bee	*Lasioglossum*	sp.	11622
8/30/2017	35	MEDI	*Vitex*	sp.		Native bee	*Andrena*	sp.	11623
8/30/2017	35	MEDI	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	11624
8/30/2017	35	LODG	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	11626
8/30/2017	35	LODG	*Salvia*	sp.		Native bee	*Lasioglossum*	sp.	11627
8/30/2017	35	LODG	*Chitalpa*	sp.		Honey bee	*Apis*	*melifera*	11628
8/30/2017	35	BOAT	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	11629
8/30/2017	35	BOAT	*Solidago*	sp.		Native bee	*Andrena*	sp.	11630
8/30/2017	35	BOAT	*Solidago*	sp.		Honey bee	*Apis*	*melifera*	11633
8/30/2017	35	COMM	*Rosmarinus*	*officinalis*		Native bee	*Hylaeus*	sp.	11634
8/30/2017	35	COTT	*Lagerstroemia*	sp.		Honey bee	*Apis*	*melifera*	11636
8/30/2017	35	COTT	*Lagerstroemia*	sp.		Native bee	*Megachile*	sp.	11638
8/30/2017	35	COTT	*Centaurea*	*solstitialis*		Native bee	*Andrena*	sp.	11640
8/30/2017	35	COTT	*Centaurea*	*solstitialis*		Honey bee	*Apis*	*melifera*	11641
8/30/2017	35	MOUN	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	11642
8/30/2017	35	AUST_N	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	11643
8/30/2017	35	AUST_N	*Oxalis*	sp.		Honey bee	*Apis*	*melifera*	11644
8/30/2017	35	AUST_N	*Oxalis*	sp.		Native bee	*Halictus*	sp.	11646
8/30/2017	35	AUST_N	*Oxalis*	sp.		Native bee	*Lasioglossum*	sp.	11647
8/30/2017	35	AUST_N	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	11648
8/30/2017	35	AUST_S	*Convovulus*	sp.		Native bee	*Halictus*	sp.	11649
8/30/2017	35	AUST_S	*Eremophila*	*maculata*		Honey bee	*Apis*	*melifera*	11653
8/30/2017	35	AUST_S	*Westringia*	sp.		Native bee	*Andrena*	sp.	11655
8/30/2017	35	AUST_S	*Westringia*	sp.		Honey bee	*Apis*	*melifera*	11656
8/30/2017	35	AUST_S	*Westringia*	sp.		Native bee	*Anthidium*	sp.	11657
8/30/2017	35	AUST_S	*Parkinsonia*	sp.		Native bee	*Xylocopa*	sp.	11658
8/30/2017	35	AUST_S	*Parkinsonia*	sp.		Honey bee	*Apis*	*melifera*	11659
8/30/2017	35	AUST_S	*Tipuana*	*tipu*		Honey bee	*Apis*	*melifera*	11660
8/30/2017	35	AUST_S	*Tipuana*	*tipu*		Bumble bee	*Bombus*	sp.	11661
8/30/2017	35	ERIC_S	*Kickxia*	*elatine*		Native bee	*Halictus*	sp.	11663
8/30/2017	35	ERIC_S	*Datura*	sp.		Native bee	*Agapostemon*	sp.	11664
8/30/2017	35	ERIC_S	*Datura*	sp.		Honey bee	*Apis*	*melifera*	11665
8/30/2017	35	GATE	*Convovulus*	sp.		Honey bee	*Apis*	*melifera*	11666
8/30/2017	35	GATE	*Sonchus*	sp.		Native bee	*Agapostemon*	sp.	11669
8/30/2017	35	GATE	*Aster*	sp.		Native bee	*Halictus*	sp.	11670
8/30/2017	35	GATE	*Grindelia*	sp.		Native bee	*Halictus*	sp.	11671
8/30/2017	35	GATE	*Grindelia*	sp.		Native bee	*Andrena*	sp.	11672
8/30/2017	35	GATE	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	11673
8/30/2017	35	GATE	*Grindelia*	sp.		Native bee	*Xylocopa*	sp.	11677

8/30/2017	35	GATE	Grindelia	sp.		Native bee	Svastra	sp.	11682
8/30/2017	35	GATE	Aster	sp.		Native bee	Andrena	sp.	11685
8/30/2017	35	GATE	Madia	sp.		Native bee	Agapostemon	sp.	11686
8/30/2017	35	GATE	Madia	sp.		Native bee	Andrena	sp.	11687
8/30/2017	35	A_ST	Eschscholzia	californica		Native bee	Halictus	sp.	11689
8/30/2017	35	A_ST	Ozothanmus		'Sussex Silver'	Native bee	Halictus	sp.	11690
8/30/2017	35	A_ST	Oxalis	sp.		Native bee	Lasioglossum	sp.	11693
8/30/2017	35	REDW	Heliotropium	curassavicum		Native bee	Andrena	sp.	11694
8/30/2017	35	REDW	Heliotropium	curassavicum		Native bee	Halictus	sp.	11695
8/30/2017	35	MWB	Eschscholzia	californica		Honey bee	Apis	melifera	11696
8/30/2017	35	MWB	Eschscholzia	californica		Native bee	Halictus	sp.	11697
8/30/2017	35	MWB	Rosa	sp.		Native bee	Halictus	sp.	11698
8/30/2017	35	MWB	Convovulus	sp.		Native bee	Halictus	sp.	11699
8/30/2017	35	MWB	Eschscholzia	californica		Native bee	Lasioglossum	sp.	11700
8/30/2017	35	MWB	Solidago	sp.		Native bee	Halictus	sp.	11701
8/30/2017	35	MWB	Solidago	sp.		Native bee	Andrena	sp.	11704
8/30/2017	35	MWB	Solidago	sp.		Native bee	Lasioglossum	sp.	11705
8/30/2017	35	MWB	Salvia	sp.		Native bee	Anthidium	sp.	11706
8/30/2017	35	MWB	Oxalis	sp.		Native bee	Andrena	sp.	11708
8/30/2017	35	MWB	Eriogonum	sp.		Native bee	Megachile	sp.	11710
8/30/2017	35	MWB	Eriogonum	sp.		Native bee	Halictus	sp.	11711
8/30/2017	35	MWB	Eriogonum	sp.		Native bee	Anthidiellum	sp.	11712
8/30/2017	35	MWB	Eriogonum	sp.		Native bee	Agapostemon	sp.	11713
8/30/2017	35	MWB	Aster	sp.		Native bee	Halictus	sp.	11716
8/30/2017	35	MWB	Aster	sp.		Honey bee	Apis	melifera	11717
8/30/2017	35	MWB	Aster	sp.		Native bee	Andrena	sp.	11718
8/30/2017	35	MWB	Convovulus	sp.		Native bee	Andrena	sp.	11719
8/30/2017	35	MWB	Convovulus	sp.		Honey bee	Apis	melifera	11720
8/30/2017	35	MWB	Corethrogyne	sp.		Native bee	Halictus	sp.	11721
8/30/2017	35	MWB	Erigeron		'Wayne Roderick'	Native bee	Halictus	sp.	11722
8/30/2017	35	MWB	Grindelia	sp.		Native bee	Halictus	sp.	11723
8/30/2017	35	MWB	Dendromecon	sp.		Native bee	Halictus	sp.	11724
8/30/2017	35	MWB	Heliotropium	curassavicum		Native bee	Lasioglossum	sp.	11725
8/30/2017	35	MWB	Heliotropium	curassavicum		Native bee	Halictus	sp.	11726
8/30/2017	35	MWB	Acmispon	americanus		Native bee	Megachile	sp.	11728
8/30/2017	35	MWB	Acmispon	americanus		Native bee	Anthidiellum	sp.	11729
8/30/2017	35	MWB	Epilobium	sp.		Honey bee	Apis	melifera	11731
8/30/2017	35	FOOT	Epilobium	sp.		Honey bee	Apis	melifera	11733
8/30/2017	35	FOOT	Eriogonum	sp.		Native bee	Halictus	sp.	11735
8/30/2017	35	ENTR	Perovskia	sp.		Native bee	Megachile	sp.	11736
8/30/2017	35	ENTR	Perovskia	sp.		Honey bee	Apis	melifera	11737
8/30/2017	35	ENTR	Perovskia	sp.		Native bee	Anthidium	sp.	11740
8/30/2017	35	ENTR	Perovskia	sp.		Native bee	Anthidiellum	sp.	11741
8/30/2017	35	ENTR	Perovskia	sp.		Native bee	Agapostemon	sp.	11746
8/30/2017	35	ENTR	Salvia	sp.		Native bee	Halictus	sp.	11749
8/30/2017	35	ENTR	Sonchus	sp.		Native bee	Halictus	sp.	11751
8/30/2017	35	ENTR	Acacia	sp.		Honey bee	Apis	melifera	11752
8/30/2017	35	ARGE	Veronica	sp.		Honey bee	Apis	melifera	11753
8/30/2017	35	ARGE	Veronica	sp.		Native bee	Halictus	sp.	11754
8/30/2017	35	ARGE	Verbena	sp.		Native bee	Anthophora	sp.	11755
8/30/2017	35	SWUS	Leucophyllum	sp.		Honey bee	Apis	melifera	11757
8/30/2017	35	SWUS	Leucophyllum	sp.		Native bee	Halictus	sp.	11758
8/30/2017	35	SWUS	Leucophyllum	sp.		Native bee	Xylocopa	sp.	11760
8/30/2017	35	SWUS	Leucophyllum	sp.		Native bee	Megachile	sp.	11761
8/30/2017	35	SWUS	Tecoma	sp.		Native bee	Xylocopa	sp.	11762
8/30/2017	35	SWUS	Salvia	sp.		Native bee	Anthidium	sp.	11765
8/30/2017	35	SWUS	Salvia	sp.		Native bee	Xylocopa	sp.	11766
8/30/2017	35	SWUS	Gaillardia	sp.		Native bee	Halictus	sp.	11767
8/30/2017	35	SWUS	Gaillardia	sp.		Honey bee	Apis	melifera	11768
8/30/2017	35	SWUS	Salvia	sp.		Native bee	Lasioglossum	sp.	11771
8/30/2017	35	SWUS	Chilopsis	linearis		Honey bee	Apis	melifera	11773
8/30/2017	35	SWUS	Salvia	sp.		Native bee	Halictus	sp.	11775
8/30/2017	35	CONI	Eriogonum	sp.		Native bee	Halictus	sp.	11776
8/30/2017	35	CONI	Eriogonum	sp.		Honey bee	Apis	melifera	11777
8/30/2017	35	CONI	Eriogonum	sp.		Native bee	Megachile	sp.	11780
8/30/2017	35	CONI	Eriogonum	sp.		Native bee	Anthidiellum	sp.	11781
8/30/2017	35	CONI	Mentha	sp.		Native bee	Halictus	sp.	11783
8/30/2017	35	CONI	Mentha	sp.		Honey bee	Apis	melifera	11784
8/30/2017	35	CONI	Limonium	sp.		Native bee	Halictus	sp.	11785
8/30/2017	35	REDB	Eschscholzia	californica		Native bee	Halictus	sp.	11786
8/30/2017	35	DESE	Parkinsonia	sp.		Native bee	Xylocopa	sp.	11787
8/30/2017	35	DESE	Baileya	multiradiata		Native bee	Andrena	sp.	11789
8/30/2017	35	DESE	Encelia	sp.		Native bee	Andrena	sp.	11790
8/30/2017	35	DESE	Baileya	multiradiata		Native bee	Halictus	sp.	11792
8/30/2017	35	DESE	Calliandra	tweedii		Honey bee	Apis	melifera	11793
8/30/2017	35	DESE	Sphaeralcea	sp.		Native bee	Andrena	sp.	11795
8/30/2017	35	DESE	Sphaeralcea	sp.		Native bee	Diadasia	sp.	11796
8/30/2017	35	MRAK	Apentia		'Red Apple'	Honey bee	Apis	melifera	11799
8/30/2017	35	MRAK	Salvia		'Blauhugel'	Native bee	Agapostemon	sp.	11800
8/30/2017	35	MRAK	Salvia		'Blauhugel'	Honey bee	Apis	melifera	11801

8/30/2017	35	MRAK	*Salvia*		'Blauhugel'	Native bee	*Andrena*	sp.	11803
8/30/2017	35	MRAK	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	11804
8/30/2017	35	MRAK	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	11805
8/30/2017	35	MRAK	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	11806
8/30/2017	35	MRAK	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	11808
8/30/2017	35	MRAK	*Trifolium*	sp.		Native bee	*Halictus*	sp.	11810
8/30/2017	35	MRAK	*Abelia*	sp.		Honey bee	*Apis*	*melifera*	11811
8/30/2017	35	MRAK	*Mentha*	sp.		Native bee	*Halictus*	sp.	11812
8/30/2017	35	MRAK	*Mentha*	sp.		Native bee	*Andrena*	sp.	11813
8/30/2017	35	MRAK	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	11814
8/30/2017	35	MRAK	*Mentha*	sp.		Honey bee	*Apis*	*melifera*	11816
9/7/2017	36	GAZE	*Urginea*	*maritima*		Honey bee	*Apis*	*melifera*	11817
9/7/2017	36	GAZE	*Tulbaghia*	sp.		Honey bee	*Apis*	*melifera*	11818
9/7/2017	36	GAZE	*Verbena*	sp.		Honey bee	*Apis*	*melifera*	11819
9/7/2017	36	GAZE	*Duranta*	*erecta*	'Alba'	Honey bee	*Apis*	*melifera*	11820
9/7/2017	36	STOR	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	11821
9/7/2017	36	STOR	*Epilobium*	sp.		Native bee	*Xylocopa*	sp.	11822
9/7/2017	36	STOR	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	11823
9/7/2017	36	STOR	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	11824
9/7/2017	36	STOR	X *Amaristetes*	*multiflora*		Native bee	*Agapostemon*	sp.	11825
9/7/2017	36	STOR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	11826
9/7/2017	36	STOR	*Scabiosa*	sp.		Honey bee	*Apis*	*melifera*	11827
9/7/2017	36	STOR	*Thymus*	*capitatus*		Honey bee	*Apis*	*melifera*	11828
9/7/2017	36	STOR	*Salvia*	sp.		Native bee	*Halictus*	sp.	11829
9/7/2017	36	STOR	*Tulbaghia*	sp.		Native bee	*Halictus*	sp.	11830
9/7/2017	36	STOR	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	11831
9/7/2017	36	STOR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	11832
9/7/2017	36	STOR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	11833
9/7/2017	36	STOR	*Leonotis*	sp.		Honey bee	*Apis*	*melifera*	11834
9/7/2017	36	STOR	*Ceratostigma*	*plumbaginoides*		Honey bee	*Apis*	*melifera*	11836
9/7/2017	36	STOR	*Veronica*	sp.		Honey bee	*Apis*	*melifera*	11837
9/7/2017	36	STOR	*Salvia*	sp.		Native bee	*Anthidium*	sp.	11838
9/7/2017	36	STOR	*Scabiosa*	chionophylla		Native bee	*Halictus*	sp.	11839
9/7/2017	36	STOR	*Lagerstroemia*	sp.		Honey bee	*Apis*	*melifera*	11842
9/7/2017	36	EASI	*Encelia*	sp.		Native bee	*Halictus*	sp.	11843
9/7/2017	36	EASI	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	11844
9/7/2017	36	EASI	*Aster*	sp.		Native bee	*Halictus*	sp.	11845
9/7/2017	36	EASI	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	11846
9/7/2017	36	EASI	*Bahiopsis*	*parishii*		Native bee	*Halictus*	sp.	11847
9/7/2017	36	EASI	*Bahiopsis*	*parishii*		Honey bee	*Apis*	*melifera*	11848
9/7/2017	36	EASI	*Hesperaloe*	*parvifolia*		Honey bee	*Apis*	*melifera*	11850
9/7/2017	36	EASI	*Bulbine*	sp.		Native bee	*Halictus*	sp.	11852
9/7/2017	36	EASI	*Erigeron*	*karvinskianus*		Native bee	*Halictus*	sp.	11853
9/7/2017	36	EASI	*Sedum*	sp.		Honey bee	*Apis*	*melifera*	11854
9/7/2017	36	EASI	*Salvia*	sp.		Native bee	*Anthidium*	sp.	11855
9/7/2017	36	EASI	*Lavandula*	sp.		Native bee	*Anthidium*	sp.	11856
9/7/2017	36	EASI	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	11857
9/7/2017	36	EASI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	11858
9/7/2017	36	EASI	*Rosmarinus*	*officinalis*		Native bee	*Agapostemon*	sp.	11861
9/7/2017	36	EASI	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	11862
9/7/2017	36	EASI	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	11863
9/7/2017	36	SOAF	*Euryops*	*pectinatus*		Native bee	*Halictus*	sp.	11864
9/7/2017	36	SOAF	*Plumbago*	sp.		Honey bee	*Apis*	*melifera*	11865
9/7/2017	36	MEDI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	11866
9/7/2017	36	MEDI	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	11867
9/7/2017	36	MEDI	*Salvia*	sp.		Native bee	*Halictus*	sp.	11868
9/7/2017	36	MEDI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	11870
9/7/2017	36	MEDI	*Rosmarinus*	*officinalis*		Native bee	*Andrena*	sp.	11872
9/7/2017	36	MEDI	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	10873
9/7/2017	36	MEDI	*Veronica*	*nudiflora*		Honey bee	*Apis*	*melifera*	11874
9/7/2017	36	MEDI	*Veronica*	*nudiflora*		Native bee	*Halictus*	sp.	11875
9/7/2017	36	SWUS	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	11879
9/7/2017	36	SWUS	*Gaillardia*	sp.		Native bee	*Agapostemon*	sp.	11882
9/7/2017	36	SWUS	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	11880
9/7/2017	36	SWUS	*Tecoma*	sp.		Native bee	*Xylocopa*	sp.	11883
9/7/2017	36	SWUS	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	11884
9/7/2017	36	SWUS	*Mimosa*	sp.		Honey bee	*Apis*	*melifera*	11885
9/7/2017	36	SWUS	*Leucophyllum*	sp.		Honey bee	*Apis*	*melifera*	11887
9/7/2017	36	CONI	*Salvia*	sp.		Native bee	*Anthophora*	sp.	11892
9/7/2017	36	CONI	*Salvia*	sp.		Native bee	*Anthidium*	sp.	11895
9/7/2017	36	CONI	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	11896
9/7/2017	36	CONI	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	11897
9/7/2017	36	CONI	*Eriogonum*	sp.		Native bee	*Hoplitis*	sp.	11899
9/7/2017	36	CONI	*Convovulus*	sp.		Native bee	*Agapostemon*	sp.	11901
9/7/2017	36	CONI	*Ruellia*	sp.		Honey bee	*Apis*	*melifera*	11905
9/7/2017	36	CONI	*Ruellia*	sp.		Native bee	*Agapostemon*	sp.	11906
9/7/2017	36	CONI	*Mentha*	sp.		Native bee	*Halictus*	sp.	11907
9/7/2017	36	CONI	*Mentha*	sp.		Honey bee	*Apis*	*melifera*	11908
9/7/2017	36	CONI	*Limonium*	sp.		Native bee	*Halictus*	sp.	11909
9/7/2017	36	REDB	*Eriogonum*	sp.		Native bee	*Agapostemon*	sp.	11911

9/7/2017	36	DESE	*Tecoma*	sp.		Honey bee	*Apis*	*melifera*	11916	
9/7/2017	36	DESE	*Baileya*	*multiradiata*		Native bee	*Halictus*	sp.	11917	
9/7/2017	36	DESE	*Encelia*	sp.		Native bee	*Halictus*	sp.	11920	
9/7/2017	36	DESE	*Encelia*	sp.		Native bee	*Agapostemon*	sp.	11921	
9/7/2017	36	DESE	*Oenothera*	sp.		Native bee	*Lasioglossum*	sp.	11922	
9/7/2017	36	DESE	*Sphaeralcea*	sp.		Native bee	*Halictus*	sp.	11924	
9/7/2017	36	MRAK	*Apentia*		'Red Apple'	Honey bee	*Apis*	*melifera*	11925	
9/7/2017	36	MRAK	*Clarkia*	sp.		Honey bee	*Apis*	*melifera*	11926	
9/7/2017	36	MRAK	*Salvia*		'Blauhugel'	Honey bee	*Apis*	*melifera*	11927	
9/7/2017	36	MRAK	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	11928	
9/7/2017	36	MRAK	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	11929	
9/7/2017	36	MRAK	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	11930	
9/7/2017	36	MRAK	*Gaillardia*	sp.		Native bee	*Svastra*	sp.	11934	COLLECTED
9/7/2017	36	MRAK	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	11936	
9/7/2017	36	MRAK	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	11939	
9/7/2017	36	MRAK	*Abelia*	sp.		Honey bee	*Apis*	*melifera*	11940	
9/7/2017	36	MRAK	*Mentha*	sp.		Native bee	*Halictus*	*sp.*	11941	
9/7/2017	36	MRAK	*Mentha*	sp.		Honey bee	*Apis*	*melifera*	11942	
9/7/2017	36	MRAK	*Millettia*	*taiwanensis*		Honey bee	*Apis*	*melifera*	11944	
9/7/2017	36	MRAK	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	11946	
9/7/2017	36	FOOT	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	11947	
9/7/2017	36	FOOT	*Eriogonum*	sp.		Native bee	*Halictus*	*sp.*	11948	
9/7/2017	36	FOOT	*Encelia*	sp.		Native bee	*Halictus*	*sp.*	11949	
9/7/2017	36	FOOT	*Encelia*	sp.		Native bee	*Andrena*	sp.	11950	
9/7/2017	36	FOOT	*Encelia*	sp.		Native bee	*Agapostemon*	sp.	11951	
9/7/2017	36	ENTR	*Perovskia*	sp.		Native bee	*Anthidiellum*	sp.	11955	
9/7/2017	36	ENTR	*Perovskia*	sp.		Native bee	*Megachile*	sp.	11959	
9/7/2017	36	ENTR	*Perovskia*	sp.		Native bee	*Anthophora*	sp.	11956	
9/7/2017	36	ENTR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	11957	
9/7/2017	36	ENTR	*Perovskia*	sp.		Native bee	*Agapostemon*	sp.	11958	
9/7/2017	36	ENTR	*Rosmarinus*	*officinalis*		Native bee	*Agapostemon*	sp.	11960	
9/7/2017	36	ENTR	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	11961	
9/7/2017	36	ENTR	*Vitex*	sp.		Native bee	*Halictus*	*sp.*	11962	
9/7/2017	36	ENTR	*Vitex*	sp.		Native bee	*Agapostemon*	sp.	11964	
9/7/2017	36	ENTR	*Salvia*	sp.		Native bee	*Halictus*	sp.	11968	
9/7/2017	36	ACAC	*Acacia*	*stenophylla*		Honey bee	*Apis*	*melifera*	11969	
9/7/2017	36	CHIL	*Alstroemeria*	sp.		Native bee	*Agapostemon*	sp.	11970	
9/7/2017	36	LODG	*Gaura*	*lindheimeri*		Native bee	*Agapostemon*	sp.	11971	
9/7/2017	36	LODG	*Salvia*		'Blauhugel'	Native bee	*Agapostemon*	sp.	11973	
9/7/2017	36	LODG	*Salvia*		'Blauhugel'	Honey bee	*Apis*	*melifera*	11974	
9/7/2017	36	LODG	*Potentilla*	*indica*		Native bee	*Andrena*	sp.	11975	
9/7/2017	36	LODG	*Potentilla*	*indica*		Native bee	*Agapostemon*	sp.	11976	
9/7/2017	36	BOAT	*Lippia*	*nodiflora*		Honey bee	*Apis*	*melifera*	11977	
9/7/2017	36	BOAT	*Lippia*	*nodiflora*		Native bee	*Lasioglossum*	sp.	11979	
9/7/2017	36	BOAT	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	11980	
9/7/2017	36	BOAT	*Solidago*	sp.		Native bee	*Halictus*	sp.	11982	
9/7/2017	36	BOAT	*Solidago*	sp.		Honey bee	*Apis*	*melifera*	11983	
9/7/2017	36	COTT	*Centaurea*	*solstitialis*		Honey bee	*Apis*	*melifera*	11985	
9/7/2017	36	YOLO	*Centaurea*	*solstitialis*		Native bee	*Andrena*	sp.	11986	
9/7/2017	36	YOLO	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	11988	
9/7/2017	36	MOUN	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	11990	
9/7/2017	36	AUST_N	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	11991	
9/7/2017	36	AUST_N	*Westringia*	sp.		Honey bee	*Apis*	*melifera*	11992	
9/7/2017	36	AUST_N	*Westringia*	sp.		Native bee	*Andrena*	sp.	11993	
9/7/2017	36	AUST_N	*Westringia*	sp.		Native bee	*Agapostemon*	sp.	11995	
9/7/2017	36	AUST_N	*Westringia*	sp.		Native bee	*Halictus*	sp.	11997	
9/7/2017	36	AUST_N	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	11999	
9/7/2017	36	AUST_N	*Convovulus*	sp.		Native bee	*Halictus*	sp.	12000	
9/7/2017	36	AUST_S	*Convovulus*	sp.		Native bee	*Halictus*	sp.	12001	
9/7/2017	36	AUST_S	*Convovulus*	sp.		Native bee	*Agapostemon*	sp.	12002	
9/7/2017	36	AUST_S	*Eremophila*	*maculata*		Native bee	*Agapostemon*	sp.	12005	
9/7/2017	36	AUST_S	*Hebe*	sp.		Native bee	*Agapostemon*	sp.	12006	
9/7/2017	36	AUST_S	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	12007	
9/7/2017	36	AUST_S	*Grevillea*	sp.		Native bee	*Xylocopa*	sp.	12008	
9/7/2017	36	AUST_S	*Westringia*	sp.		Native bee	*Andrena*	sp.	12012	
9/7/2017	36	AUST_S	*Westringia*	sp.		Native bee	*Agapostemon*	sp.	12015	
9/7/2017	36	AUST_S	*Westringia*	sp.		Honey bee	*Apis*	*melifera*	12017	
9/7/2017	36	AUST_S	*Westringia*	sp.		Native bee	*Anthidium*	sp.	12018	
9/7/2017	36	AUST_S	*Parkinsonia*	sp.		Native bee	*Xylocopa*	sp.	12020	
9/7/2017	36	AUST_S	*Parkinsonia*	sp.		Native bee	*Megachile*	sp.	12021	
9/7/2017	36	AUST_S	*Tipuana*	*tipu*		Native bee	*Xylocopa*	sp.	12022	
9/7/2017	36	AUST_S	*Tipuana*	*tipu*		Honey bee	*Apis*	*melifera*	12023	
9/7/2017	36	ERIC_S	*Kickxia*	*elatine*		Honey bee	*Apis*	*melifera*	12025	
9/7/2017	36	ERIC_S	*Kickxia*	*elatine*		Native bee	*Andrena*	sp.	12028	
9/7/2017	36	GATE	*Aster*	sp.		Native bee	*Halictus*	sp.	12030	
9/7/2017	36	GATE	*Grindelia*	sp.		Native bee	*Halictus*	sp.	12031	
9/7/2017	36	GATE	*Grindelia*	sp.		Native bee	*Agapostemon*	sp.	12032	
9/7/2017	36	GATE	*Grindelia*	sp.		Native bee	*Andrena*	sp.	12036	
9/7/2017	36	GATE	*Achillea*	sp.		Native bee	*Lasioglossum*	sp.	12037	
9/7/2017	36	GATE	*Grindelia*	sp.		Native bee	*Svastra*	sp.	12039	

9/7/2017	36	GATE	*Grindelia*	sp.		Native bee	*Melissodes*	sp.	12041	
9/7/2017	36	GATE	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	12044	
9/7/2017	36	GATE	*Madia*	sp.		Native bee	*Agapostemon*	sp.	12050	
9/7/2017	36	GATE	*Madia*	sp.		Native bee	*Andrena*	sp.	12051	
9/7/2017	36	GATE	*Convovulus*	sp.		Native bee	*Halictus*	sp.	12052	
9/7/2017	36	A_ST	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	12054	
9/7/2017	36	REDW	*Heliotropium*	*curassavicum*		Native bee	*Halictus*	sp.	12055	
9/7/2017	36	REDW	*Heliotropium*	*curassavicum*		Native bee	*Andrena*	sp.	12059	
9/7/2017	36	REDW	*Heliotropium*	*curassavicum*		Native bee	*Lasioglossum*	sp.	12061	
9/7/2017	36	MWB	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	12062	
9/7/2017	36	MWB	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	12064	
9/7/2017	36	MWB	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	12065	
9/7/2017	36	MWB	*Solidago*	sp.		Native bee	*Halictus*	sp.	12068	
9/7/2017	36	MWB	*Solidago*	sp.		Native bee	*Hylaeus*	sp.	12075	
9/7/2017	36	MWB	*Salvia*	sp.		Native bee	*Agapostemon*	sp.	12078	
9/7/2017	36	MWB	*Baccharis*	*pilularis*		Honey bee	*Apis*	*melifera*	12079	
9/7/2017	36	MWB	*Datura*	sp.		Native bee	*Xylocopa*	sp.	12081	
9/7/2017	36	MWB	*Eriogonum*	sp.		Native bee	*Xylocopa*	sp.	12082	
9/7/2017	36	MWB	*Phacelia*	sp.		Native bee	*Agapostemon*	sp.	12085	
9/7/2017	36	MWB	*Eriogonum*	sp.		Native bee	*Agapostemon*	sp.	12086	
9/7/2017	36	MWB	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	12087	
9/7/2017	36	MWB	*Eriogonum*	sp.		Native bee	*Anthidium*	sp.	12089	
9/7/2017	36	MWB	*Eriogonum*	sp.		Native bee	*Megachile*	sp.	12093	
9/7/2017	36	MWB	*Eriogonum*	sp.		Native bee	*Hylaeus*	sp.	12091	
9/7/2017	36	MWB	*Eriogonum*	sp.		Native bee	*Andrena*	sp.	12096	
9/7/2017	36	MWB	*Epilobium*	sp.		Native bee	*Halictus*	sp.	12098	
9/7/2017	36	MWB	*Datura*	sp.		Native bee	*Hylaeus*	sp.	12099	
9/7/2017	36	MWB	*Datura*	sp.		Native bee	*Sphecodes*	sp.	12101	COLLECTED
9/7/2017	36	MWB	*Aster*	sp.		Native bee	*Lasioglossum*	sp.	12104	
9/7/2017	36	MWB	*Aster*	sp.		Native bee	*Andrena*	sp.	12105	
9/7/2017	36	MWB	*Convovulus*	sp.		Native bee	*Lasioglossum*	sp.	12106	
9/7/2017	36	MWB	*Convovulus*	sp.		Native bee	*Agapostemon*	sp.	12107	
9/7/2017	36	MWB	*Epilobium*	sp.		Native bee	*Halictus*	sp.	12108	
9/7/2017	36	MWB	*Aster*	sp.		Native bee	*Halictus*	sp.	12109	
9/7/2017	36	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Halictus*	sp.	12116	
9/7/2017	36	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Andrena*	sp.	12118	
9/7/2017	36	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Lasioglossum*	sp.	12123	
9/7/2017	36	MWB	*Achillea*	sp.		Native bee	*Halictus*	sp.	12124	
9/7/2017	36	MWB	*Fremontodendron*	sp.		Honey bee	*Apis*	*melifera*	12125	
9/7/2017	36	MWB	*Heliotropium*	*curassavicum*		Native bee	*Lasioglossum*	sp.	12128	
9/7/2017	36	MWB	*Heliotropium*	*curassavicum*		Native bee	*Halictus*	sp.	12131	
9/7/2017	36	MWB	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	12132	
9/7/2017	36	MWB	*Acmispon*	*americanus*		Native bee	*Anthidiellum*	sp.	12133	
9/7/2017	36	MWB	*Acmispon*	*americanus*		Native bee	*Hoplitis*	sp.	12135	
9/14/2017	37	AUST_N	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	12137	
9/14/2017	37	AUST_S	*Convovulus*	sp.		Native bee	*Agapostemon*	sp.	12138	
9/14/2017	37	AUST_S	*Eremophila*	*maculata*		Honey bee	*Apis*	*melifera*	12139	
9/14/2017	37	AUST_S	*Eremophila*	*maculata*		Native bee	*Agapostemon*	sp.	12141	
9/14/2017	37	AUST_S	*Eremophila*	*maculata*		Honey bee	*Apis*	*melifera*	12142	
9/14/2017	37	AUST_S	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	12143	
9/14/2017	37	AUST_S	*Westringia*	sp.		Native bee	*Andrena*	sp.	12148	
9/14/2017	37	AUST_S	*Westringia*	sp.		Native bee	*Halictus*	sp.	12150	
9/14/2017	37	ERIC_S	*Datura*	sp.		Native bee	*Andrena*	sp.	12153	
9/14/2017	37	AUST_S	*Tecoma*	sp.		Native bee	*Xylocopa*	sp.	12156	
9/14/2017	37	GATE	*Convovulus*	sp.		Native bee	*Halictus*	sp.	12159	
9/14/2017	37	GATE	*Grindelia*	sp.		Native bee	*Halictus*	sp.	12160	
9/14/2017	37	GATE	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	12161	
9/14/2017	37	GATE	*Aster*	sp.		Native bee	*Halictus*	sp.	12162	
9/14/2017	37	GATE	*Convovulus*	sp.		Native bee	*Halictus*	sp.	12164	
9/14/2017	37	GATE	*Convovulus*	sp.		Native bee	*Lasioglossum*	sp.	12165	
9/14/2017	37	A_ST	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	12167	
9/14/2017	37	REDW	*Heliotropium*	*curassavicum*		Native bee	*Halictus*	sp.	12169	
9/14/2017	37	MWB	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	12171	
9/14/2017	37	MWB	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	12172	
9/14/2017	37	MWB	*Solidago*	sp.		Native bee	*Halictus*	sp.	12173	
9/14/2017	37	MWB	*Baccharis*	sp.		Honey bee	*Apis*	*melifera*	12174	
9/14/2017	37	MWB	*Baccharis*	sp.		Native bee	*Halictus*	sp.	12175	
9/14/2017	37	MWB	*Baccharis*	sp.		Native bee	*Agapostemon*	sp.	12176	
9/14/2017	37	MWB	*Datura*	sp.		Honey bee	*Apis*	*melifera*	12177	
9/14/2017	37	MWB	*Eriogonum*	sp.		Native bee	*Agapostemon*	sp.	12178	
9/14/2017	37	MWB	*Eriogonum*	sp.		Native bee	*Lasioglossum*	sp.	12179	
9/14/2017	37	MWB	*Aster*	sp.		Native bee	*Halictus*	sp.	12180	
9/14/2017	37	MWB	*Erigeron*		'Wayne Roderick'	Honey bee	*Apis*	*melifera*	12184	
9/14/2017	37	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Diadasia*	sp.	12185	COLLECTED
9/14/2017	37	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Andrena*	sp.	12186	
9/14/2017	37	MWB	*Solidago*	sp.		Native bee	*Agapostemon*	sp.	12189	
9/14/2017	37	MWB	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	12190	
9/14/2017	37	FOOT	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	12191	
9/14/2017	37	FOOT	*Baccharis*	sp.		Native bee	*Halictus*	sp.	12196	
9/14/2017	37	FOOT	*Baccharis*	sp.		Native bee	*Andrena*	sp.	12197	

9/14/2017 37	FOOT	*Baccharis*	sp.		Native bee	*Agapostemon*	sp.	12198
9/14/2017 37	ENTR	*Hesperaloe*	*parvifolia*		Honey bee	*Apis*	*melifera*	12201
9/14/2017 37	ENTR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	12202
9/14/2017 37	ENTR	*Perovskia*	sp.		Native bee	*Agapostemon*	sp.	12204
9/14/2017 37	ENTR	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	12206
9/14/2017 37	ENTR	*Vitex*	sp.		Native bee	*Agapostemon*	sp.	12207
9/14/2017 37	ACAC	*Acacia*	sp.		Native bee	*Halictus*	sp.	12209
9/14/2017 37	ACAC	*Acacia*	sp.		Honey bee	*Apis*	*melifera*	12212
9/14/2017 37	ARGE	*Erythrina*	*crista galli*		Native bee	*Halictus*	sp.	12214
9/14/2017 37	ARGE	*Erythrina*	*crista galli*		Honey bee	*Apis*	*melifera*	12215
9/14/2017 37	ARGE	*Veronica*	sp.		Honey bee	*Apis*	*melifera*	12216
9/14/2017 37	ARGE	*Veronica*	sp.		Native bee	*Halictus*	sp.	12218
9/14/2017 37	SWUS	*Tecoma*	sp.		Native bee	*Andrena*	sp.	12219
9/14/2017 37	SWUS	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	12220
9/14/2017 37	SWUS	*Salvia*	sp.		Native bee	*Halictus*	sp.	12222
9/14/2017 37	SWUS	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	12223
9/14/2017 37	SWUS	*Gaillardia*	sp.		Native bee	*Agapostemon*	sp.	12224
9/14/2017 37	SWUS	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	12225
9/14/2017 37	SWUS	*Tecoma*	sp.		Native bee	*Xylocopa*	sp.	12226
9/14/2017 37	SWUS	*Tecoma*	sp.		Native bee	*Halictus*	sp.	12228
9/14/2017 37	SWUS	*Gaura*	*lindheimeri*		Native bee	*Halictus*	sp.	12229
9/14/2017 37	SWUS	*Leucophyllum*	sp.		Native bee	*Halictus*	sp.	12231
9/14/2017 37	SWUS	*Leucophyllum*	sp.		Honey bee	*Apis*	*melifera*	12333
9/14/2017 37	SWUS	*Mimosa*	sp.		Honey bee	*Apis*	*melifera*	12236
9/14/2017 37	SWUS	*Chitalpa*	sp.		Honey bee	*Apis*	*melifera*	12237
9/14/2017 37	SWUS	*Isomeris*	sp.		Native bee	*Xylocopa*	sp.	12238
9/14/2017 37	SWUS	*Isomeris*	sp.		Native bee	*Halictus*	sp.	12239
9/14/2017 37	CONI	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	12240
9/14/2017 37	CONI	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	12243
9/14/2017 37	CONI	*Eriogonum*	sp.		Native bee	*Agapostemon*	sp.	12245
9/14/2017 37	CONI	*Ruellia*	sp.		Native bee	*Agapostemon*	sp.	12247
9/14/2017 37	CONI	*Ruellia*	sp.		Native bee	*Xylocopa*	sp.	12249
9/14/2017 37	CONI	*Mentha*	sp.		Native bee	*Halictus*	sp.	12252
9/14/2017 37	CONI	*Mentha*	sp.		Honey bee	*Apis*	*melifera*	12253
9/14/2017 37	CONI	*Mentha*	sp.		Native bee	*Agapostemon*	sp.	12254
9/14/2017 37	CONI	*Limonium*	*otolepis*		Native bee	*Halictus*	sp.	12256
9/14/2017 37	CONI	*Limonium*	*otolepis*		Native bee	*Andrena*	sp.	12258
9/14/2017 37	CONI	*Limonium*	*otolepis*		Native bee	*Agapostemon*	sp.	12259
9/14/2017 37	CONI	*Limonium*	*otolepis*		Native bee	*Halictus*	sp.	12260
9/14/2017 37	REDB	*Eriogonum*	sp.		Native bee	*Agapostemon*	sp.	12262
9/14/2017 37	REDB	*Eriogonum*	sp.		Native bee	*Lasioglossum*	sp.	12263
9/14/2017 37	DESE	*Parkinsonia*	sp.		Native bee	*Xylocopa*	sp.	12269
9/14/2017 37	DESE	*Baileya*	*multiradiata*		Native bee	*Halictus*	sp.	12270
9/14/2017 37	DESE	*Encelia*	sp.		Native bee	*Andrena*	sp.	12273
9/14/2017 37	DESE	*Encelia*	sp.		Native bee	*Agapostemon*	sp.	12274
9/14/2017 37	DESE	*Baileya*	*multiradiata*		Native bee	*Andrena*	sp.	12275
9/14/2017 37	MRAK	*Apentia*		'Red Apple'	Honey bee	*Apis*	*melifera*	12279
9/14/2017 37	MRAK	*Veronica*	sp.		Honey bee	*Apis*	*melifera*	12280
9/14/2017 37	MRAK	*Gaura*	*lindheimeri*		Native bee	*Halictus*	sp.	12281
9/14/2017 37	MRAK	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	12282
9/14/2017 37	MRAK	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	12283
9/14/2017 37	MRAK	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	12284
9/14/2017 37	MRAK	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	12285
9/14/2017 37	MRAK	*Gaillardia*	sp.		Native bee	*Anthidium*	sp.	12286
9/14/2017 37	MRAK	*Veronica*	sp.		Native bee	*Halictus*	sp.	12287
9/14/2017 37	MRAK	*Trifolium*	sp.		Honey bee	*Apis*	*melifera*	12288
9/14/2017 37	MRAK	*Sedum*	sp.		Honey bee	*Apis*	*melifera*	12289
9/14/2017 37	MRAK	*Abelia*	sp.		Honey bee	*Apis*	*melifera*	12291
9/14/2017 37	MRAK	*Mentha*	sp.		Honey bee	*Apis*	*melifera*	12293
9/14/2017 37	MRAK	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	12294
9/14/2017 37	MRAK	*Mentha*	sp.		Native bee	*Halictus*	sp.	12295
9/14/2017 37	MRAK	*Mentha*	sp.		Native bee	*Agapostemon*	sp.	12296
9/14/2017 37	MRAK	*Mentha*	sp.		Native bee	*Andrena*	sp.	12300
9/14/2017 37	MRAK	*Scabiosa*	sp.		Native bee	*Agapostemon*	sp.	12301
9/14/2017 37	MRAK	*Scabiosa*	sp.		Native bee	*Halictus*	sp.	12302
9/14/2017 37	GAZE	*Abelia*	sp.		Honey bee	*Apis*	*melifera*	12305
9/14/2017 37	GAZE	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	12306
9/14/2017 37	GAZE	*Hibiscus*	sp.		Native bee	*Xylocopa*	sp.	12308
9/14/2017 37	GAZE	X *Amaristetes*	*multiflora*	white flowered form	Honey bee	*Apis*	*melifera*	12309
9/14/2017 37	GAZE	*Hibiscus*	sp.		Honey bee	*Apis*	*melifera*	12310
9/14/2017 37	GAZE	*Nicotiana*	*sylvestris*		Honey bee	*Apis*	*melifera*	12313
9/14/2017 37	GAZE	*Rosa*		'Ice Berg'	Honey bee	*Apis*	*melifera*	12314
9/14/2017 37	GAZE	*Vitex*	sp.		Native bee	*Xylocopa*	sp.	12316
9/14/2017 37	GAZE	*Nicotiana*	*sylvestris*		Native bee	*Lasioglossum*	sp.	12317
9/14/2017 37	GAZE	*Duranta*	*erecta*	'Alba'	Honey bee	*Apis*	*melifera*	12318
9/14/2017 37	STOR	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	12319
9/14/2017 37	STOR	*Scabiosa*	sp.		Honey bee	*Apis*	*melifera*	12320
9/14/2017 37	STOR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	12321
9/14/2017 37	STOR	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	12322
9/14/2017 37	STOR	*Verbascum*	sp.		Native bee	*Xylocopa*	sp.	12323

9/14/2017	37	STOR	*Penstemon*	sp.		Native bee	*Halictus*	sp.	12326
9/14/2017	37	STOR	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	12327
9/14/2017	37	STOR	*Salvia*	sp.		Native bee	*Halictus*	sp.	12328
9/14/2017	37	STOR	*Rosa*	sp.		Native bee	*Halictus*	sp.	12330
9/14/2017	37	STOR	*Epilobium*	sp.		Native bee	*Xylocopa*	sp.	12332
9/14/2017	37	STOR	*Verbena*	sp.		Native bee	*Anthophora*	sp.	12334
9/14/2017	37	STOR	*Convovulus*	sp.		Native bee	*Agapostemon*	sp.	12335
9/14/2017	37	STOR	*Bulbine*	sp.		Native bee	*Megachile*	sp.	12339
9/14/2017	37	STOR	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	12341
9/14/2017	37	STOR	*Bulbine*	sp.		Native bee	*Halictus*	sp.	12343
9/14/2017	37	STOR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	12344
9/14/2017	37	STOR	*Thymus*	sp.		Native bee	*Megachile*	sp.	12345
9/14/2017	37	STOR	*Thymus*	sp.		Honey bee	*Apis*	*melifera*	12346
9/14/2017	37	STOR	*Salvia*	sp.		Native bee	*Lasioglossum*	sp.	12348
9/14/2017	37	STOR	*Tulbaghia*	sp.		Honey bee	*Apis*	*melifera*	12350
9/14/2017	37	STOR	*Tulbaghia*	sp.		Native bee	*Andrena*	sp.	12351
9/14/2017	37	STOR	*Salvia*	sp.		Native bee	*Halictus*	sp.	12352
9/14/2017	37	STOR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	12353
9/14/2017	37	STOR	*Tulbaghia*	sp.		Native bee	*Megachile*	sp.	12354
9/14/2017	37	STOR	*Tulbaghia*	sp.		Native bee	*Lasioglossum*	sp.	12355
9/14/2017	37	STOR	*Tulbaghia*	sp.		Native bee	*Hylaeus*	sp.	12356
9/14/2017	37	STOR	*Verbena*	sp.		Honey bee	*Apis*	*melifera*	12360
9/14/2017	37	STOR	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	12361
9/14/2017	37	STOR	*Salvia*	sp.		Native bee	*Megachile*	sp.	12362
9/14/2017	37	STOR	*Rosmarinus*	*officinalis*		Native bee	*Andrena*	sp.	12363
9/14/2017	37	STOR	*Lagerstroemia*	sp.		Native bee	*Halictus*	sp.	12364
9/14/2017	37	STOR	*Lagerstroemia*	sp.		Honey bee	*Apis*	*melifera*	12365
9/14/2017	37	STOR	*Chilopsis*	*linearis*		Native bee	*Halictus*	sp.	12366
9/14/2017	37	STOR	*Rosmarinus*	*officinalis*		Native bee	*Halictus*	sp.	12367
9/14/2017	37	STOR	*Veronica*	sp.		Honey bee	*Apis*	*melifera*	12368
9/14/2017	37	STOR	*Buddleja*	sp.		Honey bee	*Apis*	*melifera*	12369
9/14/2017	37	STOR	*Ceratostigma*	*plumbaginoides*		Honey bee	*Apis*	*melifera*	12370
9/14/2017	37	STOR	*Ceratostigma*	*plumbaginoides*		Native bee	*Halictus*	sp.	12371
9/14/2017	37	STOR	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	12372
9/14/2017	37	STOR	*Gaura*	*lindheimeri*		Native bee	*Agapostemon*	sp.	12373
9/14/2017	37	STOR	*Gaura*	*lindheimeri*		Native bee	*Halictus*	sp.	12375
9/14/2017	37	STOR	*Rhodophiala*	*bifida*		Native bee	*Halictus*	sp.	12377
9/14/2017	37	STOR	*Glaucium*	sp.		Native bee	*Halictus*	sp.	12378
9/14/2017	37	STOR	*Veronica*	sp.		Native bee	*Agapostemon*	sp.	12379
9/14/2017	37	STOR	*Nolina*	sp.		Honey bee	*Apis*	*melifera*	12383
9/14/2017	37	STOR	*Aster*	sp.		Native bee	*Halictus*	sp.	12381
9/14/2017	37	STOR	*Aster*	sp.		Honey bee	*Apis*	*melifera*	12382
9/14/2017	37	STOR	*Tulbaghia*	sp.		Native bee	*Andrena*	sp.	12385
9/14/2017	37	STOR	*Penstemon*	sp.		Native bee	*Hylaeus*	sp.	12387
9/14/2017	37	EASI	*Zephyranthes*	sp.		Native bee	*Lasioglossum*	sp.	12389
9/14/2017	37	EASI	*Agastache*	sp.		Native bee	*Halictus*	sp.	12390
9/14/2017	37	EASI	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	12392
9/14/2017	37	EASI	*Echinacea*	sp.		Native bee	*Halictus*	sp.	12393
9/14/2017	37	EASI	*Aster*	sp.		Native bee	*Halictus*	sp.	12394
9/14/2017	37	EASI	*Erigeron*	*karvinskianus*		Native bee	*Andrena*	sp.	12395
9/14/2017	37	EASI	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	12396
9/14/2017	37	EASI	*Delosperma*	sp.		Native bee	*Lasioglossum*	sp.	12397
9/14/2017	37	EASI	*Delosperma*	sp.		Native bee	*Halictus*	sp.	2397b
9/14/2017	37	EASI	*Erigeron*		'Wayne Roderick'	Native bee	*Lasioglossum*	sp.	12398
9/14/2017	37	EASI	*Erigeron*		'Wayne Roderick'	Native bee	*Halictus*	sp.	12399
9/14/2017	37	EASI	*Bahiopsis*	*parishii*		Native bee	*Andrena*	sp.	12402
9/14/2017	37	EASI	*Hesperaloe*	*parvifolia*		Native bee	*Halictus*	sp.	12403
9/14/2017	37	EASI	*Bulbine*	sp.		Native bee	*Halictus*	sp.	12405
9/14/2017	37	EASI	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	12406
9/14/2017	37	EASI	*Leucophyllum*	sp.		Honey bee	*Apis*	*melifera*	12407
9/14/2017	37	EASI	*Sedum*	sp.		Honey bee	*Apis*	*melifera*	12408
9/14/2017	37	EASI	*Solidago*	sp.		Honey bee	*Apis*	*melifera*	12409
9/14/2017	37	EASI	*Solidago*	sp.		Native bee	*Halictus*	sp.	12410
9/14/2017	37	EASI	*Sedum*	sp.		Native bee	*Lasioglossum*	sp.	12411
9/14/2017	37	EASI	*Sedum*	sp.		Native bee	*Megachile*	sp.	12412
9/14/2017	37	EASI	*Bulbine*	sp.		Native bee	*Megachile*	sp.	12413
9/14/2017	37	EASI	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	12414
9/14/2017	37	EASI	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	12415
9/14/2017	37	EASI	*Aster*	sp.		Honey bee	*Apis*	*melifera*	12416
9/14/2017	37	EASI	*Salvia*	sp.		Native bee	*Anthidium*	sp.	12417
9/14/2017	37	EASI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	12418
9/14/2017	37	EASI	*Rosmarinus*	*officinalis*		Native bee	*Halictus*	sp.	12419
9/14/2017	37	EASI	*Rosmarinus*	*officinalis*		Native bee	*Agapostemon*	sp.	12422
9/14/2017	37	EASI	*Rosmarinus*	*officinalis*		Native bee	*Andrena*	sp.	12423
9/14/2017	37	EASI	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	12424
9/14/2017	37	EASI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	12425
9/14/2017	37	EASI	*Lavandula*	sp.		Native bee	*Anthidium*	sp.	12427
9/14/2017	37	SOAF	*Euryops*	*pectinatus*		Native bee	*Halictus*	sp.	12428
9/14/2017	37	SOAF	*Leonotis*	sp.		Honey bee	*Apis*	*melifera*	12430
9/14/2017	37	SOAF	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	12431

9/14/2017	37	SOAF	*Euryops*	*pectinatus*		Native bee	*Andrena*	sp.	12433	
9/14/2017	37	MEDI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	12434	
9/14/2017	37	MEDI	*Rosmarinus*	*officinalis*		Native bee	*Andrena*	sp.	12436	
9/14/2017	37	MEDI	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	12437	
9/14/2017	37	MEDI	*Vitex*	sp.		Native bee	*Xylocopa*	sp.	12439	
9/14/2017	37	MEDI	*Vitex*	sp.		Native bee	*Andrena*	sp.	12440	
9/14/2017	37	MEDI	*Brassica*	sp.		Native bee	*Andrena*	sp.	12444	
9/14/2017	37	MEDI	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	12445	
9/14/2017	37	MEDI	*Perovskia*	sp.		Native bee	*Lasioglossum*	sp.	12446	
9/14/2017	37	MEDI	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	12447	
9/14/2017	37	MEDI	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	12449	
9/14/2017	37	MEDI	*Salvia*	sp.		Native bee	*Anthidium*	sp.	12450	
9/14/2017	37	MEDI	*Salvia*	sp.		Native bee	*Halictus*	sp.	12451	
9/14/2017	37	LODG	*Veronica*	sp.		Honey bee	*Apis*	*melifera*	12452	
9/14/2017	37	LODG	*Veronica*	sp.		Native bee	*Lasioglossum*	sp.	12453	
9/14/2017	37	LODG	*Veronica*	sp.		Native bee	*Agapostemon*	sp.	12455	
9/14/2017	37	LODG	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	12456	
9/14/2017	37	LODG	*Gaura*	*lindheimeri*		Native bee	*Agapostemon*	sp.	12457	
9/14/2017	37	LODG	*Hemerocallis*	sp.		Native bee	*Lasioglossum*	sp.	12459	
9/14/2017	37	LODG	*Chitalpa*	sp.		Honey bee	*Apis*	*melifera*	12460	
9/14/2017	37	BOAT	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	12461	
9/14/2017	37	BOAT	*Solidago*	sp.		Honey bee	*Apis*	*melifera*	12462	
9/14/2017	37	BOAT	*Salvia*	sp.		Native bee	*Halictus*	sp.	12464	
9/14/2017	37	BOAT	*Solidago*	sp.		Native bee	*Lasioglossum*	sp.	12466	
9/14/2017	37	BOAT	*Penstemon*	sp.		Native bee	*Lasioglossum*	sp.	12469	
9/14/2017	37	BOAT	*Aloysia*	*citriodora*		Honey bee	*Apis*	*melifera*	12470	
9/14/2017	37	COMM	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	12473	
9/14/2017	37	COTT	*Lagerstroemia*	sp.		Native bee	*Halictus*	sp.	12474	
9/14/2017	37	COTT	*Centaurea*	*solstitialis*		Honey bee	*Apis*	*melifera*	12477	
9/14/2017	37	COTT	*Centaurea*	*solstitialis*		Native bee	*Andrena*	sp.	12479	
9/14/2017	37	YOLO	*Brassica*	sp.		Honey bee	*Apis*	*melifera*	12480	
9/14/2017	37	YOLO	*Brassica*	sp.		Native bee	*Andrena*	sp.	12481	
9/20/2017	38	AUST_N	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	12482	
9/20/2017	38	AUST_N	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	12483	
9/20/2017	38	AUST_N	*Westringia*	sp.		Native bee	*Agapostemon*	sp.	12484	
9/20/2017	38	AUST_N	*Westringia*	sp.		Native bee	*Anthidium*	sp.	12485	
9/20/2017	38	AUST_N	*Westringia*	sp.		Native bee	*Andrena*	sp.	12488	
9/20/2017	38	AUST_N	*Oxalis*	sp.		Honey bee	*Apis*	*melifera*	12489	
9/20/2017	38	AUST_N	*Westringia*	sp.		Honey bee	*Apis*	*melifera*	12490	
9/20/2017	38	AUST_S	*Convovulus*	sp.		Honey bee	*Apis*	*melifera*	12491	
9/20/2017	38	AUST_S	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	12493	
9/20/2017	38	AUST_S	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	12494	
9/20/2017	38	AUST_S	*Westringia*	sp.		Native bee	*Andrena*	sp.	12496	
9/20/2017	38	AUST_S	*Westringia*	sp.		Native bee	*Anthidium*	sp.	12499	
9/20/2017	38	AUST_S	*Westringia*	sp.		Native bee	*Anthophora*	sp.	12500	
9/20/2017	38	AUST_S	*Westringia*	sp.		Native bee	*Agapostemon*	sp.	12501	
9/20/2017	38	AUST_S	*Westringia*	sp.		Honey bee	*Apis*	*melifera*	12502	
9/20/2017	38	AUST_S	*Parkinsonia*	sp.		Honey bee	*Apis*	*melifera*	12503	
9/20/2017	38	GATE	*Aster*	sp.		Native bee	*Agapostemon*	sp.	12504	
9/20/2017	38	GATE	*Aster*	sp.		Honey bee	*Apis*	*melifera*	12506	
9/20/2017	38	GATE	*Aster*	sp.		Native bee	*Halictus*	sp.	12508	
9/20/2017	38	GATE	*Aster*	sp.		Native bee	*Andrena*	sp.	12509	
9/20/2017	38	GATE	*Grindelia*	*camporum*		Native bee	*Halictus*	sp.	12510	
9/20/2017	38	GATE	*Grindelia*	*camporum*		Native bee	*Andrena*	sp.	12512	
9/20/2017	38	GATE	*Grindelia*	*camporum*		Native bee	*Svastra*	sp.	12514	
9/20/2017	38	GATE	*Madia*	sp.		Native bee	*Melissodes*	sp.	12515	COLLECTED
9/20/2017	38	GATE	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	12519	
9/20/2017	38	A_ST	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	12521	
9/20/2017	38	REDW	*Heliotropium*	*curassavicum*		Native bee	*Andrena*	sp.	12522	
9/20/2017	38	MWB	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	12524	
9/20/2017	38	MWB	*Aster*	sp.		Native bee	*Halictus*	sp.	12525	
9/20/2017	38	MWB	*Eriogonum*	sp.		Native bee	*Lasioglossum*	sp.	12527	
9/20/2017	38	MWB	*Eschscholzia*	*californica*		Native bee	*Agapostemon*	sp.	12528	
9/20/2017	38	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Halictus*	sp.	12530	
9/20/2017	38	MWB	*Eriogonum*	sp.		Native bee	*Agapostemon*	sp.	12531	
9/20/2017	38	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Andrena*	sp.	12532	
9/20/2017	38	MWB	*Solidago*	sp.		Native bee	*Halictus*	sp.	12533	
9/20/2017	38	MWB	*Aster*	sp.		Native bee	*Agapostemon*	sp.	12534	
9/20/2017	38	MWB	*Baccharis*	sp.		Native bee	*Halictus*	sp.	12535	
9/20/2017	38	MWB	*Datura*	sp.		Honey bee	*Apis*	*melifera*	12536	
9/20/2017	38	MWB	*Horkelia*	sp.		Native bee	*Lasioglossum*	sp.	12541	
9/20/2017	38	MWB	*Phacelia*	sp.		Native bee	*Agapostemon*	sp.	12543	
9/20/2017	38	MWB	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	12544	
9/20/2017	38	MWB	*Eriogonum*	sp.		Native bee	*Megachile*	sp.	12545	
9/20/2017	38	MWB	*Datura*	sp.		Native bee	*Hylaeus*	sp.	12546	
9/20/2017	38	MWB	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	12547	
9/20/2017	38	MWB	*Dendromecon*	sp.		Native bee	*Agapostemon*	sp.	12548	
9/20/2017	38	MWB	*Heliotropium*	*curassavicum*		Native bee	*Lasioglossum*	sp.	12550	
9/20/2017	38	MWB	*Heliotropium*	*curassavicum*		Native bee	*Halictus*	sp.	12552	
9/20/2017	38	MWB	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	12553	

9/20/2017	38	MWB	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	12555
9/20/2017	38	FOOT	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	12556
9/20/2017	38	FOOT	*Epilobium*	sp.		Native bee	*Halictus*	sp.	12557
9/20/2017	38	FOOT	*Eriogonum*	sp.		Native bee	*Agapostemon*	sp.	12558
9/20/2017	38	FOOT	*Baccharis*	sp.		Native bee	*Agapostemon*	sp.	12561
9/20/2017	38	FOOT	*Baccharis*	sp.		Native bee	*Andrena*	sp.	12562
9/20/2017	38	FOOT	*Baccharis*	sp.		Native bee	*Halictus*	sp.	12563
9/20/2017	38	ENTR	*Euryops*	*pectinatus*		Native bee	*Andrena*	sp.	12565
9/20/2017	38	ENTR	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	12566
9/20/2017	38	ENTR	*Vitex*	sp.		Native bee	*Agapostemon*	sp.	12568
9/20/2017	38	ENTR	*Vitex*	sp.		Native bee	*Melissodes*	sp.	12569
9/20/2017	38	ENTR	*Euryops*	*pectinatus*		Native bee	*Halictus*	sp.	12571
9/20/2017	38	ENTR	*Rosmarinus*	*officinalis*		Native bee	*Halictus*	sp.	12572
9/20/2017	38	ENTR	*Rosmarinus*	*officinalis*		Native bee	*Andrena*	sp.	12573
9/20/2017	38	ENTR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	12575
9/20/2017	38	ENTR	*Perovskia*	sp.		Native bee	*Agapostemon*	sp.	12576
9/20/2017	38	ENTR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	12581
9/20/2017	38	ENTR	*Perovskia*	sp.		Native bee	*Halictus*	sp.	12582
9/20/2017	38	ENTR	*Vitex*	sp.		Native bee	*Xylocopa*	sp.	12586
9/20/2017	38	ENTR	*Salvia*	sp.		Native bee	*Anthidium*	sp.	12591
9/20/2017	38	ACAC	*Acacia*	*stenophylla*		Honey bee	*Apis*	*melifera*	12594
9/20/2017	38	LODG	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	12595
9/20/2017	38	LODG	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	12596
9/20/2017	38	LODG	*Salvia*	sp.		Native bee	*Agapostemon*	sp.	12597
9/20/2017	38	LODG	*Salvia*	sp.		Native bee	*Andrena*	sp.	12598
9/20/2017	38	LODG	*Salvia*	sp.		Native bee	*Lasioglossum*	sp.	12601
9/20/2017	38	LODG	*Gaura*	*lindheimeri*		Native bee	*Agapostemon*	sp.	12603
9/20/2017	38	LODG	*Trifolium*	sp.		Native bee	*Agapostemon*	sp.	12604
9/20/2017	38	BOAT	*Solidago*	sp.		Honey bee	*Apis*	*melifera*	12605
9/20/2017	38	BOAT	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	12606
9/20/2017	38	BOAT	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	12608
9/20/2017	38	BOAT	*Aloysia*	*citriodora*		Honey bee	*Apis*	*melifera*	12610
9/20/2017	38	COMM	*Rosmarinus*	*officinalis*		Native bee	*Agapostemon*	sp.	12612
9/20/2017	38	COMM	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	12614
9/20/2017	38	COMM	*Rosmarinus*	*officinalis*		Native bee	*Andrena*	sp.	12616
9/20/2017	38	COMM	*Rosmarinus*	*officinalis*		Native bee	*Halictus*	sp.	12617
9/20/2017	38	COTT	*Lagerstroemia*	sp.		Honey bee	*Apis*	*melifera*	12618
9/20/2017	38	YOLO	*Brassica*	sp.		Native bee	*Lasioglossum*	sp.	12620
9/20/2017	38	YOLO	*Brassica*	sp.		Native bee	*Andrena*	sp.	12621
9/20/2017	38	GAZE	*Aloysia*	*citriodora*		Honey bee	*Apis*	*melifera*	12622
9/20/2017	38	GAZE	*Aloysia*	*citriodora*		Native bee	*Xylocopa*	sp.	12627
9/20/2017	38	GAZE	*Hibiscus*	sp.		Honey bee	*Apis*	*melifera*	12628
9/20/2017	38	GAZE	*Ruellia*	sp.		Native bee	*Hylaeus*	sp.	12629
9/20/2017	38	GAZE	*Ruellia*	sp.		Native bee	*Halictus*	sp.	12632
9/20/2017	38	GAZE	*Duranta*	*erecta*	'Alba'	Honey bee	*Apis*	*melifera*	12635
9/20/2017	38	STOR	*Koelreuteria*	*bipinnata*		Honey bee	*Apis*	*melifera*	12636
9/20/2017	38	STOR	*Epilobium*	sp.		Native bee	*Xylocopa*	sp.	12637
9/20/2017	38	STOR	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	12638
9/20/2017	38	STOR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	12640
9/20/2017	38	STOR	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	12642
9/20/2017	38	STOR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	12643
9/20/2017	38	STOR	*Perovskia*	sp.		Native bee	*Megachile*	sp.	12644
9/20/2017	38	STOR	*Thymus*	*capitatus*		Honey bee	*Apis*	*melifera*	12645
9/20/2017	38	STOR	*Tulbaghia*	sp.		Native bee	*Andrena*	sp.	12647
9/20/2017	38	STOR	*Tulbaghia*	sp.		Honey bee	*Apis*	*melifera*	12646
9/20/2017	38	STOR	*Tulbaghia*	sp.		Native bee	*Hylaeus*	sp.	12649
9/20/2017	38	STOR	*Tulbaghia*	sp.		Native bee	*Halictus*	sp.	12650
9/20/2017	38	STOR	*Scabiosa*	sp.		Honey bee	*Apis*	*melifera*	12651
9/20/2017	38	STOR	*Gaura*	*lindheimeri*		Native bee	*Anthidium*	sp.	12652
9/20/2017	38	STOR	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	12653
9/20/2017	38	STOR	*Gaura*	*lindheimeri*		Native bee	*Halictus*	sp.	12654
9/20/2017	38	STOR	*Gaura*	*lindheimeri*		Native bee	*Halictus*	sp.	12655
9/20/2017	38	STOR	*Salvia*	sp.		Native bee	*Halictus*	sp.	12657
9/20/2017	38	STOR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	12658
9/20/2017	38	STOR	*Rosmarinus*	*officinalis*		Native bee	*Andrena*	sp.	12659
9/20/2017	38	STOR	*Lagerstroemia*	sp.		Honey bee	*Apis*	*melifera*	12661
9/20/2017	38	STOR	*Lagerstroemia*	sp.		Native bee	*Halictus*	sp.	12662
9/20/2017	38	STOR	*Scabiosa*	sp.		Native bee	*Halictus*	sp.	12663
9/20/2017	38	STOR	*Scabiosa*	sp.		Native bee	*Agapostemon*	sp.	12663b
9/20/2017	38	STOR	*Veronica*	sp.		Honey bee	*Apis*	*melifera*	12664
9/20/2017	38	STOR	*Perovskia*	sp.		Native bee	*Hylaeus*	sp.	12665
9/20/2017	38	STOR	*Yucca*	sp.		Honey bee	*Apis*	*melifera*	12666
9/20/2017	38	STOR	*Aster*	sp.		Honey bee	*Apis*	*melifera*	12668
9/20/2017	38	STOR	*Erigeron*	*karvinskianus*		Native bee	*Halictus*	sp.	12669
9/20/2017	38	STOR	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	12671
9/20/2017	38	STOR	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	12675
9/20/2017	38	STOR	*Verbena*	sp.		Honey bee	*Apis*	*melifera*	12676
9/20/2017	38	STOR	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	12677
9/20/2017	38	STOR	*Rosa*	sp.		Native bee	*Halictus*	sp.	12678
9/20/2017	38	STOR	*Aster*	sp.		Native bee	*Halictus*	sp.	12679

9/20/2017	38	STOR	*Aster*	sp.		Native bee	*Andrena*	sp.	12681
9/20/2017	38	STOR	*Aster*	sp.		Native bee	*Agapostemon*	sp.	12682
9/20/2017	38	STOR	*Teucrium*	sp.		Honey bee	*Apis*	*melifera*	12683
9/20/2017	38	STOR	*Leucophyllum*	sp.		Honey bee	*Apis*	*melifera*	12684
9/20/2017	38	STOR	*Leucophyllum*	sp.		Native bee	*Halictus*	sp.	12685
9/20/2017	38	STOR	*Senna*	sp.		Honey bee	*Apis*	*melifera*	12686
9/20/2017	38	EASI	*Erigeron*	*karvinskianus*		Native bee	*Lasioglossum*	sp.	12687
9/20/2017	38	EASI	*Echinacea*	sp.		Native bee	*Halictus*	sp.	12689
9/20/2017	38	EASI	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	12690
9/20/2017	38	EASI	*Erigeron*		'Wayne Roderick'	Native bee	*Andrena*	sp.	12692
9/20/2017	38	EASI	*Erigeron*		'Wayne Roderick'	Native bee	*Halictus*	sp.	12693
9/20/2017	38	EASI	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	12695
9/20/2017	38	EASI	*Bahiopsis*	*parishii*		Native bee	*Andrena*	sp.	12696
9/20/2017	38	EASI	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	12697
9/20/2017	38	EASI	*Sedum*	sp.		Honey bee	*Apis*	*melifera*	12698
9/20/2017	38	EASI	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	12699
9/20/2017	38	EASI	*Aster*	sp.		Honey bee	*Apis*	*melifera*	12700
9/20/2017	38	EASI	*Aster*	sp.		Native bee	*Halictus*	sp.	12701
9/20/2017	38	EASI	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	12702
9/20/2017	38	EASI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	12705
9/20/2017	38	EASI	*Rosmarinus*	*officinalis*		Native bee	*Andrena*	sp.	12706
9/20/2017	38	EASI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	12708
9/20/2017	38	EASI	*Rosmarinus*	*officinalis*		Native bee	*Halictus*	sp.	12709
9/20/2017	38	EASI	*Rosmarinus*	*officinalis*		Native bee	*Agapostemon*	sp.	12710
9/20/2017	38	EASI	*Buddleja*	*davidii*		Honey bee	*Apis*	*melifera*	12711
9/20/2017	38	EASI	*Lavandula*	sp.		Native bee	*Anthophora*	sp.	12717
9/20/2017	38	SOAF	*Euryops*	*pectinatus*		Native bee	*Halictus*	sp.	12723
9/20/2017	38	MEDI	*Rosmarinus*	*officinalis*		Native bee	*Agapostemon*	sp.	12727
9/20/2017	38	MEDI	*Rosmarinus*	*officinalis*		Native bee	*Halictus*	sp.	12728
9/20/2017	38	MEDI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	12729
9/20/2017	38	MEDI	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	12730
9/20/2017	38	MEDI	*Vitex*	sp.		Native bee	*Xylocopa*	sp.	12732
9/20/2017	38	MEDI	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	12733
9/20/2017	38	MEDI	*Nepeta*	sp.		Honey bee	*Apis*	*melifera*	12734
9/20/2017	38	MEDI	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	12736
9/20/2017	38	ARGE	*Erythrina*	*crista galli*		Honey bee	*Apis*	*melifera*	12737
9/20/2017	38	ARGE	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	12738
9/20/2017	38	SWUS	*Leucophyllum*	sp.		Honey bee	*Apis*	*melifera*	12740
9/20/2017	38	SWUS	*Tecoma*	sp.		Native bee	*Xylocopa*	sp.	12741
9/20/2017	38	SWUS	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	12742
9/20/2017	38	SWUS	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	12743
9/20/2017	38	SWUS	*Tecoma*	sp.		Honey bee	*Apis*	*melifera*	12748
9/20/2017	38	SWUS	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	12749
9/20/2017	38	SWUS	*Chitalpa*	sp.		Honey bee	*Apis*	*melifera*	12750
9/20/2017	38	SWUS	*Leucophyllum*	sp.		Native bee	*Halictus*	sp.	12751
9/20/2017	38	SWUS	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	12752
9/20/2017	38	CONI	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	12753
9/20/2017	38	CONI	*Eriogonum*	sp.		Native bee	*Agapostemon*	sp.	12754
9/20/2017	38	CONI	*Ruellia*	sp.		Honey bee	*Apis*	*melifera*	12755
9/20/2017	38	CONI	*Mentha*	sp.		Honey bee	*Apis*	*melifera*	12756
9/20/2017	38	CONI	*Mentha*	sp.		Native bee	*Halictus*	sp.	12757
9/20/2017	38	CONI	*Mentha*	sp.		Native bee	*Agapostemon*	sp.	12758
9/20/2017	38	CONI	*Limonium*	sp.		Native bee	*Agapostemon*	sp.	12759
9/20/2017	38	CONI	*Limonium*	sp.		Native bee	*Halictus*	sp.	12760
9/20/2017	38	REDB	*Cercis*	*occidentalis*		Honey bee	*Apis*	*melifera*	12762
9/20/2017	38	DESE	*Chilopsis*	*linearis*		Honey bee	*Apis*	*melifera*	12763
9/20/2017	38	DESE	*Larrea*	sp.		Honey bee	*Apis*	*melifera*	12764
9/20/2017	38	DESE	*Baileya*	*multiradiata*		Native bee	*Halictus*	sp.	12767
9/20/2017	38	DESE	*Baileya*	*multiradiata*		Native bee	*Diadasia*	sp.	12774
9/20/2017	38	DESE	*Sphaeralcea*	sp.		Native bee	*Agapostemon*	sp.	12776
9/20/2017	38	MRAK	*Apentia*		'Red Apple'	Honey bee	*Apis*	*melifera*	12777
9/20/2017	38	MRAK	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	12778
9/20/2017	38	MRAK	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	12779
9/20/2017	38	MRAK	*Abelia*	sp.		Honey bee	*Apis*	*melifera*	12781
9/29/2017	39	AUST_N	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	12972
9/29/2017	39	AUST_N	*Westringia*	sp.		Honey bee	*Apis*	*melifera*	12973
9/29/2017	39	AUST_N	*Westringia*	sp.		Native bee	*Andrena*	sp.	12974
9/29/2017	39	AUST_N	*Westringia*	sp.		Native bee	*Agapostemon*	sp.	12975
9/29/2017	39	AUST_N	*Oxalis*	sp.		Native bee	*Andrena*	sp.	12977
9/29/2017	39	AUST_N	*Westringia*	sp.		Native bee	*Halictus*	sp.	12978
9/29/2017	39	AUST_S	*Eremophila*	*maculata*		Native bee	*Xylocopa*	sp.	12980
9/29/2017	39	AUST_S	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	12983
9/29/2017	39	AUST_S	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	12984
9/29/2017	39	AUST_S	*Grevillea*	sp.		Native bee	*Anthidium*	sp.	12985
9/29/2017	39	AUST_S	*Westringia*	sp.		Honey bee	*Apis*	*melifera*	12986
9/29/2017	39	AUST_S	*Westringia*	sp.		Native bee	*Andrena*	sp.	12987
9/29/2017	39	AUST_S	*Parkinsonia*	sp.		Native bee	*Xylocopa*	sp.	12989
9/29/2017	39	AUST_S	*Parkinsonia*	sp.		Honey bee	*Apis*	*melifera*	12990
9/29/2017	39	ERIC_S	*Kickxia*	*elatine*		Native bee	*Andrena*	sp.	12993
9/29/2017	39	ERIC_S	*Datura*	sp.		Native bee	*Lasioglossum*	sp.	12995

9/29/2017	39	AUST_S	*Tipuana*	*tipu*		Native bee	*Xylocopa*	sp.	12996
9/29/2017	39	AUST_S	*Tipuana*	*tipu*		Honey bee	*Apis*	*melifera*	12997
9/29/2017	39	AUST_S	*Koelreuteria*	*formosana*		Honey bee	*Apis*	*melifera*	12999
9/29/2017	39	GATE	*Aster*	sp.		Native bee	*Halictus*	sp.	13000
9/29/2017	39	GATE	*Aster*	sp.		Honey bee	*Apis*	*melifera*	13001
9/29/2017	39	GATE	*Grindelia*	sp.		Native bee	*Agapostemon*	sp.	13006
9/29/2017	39	GATE	*Grindelia*	sp.		Native bee	*Halictus*	sp.	13003
9/29/2017	39	GATE	*Grindelia*	sp.		Native bee	*Megachile*	sp.	13007
9/29/2017	39	GATE	*Madia*	sp.		Native bee	*Agapostemon*	sp.	13009
9/29/2017	39	GATE	*Madia*	sp.		Native bee	*Halictus*	sp.	13011
9/29/2017	39	A_ST	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	13012
9/29/2017	39	REDW	*Heliotropium*	*curassavicum*		Native bee	*Andrena*	sp.	13014
9/29/2017	39	REDW	*Achillea*	sp.		Native bee	*Halictus*	sp.	13017
9/29/2017	39	MWB	*Solidago*	sp.		Native bee	*Halictus*	sp.	13018
9/29/2017	39	MWB	*Aster*	sp.		Honey bee	*Apis*	*melifera*	13020
9/29/2017	39	MWB	*Aster*	sp.		Native bee	*Halictus*	sp.	13021
9/29/2017	39	MWB	*Epilobium*	sp.		Native bee	*Halictus*	sp.	13023
9/29/2017	39	MWB	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	13024
9/29/2017	39	MWB	*Baccharis*	sp.		Native bee	*Halictus*	sp.	13026
9/29/2017	39	MWB	*Baccharis*	sp.		Native bee	*Andrena*	sp.	13027
9/29/2017	39	MWB	*Monarda*	sp.		Bumble bee	*Bombus*	sp.	13030
9/29/2017	39	MWB	*Aster*	sp.		Honey bee	*Apis*	*melifera*	13032
9/29/2017	39	MWB	*Epilobium*	sp.		Native bee	*Xylocopa*	sp.	13033
9/29/2017	39	MWB	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	13034
9/29/2017	39	MWB	*Eriogonum*	sp.		Native bee	*Agapostemon*	sp.	13037
9/29/2017	39	MWB	*Isomeris*	*arborea*		Native bee	*Hylaeus*	sp.	13038
9/29/2017	39	MWB	*Datura*	sp.		Honey bee	*Apis*	*melifera*	13039
9/29/2017	39	MWB	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	13040
9/29/2017	39	MWB	*Grindelia*	sp.		Native bee	*Halictus*	sp.	13041
9/29/2017	39	MWB	*Aster*	sp.		Native bee	*Andrena*	sp.	13042
9/29/2017	39	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Halictus*	sp.	13043
9/29/2017	39	MWB	*Grindelia*	sp.		Native bee	*Andrena*	sp.	13045
9/29/2017	39	GAZE	*Osmanthus*	*x fortuneii*		Honey bee	*Apis*	*melifera*	13047
9/29/2017	39	GAZE	*Aloysia*	*citriodora*		Native bee	*Halictus*	sp.	13049
9/29/2017	39	GAZE	*Aloysia*	*citriodora*		Honey bee	*Apis*	*melifera*	13050
9/29/2017	39	GAZE	*Hibiscus*	sp.		Honey bee	*Apis*	*melifera*	13051
9/29/2017	39	GAZE	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	13053
9/29/2017	39	GAZE	*Datura*	*erecta*	'Alba'	Honey bee	*Apis*	*melifera*	13055
9/29/2017	39	GAZE	*Hibiscus*	sp.		Native bee	*Xylocopa*	sp.	13056
9/29/2017	39	STOR	*Koelreuteria*	*bipinnata*		Honey bee	*Apis*	*melifera*	13057
9/29/2017	39	STOR	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	13058
9/29/2017	39	STOR	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	13059
9/29/2017	39	STOR	*Epilobium*	sp.		Native bee	*Halictus*	sp.	13061
9/29/2017	39	STOR	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	13063
9/29/2017	39	STOR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	13064
9/29/2017	39	STOR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	13065
9/29/2017	39	STOR	*Salvia*	sp.		Native bee	*Halictus*	sp.	13066
9/29/2017	39	STOR	*Thymus*	sp.		Honey bee	*Apis*	*melifera*	13067
9/29/2017	39	STOR	*Tulbaghia*	sp.		Honey bee	*Apis*	*melifera*	13068
9/29/2017	39	STOR	*Tulbaghia*	sp.		Native bee	*Hylaeus*	sp.	13069
9/29/2017	39	STOR	*Tulbaghia*	sp.		Native bee	*Halictus*	sp.	13070
9/29/2017	39	STOR	*Tulbaghia*	sp.		Native bee	*Andrena*	sp.	13071
9/29/2017	39	STOR	*Scabiosa*	sp.		Honey bee	*Apis*	*melifera*	13072
9/29/2017	39	STOR	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	13073
9/29/2017	39	STOR	*Scabiosa*	sp.		Native bee	*Agapostemon*	sp.	13074
9/29/2017	39	STOR	*Rosmarinus*	*officinalis*		Native bee	*Halictus*	sp.	13075
9/29/2017	39	STOR	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	13076
9/29/2017	39	STOR	*Ceratostigma*	*plumbaginoides*		Honey bee	*Apis*	*melifera*	13077
9/29/2017	39	STOR	*Aster*	sp.		Native bee	*Halictus*	sp.	13078
9/29/2017	39	STOR	*Leucophyllum*	sp.		Honey bee	*Apis*	*melifera*	13079
9/29/2017	39	STOR	*Gaura*	*lindheimeri*		Native bee	*Halictus*	sp.	13081
9/29/2017	39	STOR	*Veronica*	sp.		Honey bee	*Apis*	*melifera*	13083
9/29/2017	39	STOR	*Aster*	sp.		Honey bee	*Apis*	*melifera*	13084
9/29/2017	39	STOR	*Yucca*	sp.		Honey bee	*Apis*	*melifera*	13085
9/29/2017	39	EASI	*Echinacea*	sp.		Native bee	*Halictus*	sp.	13088
9/29/2017	39	EASI	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	13089
9/29/2017	39	EASI	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	13090
9/29/2017	39	EASI	*Aster*	sp.		Native bee	*Halictus*	sp.	13091
9/29/2017	39	EASI	*Aster*	sp.		Native bee	*Andrena*	sp.	13092
9/29/2017	39	EASI	*Salvia*	sp.		Native bee	*Andrena*	sp.	13094
9/29/2017	39	EASI	*Bahiopsis*	*parishii*		Native bee	*Andrena*	sp.	13095
9/29/2017	39	EASI	*Bahiopsis*	*parishii*		Native bee	*Lasioglossum*	sp.	13097
9/29/2017	39	EASI	*Bahiopsis*	*parishii*		Native bee	*Halictus*	sp.	13098
9/29/2017	39	EASI	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	13099
9/29/2017	39	EASI	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	13100
9/29/2017	39	EASI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	13102
9/29/2017	39	EASI	*Rosmarinus*	*officinalis*		Native bee	*Halictus*	sp.	13103
9/29/2017	39	EASI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	13104
9/29/2017	39	EASI	*Rosmarinus*	*officinalis*		Native bee	*Andrena*	sp.	13107
9/29/2017	39	EASI	*Erigeron*	*karvinskianus*		Native bee	*Lasioglossum*	sp.	13109

9/29/2017	39	SOAF	*Euryops*	*pectinatus*		Native bee	*Halictus*	sp.	13110
9/29/2017	39	SOAF	*Euryops*	*pectinatus*		Native bee	*Andrena*	sp.	13112
9/29/2017	39	SOAF	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	13114
9/29/2017	39	SOAF	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	13116
9/29/2017	39	SOAF	*Origanum*	sp.		Native bee	*Andrena*	sp.	13117
9/29/2017	39	MEDI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	13118
9/29/2017	39	MEDI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	13120
9/29/2017	39	MEDI	*Rosmarinus*	*officinalis*		Native bee	*Agapostemon*	sp.	13121
9/29/2017	39	MEDI	*Rosmarinus*	*officinalis*		Native bee	*Andrena*	sp.	13122
9/29/2017	39	MEDI	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	13124
9/29/2017	39	MEDI	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	13125
9/29/2017	39	MEDI	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	13126
9/29/2017	39	ARGE	*Calliandra*	sp.		Honey bee	*Apis*	*melifera*	13127
9/29/2017	39	ARGE	*Erythrina*	*crista galli*		Honey bee	*Apis*	*melifera*	13128
9/29/2017	39	SWUS	*Leucophyllum*	sp.		Native bee	*Andrena*	sp.	13130
9/29/2017	39	SWUS	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	13134
9/29/2017	39	SWUS	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	13135
9/29/2017	39	SWUS	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	13136
9/29/2017	39	SWUS	*Tecoma*	sp.		Native bee	*Xylocopa*	sp.	13137
9/29/2017	39	SWUS	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	13138
9/29/2017	39	SWUS	*Salvia*	sp.		Native bee	*Agapostemon*	sp.	13139
9/29/2017	39	SWUS	*Gaillardia*	sp.		Native bee	*Agapostemon*	sp.	13140
9/29/2017	39	SWUS	*Mimosa*	sp.		Honey bee	*Apis*	*melifera*	13141
9/29/2017	39	SWUS	*Leucophyllum*	sp.		Native bee	*Halictus*	sp.	13143
9/29/2017	39	SWUS	*Chitalpa*	sp.		Honey bee	*Apis*	*melifera*	13144
9/29/2017	39	CONI	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	13148
9/29/2017	39	CONI	*Eriogonum*	sp.		Native bee	*Agapostemon*	sp.	13146
9/29/2017	39	CONI	*Mentha*	sp.		Native bee	*Andrena*	sp.	13150
9/29/2017	39	CONI	*Ruellia*	sp.		Native bee	*Anthidium*	sp.	13152
9/29/2017	39	CONI	*Mentha*	sp.		Honey bee	*Apis*	*melifera*	13156
9/29/2017	39	CONI	*Mentha*	sp.		Native bee	*Halictus*	sp.	13157
9/29/2017	39	CONI	*Limonium*	sp.		Native bee	*Agapostemon*	sp.	13158
9/29/2017	39	DESE	*Baileya*	*multiradiata*		Native bee	*Andrena*	sp.	13164
9/29/2017	39	DESE	*Baileya*	*multiradiata*		Native bee	*Halictus*	sp.	13159
9/29/2017	39	DESE	*Encelia*	sp.		Native bee	*Andrena*	sp.	13165
9/29/2017	39	DESE	*Sphaeralcea*	sp.		Native bee	*Hylaeus*	sp.	13169
9/29/2017	39	DESE	*Sphaeralcea*	sp.		Native bee	*Halictus*	sp.	13170
9/29/2017	39	DESE	*Sphaeralcea*	sp.		Native bee	*Agapostemon*	sp.	13171
9/29/2017	39	MRAK	*Apentia*		'Red Apple'	Honey bee	*Apis*	*melifera*	13172
9/29/2017	39	MRAK	*Veronica*	sp.		Honey bee	*Apis*	*melifera*	13174
9/29/2017	39	MRAK	*Erigeron*	*karvinskianus*		Native bee	*Halictus*	sp.	13175
9/29/2017	39	MRAK	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	13176
9/29/2017	39	MRAK	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	13177
9/29/2017	39	MRAK	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	13179
9/29/2017	39	MRAK	*Gaillardia*	sp.		Native bee	*Melissodes*	sp.	13181
9/29/2017	39	MRAK	*Abelia*	sp.		Honey bee	*Apis*	*melifera*	13182
9/29/2017	39	MRAK	*Koelreuteria*	*bipinnata*		Honey bee	*Apis*	*melifera*	13184
9/29/2017	39	MRAK	*Mentha*	sp.		Native bee	*Agapostemon*	sp.	13189
9/29/2017	39	FOOT	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	13192
9/29/2017	39	FOOT	*Baccharis*	sp.		Native bee	*Halictus*	sp.	13193
9/29/2017	39	ENTR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	13194
9/29/2017	39	ENTR	*Euryops*	*pectinatus*		Native bee	*Andrena*	sp.	13195
9/29/2017	39	ENTR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	13196
9/29/2017	39	ENTR	*Veronica*	sp.		Native bee	*Agapostemon*	sp.	13197
9/29/2017	39	ENTR	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	13199
9/29/2017	39	ENTR	*Vitex*	sp.		Native bee	*Anthophora*	sp.	13204
9/29/2017	39	ENTR	*Perovskia*	sp.		Native bee	*Anthophora*	sp.	13205
9/29/2017	39	LODG	*Veronica*	sp.		Honey bee	*Apis*	*melifera*	13207
9/29/2017	39	LODG	*Veronica*	sp.		Native bee	*Agapostemon*	sp.	13211
9/29/2017	39	BOAT	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	13213
9/29/2017	39	BOAT	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	13214
9/29/2017	39	BOAT	*Thymus*	sp.		Honey bee	*Apis*	*melifera*	13215
9/29/2017	39	COMM	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	13216
9/29/2017	39	COMM	*Rosmarinus*	*officinalis*		Native bee	*Lasioglossum*	sp.	13217
9/29/2017	39	COTT	*Brassica*	sp.		Native bee	*Halictus*	sp.	13219
9/29/2017	39	COTT	*Lagerstroemia*	sp.		Honey bee	*Apis*	*melifera*	13320
10/4/2017	40	AUST_N	*Oxalis*	sp.		Honey bee	*Apis*	*melifera*	13222
10/4/2017	40	AUST_N	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	13223
10/4/2017	40	AUST_N	*Westringia*	sp.		Native bee	*Andrena*	sp.	13225
10/4/2017	40	AUST_S	*Sonchus*	sp.		Native bee	*Hylaeus*	sp.	13227
10/4/2017	40	AUST_S	*Koelreuteria*	*elegans*	ssp. *formosana*	Honey bee	*Apis*	*melifera*	13229
10/4/2017	40	AUST_S	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	13231
10/4/2017	40	AUST_S	*Vitex*	sp.		Native bee	*Anthophora*	sp.	13234
10/4/2017	40	AUST_S	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	13235
10/4/2017	40	AUST_S	*Grevillea*	sp.		Native bee	*Xylocopa*	sp.	13236
10/4/2017	40	AUST_S	*Westringia*	sp.		Honey bee	*Apis*	*melifera*	13237
10/4/2017	40	AUST_S	*Westringia*	sp.		Native bee	*Agapostemon*	sp.	13240
10/4/2017	40	AUST_S	*Westringia*	sp.		Native bee	*Andrena*	sp.	13241
10/4/2017	40	AUST_S	*Westringia*	sp.		Native bee	*Halictus*	sp.	13245
10/4/2017	40	AUST_S	*Parkinsonia*	sp.		Native bee	*Xylocopa*	sp.	13247

10/4/2017	40	AUST_S	*Parkinsonia*	sp.		Honey bee	*Apis*	*melifera*	13248
10/4/2017	40	AUST_S	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	13249
10/4/2017	40	ERIC_S	*Datura*	sp.		Native bee	*Agapostemon*	sp.	13250
10/4/2017	40	ERIC_S	*Datura*	sp.		Native bee	*Hylaeus*	sp.	13252
10/4/2017	40	GATE	*Aster*	sp.		Honey bee	*Apis*	*melifera*	13260
10/4/2017	40	GATE	*Aster*	sp.		Native bee	*Halictus*	sp.	13261
10/4/2017	40	GATE	*Aster*	sp.		Native bee	*Agapostemon*	sp.	13263
10/4/2017	40	GATE	*Aster*	sp.		Native bee	*Andrena*	sp.	13264
10/4/2017	40	GATE	*Grindelia*	sp.		Native bee	*Andrena*	sp.	13267
10/4/2017	40	GATE	*Grindelia*	sp.		Native bee	*Anthophora*	sp.	13268
10/4/2017	40	GATE	*Muhlenbergia*	sp.		Honey bee	*Apis*	*melifera*	13270
10/4/2017	40	GATE	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	13277
10/4/2017	40	GATE	*Madia*	sp.		Native bee	*Andrena*	sp.	13278
10/4/2017	40	GATE	*Madia*	sp.		Native bee	*Halictus*	sp.	13279
10/4/2017	40	AUST_S	*Koelreuteria*	sp.		Native bee	*Xylocopa*	sp.	13281
10/4/2017	40	AUST_S	*Tipuana*	*tipu*		Native bee	*Xylocopa*	sp.	13282
10/4/2017	40	AUST_S	*Tipuana*	*tipu*		Honey bee	*Apis*	*melifera*	13283
10/4/2017	40	A_ST	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	13284
10/4/2017	40	REDW	*Heliotropium*	*curassavicum*		Native bee	*Lasioglossum*	sp.	13287
10/4/2017	40	REDW	*Aster*	sp.		Native bee	*Lasioglossum*	sp.	13290
10/4/2017	40	MWB	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	13291
10/4/2017	40	MWB	*Solidago*	sp.		Native bee	*Halictus*	sp.	13292
10/4/2017	40	MWB	*Aster*	sp.		Native bee	*Andrena*	sp.	13293
10/4/2017	40	MWB	*Aster*	sp.		Honey bee	*Apis*	*melifera*	13294
10/4/2017	40	MWB	*Aster*	sp.		Native bee	*Halictus*	sp.	13296
10/4/2017	40	MWB	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	13298
10/4/2017	40	MWB	*Baccharis*	sp.		Native bee	*Andrena*	sp.	13299
10/4/2017	40	MWB	*Baccharis*	sp.		Honey bee	*Apis*	*melifera*	13300
10/4/2017	40	MWB	*Baccharis*	sp.		Native bee	*Lasioglossum*	sp.	13301
10/4/2017	40	MWB	*Solidago*	sp.		Native bee	*Agapostemon*	sp.	13302
10/4/2017	40	MWB	*Solidago*	sp.		Native bee	*Andrena*	sp.	13303
10/4/2017	40	MWB	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	13304
10/4/2017	40	MWB	*Isomeris*	*arborea*		Native bee	*Hylaeus*	sp.	13305
10/4/2017	40	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Andrena*	sp.	13306
10/4/2017	40	MWB	*Erigeron*		'Wayne Roderick'	Honey bee	*Apis*	*melifera*	13307
10/4/2017	40	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Halictus*	sp.	13308
10/4/2017	40	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Lasioglossum*	sp.	13309
10/4/2017	40	MRAK	*Koelreuteria*	sp.		Honey bee	*Apis*	*melifera*	13310
10/4/2017	40	MRAK	*Mentha*	sp.		Native bee	*Andrena*	sp.	13312
10/4/2017	40	MRAK	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	13314
10/4/2017	40	MRAK	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	13315
10/4/2017	40	MRAK	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	13316
10/4/2017	40	MRAK	*Veronica*	sp.		Honey bee	*Apis*	*melifera*	13317
10/4/2017	40	MRAK	*Veronica*	sp.		Native bee	*Halictus*	sp.	13318
10/4/2017	40	MRAK	*Veronica*	sp.		Native bee	*Agapostemon*	sp.	13319
10/4/2017	40	MRAK	*Apentia*		'Red Apple'	Honey bee	*Apis*	*melifera*	13220
10/4/2017	40	FOOT	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	13321
10/4/2017	40	FOOT	*Baccharis*	sp.		Native bee	*Halictus*	sp.	13322
10/4/2017	40	ENTR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	13324
10/4/2017	40	ENTR	*Rosmarinus*	*officinalis*		Native bee	*Agapostemon*	sp.	13325
10/4/2017	40	ENTR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	13326
10/4/2017	40	ENTR	*Salvia*	sp.		Native bee	*Anthophora*	sp.	13330
10/4/2017	40	ENTR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	13331
10/4/2017	40	ENTR	*Perovskia*	sp.		Native bee	*Agapostemon*	sp.	13332
10/4/2017	40	ENTR	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	13334
10/4/2017	40	ENTR	*Vitex*	sp.		Native bee	*Agapostemon*	sp.	13336
10/4/2017	40	ENTR	*Teucrium*	sp.		Honey bee	*Apis*	*melifera*	13337
10/4/2017	40	DESE	*Larrea*	sp.		Native bee	*Xylocopa*	sp.	13338
10/4/2017	40	DESE	*Encelia*	sp.		Native bee	*Andrena*	sp.	13339
10/4/2017	40	DESE	*Catalpa*	sp.		Native bee	*Agapostemon*	sp.	13340
10/4/2017	40	DESE	*Sphaeralcea*	sp.		Native bee	*Halictus*	sp.	13341
10/4/2017	40	DESE	*Sphaeralcea*	sp.		Native bee	*Agapostemon*	sp.	13342
10/4/2017	40	GAZE	*Aloysia*	*citriodora*		Honey bee	*Apis*	*melifera*	13352
10/4/2017	40	GAZE	*Hibiscus*	sp.		Honey bee	*Apis*	*melifera*	13354
10/4/2017	40	GAZE	*Nicotiana*	*sylvestris*		Honey bee	*Apis*	*melifera*	13355
10/4/2017	40	GAZE	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	13356
10/4/2017	40	GAZE	*Rosa*	sp.		Native bee	*Xylocopa*	sp.	13357
10/4/2017	40	GAZE	*Osmanthus*	*x fortunei*		Honey bee	*Apis*	*melifera*	13358
10/4/2017	40	GAZE	*Duranta*	*erecta*	'Alba'	Honey bee	*Apis*	*melifera*	13359
10/4/2017	40	GAZE	*Abutilon*	sp.		Honey bee	*Apis*	*melifera*	13360
10/4/2017	40	STOR	*Koelreuteria*	sp.		Honey bee	*Apis*	*melifera*	13361
10/4/2017	40	STOR	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	13362
10/4/2017	40	STOR	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	13363
10/4/2017	40	STOR	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	13364
10/4/2017	40	STOR	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	13366
10/4/2017	40	STOR	*Scabiosa*	sp.		Honey bee	*Apis*	*melifera*	13367
10/4/2017	40	STOR	*Senna*	sp.		Native bee	*Xylocopa*	sp.	13368
10/4/2017	40	STOR	*Leucophyllum*	sp.		Honey bee	*Apis*	*melifera*	13370
10/4/2017	40	STOR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	13372
10/4/2017	40	STOR	*Thymus*	sp.		Native bee	*Halictus*	sp.	13373

10/4/2017	40	STOR	*Thymus*	sp.	Native bee	*Andrena*	sp.	13374	
10/4/2017	40	STOR	*Thymus*	sp.	Native bee	*Lasioglossum*	sp.	13377	
10/4/2017	40	STOR	*Tulbaghia*	sp.	Native bee	*Andrena*	sp.	13376	
10/4/2017	40	STOR	*Tulbaghia*	sp.	Native bee	*Hylaeus*	sp.	13380	
10/4/2017	40	STOR	*Aster*	sp.	Honey bee	*Apis*	*melifera*	13379	
10/4/2017	40	STOR	*Aster*	sp.	Native bee	*Andrena*	sp.	13382	
10/4/2017	40	STOR	*Aster*	sp.	Native bee	*Halictus*	sp.	13381	
10/4/2017	40	STOR	*Salvia*	sp.	Honey bee	*Apis*	*melifera*	13383	
10/4/2017	40	STOR	*Rosmarinus*	*officinalis*	Honey bee	*Apis*	*melifera*	13385	
10/4/2017	40	STOR	*Gaillardia*	sp.	Honey bee	*Apis*	*melifera*	13386	
10/4/2017	40	STOR	*Gaillardia*	sp.	Native bee	*Agapostemon*	sp.	13387	
10/4/2017	40	STOR	*Rosmarinus*	*officinalis*	Native bee	*Andrena*	sp.	13388	
10/4/2017	40	STOR	*Rosmarinus*	*officinalis*	Native bee	*Halictus*	sp.	13389	
10/4/2017	40	STOR	*Gaillardia*	sp.	Native bee	*Halictus*	sp.	13390	
10/4/2017	40	STOR	*Eschscholzia*	*californica*	Honey bee	*Apis*	*melifera*	13391	
10/4/2017	40	STOR	*Lavandula*	sp.	Honey bee	*Apis*	*melifera*	13392	
10/4/2017	40	STOR	*Gaura*	*lindheimeri*	Native bee	*Halictus*	sp.	13394	
10/4/2017	40	STOR	*Gaura*	*lindheimeri*	Honey bee	*Apis*	*melifera*	13395	
10/4/2017	40	STOR	*Ceratostigma*	*plumbaginoides*	Honey bee	*Apis*	*melifera*	13396	
10/4/2017	40	STOR	*Veronica*	sp.	Honey bee	*Apis*	*melifera*	13397	
10/4/2017	40	STOR	*Alstroemeria*	sp.	Native bee	*Agapostemon*	sp.	13398	
10/4/2017	40	STOR	*Alstroemeria*	sp.	Honey bee	*Apis*	*melifera*	13399	
10/4/2017	40	STOR	*Chitalpa*	sp.	Honey bee	*Apis*	*melifera*	13400	
10/4/2017	40	STOR	*Oxalis*	sp.	Honey bee	*Apis*	*melifera*	13402	
10/4/2017	40	EASI	*Bulbine*	sp.	Honey bee	*Apis*	*melifera*	13403	
10/4/2017	40	EASI	*Echinacea*	sp.	Honey bee	*Apis*	*melifera*	13404	
10/4/2017	40	EASI	*Salvia*	sp.	Honey bee	*Apis*	*melifera*	13405	
10/4/2017	40	EASI	*Gaillardia*	sp.	Native bee	*Halictus*	sp.	13406	
10/4/2017	40	EASI	*Salvia*	sp.	Native bee	*Xylocopa*	sp.	13407	
10/4/2017	40	EASI	*Aster*	sp.	Native bee	*Halictus*	sp.	13408	
10/4/2017	40	EASI	*Aster*	sp.	Native bee	*Andrena*	sp.	13410	
10/4/2017	40	EASI	*Delosperma*	sp.	Honey bee	*Apis*	*melifera*	13411	
10/4/2017	40	EASI	*Erigeron*	*karvinskianus*	Native bee	*Halictus*	sp.	13412	
10/4/2017	40	EASI	*Bahiopsis*	*parishii*	Native bee	*Halictus*	sp.	13413	
10/4/2017	40	EASI	*Bahiopsis*	*parishii*	Native bee	*Andrena*	sp.	13415	
10/4/2017	40	EASI	*Bahiopsis*	*parishii*	Honey bee	*Apis*	*melifera*	13416	
10/4/2017	40	EASI	*Eriogonum*	sp.	Native bee	*Halictus*	sp.	13418	
10/4/2017	40	EASI	*Eriogonum*	sp.	Native bee	*Lasioglossum*	sp.	13420	
10/4/2017	40	EASI	*Origanum*	sp.	Honey bee	*Apis*	*melifera*	13421	
10/4/2017	40	EASI	*Solidago*	sp.	Native bee	*Halictus*	sp.	13425	
10/4/2017	40	EASI	*Leucophyllum*	sp.	Native bee	*Halictus*	sp.	13426	
10/4/2017	40	EASI	*Leucophyllum*	sp.	Honey bee	*Apis*	*melifera*	13427	
10/4/2017	40	EASI	*Nepeta*	sp.	Honey bee	*Apis*	*melifera*	13428	
10/4/2017	40	EASI	*Lavandula*	sp.	Honey bee	*Apis*	*melifera*	13429	
10/4/2017	40	EASI	*Callistemon*	sp.	Honey bee	*Apis*	*melifera*	13430	
10/4/2017	40	EASI	*Rosmarinus*	*officinalis*	Honey bee	*Apis*	*melifera*	13432	
10/4/2017	40	EASI	*Bulbine*	sp.	Native bee	*Xylocopa*	sp.	13433	
10/4/2017	40	EASI	*Passiflora*	sp.	Native bee	*Xylocopa*	sp.	13434	
10/4/2017	40	EASI	*Rosa*	sp.	Honey bee	*Apis*	*melifera*	13439	
10/4/2017	40	EASI	*Rosmarinus*	*officinalis*	Native bee	*Agapostemon*	sp.	13440	
10/4/2017	40	EASI	*Rosmarinus*	*officinalis*	Native bee	*Andrena*	sp.	13441	
10/4/2017	40	SOAF	*Euryops*	*pectinatus*	Native bee	*Halictus*	sp.	13443	
10/4/2017	40	SOAF	*Bulbine*	sp.	Honey bee	*Apis*	*melifera*	13445	
10/4/2017	40	SOAF	*Origanum*	sp.	Honey bee	*Apis*	*melifera*	13446	
10/4/2017	40	SOAF	*Origanum*	sp.	Native bee	*Andrena*	sp.	13448	
10/4/2017	40	MEDI	*Arbutus*	*unido*	Native bee	*Xylocopa*	sp.	13450	
10/4/2017	40	MEDI	*Rosmarinus*	*officinalis*	Honey bee	*Apis*	*melifera*	13452	
10/4/2017	40	MEDI	*Rosmarinus*	*officinalis*	Native bee	*Agapostemon*	sp.	13453	
10/4/2017	40	MEDI	*Lavandula*	sp.	Honey bee	*Apis*	*melifera*	13454	
10/4/2017	40	MEDI	*Rosmarinus*	*officinalis*	Native bee	*Anthophora*	sp.	13455	
10/4/2017	40	MEDI	*Vitex*	sp.	Honey bee	*Apis*	*melifera*	13456	
10/4/2017	40	MEDI	*Vitex*	sp.	Native bee	*Halictus*	sp.	13457	
10/4/2017	40	MEDI	*Perovskia*	sp.	Honey bee	*Apis*	*melifera*	13458	
10/4/2017	40	MEDI	*Salvia*	sp.	Honey bee	*Apis*	*melifera*	13459	
10/4/2017	40	MEDI	*Teucrium*	sp.	Honey bee	*Apis*	*melifera*	13463	
10/4/2017	40	ARGE	*Calliandra*	*tweedii*	Honey bee	*Apis*	*melifera*	13464	
10/4/2017	40	ARGE	*Pavonia*	*mission*	Honey bee	*Apis*	*melifera*	13467	
10/4/2017	40	ARGE	*Erythrina*	*crista galli*	Honey bee	*Apis*	*melifera*	13468	
10/4/2017	40	ARGE	*Eucalyptus*	sp.	Honey bee	*Apis*	*melifera*	13469	
10/4/2017	40	SWUS	*Leucophyllum*	sp.	Honey bee	*Apis*	*melifera*	13470	
10/4/2017	40	SWUS	*Leucophyllum*	sp.	Native bee	*Andrena*	sp.	13471	
10/4/2017	40	SWUS	*Salvia*	sp.	Honey bee	*Apis*	*melifera*	13472	
10/4/2017	40	SWUS	*Gaillardia*	sp.	Honey bee	*Apis*	*melifera*	13473	
10/4/2017	40	SWUS	*Gaillardia*	sp.	Native bee	*Andrena*	sp.	13474	
10/4/2017	40	SWUS	*Gaillardia*	sp.	Native bee	*Halictus*	sp.	13475	
10/4/2017	40	SWUS	*Gaillardia*	sp.	Native bee	*Agapostemon*	sp.	13476	
10/4/2017	40	SWUS	*Tecoma*	sp.	Native bee	*Xylocopa*	*tabaniformis*	13477	COLLECTED
10/4/2017	40	SWUS	*Salvia*	sp.	Native bee	*Xylocopa*	sp.	13482	
10/4/2017	40	SWUS	*Mimosa*	sp.	Honey bee	*Apis*	*melifera*	13483	
10/4/2017	40	SWUS	*Chilopsis*	sp.	Honey bee	*Apis*	*melifera*	13485	

10/4/2017	40	SWUS	*Leucophyllum*	sp.		Native bee	*Agapostemon*	sp.	13486
10/4/2017	40	SWUS	*Leucophyllum*	sp.		Native bee	*Hylaeus*	sp.	13487
10/4/2017	40	CONI	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	13490
10/4/2017	40	CONI	*Baccharis*	*pilularis*		Honey bee	*Apis*	*melifera*	13491
10/4/2017	40	CONI	*Baccharis*	*pilularis*		Native bee	*Halictus*	sp.	13492
10/4/2017	40	CONI	*Eriogonum*	sp.		Native bee	*Halictus*	sp.	13494
10/4/2017	40	CONI	*Ruellia*	sp.		Native bee	*Anthophora*	sp.	13501
10/4/2017	40	CONI	*Ruellia*	sp.		Native bee	*Agapostemon*	sp.	13502
10/4/2017	40	CONI	*Ruellia*	sp.		Native bee	*Xylocopa*	sp.	13504
10/4/2017	40	CONI	*Ruellia*	sp.		Honey bee	*Apis*	*melifera*	13505
10/4/2017	40	AHQ	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	13506
10/4/2017	40	ACAC	*Acacia*	sp.		Honey bee	*Apis*	*melifera*	13507
10/4/2017	40	CHIL	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	13509
10/4/2017	40	LODG	*Gaura*	*lindheimeri*		Native bee	*Halictus*	sp.	13510
10/4/2017	40	LODG	*Veronica*	sp.		Honey bee	*Apis*	*melifera*	13511
10/4/2017	40	LODG	*Veronica*	sp.		Native bee	*Agapostemon*	sp.	13512
10/4/2017	40	LODG	*Hemerocallis*	sp.		Honey bee	*Apis*	*melifera*	13513
10/4/2017	40	BOAT	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	13515
10/4/2017	40	BOAT	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	13517
10/4/2017	40	BOAT	*Solidago*	sp.		Native bee	*Andrena*	sp.	13518
10/4/2017	40	BOAT	*Penstemon*	sp.		Honey bee	*Apis*	*melifera*	13519
10/4/2017	40	COMM	*Rosmarinus*	*officinalis*		Native bee	*Halictus*	sp.	13520
10/4/2017	40	COMM	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	13521
10/4/2017	40	COTT	*Lagerstroemia*	sp.		Native bee	*Halictus*	sp.	13522
10/4/2017	40	COTT	*Lagerstroemia*	sp.		Honey bee	*Apis*	*melifera*	13523
10/4/2017	40	MOUN	*Oxalis*	sp.		Native bee	*Andrena*	sp.	13524
10/11/2017	41	AUST_N	*Protea*	sp.		Honey bee	*Apis*	*melifera*	13526
10/11/2017	41	AUST_N	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	13528
10/11/2017	41	AUST_N	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	13530
10/11/2017	41	AUST_N	*Westringia*	sp.		Native bee	*Agapostemon*	sp.	13531
10/11/2017	41	AUST_S	*Eremophila*	*maculata*		Honey bee	*Apis*	*melifera*	13535
10/11/2017	41	AUST_S	*Colletia*	*paradoxa*		Honey bee	*Apis*	*melifera*	13536
10/11/2017	41	AUST_S	*Koelreuteria*	sp.		Honey bee	*Apis*	*melifera*	13537
10/11/2017	41	AUST_S	*Hebe*	sp.		Honey bee	*Apis*	*melifera*	13538
10/11/2017	41	AUST_S	*Koelreuteria*	sp.		Native bee	*Xylocopa*	sp.	13539
10/11/2017	41	AUST_S	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	13540
10/11/2017	41	AUST_S	*Westringia*	sp.		Native bee	*Andrena*	sp.	13542
10/11/2017	41	AUST_S	*Westringia*	sp.		Honey bee	*Apis*	*melifera*	13546
10/11/2017	41	AUST_S	*Grindelia*	sp.		Honey bee	*Apis*	*melifera*	13547
10/11/2017	41	AUST_S	*Parkinsonia*	sp.		Native bee	*Xylocopa*	sp.	13548
10/11/2017	41	AUST_S	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	13551
10/11/2017	41	AUST_S	*Ozothanmus*		'Sussex Silver'	Native bee	*Andrena*	sp.	13553
10/11/2017	41	AUST_S	*Tipuana*	*tipu*		Native bee	*Xylocopa*	sp.	13554
10/11/2017	41	ERIC_S	*Datura*	sp.		Native bee	*Hylaeus*	sp.	13556
10/11/2017	41	ERIC_S	*Datura*	sp.		Native bee	*Agapostemon*	sp.	13559
10/11/2017	41	AUST_S	*Tipuana*	*tipu*		Honey bee	*Apis*	*melifera*	13562
10/11/2017	41	GATE	*Aster*	sp.		Honey bee	*Apis*	*melifera*	13563
10/11/2017	41	GATE	*Grindelia*	sp.		Native bee	*Andrena*	sp.	13566
10/11/2017	41	GATE	*Grindelia*	sp.		Native bee	*Hylaeus*	sp.	13568
10/11/2017	41	GATE	*Aster*	sp.		Native bee	*Halictus*	sp.	13572
10/11/2017	41	GATE	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	13574
10/11/2017	41	A_ST	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	13577
10/11/2017	41	A_ST	*Eschscholzia*	*californica*		Native bee	*Halictus*	sp.	13578
10/11/2017	41	A_ST	*Eschscholzia*	*californica*		Native bee	*Andrena*	sp.	13579
10/11/2017	41	REDW	*Heliotropium*	*curassavicum*		Native bee	*Andrena*	sp.	13580
10/11/2017	41	MWB	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	13583
10/11/2017	41	MWB	*Aster*	sp.		Honey bee	*Apis*	*melifera*	13584
10/11/2017	41	MWB	*Baccharis*	sp.		Honey bee	*Apis*	*melifera*	13586
10/11/2017	41	MWB	*Baccharis*	sp.		Native bee	*Andrena*	sp.	13587
10/11/2017	41	MWB	*Baccharis*	sp.		Native bee	*Agapostemon*	sp.	13589
10/11/2017	41	MWB	*Eriogonum*	sp.		Native bee	*Agapostemon*	sp.	13590
10/11/2017	41	MWB	*Solidago*	sp.		Honey bee	*Apis*	*melifera*	13591
10/11/2017	41	MWB	*Aster*	sp.		Native bee	*Halictus*	sp.	13592
10/11/2017	41	MWB	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	13593
10/11/2017	41	MWB	*Erigeron*		'Wayne Roderick'	Honey bee	*Apis*	*melifera*	13595
10/11/2017	41	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Halictus*	sp.	13597
10/11/2017	41	MWB	*Ericameria*	sp.		Native bee	*Halictus*	sp.	13599
10/11/2017	41	FOOT	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	13600
10/11/2017	41	FOOT	*Baccharis*	sp.		Native bee	*Agapostemon*	sp.	13601
10/11/2017	41	FOOT	*Baccharis*	sp.		Honey bee	*Apis*	*melifera*	13604
10/11/2017	41	FOOT	*Baccharis*	sp.		Native bee	*Halictus*	sp.	13605
10/11/2017	41	ENTR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	13607
10/11/2017	41	ENTR	*Salvia*	sp.		Native bee	*Halictus*	sp.	13612
10/11/2017	41	ENTR	*Euryops*	*pectinatus*		Honey bee	*Apis*	*melifera*	13614
10/11/2017	41	ENTR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	13616
10/11/2017	41	ENTR	*Euryops*	*pectinatus*		Native bee	*Agapostemon*	sp.	13619
10/11/2017	41	ENTR	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	13620
10/11/2017	41	ENTR	*Vitex*	sp.		Native bee	*Agapostemon*	sp.	13621
10/11/2017	41	ENTR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	13622
10/11/2017	41	ENTR	*Perovskia*	sp.		Native bee	*Agapostemon*	sp.	13623

10/11/2017	41	ENTR	*Perovskia*	sp.		Native bee	*Melissodes*	sp.	13624
10/11/2017	41	ENTR	*Teucrium*	sp.		Honey bee	*Apis*	*melifera*	13626
10/11/2017	41	ACAC	*Acacia*	sp.		Honey bee	*Apis*	*melifera*	13627
10/11/2017	41	LODG	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	13628
10/11/2017	41	LODG	*Veronica*	sp.		Honey bee	*Apis*	*melifera*	13629
10/11/2017	41	LODG	*Veronica*	sp.		Native bee	*Agapostemon*	sp.	13631
10/11/2017	41	ARGE	*Erythrina*	*crista galli*		Honey bee	*Apis*	*melifera*	13632
10/11/2017	41	ARGE	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	13633
10/11/2017	41	SWUS	*Leucophyllum*	sp.		Honey bee	*Apis*	*melifera*	13634
10/11/2017	41	SWUS	*Leucophyllum*	sp.		Native bee	*Andrena*	sp.	13635
10/11/2017	41	SWUS	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	13637
10/11/2017	41	SWUS	*Gaillardia*	sp.		Native bee	*Agapostemon*	sp.	13638
10/11/2017	41	SWUS	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	13639
10/11/2017	41	SWUS	*Tecoma*	sp.		Native bee	*Xylocopa*	sp.	13640
10/11/2017	41	SWUS	*Tecoma*	sp.		Honey bee	*Apis*	*melifera*	13642
10/11/2017	41	SWUS	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	13643
10/11/2017	41	SWUS	*Mimosa*	sp.		Honey bee	*Apis*	*melifera*	13644
10/11/2017	41	SWUS	*Chitalpa*	sp.		Honey bee	*Apis*	*melifera*	13645
10/11/2017	41	SWUS	*Isomeris*	*arborea*		Honey bee	*Apis*	*melifera*	13646
10/11/2017	41	CONI	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	13647
10/11/2017	41	CONI	*Baccharis*	sp.		Honey bee	*Apis*	*melifera*	13648
10/11/2017	41	CONI	*Ruellia*	sp.		Honey bee	*Apis*	*melifera*	13649
10/11/2017	41	CONI	*Ruellia*	sp.		Native bee	*Agapostemon*	sp.	13650
10/11/2017	41	CONI	*Mentha*	sp.		Native bee	*Agapostemon*	sp.	13652
10/11/2017	41	DESE	*Encelia*	sp.		Native bee	*Halictus*	sp.	13653
10/11/2017	41	DESE	*Encelia*	sp.		Native bee	*Andrena*	sp.	13654
10/11/2017	41	DESE	*Sphaeralcea*	sp.		Native bee	*Agapostemon*	sp.	13657
10/11/2017	41	MRAK	*Apentia*		'Red Apple'	Honey bee	*Apis*	*melifera*	13658
10/11/2017	41	MRAK	*Veronica*	sp.		Honey bee	*Apis*	*melifera*	13659
10/11/2017	41	MRAK	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	13660
10/11/2017	41	MRAK	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	13662
10/11/2017	41	MRAK	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	13663
10/11/2017	41	MRAK	*Koelreuteria*	sp.		Honey bee	*Apis*	*melifera*	13664
10/11/2017	41	MRAK	*Koelreuteria*	sp.		Native bee	*Xylocopa*	sp.	13666
10/11/2017	41	GAZE	*Nerium*	sp.		Honey bee	*Apis*	*melifera*	13667
10/11/2017	41	GAZE	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	13668
10/11/2017	41	GAZE	*Aloysia*	*citriodora*		Honey bee	*Apis*	*melifera*	13669
10/11/2017	41	GAZE	*Nicotiana*	*sylvestris*		Native bee	*Xylocopa*	sp.	13670
10/11/2017	41	GAZE	*Rosa*	sp.		Native bee	*Xylocopa*	sp.	13674
10/11/2017	41	GAZE	*Nicotiana*	*sylvestris*		Honey bee	*Apis*	*melifera*	13675
10/11/2017	41	GAZE	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	13676
10/11/2017	41	GAZE	*Duranta*	*erecta*	'Alba'	Honey bee	*Apis*	*melifera*	13678
10/11/2017	41	GAZE	*Abutilon*	sp.		Honey bee	*Apis*	*melifera*	13681
10/11/2017	41	STOR	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	13684
10/11/2017	41	STOR	*Senna*	sp.		Native bee	*Xylocopa*	sp.	13685
10/11/2017	41	STOR	*Verbena*	sp.		Native bee	*Halictus*	sp.	13686
10/11/2017	41	STOR	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	13687
10/11/2017	41	STOR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	13688
10/11/2017	41	STOR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	13689
10/11/2017	41	STOR	*Tulbaghia*	sp.		Honey bee	*Apis*	*melifera*	13691
10/11/2017	41	STOR	*Tulbaghia*	sp.		Native bee	*Andrena*	sp.	13692
10/11/2017	41	STOR	*Tulbaghia*	sp.		Native bee	*Hylaeus*	sp.	13693
10/11/2017	41	STOR	*Scabiosa*	sp.		Honey bee	*Apis*	*melifera*	13694
10/11/2017	41	STOR	*Gaura*	*lindheimeri*		Native bee	*Andrena*	sp.	13695
10/11/2017	41	STOR	*Aster*	sp.		Honey bee	*Apis*	*melifera*	13696
10/11/2017	41	STOR	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	13697
10/11/2017	41	STOR	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	13698
10/11/2017	41	STOR	*Rosmarinus*	*officinalis*		Native bee	*Andrena*	sp.	13701
10/11/2017	41	STOR	*Ceratostigma*	*Plumbaginoides*		Honey bee	*Apis*	*melifera*	13702
10/11/2017	41	STOR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	13704
10/11/2017	41	STOR	*Chilopsis*	*linearis*		Honey bee	*Apis*	*melifera*	13705
10/11/2017	41	STOR	*Alstroemeria*	sp.		Honey bee	*Apis*	*melifera*	13706
10/11/2017	41	STOR	*Aster*	sp.		Native bee	*Halictus*	sp.	13709
10/11/2017	41	STOR	*Koelreuteria*	sp.		Honey bee	*Apis*	*melifera*	13710
10/11/2017	41	EASI	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	13713
10/11/2017	41	EASI	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	13714
10/11/2017	41	EASI	*Aster*	sp.		Native bee	*Halictus*	sp.	13715
10/11/2017	41	EASI	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	13716
10/11/2017	41	EASI	*Bahiopsis*	*parishii*		Native bee	*Halictus*	sp.	13717
10/11/2017	41	EASI	*Bahiopsis*	*parishii*		Native bee	*Andrena*	sp.	13719
10/11/2017	41	EASI	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	13721
10/11/2017	41	EASI	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	13722
10/11/2017	41	EASI	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	13726
10/11/2017	41	EASI	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	13727
10/11/2017	41	EASI	*Callistemon*	sp.		Native bee	*Halictus*	sp.	13728
10/11/2017	41	EASI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	13729
10/11/2017	41	EASI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	13730
10/11/2017	41	EASI	*Rosmarinus*	*officinalis*		Native bee	*Agapostemon*	sp.	13731
10/11/2017	41	SOAF	*Euryops*	*pectinatus*		Native bee	*Halictus*	sp.	13732
10/11/2017	41	SOAF	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	13733

10/11/2017	41	SOAF	Origanum	sp.		Honey bee	Apis	melifera	13735	
10/11/2017	41	SOAF	Leonotis	sp.		Honey bee	Apis	melifera	13736	
10/11/2017	41	SOAF	Ceratostigma	plumbaginoides		Honey bee	Apis	melifera	13737	
10/11/2017	41	MEDI	Callistemon	sp.		Honey bee	Apis	melifera	13739	
10/11/2017	41	MEDI	Rosmarinus	officinalis		Honey bee	Apis	melifera	13740	
10/11/2017	41	MEDI	Lavandula	sp.		Honey bee	Apis	melifera	13741	
10/11/2017	41	MEDI	Clematis	sp.		Honey bee	Apis	melifera	13742	
10/11/2017	41	MEDI	Rosmarinus	officinalis		Native bee	Andrena	sp.	13743	
10/11/2017	41	MEDI	Vitex	sp.		Honey bee	Apis	melifera	13744	
10/11/2017	41	MEDI	Perovskia	sp.		Honey bee	Apis	melifera	13745	
10/11/2017	41	MEDI	Salvia	canariensis		Honey bee	Apis	melifera	13746	
10/11/2017	41	BOAT	Salvia	sp.		Honey bee	Apis	melifera	13749	
10/11/2017	41	BOAT	Origanum	sp.		Honey bee	Apis	melifera	13750	
10/11/2017	41	BOAT	Solidago	sp.		Native bee	Agapostemon	sp.	13751	
10/11/2017	41	BOAT	Bulbine	sp.		Honey bee	Apis	melifera	13753	
10/11/2017	41	BOAT	Penstemon	sp.		Honey bee	Apis	melifera	13754	
10/11/2017	41	BOAT	Thymus	sp.		Honey bee	Apis	melifera	13756	
10/11/2017	41	MOUN	Oxalis	sp.		Honey bee	Apis	melifera	13759	
10/18/2017	42	AUST_N	Callistemon	sp.		Honey bee	Apis	melifera	13761	
10/18/2017	42	AUST_N	Protea	sp.		Honey bee	Apis	melifera	13763	
10/18/2017	42	AUST_N	Oxalis	sp.		Honey bee	Apis	melifera	13766	
10/18/2017	42	AUST_N	Westringia	sp.		Native bee	Agapostemon	sp.	13767	
10/18/2017	42	AUST_N	Westringia	sp.		Honey bee	Apis	melifera	13771	
10/18/2017	42	AUST_S	Eremophila	maculata		Honey bee	Apis	melifera	13774	
10/18/2017	42	AUST_S	Eremophila	maculata		Native bee	Agapostemon	sp.	13775	
10/18/2017	42	AUST_S	Colletia	paradoxa		Honey bee	Apis	melifera	13776	
10/18/2017	42	AUST_S	Koelreuteria	sp.		Honey bee	Apis	melifera	13778	
10/18/2017	42	AUST_S	Vitex	sp.		Honey bee	Apis	melifera	13779	
10/18/2017	42	AUST_S	Grevillea	sp.		Honey bee	Apis	melifera	13781	
10/18/2017	42	AUST_S	Grevillea	sp.		Native bee	Xylocopa	sp.	13782	
10/18/2017	42	AUST_S	Westringia	sp.		Honey bee	Apis	melifera	13783	
10/18/2017	42	AUST_S	Parkinsonia	sp.		Native bee	Xylocopa	sp.	13785	
10/18/2017	42	AUST_S	Parkinsonia	sp.		Honey bee	Apis	melifera	13786	
10/18/2017	42	AUST_S	Callistemon	sp.		Honey bee	Apis	melifera	13788	
10/18/2017	42	GATE	Aster	sp.		Honey bee	Apis	melifera	13794	
10/18/2017	42	GATE	Aster	sp.		Native bee	Halictus	sp.	13791	
10/18/2017	42	GATE	Aster	sp.		Native bee	Agapostemon	sp.	13793	
10/18/2017	42	GATE	Grindelia	sp.		Native bee	Halictus	sp.	13796	
10/18/2017	42	GATE	Epilobium	sp.		Honey bee	Apis	melifera	13797	
10/18/2017	42	GATE	Grindelia	sp.		Honey bee	Apis	melifera	13798	
10/18/2017	42	GATE	Madia	sp.		Native bee	Andrena	sp.	13799	
10/18/2017	42	GATE	Madia	sp.		Native bee	Lasioglossum	sp.	13805	
10/18/2017	42	GATE	Madia	sp.		Native bee	Halictus	sp.	13801	
10/18/2017	42	A_ST	Eschscholzia	californica		Honey bee	Apis	melifera	13809	
10/18/2017	42	A_ST	Eschscholzia	californica		Native bee	Ceratina	sp.	13810	COLLECTED
10/18/2017	42	MWB	Solidago	sp.		Native bee	Halictus	sp.	13812	
10/18/2017	42	MWB	Solidago	sp.		Native bee	Andrena	sp.	13813	
10/18/2017	42	MWB	Epilobium	sp.		Honey bee	Apis	melifera	13814	
10/18/2017	42	MWB	Baccharis	sp.		Honey bee	Apis	melifera	13815	
10/18/2017	42	MWB	Baccharis	sp.		Native bee	Halictus	sp.	13816	
10/18/2017	42	MWB	Baccharis	sp.		Native bee	Andrena	sp.	13817	
10/18/2017	42	MWB	Eriogonum	sp.		Native bee	Agapostemon	sp.	13818	
10/18/2017	42	MWB	Eriogonum	sp.		Native bee	Halictus	sp.	13819	
10/18/2017	42	MWB	Aster	sp.		Native bee	Andrena	sp.	13820	
10/18/2017	42	MWB	Eschscholzia	californica		Honey bee	Apis	melifera	13822	
10/18/2017	42	MWB	Erigeron		'Wayne Roderick'	Native bee	Halictus	sp.	13825	
10/18/2017	42	MWB	Erigeron		'Wayne Roderick'	Native bee	Lasioglossum	sp.	13827	
10/18/2017	42	MWB	Erigeron		'Wayne Roderick'	Native bee	Agapostemon	sp.	13828	
10/18/2017	42	MWB	Grindelia	sp.		Native bee	Agapostemon	sp.	13829	
10/18/2017	42	MWB	Erigeron		'Wayne Roderick'	Native bee	Andrena	sp.	13831	
10/18/2017	42	MWB	Achillea	sp.		Native bee	Halictus	sp.	13832	
10/18/2017	42	MWB	Ericameria	sp.		Honey bee	Apis	melifera	13833	
10/18/2017	42	MWB	Ericameria	sp.		Native bee	Halictus	sp.	13834	
10/18/2017	42	MWB	Ericameria	sp.		Native bee	Andrena	sp.	13835	
10/18/2017	42	MWB	Solidago	sp.		Honey bee	Apis	melifera	13836	
10/18/2017	42	FOOT	Epilobium	sp.		Honey bee	Apis	melifera	13838	
10/18/2017	42	FOOT	Eriogonum	sp.		Native bee	Agapostemon	sp.	13839	
10/18/2017	42	FOOT	Baccharis	sp.		Honey bee	Apis	melifera	13840	
10/18/2017	42	FOOT	Baccharis	sp.		Native bee	Halictus	sp.	13841	
10/18/2017	42	FOOT	Baccharis	sp.		Native bee	Andrena	sp.	13843	
10/18/2017	42	ENTR	Salvia	sp.		Honey bee	Apis	melifera	13844	
10/18/2017	42	ENTR	Euryops	pectinatus		Native bee	Halictus	sp.	13845	
10/18/2017	42	ENTR	Rosmarinus	officinalis		Honey bee	Apis	melifera	13846	
10/18/2017	42	ENTR	Rosmarinus	officinalis		Native bee	Halictus	sp.	13847	
10/18/2017	42	ENTR	Rosmarinus	officinalis		Native bee	Andrena	sp.	13848	
10/18/2017	42	ENTR	Vitex	sp.		Honey bee	Apis	melifera	13849	
10/18/2017	42	ENTR	Euryops	pectinatus		Native bee	Andrena	sp.	13850	
10/18/2017	42	ENTR	Perovskia	sp.		Honey bee	Apis	melifera	13851	
10/18/2017	42	ENTR	Vitex	sp.		Native bee	Agapostemon	sp.	13853	
10/18/2017	42	ENTR	Teucrium	sp.		Honey bee	Apis	melifera	13855	

10/18/2017	42	ENTR	*Teucrium*	sp.		Native bee	*Andrena*	sp.	13856
10/18/2017	42	ACAC	*Acacia*	sp.		Honey bee	*Apis*	*melifera*	13857
10/18/2017	42	LODG	*Veronica*	sp.		Honey bee	*Apis*	*melifera*	13858
10/18/2017	42	LODG	*Veronica*	sp.		Native bee	*Agapostemon*	sp.	13860
10/18/2017	42	ARGE	*Calliandra*	*tweedii*		Honey bee	*Apis*	*melifera*	13861
10/18/2017	42	ARGE	*Pavonia*	*mission*		Honey bee	*Apis*	*melifera*	13862
10/18/2017	42	ARGE	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	13863
10/18/2017	42	SWUS	*Tagetes*	sp.		Honey bee	*Apis*	*melifera*	13865
10/18/2017	42	SWUS	*Tagetes*	sp.		Native bee	*Agapostemon*	sp.	13866
10/18/2017	42	SWUS	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	13868
10/18/2017	42	SWUS	*Gaura*	*lindheimeri*		Native bee	*Agapostemon*	sp.	13870
10/18/2017	42	SWUS	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	13871
10/18/2017	42	SWUS	*Gaillardia*	sp.		Native bee	*Agapostemon*	sp.	13874
10/18/2017	42	SWUS	*Tecoma*	sp.		Honey bee	*Apis*	*melifera*	13875
10/18/2017	42	SWUS	*Tecoma*	sp.		Native bee	*Xylocopa*	sp.	13876
10/18/2017	42	SWUS	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	13879
10/18/2017	42	SWUS	*Mimosa*	sp.		Honey bee	*Apis*	*melifera*	13881
10/18/2017	42	SWUS	*Isomeris*	*arborea*		Honey bee	*Apis*	*melifera*	13883
10/18/2017	42	SWUS	*Ephedra*	sp.		Honey bee	*Apis*	*melifera*	13886
10/18/2017	42	CONI	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	13887
10/18/2017	42	CONI	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	13888
10/18/2017	42	CONI	*Baccharis*	sp.		Honey bee	*Apis*	*melifera*	13889
10/18/2017	42	CONI	*Eriogonum*	sp.		Native bee	*Andrena*	sp.	13890
10/18/2017	42	CONI	*Ruellia*	sp.		Native bee	*Agapostemon*	sp.	13891
10/18/2017	42	CONI	*Ruellia*	sp.		Honey bee	*Apis*	*melifera*	13892
10/18/2017	42	CONI	*Mentha*	sp.		Native bee	*Andrena*	sp.	13894
10/18/2017	42	CONI	*Limonium*	sp.		Native bee	*Agapostemon*	sp.	13896
10/18/2017	42	DESE	*Encelia*	sp.		Native bee	*Halictus*	sp.	13897
10/18/2017	42	DESE	*Baileya*	*multiradiata*		Native bee	*Halictus*	sp.	13898
10/18/2017	42	DESE	*Encelia*	sp.		Native bee	*Andrena*	sp.	13900
10/18/2017	42	DESE	*Sphaeralcea*	sp.		Honey bee	*Apis*	*melifera*	13901
10/18/2017	42	DESE	*Sphaeralcea*	sp.		Native bee	*Agapostemon*	sp.	13902
10/18/2017	42	MRAK	*Apentia*		'Red Apple'	Honey bee	*Apis*	*melifera*	13903
10/18/2017	42	MRAK	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	13904
10/18/2017	42	MRAK	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	13905
10/18/2017	42	MRAK	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	13906
10/18/2017	42	MRAK	*Gaillardia*	sp.		Native bee	*Agapostemon*	sp.	13907
10/18/2017	42	MRAK	*Veronica*	sp.		Native bee	*Agapostemon*	sp.	13908
10/18/2017	42	MRAK	*Veronica*	sp.		Honey bee	*Apis*	*melifera*	13909
10/18/2017	42	MRAK	*Koelreuteria*	sp.		Honey bee	*Apis*	*melifera*	13910
10/18/2017	42	MRAK	*Koelreuteria*	sp.		Native bee	*Xylocopa*	sp.	13911
10/18/2017	42	GAZE	*Nicotiana*	*sylvestris*		Honey bee	*Apis*	*melifera*	13912
10/18/2017	42	GAZE	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	13913
10/18/2017	42	GAZE	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	13915
10/18/2017	42	GAZE	*Duranta*	*erecta*	'Alba'	Honey bee	*Apis*	*melifera*	13917
10/18/2017	42	STOR	*Koelreuteria*	sp.		Honey bee	*Apis*	*melifera*	13918
10/18/2017	42	STOR	*Scabiosa*	sp.		Honey bee	*Apis*	*melifera*	13919
10/18/2017	42	STOR	*Aster*	sp.		Honey bee	*Apis*	*melifera*	13920
10/18/2017	42	STOR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	13923
10/18/2017	42	STOR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	13924
10/18/2017	42	STOR	*Alstroemeria*	sp.		Honey bee	*Apis*	*melifera*	13925
10/18/2017	42	STOR	*Gaura*	*lindheimeri*		Honey bee	*Apis*	*melifera*	13926
10/18/2017	42	STOR	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	13927
10/18/2017	42	STOR	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	13929
10/18/2017	42	STOR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	13930
10/18/2017	42	STOR	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	13931
10/18/2017	42	STOR	*Ceratostigma*	*plumbaginoides*		Honey bee	*Apis*	*melifera*	13932
10/18/2017	42	STOR	*Leonotis*	sp.		Honey bee	*Apis*	*melifera*	13933
10/18/2017	42	STOR	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	13934
10/18/2017	42	EASI	*Koelreuteria*	sp.		Honey bee	*Apis*	*melifera*	13935
10/18/2017	42	EASI	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	13936
10/18/2017	42	EASI	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	13940
10/18/2017	42	EASI	*Bahiopsis*	*parishii*		Honey bee	*Apis*	*melifera*	13941
10/18/2017	42	EASI	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	13942
10/18/2017	42	EASI	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	13943
10/18/2017	42	EASI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	13944
10/18/2017	42	EASI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	13945
10/18/2017	42	SOAF	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	13946
10/18/2017	42	MEDI	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	13947
10/18/2017	42	MEDI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	13948
10/18/2017	42	MEDI	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	13949
10/18/2017	42	MEDI	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	13950
10/18/2017	42	MEDI	*Teucrium*	sp.		Honey bee	*Apis*	*melifera*	13951
10/18/2017	42	BOAT	*Origanum*	sp.		Honey bee	*Apis*	*melifera*	13952
10/18/2017	42	BOAT	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	13953
10/18/2017	42	BOAT	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	13954
10/18/2017	42	COMM	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	13955
10/18/2017	42	YOLO	*Oenothera*	sp.		Honey bee	*Apis*	*melifera*	13956
10/25/2017	43	AUST_N	*Callistemon*	sp.		Honey bee	*Apis*	*melifera*	13958
10/25/2017	43	AUST_N	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	13960

10/25/2017	43	AUST_N	*Protea*	sp.		Honey bee	*Apis*	*melifera*	13961
10/25/2017	43	AUST_N	*Westringia*	sp.		Native bee	*Agapostemon*	sp.	13962
10/25/2017	43	AUST_N	*Oxalis*	sp.		Native bee	*Halictus*	sp.	13965
10/25/2017	43	AUST_N	*Oxalis*	sp.		Honey bee	*Apis*	*melifera*	13966
10/25/2017	43	AUST_N	*Westringia*	sp.		Native bee	*Andrena*	sp.	13967
10/25/2017	43	AUST_S	*Colletia*	*paradoxa*		Honey bee	*Apis*	*melifera*	13968
10/25/2017	43	AUST_S	*Koelreuteria*	sp.		Honey bee	*Apis*	*melifera*	13969
10/25/2017	43	AUST_S	*Grevillea*	sp.		Honey bee	*Apis*	*melifera*	13970
10/25/2017	43	AUST_S	*Westringia*	sp.		Honey bee	*Apis*	*melifera*	13971
10/25/2017	43	AUST_S	*Westringia*	sp.		Native bee	*Agapostemon*	sp.	13972
10/25/2017	43	AUST_S	*Parkinsonia*	sp.		Native bee	*Xylocopa*	sp.	13973
10/25/2017	43	AUST_S	*Tipuana*	*tipu*		Native bee	*Xylocopa*	sp.	13974
10/25/2017	43	GATE	*Aster*	sp.		Native bee	*Halictus*	sp.	13975
10/25/2017	43	GATE	*Aster*	sp.		Honey bee	*Apis*	*melifera*	13976
10/25/2017	43	GATE	*Aster*	sp.		Native bee	*Andrena*	sp.	13979
10/25/2017	43	MWB	*Corethrogyne*	sp.		Honey bee	*Apis*	*melifera*	13981
10/25/2017	43	MWB	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	13982
10/25/2017	43	MWB	*Baccharis*	sp.		Native bee	*Halictus*	sp.	13983
10/25/2017	43	MWB	*Baccharis*	sp.		Native bee	*Lasioglossum*	sp.	13984
10/25/2017	43	MWB	*Baccharis*	sp.		Honey bee	*Apis*	*melifera*	13985
10/25/2017	43	MWB	*Isomeris*	*arborea*		Honey bee	*Apis*	*melifera*	13986
10/25/2017	43	MWB	*Isomeris*	*arborea*		Native bee	*Lasioglossum*	sp.	13987
10/25/2017	43	MWB	*Aster*	sp.		Honey bee	*Apis*	*melifera*	13988
10/25/2017	43	MWB	*Aster*	sp.		Native bee	*Lasioglossum*	sp.	13990
10/25/2017	43	MWB	*Aster*	sp.		Native bee	*Andrena*	sp.	13989
10/25/2017	43	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Halictus*	sp.	13994
10/25/2017	43	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Lasioglossum*	sp.	13995
10/25/2017	43	MWB	*Eschscholzia*	*californica*		Native bee	*Hylaeus*	sp.	13996
10/25/2017	43	MWB	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	13997
10/25/2017	43	MWB	*Erigeron*		'Wayne Roderick'	Native bee	*Andrena*	sp.	13998
10/25/2017	43	MWB	*Heliotropium*	*curassavicum*		Native bee	*Lasioglossum*	sp.	14005
10/25/2017	43	FOOT	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	14006
10/25/2017	43	FOOT	*Baccharis*	sp.		Honey bee	*Apis*	*melifera*	14007
10/25/2017	43	FOOT	*Baccharis*	sp.		Native bee	*Agapostemon*	sp.	14009
10/25/2017	43	ENTR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	14010
10/25/2017	43	ENTR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	14012
10/25/2017	43	ENTR	*Vitex*	sp.		Honey bee	*Apis*	*melifera*	14013
10/25/2017	43	ENTR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	14014
10/25/2017	43	ENTR	*Perovskia*	sp.		Native bee	*Xylocopa*	sp.	14015
10/25/2017	43	ENTR	*Perovskia*	sp.		Native bee	*Agapostemon*	sp.	14016
10/25/2017	43	ENTR	*Teucrium*	sp.		Honey bee	*Apis*	*melifera*	14017
10/25/2017	43	ACAC	*Acacia*	sp.		Honey bee	*Apis*	*melifera*	14018
10/25/2017	43	CHIL	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	14019
10/25/2017	43	LODG	*Veronica*	sp.		Honey bee	*Apis*	*melifera*	14020
10/25/2017	43	ARGE	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	14021
10/25/2017	43	SWUS	*Leucophyllum*	sp.		Honey bee	*Apis*	*melifera*	14022
10/25/2017	43	SWUS	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	14024
10/25/2017	43	SWUS	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	14025
10/25/2017	43	SWUS	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	14026
10/25/2017	43	SWUS	*Gaillardia*	sp.		Native bee	*Agapostemon*	sp.	14027
10/25/2017	43	SWUS	*Tecoma*	sp.		Native bee	*Xylocopa*	sp.	14028
10/25/2017	43	SWUS	*Salvia*	sp.		Native bee	*Xylocopa*	sp.	14029
10/25/2017	43	SWUS	*Tagetes*	sp.		Native bee	*Agapostemon*	sp.	14031
10/25/2017	43	SWUS	*Leucophyllum*	sp.		Native bee	*Halictus*	sp.	14033
10/25/2017	43	SWUS	*Isomeris*	*arborea*		Honey bee	*Apis*	*melifera*	14035
10/25/2017	43	SWUS	*Ephedra*	sp.		Honey bee	*Apis*	*melifera*	14038
10/25/2017	43	CONI	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	14039
10/25/2017	43	CONI	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	14040
10/25/2017	43	CONI	*Baccharis*	*sp.*		Honey bee	*Apis*	*melifera*	14041
10/25/2017	43	CONI	*Eriogonum*	sp.		Native bee	*Agapostemon*	sp.	14042
10/25/2017	43	CONI	*Ruellia*	sp.		Honey bee	*Apis*	*melifera*	14043
10/25/2017	43	CONI	*Ruellia*	sp.		Native bee	*Agapostemon*	sp.	14044
10/25/2017	43	CONI	*Limonium*	sp.		Native bee	*Agapostemon*	sp.	14048
10/25/2017	43	CONI	*Limonium*	sp.		Native bee	*Andrena*	sp.	14050
10/25/2017	43	AHQ	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	14051
10/25/2017	43	DESE	*Parkinsonia*	sp.		Native bee	*Xylocopa*	sp.	14052
10/25/2017	43	DESE	*Encelia*	sp.		Native bee	*Andrena*	sp.	14060
10/25/2017	43	DESE	*Sphaeralcea*	sp.		Native bee	*Agapostemon*	sp.	14062
10/25/2017	43	MRAK	*Apentia*		'Red Apple'	Honey bee	*Apis*	*melifera*	14064
10/25/2017	43	MRAK	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	14065
10/25/2017	43	MRAK	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	14067
10/25/2017	43	MRAK	*Gaillardia*	sp.		Native bee	*Andrena*	sp.	14068
10/25/2017	43	MRAK	*Gaillardia*	sp.		Native bee	*Halictus*	sp.	14069
10/25/2017	43	MRAK	*Abelia*	sp.		Honey bee	*Apis*	*melifera*	14071
10/25/2017	43	MRAK	*Koelreuteria*	sp.		Honey bee	*Apis*	*melifera*	14072
10/25/2017	43	GAZE	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	14073
10/25/2017	43	GAZE	*Duranta*	*erecta*	'Alba'	Honey bee	*Apis*	*melifera*	14074
10/25/2017	43	GAZE	*Abutilon*	sp.		Honey bee	*Apis*	*melifera*	14077
10/25/2017	43	STOR	*Koelreuteria*	sp.		Honey bee	*Apis*	*melifera*	14078
10/25/2017	43	STOR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	14079

10/25/2017	43	STOR	*Rosa*	sp.	Honey bee	*Apis*	*melifera*	14080
10/25/2017	43	STOR	*Salvia*	sp.	Native bee	*Halictus*	sp.	14081
10/25/2017	43	STOR	*Salvia*	sp.	Honey bee	*Apis*	*melifera*	14082
10/25/2017	43	STOR	*Epilobium*	sp.	Honey bee	*Apis*	*melifera*	14083
10/25/2017	43	STOR	*Perovskia*	sp.	Honey bee	*Apis*	*melifera*	14084
10/25/2017	43	STOR	*Alstroemeria*	sp.	Honey bee	*Apis*	*melifera*	14085
10/25/2017	43	STOR	*Aster*	sp.	Native bee	*Halictus*	sp.	14086
10/25/2017	43	STOR	*Gaura*	*lindheimeri*	Native bee	*Andrena*	sp.	14092
10/25/2017	43	STOR	*Gaura*	*lindheimeri*	Native bee	*Agapostemon*	sp.	14093
10/25/2017	43	STOR	*Gaura*	*lindheimeri*	Native bee	*Lasioglossum*	sp.	14094
10/25/2017	43	STOR	*Thymus*	sp.	Honey bee	*Apis*	*melifera*	14095
10/25/2017	43	STOR	*Perovskia*	sp.	Native bee	*Lasioglossum*	sp.	14096
10/25/2017	43	STOR	*Bulbine*	sp.	Honey bee	*Apis*	*melifera*	14097
10/25/2017	43	STOR	*Cercis*	*occidentalis*	Honey bee	*Apis*	*melifera*	14098
10/25/2017	43	STOR	*Salvia*	sp.	Native bee	*Xylocopa*	sp.	14099
10/25/2017	43	STOR	*Rosmarinus*	*officinalis*	Native bee	*Andrena*	sp.	14101
10/25/2017	43	STOR	*Gaillardia*	sp.	Native bee	*Agapostemon*	sp.	14103
10/25/2017	43	STOR	*Pelargonium*	*sidoides*	Honey bee	*Apis*	*melifera*	14105
10/25/2017	43	STOR	*Lavandula*	sp.	Honey bee	*Apis*	*melifera*	14106
10/25/2017	43	STOR	*Ceratostigma*	*plumbaginoides*	Honey bee	*Apis*	*melifera*	14108
10/25/2017	43	STOR	*Oxalis*	sp.	Honey bee	*Apis*	*melifera*	14109
10/25/2017	43	STOR	*Veronica*	sp.	Honey bee	*Apis*	*melifera*	14110
10/25/2017	43	EASI	*Koelreuteria*	sp.	Honey bee	*Apis*	*melifera*	14112
10/25/2017	43	EASI	*Bulbine*	sp.	Honey bee	*Apis*	*melifera*	14113
10/25/2017	43	EASI	*Salvia*	sp.	Native bee	*Xylocopa*	sp.	14114
10/25/2017	43	EASI	*Salvia*	sp.	Honey bee	*Apis*	*melifera*	14115
10/25/2017	43	EASI	*Bahiopsis*	*parishii*	Native bee	*Andrena*	sp.	14116
10/25/2017	43	EASI	*Eriogonum*	sp.	Honey bee	*Apis*	*melifera*	14117
10/25/2017	43	EASI	*Rosa*	sp.	Honey bee	*Apis*	*melifera*	14120
10/25/2017	43	EASI	*Lavandula*	sp.	Honey bee	*Apis*	*melifera*	14121
10/25/2017	43	EASI	*Callistemon*	sp.	Honey bee	*Apis*	*melifera*	14122
10/25/2017	43	EASI	*Buddleja*	*davidii*	Honey bee	*Apis*	*melifera*	14124
10/25/2017	43	SOAF	*Bulbine*	sp.	Honey bee	*Apis*	*melifera*	14125
10/25/2017	43	SOAF	*Origanum*	sp.	Honey bee	*Apis*	*melifera*	14127
10/25/2017	43	SOAF	*Origanum*	sp.	Native bee	*Andrena*	sp.	14128
10/25/2017	43	SOAF	*Euryops*	*pectinatus*	Honey bee	*Apis*	*melifera*	14130
10/25/2017	43	SOAF	*Leonotis*	sp.	Honey bee	*Apis*	*melifera*	14131
10/25/2017	43	MEDI	*Callistemon*	sp.	Honey bee	*Apis*	*melifera*	14132
10/25/2017	43	MEDI	*Arbutus*	*unido*	Honey bee	*Apis*	*melifera*	14133
10/25/2017	43	MEDI	*Lavandula*	sp.	Honey bee	*Apis*	*melifera*	14135
10/25/2017	43	MEDI	*Rosmarinus*	*officinalis*	Native bee	*Andrena*	sp.	14134
10/25/2017	43	MEDI	*Brassica*	sp.	Honey bee	*Apis*	*melifera*	14138
10/25/2017	43	MEDI	*Perovskia*	sp.	Honey bee	*Apis*	*melifera*	14139
10/25/2017	43	MEDI	*Salvia*	sp.	Honey bee	*Apis*	*melifera*	14140
10/25/2017	43	MEDI	*Lavatera*	*maritima*	Honey bee	*Apis*	*melifera*	14141
10/25/2017	43	MEDI	*Teucrium*	sp.	Honey bee	*Apis*	*melifera*	14142
10/25/2017	43	MEDI	*Eucalyptus*	sp.	Honey bee	*Apis*	*melifera*	14143
10/25/2017	43	BOAT	*Origanum*	sp.	Honey bee	*Apis*	*melifera*	14144
10/25/2017	43	BOAT	*Salvia*	sp.	Honey bee	*Apis*	*melifera*	14145
10/25/2017	43	BOAT	*Bulbine*	sp.	Honey bee	*Apis*	*melifera*	14147
10/25/2017	43	COMM	*Rosmarinus*	*officinalis*	Honey bee	*Apis*	*melifera*	14149
11/10/2017	44	AUST_S	*Rhigozum*	*obovatum*	Bumble bee	*Bombus*	sp.	14150
11/10/2017	44	AUST_S	*Parkinsonia*	sp.	Honey bee	*Apis*	*melifera*	14151
11/10/2017	44	AUST_N	*Hebe*	sp.	Honey bee	*Apis*	*melifera*	14152
11/10/2017	44	AUST_N	*Protea*	sp.	Honey bee	*Apis*	*melifera*	14153
11/10/2017	44	AUST_N	*Eucalyptus*	sp.	Honey bee	*Apis*	*melifera*	14154
11/10/2017	44	GATE	*Aster*	sp.	Honey bee	*Apis*	*melifera*	14155
11/10/2017	44	GATE	*Grindelia*	sp.	Native bee	*Andrena*	sp.	14156
11/10/2017	44	GATE	*Eschscholzia*	*californica*	Native bee	*Lasioglossum*	sp.	14157
11/10/2017	44	MWB	*Isomeris*	*arborea*	Honey bee	*Apis*	*melifera*	14160
11/10/2017	44	MWB	*Epilobium*	sp.	Honey bee	*Apis*	*melifera*	14161
11/10/2017	44	ENTR	*Salvia*	sp.	Honey bee	*Apis*	*melifera*	14162
11/10/2017	44	ENTR	*Euryops*	*pectinatus*	Native bee	*Andrena*	sp.	14164
11/10/2017	44	ENTR	*Euryops*	*pectinatus*	Native bee	*Lasioglossum*	sp.	14166
11/10/2017	44	ENTR	*Perovskia*	sp.	Honey bee	*Apis*	*melifera*	14167
11/10/2017	44	ENTR	*Tagetes*	sp.	Native bee	*Andrena*	sp.	14169
11/10/2017	44	ENTR	*Teucrium*	sp.	Honey bee	*Apis*	*melifera*	14171
11/10/2017	44	ACAC	*Acacia*	sp.	Honey bee	*Apis*	*melifera*	14172
11/10/2017	44	LODG	*Veronica*	sp.	Honey bee	*Apis*	*melifera*	14174
11/10/2017	44	BOAT	*Salvia*	sp.	Honey bee	*Apis*	*melifera*	14175
11/10/2017	44	BOAT	*Bulbine*	sp.	Honey bee	*Apis*	*melifera*	14177
11/10/2017	44	BOAT	*Rosmarinus*	*officinalis*	Honey bee	*Apis*	*melifera*	14178
11/10/2017	44	GAZE	*Rosa*	sp.	Honey bee	*Apis*	*melifera*	14179
11/10/2017	44	GAZE	*Abutilon*	sp.	Honey bee	*Apis*	*melifera*	14180
11/10/2017	44	STOR	*Gaura*	*lindheimeri*	Honey bee	*Apis*	*melifera*	14182
11/10/2017	44	STOR	*Scabiosa*	sp.	Honey bee	*Apis*	*melifera*	14183
11/10/2017	44	STOR	*Rosa*	sp.	Honey bee	*Apis*	*melifera*	14185
11/10/2017	44	STOR	*Chrystanthemum*	sp.	Honey bee	*Apis*	*melifera*	14186
11/10/2017	44	STOR	*Bulbine*	sp.	Honey bee	*Apis*	*melifera*	14187
11/10/2017	44	STOR	*Leonotis*	sp.	Honey bee	*Apis*	*melifera*	14188

11/10/2017	44	STOR	*Ceratostigma*	*plumbaginoides*		Honey bee	*Apis*	*melifera*	14189
11/10/2017	44	STOR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	14190
11/10/2017	44	STOR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	14191
11/10/2017	44	EASI	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	14194
11/10/2017	44	EASI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	14195
11/10/2017	44	EASI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	14197
11/10/2017	44	SOAF	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	14198
11/10/2017	44	SOAF	*Euryops*	*pectinatus*		Honey bee	*Apis*	*melifera*	14199
11/10/2017	44	MEDI	*Arbutus*	*unido*		Honey bee	*Apis*	*melifera*	14200
11/10/2017	44	MEDI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	14201
11/10/2017	44	MEDI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	14202
11/10/2017	44	ARGE	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	14203
11/10/2017	44	SWUS	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	14204
11/10/2017	44	SWUS	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	14205
11/10/2017	44	SWUS	*Tagetes*	sp.		Honey bee	*Apis*	*melifera*	14206
11/10/2017	44	SWUS	*Isomeris*	*arborea*		Honey bee	*Apis*	*melifera*	14207
11/10/2017	44	DESE	*Isomeris*	*arborea*		Honey bee	*Apis*	*melifera*	14208
11/10/2017	44	DESE	*Bahiopsis*	*parishii*		Honey bee	*Apis*	*melifera*	14212
11/10/2017	44	DESE	*Veronica*	sp.		Honey bee	*Apis*	*melifera*	14213
11/19/2017	45	GAZE	*Duranta*	*erecta*	'Alba'	Honey bee	*Apis*	*melifera*	14215
11/19/2017	45	GAZE	*Abutilon*	sp.		Honey bee	*Apis*	*melifera*	14216
11/19/2017	45	STOR	*Scabiosa*	sp.		Honey bee	*Apis*	*melifera*	14217
11/19/2017	45	STOR	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	14218
11/19/2017	45	STOR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	14219
11/19/2017	45	STOR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	14220
11/19/2017	45	STOR	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	14222
11/19/2017	45	STOR	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	14223
11/19/2017	45	STOR	*Leonotis*	sp.		Honey bee	*Apis*	*melifera*	14227
11/19/2017	45	STOR	*Verbena*	sp.		Honey bee	*Apis*	*melifera*	14228
11/19/2017	45	STOR	*Chrystanthemum*	sp.		Honey bee	*Apis*	*melifera*	14229
11/19/2017	45	EASI	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	14230
11/19/2017	45	EASI	*Erigeron*		'Wayne Roderick'	Honey bee	*Apis*	*melifera*	14231
11/19/2017	45	EASI	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	14232
11/19/2017	45	EASI	*Lavandula*	sp.		Honey bee	*Apis*	*melifera*	14234
11/19/2017	45	EASI	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	14235
11/19/2017	45	EASI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	14236
11/19/2017	45	EASI	*Eriogonum*	sp.		Honey bee	*Apis*	*melifera*	14237
11/19/2017	45	EASI	*Teucrium*	sp.		Honey bee	*Apis*	*melifera*	14238
11/19/2017	45	SOAF	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	14239
11/19/2017	45	SOAF	*Leonotis*	sp.		Honey bee	*Apis*	*melifera*	14240
11/19/2017	45	MEDI	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	14241
11/19/2017	45	MEDI	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	14242
11/19/2017	45	MEDI	*Teucrium*	sp.		Honey bee	*Apis*	*melifera*	14243
11/19/2017	45	MEDI	*Lavatera*	*maritima*		Honey bee	*Apis*	*melifera*	14244
11/19/2017	45	ARGE	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	14245
11/19/2017	45	SWUS	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	14246
11/19/2017	45	SWUS	*Gaillardia*	sp.		Honey bee	*Apis*	*melifera*	14247
11/19/2017	45	SWUS	*Tecoma*	sp.		Honey bee	*Apis*	*melifera*	14251
11/19/2017	45	SWUS	*Tagetes*	sp.		Honey bee	*Apis*	*melifera*	14252
11/19/2017	45	SWUS	*Isomeris*	*arborea*		Honey bee	*Apis*	*melifera*	14253
11/19/2017	45	DESE	*Larrea*	sp.		Honey bee	*Apis*	*melifera*	14254
11/19/2017	45	DESE	*Bahiopsis*	*parishii*		Honey bee	*Apis*	*melifera*	14257
11/19/2017	45	DESE	*Encelia*	sp.		Native bee	*Agapostemon*	sp.	14261
11/19/2017	45	MRAK	*Gaillardia*	sp.		Native bee	*Andrena*	sp.	14267
11/19/2017	45	MRAK	*Rosa*	sp.		Honey bee	*Apis*	*melifera*	14269
11/19/2017	45	FOOT	*Baccharis*	sp.		Honey bee	*Apis*	*melifera*	14270
11/19/2017	45	ENTR	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	14271
11/19/2017	45	ENTR	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	14274
11/19/2017	45	ENTR	*Tagetes*	sp.		Honey bee	*Apis*	*melifera*	14275
11/19/2017	45	ENTR	*Perovskia*	sp.		Honey bee	*Apis*	*melifera*	14276
11/19/2017	45	ENTR	*Teucrium*	sp.		Honey bee	*Apis*	*melifera*	14277
11/19/2017	45	ACAC	*Acacia*	sp.		Honey bee	*Apis*	*melifera*	14278
11/19/2017	45	BOAT	*Bulbine*	sp.		Honey bee	*Apis*	*melifera*	14281
11/19/2017	45	BOAT	*Salvia*	sp.		Honey bee	*Apis*	*melifera*	14282
11/19/2017	45	COMM	*Rosmarinus*	*officinalis*		Honey bee	*Apis*	*melifera*	14284
11/19/2017	45	AUST_S	*Parkinsonia*	sp.		Honey bee	*Apis*	*melifera*	14286
11/22/2017	46	AUST_S	*Sonchus*	sp.		Native bee	*Halictus*	sp.	14287
11/22/2017	46	AUST_S	*Rhigozum*	*obovatum*		Native bee	*Xylocopa*	sp.	14288
11/22/2017	46	AUST_S	*Parkinsonia*	sp.		Honey bee	*Apis*	*melifera*	14289
11/22/2017	46	AUST_N	*Acacia*	sp.		Honey bee	*Apis*	*melifera*	14291
11/22/2017	46	AUST_N	*Eucalyptus*	sp.		Honey bee	*Apis*	*melifera*	14292
11/22/2017	46	AUST_N	*Protea*	sp.		Honey bee	*Apis*	*melifera*	14293
11/22/2017	46	GATE	*Aster*	sp.		Honey bee	*Apis*	*melifera*	14295
11/22/2017	46	GATE	*Grindelia*	sp.		Native bee	*Agapostemon*	sp.	14297
11/22/2017	46	GATE	*Eschscholzia*	*californica*		Native bee	*Andrena*	sp.	14298
11/22/2017	46	GATE	*Eschscholzia*	*californica*		Native bee	*Lasioglossum*	sp.	14300
11/22/2017	46	GATE	*Eschscholzia*	*californica*		Honey bee	*Apis*	*melifera*	14301
11/22/2017	46	MWB	*Epilobium*	sp.		Honey bee	*Apis*	*melifera*	14302
11/22/2017	46	MWB	*Aster*	sp.		Honey bee	*Apis*	*melifera*	14304
11/22/2017	46	FOOT	*Baccharis*	sp.		Native bee	*Lasioglossum*	sp.	14306

11/22/2017	46	ENTR	*Salvia*	sp.	Honey bee	*Apis*	*melifera*	14307
11/22/2017	46	ENTR	*Rosmarinus*	sp.	Honey bee	*Apis*	*melifera*	14308
11/22/2017	46	ENTR	*Perovskia*	sp.	Honey bee	*Apis*	*melifera*	14309
11/22/2017	46	ENTR	*Teucrium*	sp.	Honey bee	*Apis*	*melifera*	14310
11/22/2017	46	BOAT	*Salvia*	sp.	Honey bee	*Apis*	*melifera*	14311
11/22/2017	46	BOAT	*Salvia*	sp.	Honey bee	*Apis*	*melifera*	14312
11/22/2017	46	COMM	*Bulbine*	sp.	Honey bee	*Apis*	*melifera*	14313
11/22/2017	46	GAZE	*Rosmarinus*	sp.	Honey bee	*Apis*	*melifera*	14314
11/22/2017	46	STOR	*Oxalis*	sp.	Honey bee	*Apis*	*melifera*	14315
11/22/2017	46	STOR	*Salvia*	sp.	Honey bee	*Apis*	*melifera*	14316
11/22/2017	46	STOR	*Bulbine*	sp.	Honey bee	*Apis*	*melifera*	14317
11/22/2017	46	STOR	*Leonotis*	sp.	Honey bee	*Apis*	*melifera*	14318
11/22/2017	46	STOR	*Gaura*	*lindheimeri*	Honey bee	*Apis*	*melifera*	14319
11/22/2017	46	EASI	*Salvia*	sp.	Honey bee	*Apis*	*melifera*	14321
11/22/2017	46	EASI	*Lavandula*	sp.	Honey bee	*Apis*	*melifera*	14322
11/22/2017	46	EASI	*Bulbine*	sp.	Honey bee	*Apis*	*melifera*	14323
11/22/2017	46	EASI	*Rosa*	sp.	Honey bee	*Apis*	*melifera*	14324
11/22/2017	46	EASI	*Teucrium*	sp.	Honey bee	*Apis*	*melifera*	14325
11/22/2017	46	SOAF	*Euryops*	*pectinatus*	Honey bee	*Apis*	*melifera*	14327
11/22/2017	46	SOAF	*Bulbine*	sp.	Honey bee	*Apis*	*melifera*	14328
11/22/2017	46	MEDI	*Rosmarinus*	sp.	Honey bee	*Apis*	*melifera*	14331
11/22/2017	46	MEDI	*Teucrium*	sp.	Honey bee	*Apis*	*melifera*	14332
11/22/2017	46	MEDI	*Lavatera*	*maritima*	Honey bee	*Apis*	*melifera*	14333
11/22/2017	46	ARGE	*Eucalyptus*	sp.	Honey bee	*Apis*	*melifera*	14334
11/22/2017	46	SWUS	*Salvia*	sp.	Honey bee	*Apis*	*melifera*	14337
11/22/2017	46	SWUS	*Gaillardia*	sp.	Honey bee	*Apis*	*melifera*	14338
11/22/2017	46	SWUS	*Tagetes*	sp.	Honey bee	*Apis*	*melifera*	14339
11/22/2017	46	SWUS	*Isomeris*	*arborea*	Honey bee	*Apis*	*melifera*	14340

Appendix 2: All Predicted Versus Actual by Bee

	Predicted	**Actual**
	Binary	No. assoc/yr
	1: yes	
Agapostemon	Blank: n	
Abelia		1
Achillea		1
Alstroemeria		1
Anigozanthos		1
Aster		1
Baccharis		1
Bahiopsis		1
Brassica		1
Carpobrotus		1
Catalpa		1
Citrullus	1	0
Convolvulus		2
Cosmos	1	0
Datura		1
Dendromecon		1
Echinacea		1
Encelia		1
Eremophila		4
Erigeron	1	2
Eriogonum	1	26
Eriophyllum		1
Eryngium	1	0
Eschscholzia		11
Euryops		1
Fragaria	1	0
Gaillardia	1	11
Gaura		11
Grindelia	1	4
Hebe		5
Helianthus	1	5
Heliotropium		5
Ipomoea		2
Iris		2
Kickxia		1
Lagerstroemia		2
Lavatera		2
Leucophyllum		1
Limonium		5
Madia		6
Mentha		6
Monarda		1
Myoporum		7
Origanum		3
Perovskia	1	9
Phacelia		2
Potentilla		1
Rosa		1
Rosmarinus	1	16
Rudbeckia	1	0
Ruellia		8
Salvia		6
Scabiosa		6
Sedum		1

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Senecio		2	
Solanum		1	
Solidago		4	
Sonchus		1	
Sphaeralcea	1	8	
Sternbergia		1	
Symphyotrichum	1	0	
Tagetes		2	
Tecoma		2	
Tradescantia	1	0	
Trifolium		1	
Triteleia		4	
Tulbaghia		2	
Verbena	1	0	
Vernonia		12	
Vitex		8	
Westringia		14	
Wyethia		1	
X Amaristetes		1	
No. Predict:Utilized Assoc.	**7:16**	**73**	**Predict Instances**
No. Actual Assoc.	**64**	**181**	**Novel Instances**
		254	**Tot. Actual Instances**

Andrena	Predicted	Actual
Adenostoma		1
Allium		1
Alstroemeria		1
Anigozanthos		1
Anisodontea	1	0
Apocynum		1
Arbutus		1
Asclepias		1
Aster		1
Athanasia		1
Baccharis		1
Bahiopsis		1
Baileya		1
Brassica	1	1
Bulbine		1
Callistemon		1
Carpenteria		1
Ceanothus	1	1
Centaurea		1
Cerastium		1
Chitalpa		1
Chrysanthemum		1
Clarkia	1	0
Cistus		1
Clematis		1
Convolvulus		2
Correa		1
Cotoneaster		1
Craspedia		1
Datura		1
Delosperma		1
Dendromecon		1
Echinacea		1
Encelia	1	1
Eremophila		1

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Ericameria		1	
Erigeron		24	
Eriogonum		19	
Eriophyllum		5	
Eschscholzia	1	19	
Eucalyptus		2	
Euryops		10	
Fremontodendron		2	
Gaillardia	1	3	
Gaura		7	
Geum		1	
Gilia	1	0	
Grevillea		1	
Grindelia		17	
Hebe	1	0	
Helianthus		1	
Heliotropium		18	
Heteromeles	1	20	
Heuchera		1	
Ipomoea		3	
Iris		4	
Isomeris		1	
Kickxia		4	
Lagerstroemia		1	
Leucophyllum		4	
Limonium		9	
No. Predict:Utilized Assoc.	**6:10**	**45**	**Predict Instances**
No. Actual Assoc.	**57**	**166**	**Novel Instances**
		211	**Tot. Actual Instances**

Anthidellum	Predict	Actual	
Achillea		1	
Acmispon		1	
Agastache		1	
Brassica		1	
Bulbine		1	
Epilobium		2	
Eriogonum		23	
Eschscholzia		1	
Hebe		1	
Kickxia		4	
Lotus		1	
Lupinus		1	
Nepeta		1	
Origanum		4	
Penstemon		1	
Perovskia		11	
Rosmarinus		4	
Salvia		5	
Scabiosa		1	
Solanum		1	
Stachys		1	
Vitex		3	
Westringia		4	
No. Predict Assoc.	**None**	**0**	**Predict Instances**
No. Actual Assoc.	**23**	**74**	**Novel Instances**
		74	**Tot. Actual Instances**

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Agastache		1	
Amorpha		1	
Aster		1	
Baileya		1	
Ballota		2	
Bulbine		1	
Encelia		1	
Eriogonum		6	
Gaillardia		1	
Galium		1	
Gaura		1	
Grevillea		1	
Hebe		1	
Heliotropium		1	
Isomeris		1	
Kickxia		5	
Lagerstroemia		1	
Larrea		1	
Lavandula	1	4	
Leucophyllum		1	
Lupinus	1	3	
Nepeta		1	
Origanum		2	
Penstemon	1	1	
Perovskia	1	3	
Phlomis		1	
Rosmarinus	1	0	
Ruellia		1	
Salvia	1	50	
Scabiosa		1	
Stachys	1	21	
Teucrium		5	
Vitex		1	
Westringia		7	
No. Predict:Utilized Assoc.	**6:7**	**82**	**Predict Instances**
No. Actual Assoc.	**33**	**48**	**Novel Instances**
		130	**Tot. Actual Instances**

Anthophora	Predict	Actual
Anisodontea	1	0
Buddleja		1
Bulbine		1
Ceanothus	1	0
Chilopsis		1
Coreopsis	1	0
Cosmos	1	0
Dendromecon		1
Echinacea	1	0
Echium	1	0
Encelia		1
Erigeron	1	0
Eriogonum	1	0
Grevillea		1
Grindelia	1	2
Hebe		1
Heliotropium		1
Lavandula	1	4
Nepeta	1	0
Pallenis	1	0

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Penstemon	1	0	
Perovskia	1	3	
Phacelia	1	0	
Rosmarinus		2	
Ruellia		1	
Salvia	1	7	
Scabiosa		1	
Solanum		1	
Stachys	1	0	
Tagetes	1	0	
Teucrium	1	1	
Verbena		3	
Veronica		1	
Vitex	1	2	
Westringia		2	
No. Predict:Utilized Assoc.	**6:20**	**19**	**Predict Instances**
No. Actual Assoc.	**21**	**19**	**Novel Instances**
		38	**Tot. Actual Instances**

Apis melifera	Predict	Actual
Abelia	1	1
Abies		1
Abutilon		2
Acacia		1
Acca		1
Achillea		1
Adenostoma		1
Aesculus	1	1
Agapanthus		1
Agastache	1	1
Albizia		1
Allium		1
Aloysia		1
Alstroemeria	1	1
Amorpha		1
Apocynum		1
Aptenia	1	2
Arbutus		1
Arctostaphylos	1	1
Asclepias	1	1
Aster	1	1
Baccharis		1
Bahiopsis		1
Ballota		2
"Beans" (unknown genus)	1	0
Billardiera		1
Borago	1	0
Brasilia		1
Brassica		1
Brugmansia		1
Buddleja		1
Bulbine		1
Bupleurum		1
Bursaria		1
Caesalpinia		1
Calliandra		1
Callistemon		1
Capparis		1
Ceanothus	1	1

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Centaurea	1	1
Cephalanthus		1
Cerastium		1
Ceratostigma		1
Cercidium		1
Cercis		1
Chaenomeles		1
Chasmanthe		1
Chilopsis		1
Chitalpa		1
Chrystanthemum		1
Cistus		1
Citrullus	1	0
Clarkia	1	1
Clematis		1
Cleome		1
Cneorum		1
Colletia		1
Convolvulus		2
Corethrogyne		1
Cornus		1
Correa		1
Cosmos	1	0
Cotoneaster	1	1
Craspedia		1
Crataegus	1	0
Crinodendron		1
Cucumis	1	0
Dalea	1	0
Datura		1
Delosperma		1
Dendromecon		1
Deutzia		1
Dianella		1
Digitalis		1
Dracaena		1
Duranta		1
Echinacea	1	1
Echium	1	1
Ehretia		1
Elaeagnus		1
Encelia		1
Ephedra		2
Epilobium		47
Eremophila		17
Erica		2
Ericameria		1
Erigeron		26
Eriogonum	1	62
Eriophyllum		7
Erysimum		2
Erythrina		10
Escallonia	1	0
Eschscholzia		46
Eucalyptus		33
Euryops		10
Foeniculum		5
Fragaria	1	0
Fremontodendron		20

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Gailardia		40
Gaura	1	36
Geranium	1	22
Geum		2
Gilia	1	0
Glaucium		1
Gossypium	1	0
Gomphostigma		1
Grevillea		49
Grewia		1
Grindelia		3
Hakea		4
Hardenbergia		5
Hebe	1	8
Hedera	1	0
Heimia		1
Helianthus	1	1
Heliotropium		17
Helleborus		3
Hemerocallis		1
Heracleum		4
Hesperaloe		6
Heteromeles	1	36
Heuchera		35
Hibiscus		10
Horkelia	1	0
Hydrangea		1
Hypericum		2
Ipomoea		5
Iris		1
Isomeris		20
Jasminum		1
Kickxia		4
Kniphofia		1
Koelreuteria		18
Lagerstroemia		22
Lantana		5
Larrea		8
Lathyrus	1	0
Lavandula	1	93
Lavatera		19
Leonotis		13
Leptospermum	1	2
Leucophyllum		22
Libertia		1
Ligustrum	1	8
Limonium		17
Lippia		2
Lonicera		7
Lotus		2
Lupinus	1	2
Lycianthes		1
Lyonothamnus	1	1
Madia		2
Magnolia		7
Malacothamnus		1
Malosma		1
Malus	1	1
Malva		4

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Marrubium	1	0
Melaleuca		7
Mentha		26
Millettia		1
Mimosa		8
Monarda	1	3
Monardella	1	0
Muhlenbergia		1
Myoporum		45
Myrtus	1	10
Nepeta	1	54
Nerium		1
Nicotiana		6
Nolina		5
Oenothera		1
Opuntia		2
Origanum	1	78
Ornithostaphylos		1
Osmanthus		2
Osteomeles		5
Osteospermum		3
Oxalis		18
Papaver	1	0
Parkinsonia		16
Pavonia		2
Pelargonium	1	4
Penstemon	1	29
Perovskia	1	65
Phacelia	1	2
Philadelphus		1
Phlomis		6
Phyla	1	0
Physocarpus		1
Pittosporum	1	6
Plumbago		4
Poncirus		2
Protea		12
Prunus	1	22
Pseudotsuga		1
Pterocephalus		7
Pyracantha	1	0
Pyrus	1	1
Quillaja		4
Raphanus		2
Rhamnus	1	9
Rhaphiolepis		3
Rhigozum		4
Rhus		2
Romneya		3
Rosa		89
Rosmarinus	1	100
Rubus	1	0
Ruellia		10
Russelia		1
Salvia	1	189
Santolina		2
Sapium		1
Saponaria		1
Scabiosa	1	42

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Schinus	1	0
Scilla		4
Scrophularia		1
Sedum		20
Senbrosa		1
Senecio		6
Senna		1
Solanum	1	0
Solidago	1	14
Sollya		2
Sophora		2
Sphaeralcea		4
Spiraea		2
Stachys	1	9
Staphylea		1
Syringa		2
Tagetes		6
Taraxacum		1
Tecoma		9
Teucrium	1	102
Thymus		27
Tilia		3
Tipuana		9
Trachelospermum		1
Tradescantia		1
Trichostema	1	0
Trifolium	1	42
Tristaniopsis	1	0
Triteleia		7
Tulbaghia		15
Ungnadia		1
Urginea		2
Vaccinium	1	0
Vauquelinia		2
Verbena		20
Veronica		34
Viburnum		1
Vicia		7
Vitex		49
Westringia		28
Wisteria		1
X Amaristetes		2
X Chitalpa		5
x Pyracomeles		2
Yucca		6
Zieria		1
No. Predict:Utilized Assoc.	**44:69**	**1067**	**Predict Instances**
No. Actual Assoc.	**238**	**1254**	**Novel Instances**
		2321	**Tot. Actual Instances**

Ashmeadiella	Predict	Actual
Cryptantha	1	0
Encelia	1	0
Erigeron	1	0
Linaria	1	0
Penstemon	1	0
Perovskia	1	0
Phacelia	1	0
Rosmarinus	1	0

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Salvia		1	
No. Predict:Utilized Assoc.	**0:8**	**0**	**Predict Instances**
No. Actual Assoc.	**1**	**1**	**Novel Instances**
		1	**Tot. Actual Instances**

Bombus	Predicted	Actual
Acacia		1
Adenostoma		1
Agapanthus		1
Agastache	1	1
Alstroemeria	1	1
Amorpha		1
Anisodontea	1	0
Apentia	1	0
Aquilegia		1
Arbutus		1
Arctostaphylos	1	1
Bahiopsis		1
Ballota		1
Berberis		1
Borago	1	0
Buddleja		1
Bulbine		1
Bursaria		1
Calendula	1	0
Callistemon		2
Capsicum	1	0
Carpenteria	1	0
Ceanothus	1	1
Centaurea	1	0
Cephalanthus		1
Cercis		1
Cerinthe	1	0
Chaenomeles		1
Chilopsis		1
Chitalpa		1
Chrysanthemum	1	0
Cistus	1	1
Citrullus	1	0
Clarkia	1	1
Correa		1
Cosmos	1	0
Cotoneaster	1	0
Crataegus	1	0
Cynara	1	0
Delosperma		1
Delphinium	1	0
Deutzia		1
Dianella		1
Duranta		1
Echium	1	1
Ehretia		1
Elaeagnus		1
Encelia		1
Equisetum		1
Eremophila		1
Erigeron		1
Eriogonum	1	9
Eriophyllum		2

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Eryngium	1	0
Erysimum		1
Escallonia	1	0
Eschscholzia	1	23
Eucalyptus		5
Eupatorium	1	0
Fremontodendron		1
Gaillardia		4
Galvezia		1
Gaura		2
Geranium	1	10
Geum		3
Grevillea		14
Hebe	1	0
Helianthus	1	0
Heteromeles	1	4
Heuchera		30
Hibiscus		1
Holodiscus	1	0
Horkelia	1	0
Hypericum		3
Iberis		1
Iris		3
Isomeris		6
Lathyrus	1	0
Lavandula	1	27
Liatris	1	0
Ligustrum	1	0
Linaria	1	0
Lonicera		7
Lupinus		11
Lycianthes		3
Lyonothamnus	1	0
Madia		1
Malus	1	0
Malva		1
Melaleuca		5
Mimosa		1
Monarda		3
Monardella	1	0
Myoporum		1
Myrtus		1
Nandina		1
Nepeta	1	4
Origanum		5
Osteomeles		1
Oxalis		1
Parkinsonia		3
Penstemon	1	8
Perovskia		1
Phacelia	1	6
Philadelphus		1
Pittosporum	1	0
Protea		1
Prunus	1	2
Rhamnus		1
Rhigozum		3
Rhus		1
Ribes		4

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Rosa		12	
Rosmarinus		3	
Rubus	1	0	
Salvia	1	52	
Scabiosa		17	
Scrophularia		2	
Senbrosa		1	
Senecio		2	
Senna		3	
Sideritis		2	
Solanum	1	1	
Spiraea		1	
Stachys		9	
Staphylea		1	
Teucrium		15	
Thermopsis		1	
Tipuana		5	
Trifolium	1	2	
Tristaniopsis	1	0	
Triteleia		1	
Vaccinium	1	1	
Verbascum		1	
Verbena		5	
Veronica		2	
Vicia		1	
Vitex	1	14	
Westringia		5	
Wyethia		1	
X Chitalpa		1	
No. Predict:Utilized Assoc.	**21:53**	**170**	**Predict Instances**
No. Actual Assoc.	**109**	**255**	**Novel Instances**
		425	**Tot. Actual Instances**

Ceratina	Predicted	Actual
Allium		1
Aster	1	0
Bahiopsis		1
Calendula	1	0
Carpobrotus		1
Encelia		1
Erigeron	1	7
Eriophyllum		1
Eschscholzia		3
Euryops		1
Fremontodendron		1
Geranium	1	2
Geum		1
Grindelia	1	0
Heliotropium		3
Heuchera		1
Hypericum		1
Nepeta	1	0
Opuntia		1
Oxalis		1
Pelargonium	1	0
Perovskia	1	0
Rosa		2
Rosmarinus		1
Salvia	1	2

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Scabiosa		1	
No. Predict:Utilized Assoc.	**3:9**	**11**	**Predict Instances**
No. Actual Assoc.	**20**	**22**	**Novel Instances**
		33	**Tot. Actual Instances**

Coelioxys	Predicted	Actual	
Apentia	1	0	
Apocynum		1	
Calendula	1	0	
Cosmos	1	0	
Echinacea	1	0	
Eriogonum		2	
Rosmarinus		1	
Salvia		1	
Trifolium		1	
No. Predict:Utilized Assoc.	**0:4**	**0**	**Predict Instances**
No. Actual Assoc.	**5**	**6**	**Novel Instances**
		6	**Tot. Actual Instances**

Diadasia	Predicted	Actual	
Baileya		1	
Calystegia	1	0	
Convolvulus	1	0	
Coreopsis	1	0	
Echinops		1	
Encelia		1	
Erigeron		1	
Ferocactus		1	
Helianthus	1	0	
Malacothamnus	1	0	
Oenothera		1	
Opuntia	1	10	
Ratibida	1	0	
Sphaeralcea	1	4	
No. Predict:Utilized Assoc.	**2:8**	**14**	**Predict Instances**
No. Actual Assoc.	**8**	**6**	**Novel Instances**
		20	**Tot. Actual Instances**

Eucera	Predicted	Actual	
Bulbine		1	
Erysimum	1	0	
Geranium		1	
Iris		1	
Lavandula	1	4	
Nepeta	1	0	
Salvia		2	
Scophora		1	
Verbena		1	
No. Predict:Utilized Assoc.	**1:3**	**4**	**Predict Instances**
No. Actual Assoc.	**7**	**7**	**Novel Instances**
		11	**Tot. Actual Instances**

Habropoda	Predicted	Actual
Arctostaphylos	1	0
Berberis	1	0
Ceanothus	1	0
Cercis	1	0
Comarostaphylis	1	0
Echium	1	0

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Juglans	1	0	
Lavandula		1	
Liatris	1	0	
Phacelia	1	0	
Prunus	1	0	
Quercus	1	0	
Salvia	1	2	
Solanum	1	0	
Vaccinium	1	0	
Vicia	1	0	
No. Predict Assoc.	**1:15**	**2**	**Predict Instances**
No. Actual Assoc.	**2**	**1**	**Novel Instances**
		3	**Tot. Actual Instances**

Halictus	Predicted	Actual
Abelia		1
Acacia		1
Acca		1
Achillea		1
Agapanthus		1
Agastache		1
Aloysia		1
Alstroemeria		1
Anemopsis		1
Anigozanthos		1
Apocynum		1
Asclepias		1
Aster	1	1
Athanasia		1
Baccharis		1
Bahiopsis		1
Baileya		1
Ballota		1
Bidens	1	0
Brassica		1
Buddleja		1
Bulbine		1
Bupleurum		1
Bursaria		1
Calandrinia		1
Callistemon		1
Calostemma		1
Campanula		1
Carpenteria		1
Carpobrotus		1
Ceanothus	1	1
Centaurea		1
Ceratostigma		1
Cercis		1
Chilopsis		1
Chitalpa		1
Chrysanthemum		1
Cistus	1	1
Clarkia		1
Clematis		1
Cneorum		1
Convolvulus		2
Coreopsis	1	0
Corethrogyne		1

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Cotoneaster	1	0
Craspedia		1
Delosperma		1
Dendromecon		1
Echinacea		1
Encelia		1
Epilobium		8
Eremophila		1
Ericameria		2
Erigeron	1	51
Eriogonum	1	56
Eriophyllum		10
Eryngium		3
Erysimum		2
Erythrina		1
Eschscholzia	1	85
Eucalyptus		3
Euryops		15
Foeniculum		3
Fremontodendron		2
Gaillardia		63
Gaura		12
Geum		2
Glaucium		2
Gomphostigma		1
Grevillea		1
Grindelia		28
Hebe		1
Helianthus	1	3
Helichrysum		1
Heliotropium		24
Hemerocallis		1
Heracleum		1
Hesperaloe		4
Heteromeles		7
Hibiscus		1
Ipomoea		6
Isomeris		3
Kickxia		7
Lagerstroemia		22
Larrea		1
Lavandula		2
Lavatera		1
Leonotis		1
Leucophyllum		17
Limonium		17
Lotus		1
Madia		8
Malva		1
Mentha		21
Mimosa		1
Monarda		1
Myoporum		8
Nerium		1
Nolina		4
Origanum		3
Oxalis		3
Ozothamnus		4
Papaver		1

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Pallenis	1	0	
Pelargonium		1	
Penstemon		2	
Perideridia		3	
Perovskia		2	
Phacelia		1	
Portulaca		1	
Prunus		2	
Pycnosorus		2	
Rhodophiala		1	
Rosa		17	
Rosmarinus		22	
Rubus	1	0	
Ruellia		4	
Salvia	1	49	
Sambucus		1	
Saponaria		1	
Scabiosa	1	14	
Sedum		1	
Senecio		4	
Solidago	1	33	
Sonchus		6	
Sphaeralcea		11	
Stachys		2	
Syzygium		1	
Tagetes		4	
Tecoma		7	
Teucrium		4	
Thymus		3	
Trifolium		8	
Triteleia		1	
Tulbaghia		5	
Venegasia		2	
Verbena		1	
Vernonia		13	
Vitex		6	
Westringia		9	
Wyethia		2	
X Amaristetes		1	
Xerochrysum		1	
No. Predict:Utilized Assoc.	**10:15**	**294**	**Predict Instances**
No. Actual Assoc.	**138**	**530**	**Novel Instances**
		824	**Tot. Actual Instances**

Hoplitis	Predicted	Actual
Achillea		1
Acmispon		1
Anemopsis		1
Apocynum		1
Asclepias		1
Athanasia		1
Baileya		1
Convolvulus		1
Cryptantha	1	0
Encelia	1	1
Erigeron	1	0
Eriogonum		4
Glaucium		1
Heliotropium		4

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Heteromeles		4	
Horkelia		1	
Hypericum		1	
Isomeris		2	
Linaria	1	0	
Malosma		1	
Origanum		1	
Ozothamnus		1	
Penstemon	1	0	
Perovskia	1	1	
Phacelia	1	0	
Rosmarinus	1	0	
Salvia		1	
No. Predict:Utilized Assoc.	**2:8**	**2**	**Predict Instances**
No. Actual Assoc.	**21**	**29**	**Novel Instances**
		31	**Tot. Actual Instances**

Hylaeus	Predicted	Actual
Achillea	1	0
Alstroemeria		1
Anthriscus		1
Apocynum		1
Aster	1	0
Athanasia		1
Brassica		1
Bulbine		1
Ceanothus	1	1
Clematis		1
Convolvulus		1
Craspedia		1
Datura		1
Erigeron	1	4
Eriogonum	1	7
Eryngium		1
Eschscholzia		3
Eucalyptus		1
Gaura		2
Grindelia		1
Heliotropium		1
Heracleum		2
Heteromeles		3
Ipomoea		2
Isomeris		2
Leucophyllum		6
Limonium		1
Mentha		2
Nepeta		2
Nolina		1
Penstemon		2
Perideridia		1
Perovskia		1
Phacelia	1	1
Rhamnus		1
Rosa		9
Rosmarinus		1
Ruellia		1
Salvia		1
Solidago	1	1
Sonchus		1

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Sphaeralcea		1	
Stachys		1	
Trichostema		1	
Tulbaghia		7	
Urtica		1	
Vitex		2	
No. Predict:Utilized Assoc.	**4:7**	**13**	**Predict Instances**
No. Actual Assoc.	**45**	**72**	**Novel Instances**
		85	**Tot. Actual Instances**

Lasioglossum	Predicted	Actual
Achillea		1
Acmispon		1
Allium		1
Alstroemeria		1
Anigozanthos		1
Apocynum		1
Aquilegia		1
Asclepias		1
Aster		1
Athanasia		1
Baccharis		1
Bahiopsis		1
Baileya		1
Berberis		1
Billardiera		1
Brassica		1
Bulbine		1
Bupleurum		1
Calandrinia		1
Calostemma		1
Capsicum	1	0
Carpobrotus		1
Ceanothus		1
Chaenomeles		1
Cistus		1
Citrullus	1	0
Clarkia		1
Clematis		1
Convolvulus		2
Coreopsis	1	0
Correa		1
Cucumis	1	0
Datura		1
Delosperma		1
Dendromecon		1
Duranta		1
Epilobium		6
Eremophila		2
Erigeron	1	25
Eriogonum		33
Eriophyllum		1
Eryngium	1	1
Erysimum		1
Eschscholzia	1	25
Euryops		3
Fragaria	1	0
Fremontodendron		1
Gaillardia		1

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Gaura		3
Geum		1
Glaucium		1
Hebe		2
Heimia		1
Heliotropium		26
Hemerocallis		2
Heteromeles		1
Heuchera		7
Horkelia		2
Ipomoea		1
Isomeris		2
Kickxia		5
Lagerstroemia		4
Larrea		1
Lavandula		1
Lavatera		1
Leucophyllum		5
Limonium		5
Lippia		1
Lobularia		1
Madia		1
Malacothamnus		1
Malosma		2
Mimosa		1
Mimulus		1
Monarda		1
Myoporum		5
Nepeta		5
Nicotiana		2
Oenothera		1
Opuntia		1
Origanum		9
Oxalis		5
Ozothamnus		2
Pelargonium		1
Penstemon		8
Perovskia		8
Plumbago		1
Prunus	1	1
Pycnanthemum	1	0
Raphanus		1
Rosa		7
Rosmarinus		7
Salvia		38
Saponaria		1
Scabiosa		14
Sedum		4
Solanum	1	1
Solidago	1	3
Sollya		1
Sonchus		1
Sphaeralcea		3
Spiraea		1
Stachys		1
Symphyotrichum	1	0
Teucrium		1
Thymus		2
Trichostema		1

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Triteleia		1	
Tulbaghia		4	
Vaccinium	1	0	
Verbena		1	
Veronica		5	
Vitex		3	
Westringia		1	
Zephyranthes		2	
No. Predict:Utilized Assoc.	**5:14**	**55**	**Predict Instances**
No. Actual Assoc.	**107**	**310**	**Novel Instances**
		365	**Tot. Actual Instances**

Megachile	Predicted	Actual
Abelia		1
Acacia		1
Acmispon		1
Adenostoma		1
Agastache		1
Aloysia		1
Alstroemeria	1	1
Amorpha	1	1
Anisodontea	1	0
Apentia	1	0
Apocynum		1
Aquilegia		1
Arctotheca	1	0
Asclepias		1
Aster	1	1
Baileya		1
Ballota		1
Bidens	1	0
Brassica	1	1
Buddleja		1
Bulbine		1
Bupleurum		1
Bursaria		1
Calendula	1	0
Centaurea	1	1
Cerastium		1
Cercidium		1
Chilopsis		1
Chitalpa		1
Chrysanthemum	1	0
Cistus	1	1
Citrullus	1	0
Clarkia	1	1
Cleome		1
Coreopsis	1	0
Cosmos	1	0
Cotoneaster	1	0
Craspedia		1
Cynara	1	0
Dasylirion		1
Delosperma		1
Deutzia		1
Dracaena		1
Duranta		1
Echinacea	1	0
Encelia		1

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Epilobium		1
Eremophila		6
Erigeron	1	13
Eriogonum	1	41
Eriophyllum		4
Eryngium	1	1
Erysimum		2
Eschscholzia	1	1
Eucalyptus		2
Foeniculum		1
Gaillardia	1	1
Gaura		6
Geranium	1	0
Gilia	1	0
Gomphostigma		1
Grevillea		5
Grewia		1
Grindelia	1	1
Hebe	1	3
Helenium	1	0
Helianthus	1	0
Heliotropium		12
Hesperaloe		1
Heteromeles		17
Heuchera		1
Horkelia	1	0
Isomeris		2
Kickxia		4
Lagerstroemia		5
Lantana		1
Larrea		3
Lathyrus	1	0
Lavandula	1	6
Leucophyllum		3
Ligustrum		1
Limonium		7
Lotus	1	0
Lupinus		2
Madia	1	0
Malosma		1
Malus	1	0
Marrubium	1	0
Medicago	1	0
Melaleuca		1
Mentha		8
Monardella	1	0
Myoporum		4
Myrtus	1	1
Nepeta	1	3
Nepeta	1	0
Nolina		9
Oenothera	1	0
Origanum	1	0
Opuntia		1
Origanum		16
Oxalis		1
Pallenis	1	0
Parkinsonia		6
Penstemon	1	3

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Perovskia	1	16	
Phacelia	1	0	
Rosa		6	
Rosmarinus	1	12	
Rubus	1	0	
Rudbeckia	1	0	
Ruellia		1	
Salvia	1	26	
Santolina		1	
Scabiosa	1	1	
Sedum		14	
Solanum		2	
Solidago		1	
Sollya		2	
Sphaeralcea		1	
Stachys	1	0	
Tagetes	1	0	
Taraxacum	1	0	
Tecoma		4	
Teucrium		2	
Thymus		2	
Tithonia	1	0	
Trifolium		2	
Triteleia		2	
Tulbaghia		1	
Urginea		2	
Vaccinium	1	0	
Verbena	1	0	
Veronica		1	
Vicia	1	0	
Vitex	1	15	
Vitis		1	
Westringia		9	
Yucca		1	
No. Predict:Utilized Assoc.	**23:61**	**151**	**Predict Instances**
No. Actual Assoc.	**101**	**217**	**Novel Instances**
		368	**Tot. Actual Instances**

Melissodes	Predicted	Actual
Abelia		1
Alstroemeria		1
Anemopsis		1
Aster	1	1
Bahiopsis		1
Baileya		1
Bidens	1	0
Bulbine		1
Carpobrotus		1
Centaurea		1
Cistus		1
Citrullus	1	0
Convolvulus		1
Coreopsis	1	0
Cosmos	1	0
Cucumis	1	0
Echinacea	1	1
Encelia		13
Erigeron		1
Eriogonum		6

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Eryngium	1	1	
Eschscholzia		3	
Gailardia	1	35	
Gaura		2	
Grindelia		8	
Hebe		3	
Helianthus	1	3	
Heliotropium		2	
Heteromeles		2	
Hibiscus		3	
Isomeris		1	
Lantana		1	
Lavandula	1	1	
Leucophyllum		1	
Limonium		3	
Madia	1	4	
Malva		1	
Mentha		6	
Monarda		1	
Nepeta	1	3	
Nerium		2	
Oenothera		1	
Optunia		4	
Ozothamnus		2	
Perovskia		11	
Picris	1	0	
Pterocephalus		1	
Ratibida	1	0	
Rosa		1	
Rudbeckia	1	0	
Ruellia		3	
Salvia		22	
Scabiosa	1	20	
Silphium	1	0	
Solidago		5	
Sophora		1	
Sphaeralcea		3	
Stachys		1	
Tagetes		2	
Teucrium		1	
Thymus		1	
Tithonia	1	0	
Triteleia		1	
Venegasia		1	
Veronica		2	
Vitex		15	
Westringia		5	
No. Predict:Utilized Assoc.	**9:19**	**69**	**Predict Instances**
No. Actual Assoc.	**57**	**152**	**Novel Instances**
		221	**Tot. Actual Instances**

Nomada	Predicted	Actual	
Arbutus		1	
Ceanothus		1	
Eriogonum		2	
Scabiosa		1	
Zieria		1	
No. Predict:Utilized Assoc.	**None**	**0**	**Predict Instances**
No. Actual Assoc.	**5**	**6**	**Novel Instances**

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		6	**Tot. Actual Instances**

Osmia	Predicted	Actual	
Berberis	1	0	
Bidens	1	0	
Calendula	1	0	
Carpenteria	1	0	
Cercis	1	0	
Coreopsis	1	0	
Crataegus	1	0	
Echium	1	0	
Echium	1	0	
Ehretia		1	
Encelia	1	1	
Erigeron	1	0	
Eriophyllum		1	
Gilia	1	0	
Grindelia	1	0	
Hebe	1	0	
Lavandula	1	0	
Malus	1	0	
Marrubium	1	0	
Pelargonium	1	0	
Penstemon	1	1	
Phacelia	1	0	
Phacelia	1	0	
Prunus	1	0	
Prunus	1	0	
Prunus	1	0	
Prunus	1	0	
Pyrus	1	0	
Rhigozum		1	
Rosa		3	
Rubus	1	0	
Rubus	1	0	
Salix	1	0	
Salvia		7	
Solidago	1	0	
Sophora		1	
Stachys	1	0	
Trifolium	1	0	
Vaccinium	1	0	
Venegasia		1	
Westringia		1	
No. Predict:Utilized Assoc.	**2:33**	**2**	**Predict Instances**
No. Actual Assoc.	**10**	**16**	**Novel Instances**
		18	**Tot. Actual Instances**

Peponapis	Predicted	Actual	
Asclepias	1	0	
Citrullus	1	0	
Cucumis	1	0	
Cucurbita	1	0	
Ipomoea	1	0	
Tecoma		6	
X Amaristetes		1	
No. Predict:Utilized Assoc.	**5**	**0**	**Predict Instances**
No. Actual Assoc.	**2**	**7**	**Novel Instances**
		7	**Tot. Actual Instances**

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Sphecodes	Predicted	Actual	
Datura		1	
No. Predict:Utilized Assoc.	**None**	**0**	**Predict Instances**
No. Actual Assoc.	**1**	**1**	**Novel Instances**
		1	**Tot. Actual Instances**

Stelis	Predicted	Actual	
Craspedia		1	
Heteromeles		1	
No. Predict Assoc.	**None**	**0**	**Predict Instances**
No. Actual Assoc.	**2**	**2**	**Novel Instances**
		2	**Tot. Actual Instances**

Svastra	Predicted	Actual	
Alstroemeria		1	
Aster		3	
Baileya		1	
Cosmos	1	0	
Echinacea		5	
Encelia		3	
Eriogonum		2	
Eschscholzia		1	
Gaillardia		13	
Galium		1	
Grindelia		13	
Helianthus	1	0	
Heteromeles		1	
Lavandula		1	
Limonium		1	
Mentha		2	
Origanum		1	
Pavonia		1	
Ratibida	1	0	
Perovskia		1	
Salvia		7	
Scabiosa		5	
Solidago		1	
Sphaeralcea		1	
Veronica		4	
Vitex		3	
Westringia		1	
No. Predict Assoc.	**3**	**0**	**Predict Instances**
No. Actual Assoc.	**24**	**73**	**Novel Instances**
Tot. Assoc. Instances		**73**	**Tot. Actual Instances**

Triepeolus	Predicted	Actual
Asclepias		1
Aster		1
Baileya		1
Correa		1
Craspedia		1
Echinops		1
Encelia		5
Eriogonum		6
Gaillardia		8
Grindelia		5
Heliotropium		1
Limonium		1

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Mentha		5	
Myoporum		1	
Nepeta		1	
Origanum		2	
Ozothamnus		2	
Perovskia		7	
Rumex		1	
Salvia		4	
Scabiosa		6	
Tagetes		1	
Verbena		1	
Vitex		1	
No. Predict Assoc.	**None**	**0**	**Predict Instances**
No. Actual Assoc.	**24**	**64**	**Novel Instances**
		64	**Tot. Actual Instances**

Xylocopa	Predicted	Actual
Acca		1
Adenostoma		1
Aesculus		1
Agastache	1	1
Albuca		1
Allium		1
Aloysia		1
Amaryllis		1
Amorpha		1
Arbutus		1
Arctostaphylos		1
Asclepias		1
Bahiopsis		1
Brassica	1	0
Bulbine		1
Calliandra		1
Callistemon		1
Canna		1
Carpobrotus		1
Ceanothus	1	1
Cercidium		1
Cercis	1	1
Chilopsis		1
Chionanthus		1
Chitalpa		1
Cistus		1
Clarkia		1
Cleome		1
Cotoneaster		1
Datura		1
Delosperma		1
Deutzia		1
Dianella		1
Digitalis		1
Encelia		1
Epilobium		8
Eremophila		2
Eriogonum		3
Eriophyllum		1
Fremontodendron		7
Gaillardia		3
Galvezia		1

Gaura		3
Grevillea		26
Grewia		4
Grindelia		2
Hakea		1
Hardenbergia		1
Hebe	1	1
Hesperaloe		1
Heteromeles		1
Heuchera		1
Hibiscus		5
Hypericum		1
Iris		5
Isomeris		5
Isopogon		1
Koelreuteria		4
Lantana		3
Larrea		3
Lavandula	1	2
Lavatera		1
Leucophyllum		1
Lonicera		1
Lupinus		4
Malus	1	0
Malva		1
Melaleuca		2
Monarda	1	0
Myrtus		3
Nandina		1
Nicotiana		2
Parkinsonia	1	19
Passiflora		2
Penstemon		14
Perovskia		3
Phacelia	1	0
Philadelphus		4
Phlomis		4
Pittosporum	1	0
Polygala		1
Prunus		2
Rhaphiolepis		1
Rhigozum		5
Rosa		3
Rosmarinus	1	2
Rubus	1	0
Ruellia		2
Russelia		2
Salvia	1	102
Saponaria		1
Scabiosa		2
Scophora		1
Senna		4
Silphium	1	0
Solidago	1	0
Sollya		1
Sophora		3
Stachys		3
Syringa		1
Tecoma		10

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Teucrium		6	
Tipuana		7	
Ungnadia		1	
Vaccinium	1	0	
Verbascum		1	
Vicia		1	
Vitex		9	
Westringia		3	
X Amaristetes		1	
No. Predict:Utilized Assoc.	**8:17**	**129**	**Predict Instances**
No. Actual Assoc.	**101**	**237**	**Novel Instances**
		366	**Tot. Actual Instances**

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Title: Application of spatial and temporal habitat analysis to assess California bee habitat patch dynamics and potential for landscape fragmentation in the anthroscape

Abstract:
In spite of the vital pollination ecosystem services bees provide, humans continue to destroy and fragment bee habitat without providing appropriate habitat solutions. To date, no specific solutions are available to identify and remedy bee habitat fragmentation. Precise habitat analysis is needed to determine where and when habitat gaps occur in bee habitats. Only then can specific strategic habitat solutions be determined and designed. Bees are a diverse group of pollinating organisms, among which their foraging preferences and ranges demonstrate much variation. This study uses geographic information systems (GIS) technology to measure the geographic distances between pollinator foraging plants throughout one year. Comparisons of the expected (potential) habitats and observed (utilized) foraging associations test the ability of recommended plant lists to attract and sustain bee genera. Examining these results spatially helps to shed light on how and when bee habitat fragmentation occurs over a human-dominated landscape, the "anthroscape." GIS mapping helps to show geographically how bee foraging trends are spatially and temporally distributed, giving further insight into how pollinator habitat patch dynamic networks function and where gaps potentially occur. The fully mapped plant collections in the UC Davis Arboretum, composed of 35 public gardens, landscape was used to test bee-to-flower foraging associations along with the spatial implications of these novel ecosystems. Additionally, due to the linear layout of the Arboretum it was possible to test habitat patch fragmentation among individual bee genera and the gardens, a relatively fine scale analysis. Since bees vary greatly in their foraging range abilities, those differences in range were accounted for in the mapping model. Two habitat relationship models were made to compare how differing plant pallete schemes would compare. Spatial habitat analysis was done to compare potential versus actual bee foraging trends and how bee foraging habitat utilization works in a landscape system. Results demonstrate a variety of habitat utilization trends among bee genera. Most bees, especially those with large foraging radii, exhibited little to no habitat fragmentation. Conversely, bees with small foraging radii sometimes encountered more patchy habitat utilization. Moreover, GIS maps of monthly versus annual temporal aggregates of foraging patterns revealed differences between monthly and annual aggregate habitat maps. This study sheds light on how bees might be expected to forage spatially in this fully mapped series of unique themed garden ecosystems. These findings suggest how bees perceive and utilize "anthroscapes" and suggests that fragmentation is more common for bees with smaller foraging ranges at the landscape scale. By assessing the Arboretum thoroughly from many diverse bees' perspectives, it is possible to identify ecological shortcomings and design ecologically strategic and precise habitat solutions to combat spatial and temporal habitat fragmentation.

Keywords: Bees, Pollinators, Reconciliation, Landscape Ecology, Habitat, Design

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1. Introduction

1.1 The importance of bees

Bees are a diverse suite of insects which provide the greatest percentage of plant pollination in the world (Lonsdorf et al., 2011; Michener 2007). The ecosystem services that bees provide are essential to people and the world's ecosystems. Bees also pollinate the majority of food plants that humans consume (Frankie et al., 2009; Lonsdorf et al., 2011; Rogers et al., 2014). It is estimated that up to two-thirds of food crops for humans require bee pollination (Xerces 2011a) of which native bees have been estimated to contribute, around 50 percent of bee foraging activity (Kennedy et al., 2013). California is an agricultural hot-spot of the world, producing large quantities of field crops, fruits, nuts and vegetables. In 2019 the total value of principal crops in California was over $33 billion, the second-most productive state was less than half that amount (USDA 2020). There are estimated to be between 1,600 to 2,000 species of bees in California (AMNH 2018; Michener 2007), of which 46 bee species within 17 genera are found commonly in Californian cities (Frankie et al., 2014). Bees are indispensable drivers of ecosystem pollination, aiding greatly to plant reproductive success and biodiversity (Newman et al., 2013), the foundation of an enormous diversity of other organisms. Effective bee pollination across a variety of landscape types helps to ensure self-sustainable cities and human communities (Lowenstein et al., 2015; Stange et al.,2018).

This research focuses on the connection between plants and the attracted foraging bees. This study connects the floral landscape to pollinator foraging events taking place on it. For example, a landscape's plant community composition is known to be a main predicting factor in the presence or absence of bees (Hung et al. 2019; Williams et al., 2010). Many studies focus on bee foraging habitats and have tried to quantify the attractiveness of plants to bees (Frankie 2003, 2014; Xerces, 2011a, b). While plant list short-comings are part of the problem with evaluating bee habitats (Garbuzov and Ratnieks, 2014; Chapter 1), understanding how spatial implications play out across a landscape is essential to enhance understanding of patch dynamics and the potential effects of fragmentation.

As noted above, in Chapter 1 we determined that actual bee foraging preferences varied greatly from published expected foraging associations. This research builds on Chapter 1's findings, by examining if spatial and temporal habitat usage was limited by a poor understanding of bee forage plants or not. This research study compares the smaller WHR plant selection with the full plant selection which bees used for forage in Chapter 1. By taking this approach, this research examines spatial habitat utilization (patch dynamics) and infers potential implications (fragmentation). The study examines whether the differences in plant palette usage (i.e., the suite of floral resources used) made a large difference or not in utilized habitat.

1.2 Bee habitat issue: fragmentation

Habitat fragmentation, degradation and destruction are cited as the main reasons for declines in California native bee populations (Williams et al., 2010; Winfree et al., 2011; Koh et al., 2016). Drawing from the theories of island biogeography (McArthur and Wilson 1968, Laurance 2008) and metapopulation dynamics (Hanski 1999), fragmentation is defined as suitable habitat patches being too far apart to support sustainable bee populations. On an individual level fragmentation could lead to isolation, or the inability to disperse to another habitat patch for requisite resources, for example, lack of flowers (Goulson, et al., 2015). Spatial isolation of habitat patches has been found to decrease diversity of bees in urban landscapes (Buchholz et al., 2020). Even in naturalistic habitat fragments, there have been shifts of bee abundance and richness due to isolation (Hung et al., 2017; Hung et al., 2019). Overall, anthropogenic disturbances have significant negative effects on wild bees (Winfree et al., 2009). However, in areas with less than 50% impervious surface pollinators still seem to provide sufficient pollination services to wild vegetation and crops (Wenzel et al. 2020).

Currently bee life history literature does not concur on which scale of habitat fragmentation has the largest impact. For example, some studies concentrate at the entire world scale (Hung et al., 2017) the North American continent scale (NWF 2022), the entire United States country scale (Koh et al., 2016), and the smallest studies are said to be at the microsite, consisting of several point locations, several miles across (Landsman et al., 2019), additionally, Cane et al. (2006) compared bee ecological characteristics such as dietary breadth. Most of the abovementioned research focused more on European honey bees, though studied less often native bees were included in some studies.

There are landscape elements which are completely inhospitable to bees and can be defined as habitat destruction, for example: paved surfaces and the footprint area buildings use (with the notable exception of green roofs). Habitat degradation to bees consists of detrimental changes of a site. For example, a dramatic shift in vegetation cover of a formerly naturalistic site will have effects on the bees which utilized the former floral resources. Bees' responses to such shifts will vary (Carrie et al., 2016; Williams et al. 2010), as their foraging habits, obligate versus generalist, are similar to butterflies in California (Graves and Shapiro 2003). In terms of foraging some bees have benefitted from predominantly human shaped and dominated landscapes (Kapur and Zucca 2017), while other bees decline (Wilson and Jamieson 2019; Cariveau and Winfree 2007; 2015).

Habitat gaps may also occur temporally, depending on plant phenological patterns, leading to patch isolation or connectivity (Wray and Elle 2014). Bee foraging preferences, whether polylectic (generalist foragers) or oligolectic (specialist foragers), can also be an origin of habitat fragmentation if a landscape is not suitable. For bees, if sufficient floral resources are not available, that represents a non-foraging area, possibly a population sink. This phenomenon may lead to ecological filtering, reducing bee diversity (Hung et al., 2019). Current bee foraging plant lists have limitations in their ability to predict a bee genera's presence or absence (see results from Chapter 1; Garbuzov and Ratnieks, 2014). Nevertheless, measuring bee-to-flower associations is a starting point to understanding the potential that there is habitat fragmentation for bees. Identification of the most basic levels where and when habitat fragmentation occurs is essential to determine before conservation remedies can be prescribed. It is essential to investigate these spatial problems with geographic tools to aid in bee conservation using empirical relationships with which bees experience their world.

1.3 Bee habitat issue: foraging radius

Bees vary widely in their foraging distance (radius) ability from a nest (Greenleaf et al., 2007). Bee body size has been shown to be an indicator of forage diameter radii (Greenleaf et al., 2007). Based on published body size data (Xerces 2011a), bees may forage up to 2 mi (3,218 m) maximum for only European honey bees, 1 mi (1,609 m) for large bodied bees such as *Bombus* and *Xylocopa*, mid-sized bees are most common and average 0.25 mi (410 m), and the smallest bees are estimated at only 0.11 mi (182 m) from their nests (Table 1). Bee foraging radii is traditionally measured by the distance between a bee's nest and its foraging range (Grab et al., 2019). However, determining individual nesting locations for solitary native bees is extremely difficult and not attainable or reliable based on current bee research studies (using pollen dye, radio trackers, and other bee tracking methods), often taking a long time and often not gleaning results quickly enough for this research spatial scale and quantity of data (Everaars et al., 2018; Lopez-Uribe et al., 2015; Persson, et al., 2018; Torne-Noguera et al., 2014; Wray and Elle 2014). Given the intractability between locating nests of individual bees observed foraging in gardens, a general assumption is made in this study that foraging instances are relatively closely linked in proximity to nest locations, and therefore the foraging data points are used as a proxy for nesting locations. These foraging radii are for female bees, which create and care for nests, rather than males, which utilize the landscape differently (Roswell et al., 2019). Importantly, maximum foraging ranges represent an extreme limit on travel, as most individual bees will not travel as far as the maximum (Zurbuchen et al., 2010). In traditional metapopulation literature, differences between home range movement versus individual dispersal have been studied with more charismatic animals (Jacobson and Peres-Neto 2010), but these movement dynamics have not been studied thoroughly in relation to bees. Among the limited extant bee dispersal research studies, results align with previously cited research regarding bee body size, degree of host plant specialization and bee sociality (Bommarco et al., 2010; Jauker et al., 2009).

1.4 Bee habitat issue: horticultural plants

The human landscape's horticultural gardens can be florally diverse, contributing to an array of potential habitat types for bees (Chapter 1). Furthermore, bee foraging preferences are not well understood, but are crucial to mitigate pollinator population declines (Collado et al., 2018). Thus, the role that horticultural garden conditions can contribute to increasing bee population numbers needs to be identified. Conversely, horticultural conditions which provide little to no benefit to bees should also be identified and avoided or discouraged. Studies conducted thus far have indicated a variety of responses of bees to managed landscapes, including both increased bee richness in some anthropogenic sites (Choate et al., 2018) or some have shown decreased bee diversity in anthropogenic sites (Harrison et al., 2019). However, overall, many land use activities are known to be detrimental to bee communities (Winfree et al., 2009).

There is also evidence that the characteristics of gardens (e.g., plant diversity) can influence bees' success in a habitat (Main et al., 2019; Landsman et al., 2019). Conversely, habitat simplification (i.e., lowered plant diversity) is known to have a negative effect on bee populations (Grab et al., 2019). Furthermore, plant community composition across a spatial gradient has been reported to have an effect on plant-pollinator resilience as a whole (Kelly and Elle 2020). Therefore, it is important to assess both composition and configuration of anthropogenic landscapes to determine why pollination ecosystem services occur in greater or lesser frequency across the landscape (Verhagen et al., 2016). Floral abundance, richness and spatial distribution have been noted to affect native bee communities (Plascencia and Philpott 2017), but the effect of these variables needs to be explored in more detail, and across a larger variety of garden types. Presence of weeds seems to enhance bee presence as well (Bretagnolle and Gaba 2015; Gaba, et al., 2020; Kleiman, et al., 2021). Overall, bees respond differently to anthropogenic conditions and it is essential to study the variety of responses to maximize conservation efforts (Torne-Noguera, et al., 2014). Overall, current habitat remedies involve providing adequate floral resources and increasing floral diversity (Kline and Joshi 2020). Reconciliation ecology, a conservation science technique used in human dominated habitats (Rosenzweig 2003), has been promising for other organisms and is highly applicable for bees.

1.5 The Anthroscape: the human dominated landscape

In recent years, scientists have used the term "Anthropocene" (Lewis and Maslin 2015) to describe the current geological epoch which by definition states how far humans have influenced Earth's global biogeochemistry. Similarly, at the landscape scale, humans have dominated and changed Earth's terrestrial ecosystems dramatically, leading to the term "anthroscape" (Eswaran et al., 2010; Ellis 2011). Notable in recent times, our (human) infrastructure often excludes wildlife and represents an ecological sink or void. For example, paved roads offer no value to bees. Buildings and their footprints aid in reducing viable bee habitat. Notably, some horticultural planting schemes may represent opportunities to bees. Waterways, ponds, pools represent sinks to nearly all bees, the exception being *Apis melifera* (European honey bee) which has low tolerance for critical water content and need fresh water to survive whereas native California bees have very high tolerance for critical water content and do not need fresh water bodies regardless of being in urban or rural ecosystems (Burdine and McCuney 2019). The degree to which bees living in human-dominated areas act as source habitats to adjacent landscapes should be explored further.

1.6 Main Research Questions

This research study aims to pinpoint when and where various bee genera experience habitat patch dynamics (cyclic habitat utilization) versus habitat fragmentation (habitat gaps acting as geographic barriers on bee populations). Though bee and flower phenology are discussed at length in the literature, (Malagnini et al., 2022; Malfi et al., 2021) it has not been formally explored from an explicitly spatial perspective at the landscape scale. As such, this is the first study (known to this author) to document bee habitat spatial and temporal dynamics providing important novel insight for future bee conservation efforts or further studies in bee habitat fragmentation.

The main research questions covered in this paper include: (1) What (where and when) constitutes a gap in native bee pollinator habitat? (2) How do bees' annual spatial patterns of potential versus realized habitat function over a year? (3) How can bee foraging maps be used to conduct conservation gap analysis at a local scale? (4) How do partial and full WHR plant palettes compare in terms of habitat modeling for bees? and, (5) What are the implications of this research for bee habitats?

To help solve these complicated topics, the wildlife-habitat relationship (WHR) models developed for bees in Chapter 1 are used here to spatially estimate and measure gaps in bee genera pollination networks. The spatial analyses presented in this study shed light on the degree of real-world bee habitat fragmentation. Monthly observed bee georeferenced data which were compiled in Chapter 1, are here analyzed via GIS maps. Seasonality of both bees and flowers were integrated in the mapping model analysis in an effort to identify where and when bee potential habitat gaps and potential fragmentation might occur

The spatial distribution patterns of suitable, insufficient, or unsuitable habitat for bees are still poorly understood, yet essential to understand for native bee conservation purposes. This study investigates if bee foraging maps can be used to conduct both spatial and temporal habitat gap analysis.

2. Materials and methods

2.1 Study area description

The UC Davis Arboretum and Public Garden (hereafter 'Arboretum'), located in California's Central Valley, is a unique environment to study bee patch dynamics and potential habitat fragmentation. The curated plant collection is fully mapped and contains 35 gardens along the linear Arboretum landscape ("UC Davis Arboretum," 2014). Each themed garden has a distinct geographically defined border, and plants are identified/labeled to the plant species, subspecies, or cultivar level. Arboretum maps are spatially accurate within two meters (Morgan and Greco 2019).

2.2 GIS mapping model

Computer geographic information systems (GIS) technology, using ArcGIS version 10.7.1 (ESRI, 2018), was employed to investigate and calculate where and when habitat gaps occur for bees in the anthroscape. The theoretical framework was based on wildlife-habitat relationships (WHR) conservation science modeling (Morrison et al. 2006; Cooperrider, 1986). In Chapter 1, monthly WHR foraging models were developed for each bee genus observed in the Arboretum. This chapter (Chapter 2) applies the predictive foraging models spatially, using the Arboretum's geodatabase of mapped plants. Using this approach, a GIS predictive bee foraging model was developed and tested on-site with fieldwork to verify and quantify differences (Chapter 1). Every plant (over 15,000 individual plantings) in the Arboretum was mapped with geographic coordinates as part of an earlier Arboretum study (Morgan and Greco 2019).

A WHR matrix was created in Chapter 1 to determine the currently understood foraging relations between bees and flowers. The WHR matrix was made based on published association data and then updated with empirical evidence from Chapter 1.

2.3 Plant bloom phenology integration into the GIS model

Plant phenology was researched for all foraging plants identified in Chapter 1, where bees utilized 298 plant genera, 39 of which were not included in the Arboretum geodatabase ("Arboretum", 2014) (see Chapter 1, Table 2 for foraging bee-to-plant trends). Plant bloom time characteristic data were primarily collected from the CalFlora database which provided bloom times for approximately half of the Arboretum's plants and were added to the initial Arboretum geodatabase (CalFlora 2014; Chapter 1). Other bloom times were researched from the most reputable sources available (Brenzel 2007, Daves Garden 2017, Lady Bird Johnson 2017). In the rare occasions where bloom times were not readily available, research was done for the remaining plants based on existing scientific literature.

Monthly bloom times were generalized to the plant genus level by recording the longest demonstrated bloom duration recorded for the plant genus or for any species within it. If research needed to be done to determine a bloom time, often, only the genus phylogenetic level of identification was possible. Though generalizations are not ideal from both phylogenetic and temporal perspectives, we believe these are reasonable estimates of responses based on the information currently available. Moreover, the same genus identification level of plant was possible in the field and is consistent throughout the study. Though originally recorded in Microsoft Excel (Excel 2019), the bloom time table was subsequently joined to the Arboretum's plant records table in the geodatabase (a relational database), assigning a bloom duration by month to every plant genus. The GIS bloom time model is able to query all plants bloom by month.

2.4 Bee phenology integration

Expected bee forage seasonality was researched (BugGuide Website 2020; Frankie 2014; Xerces 2011a, b) and compiled into a single table, to aid in determining any unexpected phenological behavior of bee genera. With the underlying plant phenological information added into the project (Calflora 2014) we were capable of making predictive habitat maps for bee genera and comparing observed active foraging phenology.

2.5 On-site verification of GIS bee-to-plant association model

Observational bee-to-plant data collection was done on weekly intervals and compiled into monthly aggregates minus redundant association data per month (Chapter 1). Each of the Arboretum's gardens was sampled with random ordering, with some exceptions due to construction access issues and the fact that the Arboretum path is linear, composed of a loop, thus, garden sampling order followed the provided path, but the direction and starting point were randomized throughout the study to reduce time-of-day bias. Sampling was conducted for one calendar year, starting in January 2017 and ending in November 2017. Importantly, bee-to-plant data were collected by garden, each of which represents a unique novel ecosystem, with distinct geographic boundaries.

2.6 Spatial and temporal analysis

The GIS model allows for Arboretum plants to be queried in ArcGIS by plant name, garden location and bloom month. By using the bee-to-plant association matrix created in Chapter 1, a set of annual predictive habitat maps were made for each bee genus by month to document patch dynamics. Utilized habitat layers were derived from on-site empirical field data. This study uses maps to identify: (1) potential habitat, (2) utilized habitat, (3) overlap between [1] and [2], and (4) identify where utilized habitat is not contiguous, i.e., where habitat gaps occur within utilized habitat. The aim is to identify non-contiguous habitat areas to identify potential habitat fragmentation.

Comparisons of gardens as habitat value can be demonstrated in map form. Gardens have demonstrated great variability in their role as ecosystems. As seen in Chapter 1, some gardens have extremely high functionality as bee habitat overall, and over time, while others do not.

2.6.1 Spatial and temporal analysis of plant foraging area

WHR predicted and observed habitat were assessed by comparing their polygonal area and overlap or lack thereof. First, potential foraging habitat was mapped by querying and buffering suitable plant locations (for both partial and full WHR models) for each bee genus in Chapter 1. The buffer distance used was based on the foraging radii of the respective bee genera being examined. Table 1 lists all bee genera and their estimated foraging distances (e.g., 182, 410.5, 1609, or 3218 meters).

All mapping methods were implemented entirely with ArcGIS (Esri, Redlands, CA). The entire plant map methods section is diagrammed in Part A of Figure 1. To map potential habitat for each bee genus WHR model, plant genus names were queried in ArcMap using the 'select by attributes' tool. Then a new layer of the selected plants was made by exporting the Arboretum's plant point geodatabase layer (see Step 2, Figure 1). The plant point data were then buffered with the respective bee genus' foraging radius. The buffer distance was based on the bee genera's body size (Table 1). All plants were selected and buffered at the relevant radii before further analysis was done (see Step 3, Figure 1).

Next, the buffered individual plant point data were combined using the 'merge' tool (Step 4, Figure 1), and then followed by the 'dissolve' tool (Step 5, Figure 1) to eliminate interior boundaries and create a single polygon of contiguous predicted habitat (Product "A"). See Table 2 for an example of one bee genus' predicted potential habitat with bloom times. The area for each contiguous habitat polygon was then calculated. It should be noted that plants not found in the Arboretum geodatabase were excluded from the mapping analysis.

2.6.2 Technical steps for spatial temporal analysis of observed (known utilized) bee habitat area

See Figure 1, Part B for a diagram of all observed bee habitat mapping steps. Bee location dataset points were added to the model using the 'geotagged photos to points' tool (Step 6, Figure 1). Then a dissolved buffer of the bee's foraging radii was conducted (Step 7). As above, bee habitat polygon areas were calculated. These steps created product "B" which is shown in hatch pattern. This is the map layer from which habitat patch dynamics continuity or fragmentation can be assessed.

2.6.3 Technical steps for determining monthly spatial intersects

Using the spatial 'intersect' tool in ArcGIS, overlays were created to compare spatial co-occurrence (overlap) between potential plant habitat with utilized foraging area. See Part C, Figure 1 for a diagram of intersect map methodology. These analyses were done in monthly increments (time steps) per bee genus. Percentages of intersect were also computed to help understand when habitat deficiencies occurred. By calculating the annual aggregation versus the monthly increments, more analysis can be performed to identify temporal habitat continuity or shortcomings (gaps). Figure 2 shows an example of a completed predicted habitat versus a utilized habitat area map for *Agapostemon* over the month of April (2017).

2.6.4. Annual habitat and intersect methods

A combined analysis was also completed for a combination of the entire year's data. See Step 9 on Figure 1 for additional information. Annual potential plant maps were created by combining (via merge and dissolve) all monthly plant maps together, creating an annual version of map "A." Next, all monthly bee data maps were combined (again, with merge and dissolve) to create an annual version of the "B." Finally, maps Annual "A" and Annual "B" were calculated for their degree of intersect, which is shown with a bold outline, aka Annual "C." See Appendix 1, page 1, to see an example of a whole year combination for *Agapostemon*.

2.6.5. Partial and Full WHR versions

A set of maps was made for each of the partial and full WHR model versions. Partial WHR data is based on the published literature as defined in Chapter 1. Full WHR data includes both the published literature as well as the plants observed utilized for forage at the conclusion of Chapter 1.

3. Results

3.1 Phenology trends of bees, plants, and gardens over one year

Garden design had a major effect on ecological value for bees. Overall, the number of gardens hosting bee foraging and the number of bee genera were quite consistent over time (figure 3). The number of floral resources, available to bees showed a marked increase in availability around April through August (peaking in May). While the number of foraging bee genera remained fairly constant, at approximately 13 bee genera on average. There was a clear turnover of bee genera throughout the year (see Table 3 for a full phenological analysis of bee genera).

Most arboretum bees seem to experience habitat continuity (shown with contiguous hatch pattern) while only a few seem to experience gaps between utilized habitat areas. Area measurements were also made of each polygon and shown in Table 6 and Appendix 2. Both of which help to demonstrate the area calculations from each bee genera's monthly and annual habitat trends. The complete tabular mapping data for all bees is shown in Appendix 5. See Table 6 for an example of the tabular monthly analysis of predicted versus utilized forage area and annual combination maps' data, denoted as "annual" for bee genus *Agapostemon*.

3.2 Phenological tables for both partial and full WHR plant lists

Once the bloom time records had been compiled, we applied that knowledge to both WHR models and observed foraging plants lists to investigate differences in what humans are prescribing as recommended bee habitat plants versus how bee's view and utilize their forage landscapes.

Table 4 shows bloom times for all plants suitable for bees per the literature and the partial WHR models from Chapter 1. The partial model contains 134 plant genera. The lowest predicted bloom month was December with only 28 possibly blooming plants. June was the month predicted to have the highest amount of plant genera blooming, with 120. Additionally, Table 5 demonstrates bloom times all plants observed for forage full WHR forage by bees in the Arboretum. The lowest predicted bloom month was December with 70 plant genera and the highest was June with 245 potential plant genus blooms.

The totals for Table 4 and Table 5 have been summarized in Figure 4. While both tables help to visualize the potential floral resource in each month throughout the year with detail, Figure 4 compares the totals per month directly between the full and partial WHR model. Figure 4 demonstrates that bees are using nearly double the number of flowering plants per month than the partial WHR model suggests.

3.3 Bee habitat mapping results overview

The partial WHR (shown in Appendix 1) has less potential foraging habitat than the full WHR (Appendix 3). Area measurements and comparisons for both models are shown in Appendix 5. Thirteen result maps were produced for each bee genus for both the partial and full WHR models. One map was made for each month as well as an annual composite map (See Appendix 1 and Appendix 3 for all maps). Each bee genera map page has 13 maps per page for both the partial (Appendix 1) and full (Appendix 3) WHR models. Overall, 21 bee genera were expected to be seen in the Arboretum, being commonly found in California, however, one genus, *Colletes*, was never observed. I found 27 bee genera foraging total in the Arboretum, five (*Anthidiellum*, *Nomada*, *Sphecodes*, *Stelis*, *Triepeolus*) of which were not commonly found throughout California. Foraging data sources varied in their ability to accurately predict if bees were common at the study site. For example, all but one of the bee genera (i.e., *Colletes*) described as common from the Frankie et al. 2014 source was confirmed for forage within the Arboretum. The Xerces list contained five bee genera (*Centris*, *Exomalopsis*, *Augochlora*, *Dieuomia*, and *Chelostoma*), none of which were observed in the Arboretum. Overall, a great diversity of bee genera and their various foraging plants demonstrated the enormous ecological value of the Arboretum to native bees, which the full model demonstrated more effectively.

3.4 Full WHR: Spatial demonstration of bee preferences

In the full WHR habitat map set, the vast majority of bees show broad swaths of potential habitat throughout most months. Bees with the largest foraging radii utilized the highest amount of area, for example, *Apis*, *Bombus*, and *Xylocopa* all were calculated to be utilizing 90% of the grey potential habitat area.

4. Discussion

4.0 Spatial analysis of bee habitat patch dynamics or fragmentation

WHR modeling revealed how rich the Arboretum is as a resource for native California bees, representing a near best case scenario in terms of habitat continuity in space and time. While all gardens do not function equally, there are plenty of bee foraging plants. Most bees appear to have connected (spatially contiguous) habitat for the annual compilations (twelve-month combinations). Even the partial WHR plant selection shown in Appendix 1, demonstrated abundant habitat throughout the entire length of the Arboretum for most bee genera. The full WHR habitat map set (Appendix 3) demonstrates spatially how strategic planting design can have key positive effects on native bees, even in human-dominated and artificially created environments. We hope that the compiled bloomtime database will serve as a possible source to aid in further plant phenological studies in the future. The full WHR results enforce the notion that bees do not experience habitat fragmentation in the Arboretum at their foraging scales.

4.1 Ecological effects of urban garden design on bees

Importantly, garden design plant palettes were shown to have a significant ecological impact on the site's bees. There appears to be several explanations for these differences. First, certain plants are more attractive to some bee genera and not to others. Another explanation may be that plant genera with different bloom times affect when and where bees will forage. Furthermore, garden peak blooms were offset between gardens, even the top two, for example, the MWB native plant garden experiences peak bee-to-flower associations in May, nearly identical association values are shown in the ornamental STOR garden in August (Chapter 1). Thus, while both the MWB and STOR gardens demonstrate the best floral resource provisions and foraging in the entire Arboretum, their plant palettes create a significant variation in timing. These data show the spatial implications of the suitability of foraging plants, to ensure that basic bee foraging needs would be met in a strategic manner.

California offers a high degree of both plant and bee diversity (Michener 2007). High plant and bee diversity values contribute to novel foraging association re-combinations (known and unknown) of bees and plants (Papanikolaou et al., 2017). With the demonstrated opportunistic foraging demonstrated in Chapter 1, there appears to be great potential for further integration of these bee genera into human-dominated (anthroscape) environments. While some bees are being supported in these systems, the response currently varies. Importantly, most urban landscapes do not consistently possess the characteristics of plantings within the Arboretum (i.e., the number of suitable species and bloom times throughout the year). Strategic planting design work could be done to maximize creation of more suitable anthroscape habitats for bees, in both spatial and temporal dimensions. Novel urban ecosystems have been known to provide habitat value for both bees and other animal species (Fischer et al., 2013; Hobbs et al., 2014; Kowarik 2011; Kueffer and Kaiser-Bunbury 2014; Lundholm and Richardson 2010).

Bee genera experience urban landscapes differently from each other due to variation in bee foraging preferences, annual timing, and foraging distance. For example, *Bombus*, an early spring-emerging generalist, forages on many plants in bloom in the Mary Wattis Brown (MWB) California native garden. However, a mid-summer-emerging bee, such as *Peponapis*, which specializes on particular (squash and some desert) flowers, would be limited in finding forage plants throughout much of the year. Consequently, *Peponapis* is confined to the mid-summer-peaking gardens with appropriate flowers, found in such places as the Southwest U.S. and Desert (SWUS, DESE) gardens in the Arboretum. Based on these examples, the timing and types of both bees and flowers creates dynamic habitat availability and usage throughout the year in time and space.

For bees, plants in a site will be assessed as either attractive for foraging or not. It is known that unique horticultural planting designs represent novel ecosystems to pollinators (Frankie et al., 2019; Garrido et al., 2019; Hinners 2014; Hobbs et al., 2009; Hobbs et al., 2013; Nash et al., 2019, Rosenzweig 2016). This research assists in gaining spatial clarity and understanding about which native bees use novel ecosystems in horticultural plantings. This information should help aid landscape designers best modify and improve existing anthroscapes to maximize pollination ecosystem services for the future. In this way, novel ecosystems can be designed to act as bee source habitats, which will contribute to ecological resilience. These findings suggest that habitat continuity should be studied at this scale or coarser.

Through mapping, observation, and analysis this type of research helps us to spatially understand how well various bee genera could persist in urban habitats. The term 'bees' encompasses a diverse suite of bee types, each with their own foraging preferences, dispersal abilities and other habitat requirements. Ultimately, this study provides insight into which urban habitats (i.e., plant species and communities) provide the best floral resources to native California bee genera to promote habitat continuity and combat habitat fragmentation.

4.2 Gardens function as novel ecosystems

Some gardens are providing greater beneficial floral resources to foraging bees, such as the MWB and STOR gardens in the Arboretum than others. As seen in Chapter 1, both the MWB and STOR gardens far outperformed all other Arboretum gardens and are in effect acting as beneficial novel ecosystems, created and managed by people. The most ecologically valuable Arboretum gardens for bees showed high floral diversity in this study. This trend was also found by Parreno et al. (2021) where diversity, abundance, and health of wild bees was found to be the primarily driven by land-use modifications and that pollinator conservation depends, in part, on remedying negative land-use trends. It is important to preserve natural and human-made habitats to help harbor bees, other beneficial insects and benefits to other ecosystem services (Correia da Rocha-Filho et al., 2019; Wratten, et al., 2012).

On the other hand, some gardens in the Arboretum represent poor habitat and did not support bee pollinators in terms of forage activity. The poorest gardens for bee foraging, with less than bee foraging visits for the year included: ACAC (Acacia Grove), COAS (North Coast), ERIC-N (North Ericaceae), MOUN (Shields Mound), and WALN (Walnut Grove). In comparison with other garden rankings, the gardens listed above were far below the average bee to garden annual visitation rate average of 132. Extrapolating garden variation findings to the greater context scale shows how important the success of each garden is to habitat network connectivity. By examining bee foraging associations prior to designing gardens , we can ensure that, for example, a designer would not opt for *Acacia* trees (because they bloom early in the season when bees are emerging) since they do not seem to hold much value to bee foraging. If too many poor habitats are adjacent to each other, habitat fragmentation can occur. On the other hand, if suitable forage habitat is adjacent to each other across the landscape, habitat connectivity will be gained, which would be beneficial to bee pollination networks. This research started to explore the characteristics (likely relating to floral pallete, proximity, abundance, and richness) which define suitable bee habitat, analyzed in terms of spatial and temporal relationships. Overall, in the Arboretum, it can be said that though some gardens are not very good, they are close enough in proximity to better habitat that the effects are not sufficiently strong enough to prevent bee foraging.

4.3 Utilizing knowledge about bee foraging and life history is an essential feedback best management practice

By careful examination of bee habitat usage, we can identify more precisely the habitat's shortcomings and make precise habitat improvements and recommend best design and management practices for bees. Chapter 1 results showed how native bees are using far more foraging plants than are currently promoted through pollinator literature. The difference between the partial and full WHR results, which encompass the broader bee diet preference findings, suggest that bringing more data to our models will provide . The partial WHR models are inferior and show a smaller portion of pollinator foraging potential. Conversely, the full models reflect a more robust planning tool. This research has helped to identify possible floral genera to fill in temporal gaps as a result. We examined habitat for its degree of continuity and/or fragmentation as a function of patch dynamics. Regardless of whether partial or full WHR foraging plants were accurate or not, we were still able to determine where bees were foraging or were not and investigate the spatial implications.

These results suggest that human-dominated systems can be beneficial for native bees. This research explored in-depth analysis bee habitat continuity and its converse, fragmentation, which is known to be the major habitat obstacle facing bees today in landscapes lacking plant diversity. By building and empirically testing bee spatial and temporal habitat models, we can begin to improve habitat remedies and their accuracy. This research demonstrates how high quality and connected habitats can support an incredible diversity of bees. The full WHR map results demonstrate what an ideal landscape would look like in terms of annual patch dynamics. Effective conservation strategies are needed to help bees maintain sustainable and thriving populations. he characteristics of the diverse MWB and STOR gardens holds the key to developing more effective best design practices.

4.4 Reconciliation ecology is the best approach for designing bee habitats

Reconciliation ecology has proven to be an effective conservation practice in human-dominated landscapes (Rosenzweig 2003). We propose that a reconciliation ecology paradigm provides the best framework for future resilient bee habitat design. In Chapter 1 we found both native and naturalized bees are opportunistic anthroscape foragers. The data have shown there are benefits to using both California native plants as well as non-natives to achieve peak foraging habitat for California native bees. As seen in the Arboretum's themed gardens, bees utilize the novel plantings that were selected for drought tolerance and aesthetics. It is unlikely (and unrealistic) that human-dominated landscapes only contain native plants. Therefore, a realistic 'compromise' should be struck with garden design to maximize foraging habitat for bees. By combining the best foraging Arboretum plants, landscape designers can measurably improve foraging habitats for native bees. However, defining which plants constitute the "best" is a nuanced decision to be made by a designer depending on the design priorities. Does the designer want to cater to a variety of bees? Or perhaps one bee genus? Other designers may prioritize native bees or include European Honey bees. (See Chapter 1, Appendix 2 for foraging results by bee genera. See Chapter 2, Table 3 for bee phenology. See Chapter 2, Table 4 and Table 5 for plant phenology. See Chapter 3, Presentation slides 15-18 for selected plant lists based on foraging results).

Design responses for improving bee habitat are likely to be very specialized to increase foraging optimization at the design sites. For example, in California's Central Valley drought tolerance is a very important plant attribute since water will likely become less available in the future. Though native bees do not drink water directly, drought can affect vegetation by contributing to smaller and less prolific flowering and presumably nectar (Hung et al. 2021) which can result in less flower visits for bumble bees (Kuppler et al., 2021). Furthermore, these plant selection trends are not unique to California. For example, research from the United Kingdom has shown the need to check and update recommended plant lists to achieve the desired results (Anderson et al., 2020). In regard to native bees' contribution to agriculture there are many factors to consider if California native bees can aid in crop pollination. Much research is currently being done on how to best design for these novel ecosystems (Diekotter et al., 2014; Garibaldi et al., 2013; Monzon,et al., 2020; Ponissio and Kremen 2016; Sanchez et al., 2019). Therefore, a landscape design framework should be responsive to a site's prioritized ecological needs. It is fortunate that human, ecological, and bees' needs can all be integrated for greater effects.

4.5 Suitable garden design for bees should consider both time and space

Current prescriptions to combat bee habitat fragmentation often suggest choosing long blooming plants (Xerces 2011a; Frankie et al., 2014). Appropriate plants should be chosen which will help to fulfill the *temporal* aspects of bee genera foraging to satisfy their annual resource needs. Table 3 and Appendix 1 both suggest that in some cases, lack of floral resources may be an issue to some bees. In some cases, bees were found outside of their expected seasonality. Exact phenological patterns should be studied at a site to determine exact local timing trends. This is an opportunity for studies such as Anderson et al. (2020) to explore regularly using foraging feedback data to inform and update local plant lists for bees. Furthermore, patterns of habitat utilization are extremely important in determining a bee's degree of habitat fragmentation (Perillo et al., 2018). Habitat fragmentation gaps in time and space, or both, contribute negatively to the greater pollination networks and pollination ecosystem services. This is an essential component to gaining more insight into the extent bees are impacted by fragmentation in the landscape. Only then can we begin to remedy habitat shortcomings with strategically based conservation solutions.

4.6 Study limitations

While these results are compelling, there is likely a threshold of bee foraging observations of which is helpful to this type of modeling and should be explored in future research. Additional analysis could still be completed on the characteristics which drive success or failure of bee habitat. For example, spatial planting densities and proximities of suitable plants may be another important indicator of habitat quality from the bee's perspective. Gardens with both the most diversity and total count in bee visitation had similarities in terms of their planting designs (spacing, structure, and even plant genera) and therefore habitat quality. For example, the STOR, EASI and MWB gardens had high densities of many varieties of plants. Landscape structure (plant heights, spacings) also appears to be an essential factor to consider, but more research should be done on this subject which is beyond the scope of this project. Native bee foraging requirements are emphasized in this study, rather than other habitat requirements such as nesting or cover, though nesting requirements are reported in the WHR predicted and actual foraging matrix models (Chapter 1). Furthermore, the characteristics which make each garden successful as habitat should be examined in more detail. Despite these limitations, the findings from this research can still be used to give conservation designers specific instructions on how to improve landscapes for particular bees.

4.7 Future fragmentation research

More research should be done to explore how habitat fragmentation (both spatial and temporal) themes play out for bees. From our findings, it would seem that fragmentation may occur at the scale landscape cover is mapped. For example, a town, a park, or parking lot can have very different ecological values to bees. Depending on the type of landscape cover, some bees may find value in it or not. For example, an orchard landscape cover consisting of *Prunus* would in theory be quite attractive to *Osmia* bees (for a brief time of the year), but not to *Diadasia*. In contrast, a suitable *Diadasia* habitat would be composed of *Opuntia* and *Sphaeralcea* and would be without value to *Osmia* bees. Therefore, the habitat solutions for *Osmia* and *Diadasia* in the above examples would be at odds with each other. Future projects should evaluate how common landscape plants are functioning as habitat for various bee genera. Though research has started to look into these complicated topics, more research should be done to tease out land cover-habitat value trends for different bees (Samuelson and Leadbeater, 2018; Smith et al., 2021). Much of the current fragmentation research focuses purely on agricultural areas. However, all land cover has potential as bee habitat and to also provide ecosystem service benefits (Begosh et al., 2020; Clake et al., 2022; Herrera 2018; Lourenco et al., 2019; Margaret et al. 2017; Prendergast and Ollerton 2021; Seitz et al., 2019). The data from this research demonstrates how richly valued anthroscapes can be to bees if they possess the characteristics of the Arboretum, particularly the best performing gardens. These areas could act as source populations for bees, acting as valuable habitat patches amongst an otherwise more hostile landscape matrix. Furthermore, other research has shown that bees are critical for achieving sustainable development (Patel et al., 2021).

Climate change in particular is putting fragmentation pressures on bees and this should be observed carefully to preserve ecosystem services (Decourtye et al., 2019). There is already evidence that habitat fragmentation is negatively affecting most bee populations at the landscape scale (see Chapter 3). For example, bumble bees' ranges have shifted northward with higher temperatures, but the northmost ranges are still constrained by cold temperatures (Sirois-Delisle and Kerr 2018). It is likely bees' responses to climate change is species-specific and not unlike what has been seen with more charismatic animals, which have been observed to move poleward or to higher elevations but thus far has not been studied among a variety of bees. Like other mammals, climate change tests how far bees can adjust their ranges in coordination with host plant range and temperature changes. More quantitative research should be done to evaluate how various human landscape types act for specific bee genera. It is likely that conservation priorities may need to be chosen (Chapter 3). For example, bees which are the best at providing pollination ecosystem services should be prioritized and accommodated with resilient pollination networks by design (Goulson and Nicholls 2022). Bee genera dispersal abilities should be studied more as well (Chakraborty et al., 2020; Griffin and Haddad 2021; Franzen and Larsson 2009; Schuepp and Herrmann 2011; Taneyhill 2010; Woodard and Jha 2017). Moreover, management of novel ecosystems should be done with the priority of conserving ecosystem services (Hobbs et al., 2014).

We must strive to precisely identify and remedy land cover which act as fragmented habitats. We must analyze landscapes from the point of view of bees, and genera thereof. Only then can we actually take the next steps in filling conservation gaps. Bee habitat improvements should be prioritized both for agriculture and urban systems, but also natural systems conservation. Every plant a landscape designer chooses can make a difference to bee conservation at local and regional scales. We must strategize to maximize bee habitat area with every plant choice in every kind of land cover, which is the main topic in Chapter 3.

5. Conclusions

This research has shown that by implementing WHR models for bees in spatial terms in the form of showing spatial and temporal habitat continuity over time, better habitat can ultimately be designed for native bees in areas lacking this continuity. Moreover, habitat solutions could be strategic and applied in a defensible manner to preserve ecosystem services. Using data from this study, garden plantings for ideal garden design and plant location for native bee conservation could be created from a bee genus' point of view. Many bees in this research project were found to be opportunistic foragers—neither exclusively utilizing native or non-native plants. Reconciliation ecology appears to be the best conservation strategy for building the best foraging bee habitats for the future. In the Anthropocene, we must make the best out of our current landscapes and make resilient pollinator anthroscapes with the main goal of preserving pollination ecosystem services. In this way, anthroscapes could act as sources or refugia for native bees. Furthermore, bees may have more opportunities to thrive if they are given a targeted spectrum of suitable plants, which can be done through strategic conservation actions. Knowing the spatial suitability levels of urban habitats for bees will inform landscape designers in habitat remediation and enhancing ecosystem services. Conservation efforts should target a diversity of bees in order to create an array of solutions that effectively improve habitat. By using strategic plantings habitat gaps could be eliminated to create continuous habitat and robust pollination networks to ensure pollination ecosystem services into the future.

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Appendix 1: Partial WHR bee habitat maps.

Appendix 2: Partial WHR bee habitat analysis charts.

Appendix 3: Full WHR bee habitat maps.

Appendix 4: Full WHR bee habitat analysis charts.

Appendix 5: Tabular mapping area statistics by bee genera and month.

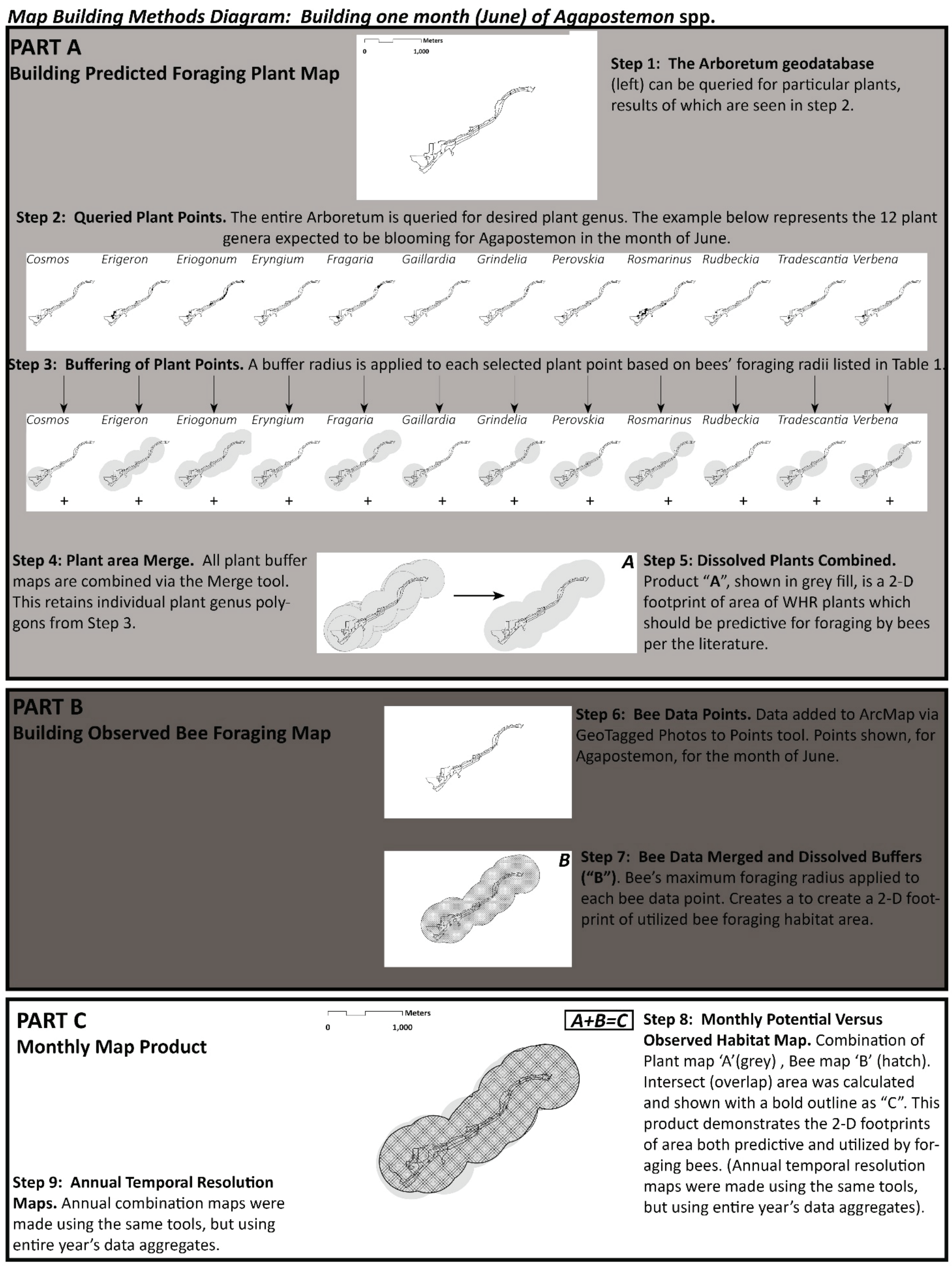


Figure 1: GIS mapping methods. For every bee genus, predicted and/or observed in the Arboretum, 13 maps were made, one for each month and a year's annual combination. Two sets of maps were made to compare partial and full WHR plants selection techniques. See Appendices 1 (partial) and 3 (full) for all maps. See Appendices 2 (partial) and 4 (full) for the spatial analysis statistics for every bee's habitat by month and year.

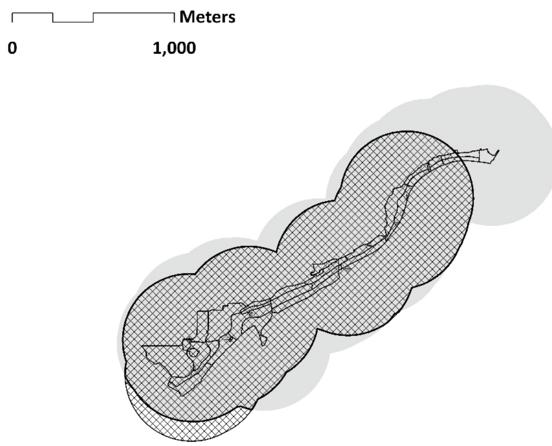


Figure 2: Example of bee predicted habitat versus utilized habitat area. *Agapostemon* bee habitat over the month of April, 2017 (partial WHR shown). Estimated forage distance from nest: 182 meters (0.11 miles). Grey polygon: Predicted habitat, based on location points of plant genera in WHR model and the addition of estimated foraging radius. Hatch polygon: Utilized habitat, center based on location points of plant genera utilized for forage regardless of garden observed. Estimated forage radius applied to foraging plants. Bold outline polygon: Intersect between predicted and utilized forage area.

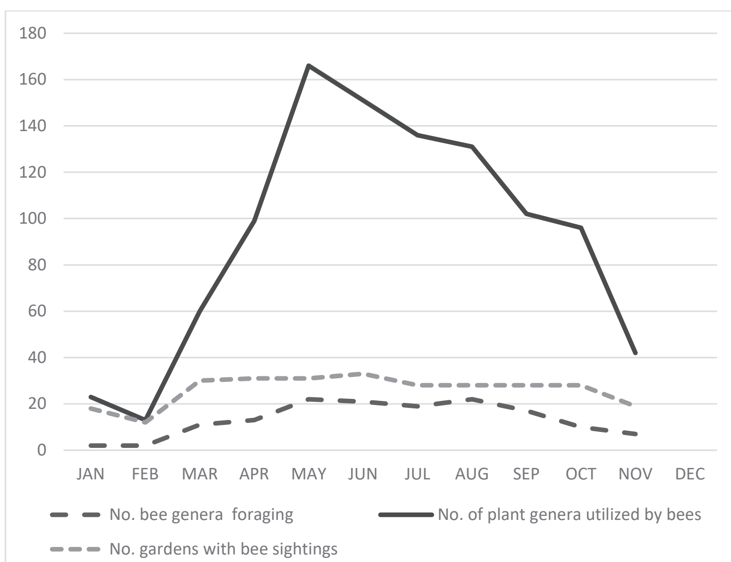


Figure 3: Observed bee, plant and garden phenological season trends. The number of bee genera foraging and the number of gardens with observed bee foraging was fairly consistent. However, the number of plant genera utilized for foraging by bees demonstrates enormous change seasonally. (Data Source: Chapter 1).

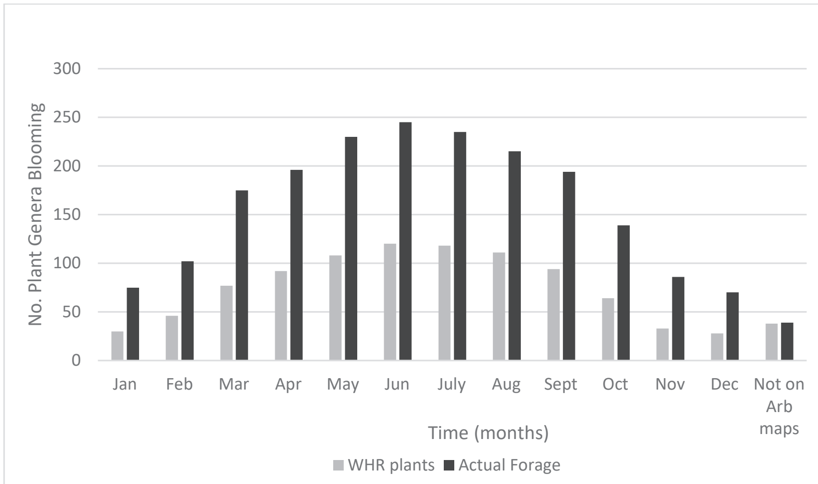


Figure 4: Expected bloom times per month comparing WHR versus observed forage plants. Based on the temporal bloom model made for this research, the plants bees utilized for foraging ("actual forage") far outnumbered the only WHR plants every month of the year.

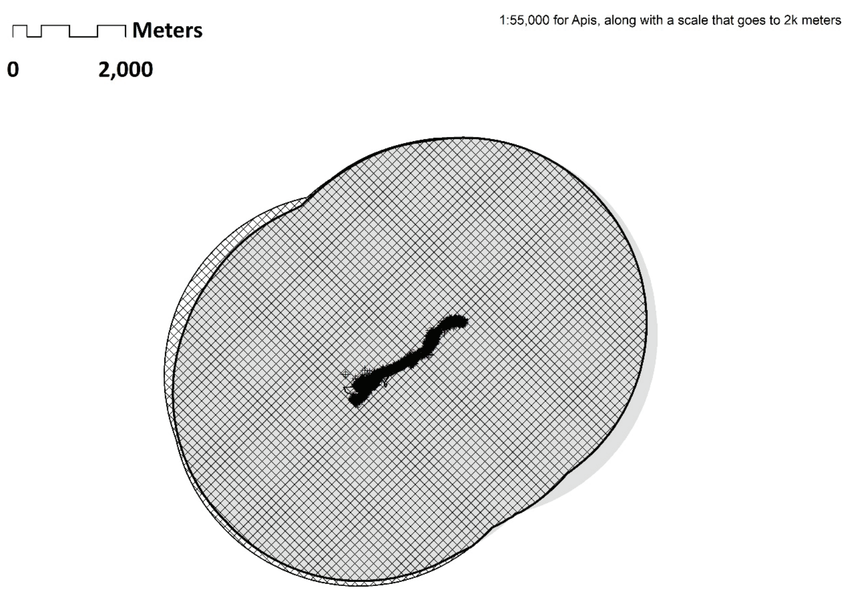


Figure 5: Example of a bee not experiencing habitat fragmentation, *Apis mellifera*. This bee genus exhibited the highest habitat connectivity by far. The habitat had a high degree of overlap on all months between the predicted and the utilized habitat. *Apis*' high degree of travel (3218m radius from nest), combined with its large array of foraging plants demonstrated that *Apis* is not likely experiencing habitat fragmentation at the Arboretum scale.

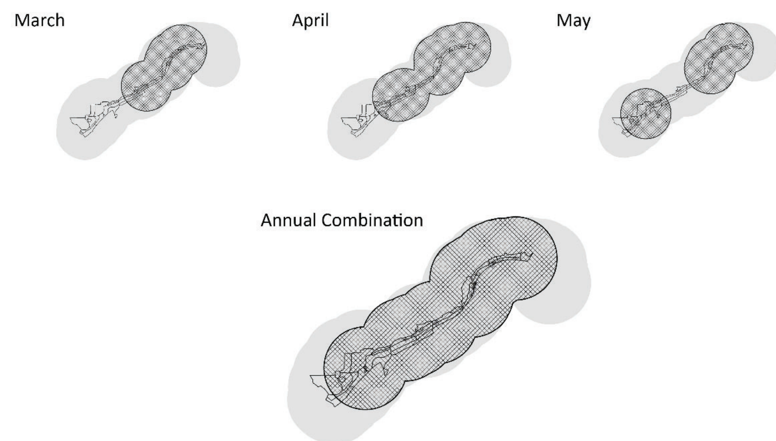


Figure 6: Example of an annual map versus monthly maps, *Osmia*. This bee genus appears to have a fairly sufficient contiguous foraging habitat, but the monthly aggregates reveal that *Osmia's* foraging areas shift between months, suggesting this genus could exist in more area if more suitable habitat conditions were met.

Table 1: Bee forage distance from nest estimates derived from literature. Bold bee genera names: Bees predicted to be on-site, commonly found in California. Not bold bee genera names: Bees which were found foraging in the arboretum, but not commonly found in California. If a range of size was indicated per the literature, an average (mean) of the range was used. Forage distances were grouped Low: 6-10.5mm; Mid: 11-15mm, High: 16.5-21.5mm. **Apis* is an exception to the body size and estimated forage distance, having mid-size body length, but is capable of very long foraging distances, up to 3128 meters (2 miles). (Data Sources: Bug Guide Website 2020, Frankie et al., 2014; Xerces 2011a,b; Michener 2007).

Bee Genus	**Body Size (mm)**	**Distance by Body Size**	**Estimated Forage Distance (m)**	**Estimated Forage Distance (mi)**
Agapostemon	11.0	mid	410.5	0.25
Andrena	12.5	mid	410.5	0.25
Anthidiellum	7.5	low	182	0.11
Anthidium	12.5	mid	410.5	0.25
Anthophora	15.0	mid	410.5	0.25
Apis*	12.5	very high	3218	2.00
Ashmeadiella	6.5	low	182	0.11
Bombus	16.5	high	1609	1.00
Ceratina	9.0	low	182	0.11
Coelioxys	13.5	mid	410.5	0.25
Colletes	11	mid	410.5	0.25
Diadasia	14.0	mid	410.5	0.25
Eucera	13.0	mid	410.5	0.25
Habropoda	14.0	mid	410.5	0.25
Halictus	10.0	low	182	0.11
Hoplitis	10.5	low	182	0.11
Hylaeus	6.0	low	182	0.11
Lasioglossum	6.5	low	182	0.11
Megachile	15.0	mid	410.5	0.25
Melissodes	12.5	mid	410.5	0.25
Nomada	9.0	low	182	0.11
Osmia	12.5	mid	410.5	0.25
Peponapis	12.5	mid	410.5	0.25
Sphecodes	7.5	low	182	0.11
Stelis	8.5	low	182	0.11
Svastra	14	mid	410.5	0.25
Triepeolus	12	mid	410.5	0.25
Xylocopa	21.5	high	1609	1.00

Table 2: Bee-plant phenology map planning tool example. A partial and full WHR version of the table below were made for each bee genus in this study. Plants for bees from the literature (partial WHR) and their expected bloom times were compiled from CalFlora and other sources (1: bloom yes, blank: no bloom). Grey fill: plants not found in the Arboretum's geodatabase. Months are shown in numerical form (i.e., January = 1). Plants for bees based on the literature and Chapter 1 findings (the full WHR model) were also compiled. In comparison, the full WHR table for *Agapostemon* included 72 plants total, 13 of which are not located in the arboretum. Tables 4 and 5 demonstrate all bloom times for partial and full WHR models.

Agapostemon **410.5m**	START BLOOM	END BLOOM	1	2	3	4	5	6	7	8	9	10	11	12	Not in Arb
Citrullus	5	8					1	1	1	1					1
Cosmos	6	9						1	1	1	1				
Erigeron	3	11			1	1	1	1	1	1	1	1	1		
Eriogonum	4	11				1	1	1	1	1	1	1	1		
Eryngium	3	11			1	1	1	1	1	1	1	1	1		
Fragaria	2	10		1	1	1	1	1	1	1	1	1			
Gaillardia	6	9						1	1	1	1				
Grindelia	5	10					1	1	1	1	1	1			
Helianthus	3	11			1	1	1	1	1	1	1	1	1		1
Perovskia	5	9					1	1	1	1	1				
Rosmarinus	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Rudbeckia	6	11						1	1	1	1	1	1		
Symphyotrichum	5	10					1	1	1	1	1	1			1
Tradescantia	4	9				1	1	1	1	1	1				
Verbena	3	10			1	1	1	1	1	1	1	1			

Table 3: Bee phenology expected versus observed. Grey fill: expected to be active per the literature. Check marks: observed foraging activity. (Data Sources: Bug Guide Website 2020, Chapter 1, Frankie et al., 2014; Xerces 2011a,b).

Genus	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Agapostemon				✓	✓	✓	✓	✓	✓	✓		
Andrena			✓	✓	✓	✓	✓	✓	✓	✓	✓	
Anthidiellum					✓	✓	✓	✓	✓			
Anthidium					✓	✓	✓	✓	✓			
Anthophora					✓	✓	✓	✓	✓	✓		
Apis	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Ashmeadiella								✓				
Bombus	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
Ceratina			✓	✓	✓	✓	✓			✓		
Coelioxys								✓				
Colletes												
Diadasia					✓	✓	✓	✓	✓			
Eucera			✓	✓								
Habropoda			✓	✓								
Halictus			✓	✓	✓	✓	✓	✓	✓	✓	✓	
Hoplitis					✓	✓	✓	✓	✓			
Hylaeus				✓	✓	✓	✓	✓	✓	✓		
Lasioglossum			✓	✓	✓	✓	✓	✓	✓	✓	✓	
Megachile				✓	✓	✓	✓	✓	✓			
Melissodes			✓	✓	✓	✓	✓	✓	✓	✓		
Nomada			✓	✓	✓	✓		✓				
Osmia			✓	✓	✓							
Peponapis					✓	✓		✓				
Sphecodes									✓			
Stelis					✓	✓						
Svastra					✓	✓	✓	✓	✓			
Triepeolus					✓	✓	✓	✓				
Xylocopa			✓	✓	✓	✓	✓	✓	✓	✓	✓	

Table 4: Foraging bee-to-plant association (partial WHR) matrix plants with phenology from the literature. Contains 134 plants predicted to be best for bees (Chacon and Greco, 2020). “Start” and “end” bloom months are recorded as month numbers (ex. January=1). Bloom times are based on literature sources. Calendar month columns (Jan through Dec) are recorded in a binary, with 1: probable bloom time. Blank: not a bloom time. Thirty-eight plants in the WHR matrix were not in the arboretum geodatabase maps. (Data Sources: “CalFlora”, 2014; Brenzel, 2007; “Dave’s Garden”, 2017; “Lady Bird Johnson Wildflower Center”, 2017).

Plant Genus	Start Bloom Mo.	End Bloom Mo.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Not on Arb maps
Abelia	6	9						1	1	1	1				
Achillea	4	8				1	1	1	1	1					
Aesculus	5	7					1	1	1						
Agastache	5	10					1	1	1	1	1	1			
Alstroemeria	5	10					1	1	1	1	1	1			
Amorpha	4	4				1									
Anisodontea	6	8						1	1	1					1
Apentia	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Arctostaphylos	12	9	1	1	1	1	1	1	1	1	1			1	
Arctotheca	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Argyranthemum	3	8			1	1	1	1	1	1					
Asclepias	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Aster	7	10							1	1	1	1			
Berberis	2	10		1	1	1	1	1	1	1	1	1			
Bidens	1	12	1	1	1	1	1	1	1	1	1	1	1	1	1
Borago	3	7			1	1	1	1	1						1
Brassica	1	12	1	1	1	1	1	1	1	1	1	1	1	1	1
Calamintha	7	9							1	1	1				1
Calendula	3	5			1	1	1								
Calystegia	2	10		1	1	1	1	1	1	1	1	1			1
Capsicum	6	9						1	1	1	1				
Carpenteria	3	9			1	1	1	1	1	1	1				
Ceanothus	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Centaurea	5	9					1	1	1	1	1				
Cercis	1	4	1	1	1	1									
Cerinthe	3	9			1	1	1	1	1	1	1				
Chrysanthemum	3	11			1	1	1	1	1	1	1	1	1		
Cistus	3	10			1	1	1	1	1	1	1	1			
Citrullus	5	8					1	1	1	1					1
Clarkia	4	8				1	1	1	1	1					1
Comarostaphylis	4	6				1	1	1							
Convolvulus	3	10			1	1	1	1	1	1	1	1			1
Coreopsis	12	9	1	1	1	1	1	1	1	1	1			1	
Cosmos	6	9						1	1	1	1				
Cotoneaster	4	7				1	1	1	1						
Crataegus	3	6			1	1	1	1							
Cryptantha	1	9	1	1	1	1	1	1	1	1	1				1
Cucumis	3	9			1	1	1	1	1	1	1				1
Cucurbita	4	10				1	1	1	1	1	1	1			1
Cynara	4	10				1	1	1	1	1	1	1			1
Dalea	3	10			1	1	1	1	1	1	1	1			
Delphinium	2	8		1	1	1	1	1	1	1					1
Echinacea	6	9						1	1	1	1				
Echium	2	9		1	1	1	1	1	1	1	1				

Encelia	2	7		1	1	1	1	1	1						
Erigeron	3	11			1	1	1	1	1	1	1	1	1		
Eriogonum	4	11				1	1	1	1	1	1	1	1		
Eryngium	3	11			1	1	1	1	1	1	1	1	1		
Erysimum	3	6			1	1	1	1							
Escallonia	6	10						1	1	1	1	1			
Eschscholzia	4	7				1	1	1	1						
Eupatorium	8	11								1	1	1	1		
Fragaria	2	10		1	1	1	1	1	1	1	1	1			
Gaillardia	6	9						1	1	1	1				
Gaura	5	10					1	1	1	1	1	1			
Geranium	3	11			1	1	1	1	1	1	1	1	1		
Gilia	2	10		1	1	1	1	1	1	1	1	1			1
Gossypium	4	10				1	1	1	1	1	1	1			1
Grindelia	5	10					1	1	1	1	1	1			
Hebe	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Hedera	5	12					1	1	1	1	1	1	1	1	
Helenium	8	12								1	1	1	1	1	
Helianthus	3	11			1	1	1	1	1	1	1	1	1		1
Heteromeles	6	9						1	1	1	1				
Holodiscus	5	7					1	1	1						
Horkelia	2	7		1	1	1	1	1	1						
Ipomoea	1	12	1	1	1	1	1	1	1	1	1	1	1	1	1
Juglans	3	5			1	1	1								
Lathyrus	6	9						1	1	1	1				
Lavandula	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Leptospermum	3	10			1	1	1	1	1	1	1	1			
Liatris	4	10				1	1	1	1	1	1	1			1
Ligustrum	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Linaria	12	10	1	1	1	1	1	1	1	1	1	1		1	1
Lotus	5	8					1	1	1	1					
Lupinus	4	7				1	1	1	1						
Lyonothamnus	5	7					1	1	1						
Madia	3	9			1	1	1	1	1	1	1				1
Malacothamnus	3	8			1	1	1	1	1	1					
Malus	2	6		1	1	1	1	1							
Marrubium	6	9						1	1	1	1				
Medicago	12	8	1	1	1	1	1	1	1	1				1	1
Mentha	6	9						1	1	1	1				
Monarda	5	9					1	1	1	1	1				1
Monardella	6	8						1	1	1					
Myrtus	6	9						1	1	1	1				
Nepeta	5	10					1	1	1	1	1	1			
Oenothera	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Opuntia	3	8			1	1	1	1	1	1					
Origanum	5	10					1	1	1	1	1	1			
Pallenis	1	12	1	1	1	1	1	1	1	1	1	1	1	1	1
Papaver	4	8				1	1	1	1	1					1
Parkinsonia	3	10			1	1	1	1	1	1	1	1			
Pelargonium	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Penstemon	3	10			1	1	1	1	1	1	1	1			
Perovskia	5	9					1	1	1	1	1				
Phacelia	2	10		1	1	1	1	1	1	1	1	1			
Philadelphus	3	9			1	1	1	1	1	1	1				
Phyla	5	6					1	1							

Picris	3	8			1	1	1	1	1	1					1
Pittosporum	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Prunus	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Pycnanthemum	6	9						1	1	1	1				1
Pyracantha	3	5			1	1	1								
Pyrus	1	4	1	1	1	1									
Quercus	2	9		1	1	1	1	1	1	1	1				
Ratibida	7	8							1	1					1
Rhamnus	2	10		1	1	1	1	1	1	1	1	1			
Rosmarinus	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Rubus	4	8				1	1	1	1	1					
Rudbeckia	6	11						1	1	1	1	1	1		
Salix	2	6		1	1	1	1	1							
Salvia	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Scabiosa	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Schinus	3	9			1	1	1	1	1	1	1				1
Silphium	7	9							1	1	1				1
Solanum	1	12	1	1	1	1	1	1	1	1	1	1	1	1	1
Solidago	8	10								1	1	1			
Sphaeralcea	2	8		1	1	1	1	1	1	1					
Stachys	5	9					1	1	1	1	1				
Symphyotrichum	5	10					1	1	1	1	1	1			1
Tagetes	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Taraxacum	1	12	1	1	1	1	1	1	1	1	1	1	1	1	1
Teucrium	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Tithonia	6	11						1	1	1	1	1	1		
Tradescantia	4	9				1	1	1	1	1	1				
Trichostema	3	10			1	1	1	1	1	1	1	1			
Trifolium	1	10	1	1	1	1	1	1	1	1	1	1			1
Tristaniopsis	3	9			1	1	1	1	1	1	1				1
Vaccinium	2	8		1	1	1	1	1	1	1					1
Verbena	3	10			1	1	1	1	1	1	1	1			
Vicia	2	7		1	1	1	1	1	1						1
Vitex	5	10					1	1	1	1	1	1			
Wisteria	3	5			1	1	1								1
Totals			30	46	77	92	108	120	118	111	94	64	33	28	38

Table 5: Phenology of full WHR (all observed forage) plants for bees in the Arboretum. Foraging plants for bees observed in Chapter 1. Bees utilized 298 plant genera, 39 of which were not included in the arboretum geodatabase "Arboretum", 2014. Potential phenological data was collected from resources including: (Data sources: "CalFlora", 2014; Brenzel, 2007; "Dave's Garden", 2017; "Lady Bird Johnson Wildflower Center", 2017).

Plant Genus	Start Bloom Mo.	End Bloom Mo.	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec	Not on Arb maps
Abelia	6	9						1	1	1	1				
Abies	4	9				1	1	1	1	1	1				
Abutilon	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Acacia	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Acca	5	7					1	1	1						
Achillea	4	8				1	1	1	1	1					
Acmispon	1	8	1	1	1	1	1	1	1	1					1
Adenostoma	6	8						1	1	1					
Aesculus	5	7					1	1	1						
Agapanthus	6	9						1	1	1	1				
Agastache	5	10					1	1	1	1	1	1			
Albizia	5	8					1	1	1	1					
Albuca	5	7					1	1	1						
Allium	3	9			1	1	1	1	1	1	1				
Aloysia	3	11			1	1	1	1	1	1	1	1	1		
Alstroemeria	5	10					1	1	1	1	1	1			
Amaryllis	8	9								1	1				
Amorpha	4	4				1									
Anemopsis	2	3		1	1										
Anigozanthos	5	10					1	1	1	1	1	1			
Anthriscus	3	5			1	1	1								1
Apentia (Aptenia)	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Apocynum	6	8						1	1	1					
Aquilegia	3	10			1	1	1	1	1	1	1	1			
Arbutus	10	5	1	1	1	1	1					1	1	1	
Arctostaphylos	12	9	1	1	1	1	1	1	1	1	1			1	
Asclepias	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Aster	7	10							1	1	1	1			
Athanasia	3	7			1	1	1	1	1						
Baccharis	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Bahiopsis	2	6		1	1	1	1	1							
Baileya	4	7				1	1	1	1						
Ballota	6	9						1	1	1	1				
Berberis	2	10		1	1	1	1	1	1	1	1	1			
Billardiera	12	5	1	1	1	1	1							1	
Brasilia	7	9							1	1	1				1
Brassica	1	12	1	1	1	1	1	1	1	1	1	1	1	1	1
Brugmansia	6	10						1	1	1	1	1			
Buddleja	4	11				1	1	1	1	1	1	1	1		
Bulbine	3	10			1	1	1	1	1	1	1	1			
Bupleurum	6	9						1	1	1	1				
Bursaria	3	9			1	1	1	1	1	1	1				
Caesalpinia	2	8		1	1	1	1	1	1	1					

Calandrinia	1	12	1	1	1	1	1	1	1	1	1	1	1	1	1
Calliandra	12	9	1	1	1	1	1	1	1	1	1			1	
Callistemon	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Calostemma	6	9						1	1	1	1				1
Campanula	6	10						1	1	1	1	1			
Canna	6	11						1	1	1	1	1	1		
Capparis	5	9					1	1	1	1	1				
Carpenteria	3	9			1	1	1	1	1	1	1				
Carpobrotus	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Catalpa	6	7						1	1						
Ceanothus	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Centaurea	5	9					1	1	1	1	1				
Cephalanthus	8	10								1	1	1			
Cerastium	6	6						1							
Ceratostigma	6	11						1	1	1	1	1	1		
Cercidium	3	5			1	1	1								
Cercis	1	4	1	1	1	1									
Chaenomeles	5	5					1								
Chasmanthe	2	5		1	1	1	1								
Chilopsis	3	11			1	1	1	1	1	1	1	1	1		
Chionanthus	5	7					1	1	1						
Chitalpa	6	9						1	1	1					1
Chrysanthemum	3	11			1	1	1	1	1	1	1	1	1		
Cistus	3	10			1	1	1	1	1	1	1	1			
Clarkia	4	8				1	1	1	1	1					1
Clematis	5	10					1	1	1	1	1	1			
Cleome	5	10					1	1	1	1	1	1			1
Cneorum	6	7						1	1						
Colletia	10	11										1	1		
Convolvulus	3	10			1	1	1	1	1	1	1	1			1
Corethrogyne	6	10						1	1	1	1	1			
Cornus	12	8	1	1	1	1	1	1	1	1				1	
Correa	12	5	1	1	1	1	1							1	
Cotoneaster	4	7				1	1	1	1						
Craspedia	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Crinodendron	6	11						1	1	1	1	1	1		
Dasylirion	6	9						1	1	1	1				
Datura	2	10		1	1	1	1	1	1	1	1	1			
Delosperma	6	9						1	1	1	1				
Dendromecon	2	11		1	1	1	1	1	1	1	1	1	1		
Deutzia	4	7				1	1	1	1						
Dianella	3	9			1	1	1	1	1	1	1				
Digitalis	3	9			1	1	1	1	1	1	1				
Dracaena	11	12											1	1	1
Duranta	6	9						1	1	1	1				
Echinacea	6	9						1	1	1	1				
Echinops	5	11					1	1	1	1	1	1	1		
Echium	2	9		1	1	1	1	1	1	1	1				
Ehretia	4	4				1									
Elaeagnus	5	11					1	1	1	1	1	1	1		
Encelia	2	7		1	1	1	1	1	1						

Ephedra	3	5			1	1	1								
Epilobium	3	11			1	1	1	1	1	1	1	1	1		
Equisetum	3	4			1	1									
Eremophila	1	12													
Erica	10	5	1	1	1	1	1					1	1	1	
Ericameria	11	5	1	1	1	1	1						1	1	
Erigeron	3	11			1	1	1	1	1	1	1	1	1		
Eriogonum	4	11				1	1	1	1	1	1	1	1		
Eriophyllum	5	8					1	1	1	1					
Eryngium	3	11			1	1	1	1	1	1	1	1	1		
Erysimum	3	6			1	1	1	1							
Erythrina	4	10				1	1	1	1	1	1	1			
Eschscholzia	4	7				1	1	1	1						
Eucalyptus	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Euryops	3	10			1	1	1	1	1	1	1	1			
Ferocactus	6	9						1	1	1	1				
Foeniculum	5	9					1	1	1	1	1				
Fragaria	2	10		1	1	1	1	1	1	1	1	1			
Fremontodendron	3	10			1	1	1	1	1	1	1	1			
Gaillardia	6	9						1	1	1	1				
Galium	3	9			1	1	1	1	1	1	1				
Galvezia	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Gaura	5	10					1	1	1	1	1	1			
Geranium	3	11			1	1	1	1	1	1	1	1	1		
Geum	5	9					1	1	1	1	1				1
Glaucium	6	9						1	1	1	1				
Gomphostigma	3	10			1	1	1	1	1	1	1	1			
Grevillea	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Grewia	5	10					1	1	1	1	1	1			
Grindelia	5	10					1	1	1	1	1	1			
Hakea	11	2	1	1									1	1	
Hardenbergia	12	4	1	1	1	1								1	
Hebe	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Heimia	7	10							1	1	1	1			
Helianthus	3	11			1	1	1	1	1	1	1	1	1		1
Helichrysum	6	11						1	1	1	1	1	1		
Heliotropium	5	6					1	1							
Helleborus	12	5	1	1	1	1	1							1	
Hemerocallis	3	10			1	1	1	1	1	1	1	1			
Heracleum	5	7					1	1	1						
Hesperaloe	5	10					1	1	1	1	1	1			
Heteromeles	6	9						1	1	1	1				
Heuchera	2	9		1	1	1	1	1	1	1	1				
Hibiscus	5	11					1	1	1	1	1	1	1		
Horkelia	2	7		1	1	1	1	1	1						
Hydrangea	5	10					1	1	1	1	1	1			
Hypericum	6	11						1	1	1	1	1	1		
Iberis	3	10			1	1	1	1	1	1	1	1			
Ipomoea	1	12	1	1	1	1	1	1	1	1	1	1	1	1	1
Iris	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Isomeris	3	9			1	1	1	1	1	1	1				

Isopogon	12	5	1	1	1	1	1							1	
Jasminum	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Kickxia	5	12					1	1	1	1	1	1	1	1	1
Kniphofia	1	9	1	1	1	1	1	1	1	1	1				
Koelreuteria	6	10						1	1	1	1	1			
Lagerstroemia	6	9						1	1	1	1				
Lantana	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Larrea	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Lavandula	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Lavatera	3	11			1	1	1	1	1	1	1	1	1		
Leonotis	6	10						1	1	1	1	1			
Leptospermum	3	10			1	1	1	1	1	1	1	1			
Leucophyllum	3	10			1	1	1	1	1	1	1	1			
Libertia	3	8			1	1	1	1	1	1					
Ligustrum	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Limonium	3	9			1	1	1	1	1	1	1				
Lippia	3	5			1	1	1								1
Lobularia	4	7				1	1	1	1						
Lonicera	4	10				1	1	1	1	1	1	1			
Lotus	5	8					1	1	1	1					
Lupinus	4	7				1	1	1	1						
Lycianthes	3	10			1	1	1	1	1	1	1	1			1
Lyonothamnus	5	7					1	1	1						
Madia	3	9			1	1	1	1	1	1	1				1
Magnolia	4	12				1	1	1	1	1	1	1	1	1	
Malacothamnus	3	8			1	1	1	1	1	1					
Malosma	2	5		1	1	1	1								
Malus	2	6		1	1	1	1	1							
Malva	2	10		1	1	1	1	1	1	1	1	1			1
Melaleuca	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Mentha	6	9						1	1	1	1				
Millettia	8	9								1	1				
Mimosa	3	9			1	1	1	1	1	1	1				
Mimulus	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Monarda	5	9					1	1	1	1	1				1
Muhlenbergia	3	11			1	1	1	1	1	1	1	1	1		
Myoporum	3	9			1	1	1	1	1	1	1				
Myrtus	6	9						1	1	1	1				
Nandina	5	6					1	1							
Nepeta	5	10					1	1	1	1	1	1			
Nerium	5	9					1	1	1	1	1				
Nicotiana	3	10			1	1	1	1	1	1	1	1			
Nolina	3	9			1	1	1	1	1	1	1				
Oenothera	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Opuntia	3	8			1	1	1	1	1	1					
Origanum	5	10					1	1	1	1	1	1			
Ornithostaphylos	1	4	1	1	1	1									
Osmanthus	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Osteomeles	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Osteospermum	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Oxalis	2	10		1	1	1	1	1	1	1	1	1			

Ozothamnus	6	7						1	1						
Papaver	4	8				1	1	1	1	1					1
Parkinsonia	3	10			1	1	1	1	1	1	1	1			
Passiflora	3	9			1	1	1	1	1	1	1				
Pavonia	4	6				1	1	1							1
Pelargonium	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Penstemon	3	10			1	1	1	1	1	1	1	1			
Perideridia	6	8						1	1	1					
Perovskia	5	9					1	1	1	1	1				
Petrocephalus	6	8						1	1	1					1
Phacelia	2	10		1	1	1	1	1	1	1	1	1			
Philadelphus	3	9			1	1	1	1	1	1	1				
Phlomis	4	10				1	1	1	1	1	1	1			
Physocarpus	5	6					1	1							
Pittosporum	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Plumbago	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Polygala	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Poncirus	4	5				1	1								
Portulaca	5	11					1	1	1	1	1	1	1		1
Potentilla	3	11			1	1	1	1	1	1	1	1	1		1
Protea	11	4	1	1	1	1							1	1	1
Prunus	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Pseudotsuga	2	3		1	1										
Pterocephalus	3	5			1	1	1								1
Pycnosorus	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Pyrus	1	4	1	1	1	1									
Quillaja	3	5			1	1	1								
Raphanus	1	12	1	1	1	1	1	1	1	1	1	1	1	1	1
Rhamnus	2	10		1	1	1	1	1	1	1	1	1			
Rhaphiolepis	10	5	1	1	1	1	1					1	1	1	
Rhigozum	3	5			1	1	1								
Rhodophiala	9	10									1	1			
Rhus	2	9		1	1	1	1	1	1	1	1				
Ribes	12	5	1	1	1	1	1							1	
Romneya	3	7			1	1	1	1	1						
Rosa	3	11			1	1	1	1	1	1	1	1	1		
Rosmarinus	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Ruellia	3	10			1	1	1	1	1	1	1	1			
Rumex	1	12	1	1	1	1	1	1	1	1	1	1	1	1	1
Russelia	3	9			1	1	1	1	1	1	1				
Salvia	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Sambucus	3	7			1	1	1	1	1						
Santolina	3	9			1	1	1	1	1	1	1				
Sapium	3	5			1	1	1								
Saponaria	6	10						1	1	1	1	1			
Scabiosa	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Scilla	3	5			1	1	1								
Scrophularia	2	8		1	1	1	1	1	1	1					1
Sedum	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Senbrosa	5	6					1	1							1
Senecio	1	9	1	1	1	1	1	1	1	1	1				

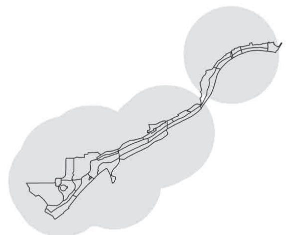
Senna	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Sideritis	6	9						1	1	1	1				
Solanum	1	12	1	1	1	1	1	1	1	1	1	1	1	1	1
Solidago	8	10								1	1	1			
Sollya	6	9						1	1	1	1				
Sonchus	1	12	1	1	1	1	1	1	1	1	1	1	1	1	1
Sophora	12	9	1	1	1	1	1	1	1	1	1			1	
Sphaeralcea	2	8		1	1	1	1	1	1	1					
Spiraea	3	11			1	1	1	1	1	1	1	1	1		
Stachys	5	9					1	1	1	1	1				
Staphylea	5	6					1	1							
Sternbergia	8	10								1	1	1			
Syringa	2	7		1	1	1	1	1	1						
Syzygium	6	9						1	1	1	1				1
Tagetes	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Taraxacum	1	12	1	1	1	1	1	1	1	1	1	1	1	1	1
Tecoma	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Teucrium	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Thermopsis	4	6				1	1	1							
Thymus	6	8						1	1	1					
Tilia	4	7				1	1	1	1						
Tipuana	5	7					1	1	1						
Trachelospermum	3	6			1	1	1	1							
Tradescantia	4	9				1	1	1	1	1	1				
Trichostema	3	10			1	1	1	1	1	1	1	1			
Trifolium	1	10	1	1	1	1	1	1	1	1	1	1			1
Triteleia	3	7			1	1	1	1	1						
Tulbaghia	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Ungnadia	3	6			1	1	1	1							
Urginea	6	9						1	1	1	1				
Urtica	1	9	1	1	1	1	1	1	1	1	1				1
Vaccinium	2	8		1	1	1	1	1	1	1					1
Vauquelinia	3	5			1	1	1								
Venegasia	2	5		1	1	1	1								
Verbascum	5	10					1	1	1	1	1	1			
Verbena	3	10			1	1	1	1	1	1	1	1			
Veronica	2	10		1	1	1	1	1	1	1	1	1			
Viburnum	3	6			1	1	1	1							
Vicia	2	7		1	1	1	1	1	1						1
Vitex	5	10					1	1	1	1	1	1			
Vitis	3	6			1	1	1	1							
Westringia	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Wisteria	3	5			1	1	1								1
Wyethia	3	7			1	1	1	1	1						
X Amaristetes	8	9								1	1				
X Chitalpa	7	8							1	1					
x Pyracomeles	3	5			1	1	1								
Xerochrysum	1	12	1	1	1	1	1	1	1	1	1	1	1	1	
Yucca	3	9			1	1	1	1	1	1	1				
Zephyranthes	7	10							1	1	1	1			
Zieria	10	4	1	1	1	1						1	1	1	

Totals			75	102	175	196	230	245	235	215	194	139	86	70	39

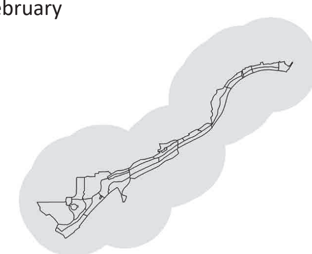
Table 6: *Agapostemon* example tabular mapping area statistics. Predicted habitat is based on buffering plants a bee genus' foraging preferences. The buffer radii are based on the maximum foraging distance for each bee genus. Observed forage is based on bee data points from this research, with the forementioned maximum foraging distance buffered to each data point. Each area compared was a merged and dissolved data layer (2-dimensional representation). Three versions of overlap were calculated. Each analysis sheds light into how bee genera are experiencing and utilizing the landscape differently. Bees exhibited variation with their degrees of habitat fragmentation. See Appendix 5: Mapping area statistics for all bee genera and month for the full tabular data.

Bee Genus	**Mo.**	**PART WHR Predicted Habitat Area, m^2**	**Observed Forage Area, m^2**	**Overlap Predicted & Observed Areas, m^2**	**% Overlap Observed Forage/ PART WHR, m^2**	**% Overlap/PART WHR, m^2**	**FULL WHR Habitat Area, m^2**	**Overlap FULL WHR and Observed, m^2**	**% Overlap/FULL WHR**
Agapostemon	Jan	2,140,216	0	0	0	0	32,910,707	0	0
	Feb	2,494,662	0	0	0	0	34,591,855	0	0
	Mar	2,586,097	0	0	0	0	34,733,777	0	0
	Apr	2,754,079	2,000,701	1,914,546	73	70	34,793,885	2,000,858	6
	May	2,754,079	1,906,185	1,864,412	69	68	34,803,079	1,906,185	5
	Jun	2,754,279	2,471,015	2,457,492	90	89	34,928,861	2,471,015	7
	Jul	2,754,279	2,405,515	2,393,173	87	87	34,928,834	2,405,515	7
	Aug	2,754,279	2,579,912	2,553,636	94	93	34,320,426	2,579,912	8
	Sept	2,754,279	2,680,160	2,542,539	97	92	34,314,340	2,680,160	8
	Oct	2,754,079	2,668,336	2,492,117	97	90	33,459,461	2,668,336	8
	Nov	2,722,150	1,058,356	1,054,725	39	39	33,342,705	1,058,356	3
	Dec	2,139,730	0	0	0	0	31,438,755	0	0
	ANNUAL	2,754,279	2,881,256	2,638,130	105	96	34,933,109	2,839,306	8

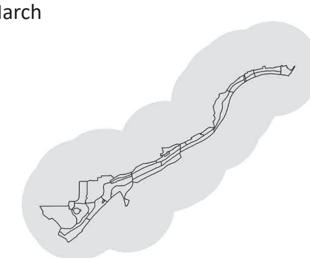
January



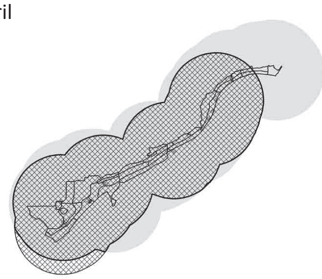
February



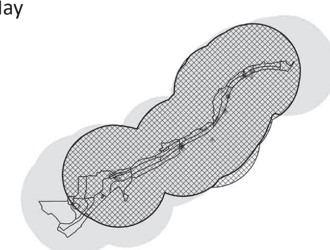
March



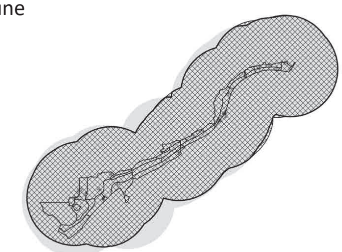
April



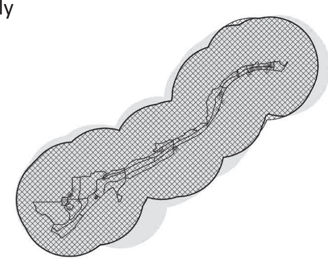
May



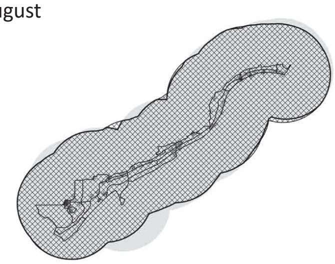
June



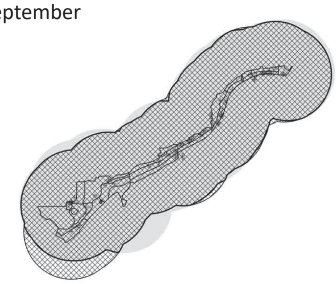
July



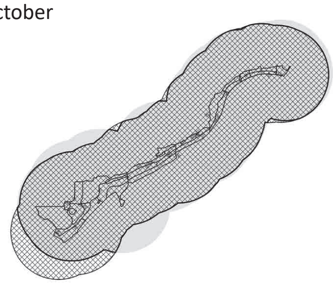
August



September



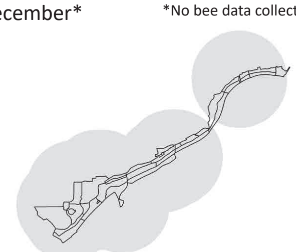
October



November

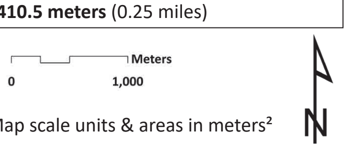
December*

*No bee data collected in Dec.



Agapostemon **spp.**

Expected seasonality: **Mar-Oct**
Actual seasonality: **April-Oct**
Estimated forage radius from nest:
410.5 meters (0.25 miles)



Map scale units & areas in meters²

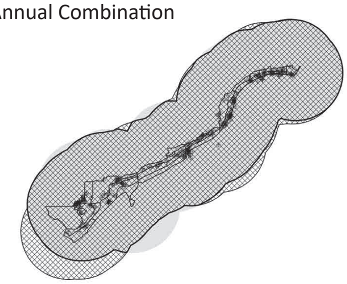
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

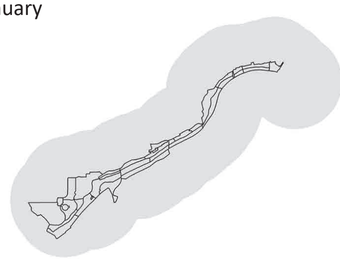
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

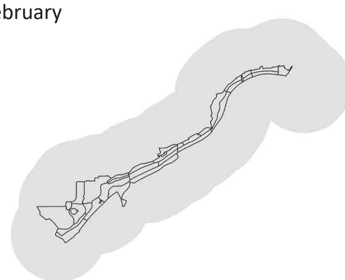
Annual Combination



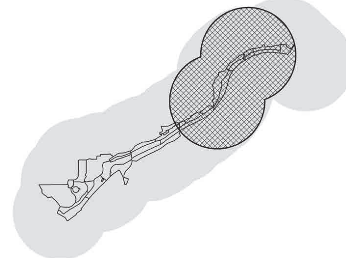
January



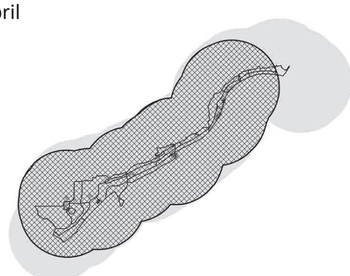
February



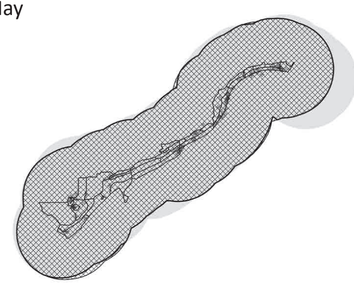
March



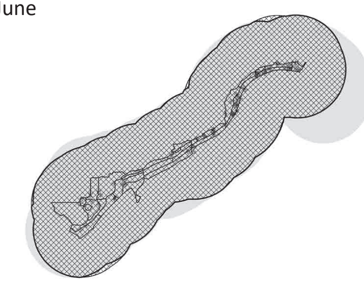
April



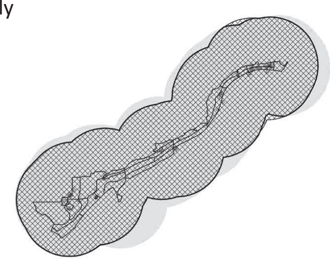
May



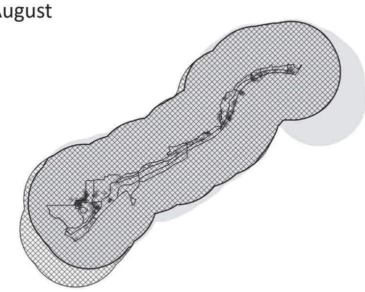
June



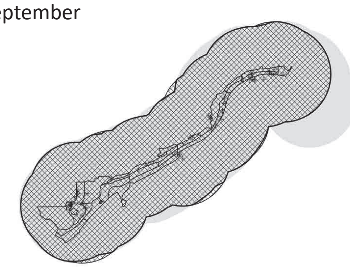
July



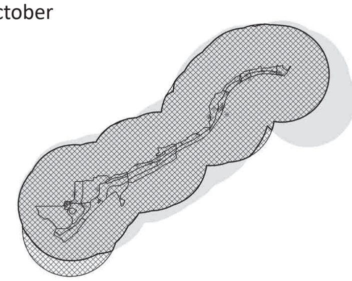
August



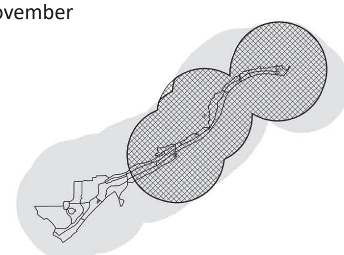
September



October

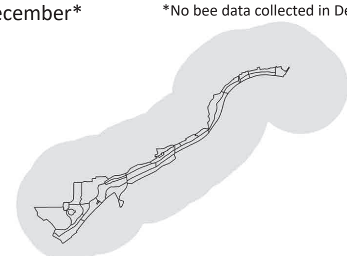


November



December*

*No bee data collected in Dec.



Andrena spp.

Expected seasonality: **Feb-May**
Actual seasonality: **Mar-Nov**
Estimated forage radius from nest:
410.5 meters (0.25 miles)

Meters
0 1,000

Map scale units & areas in meters²

N

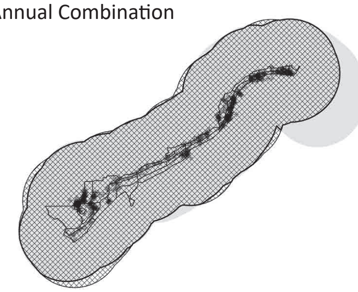
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

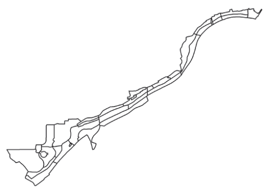
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

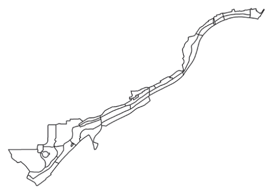
Annual Combination



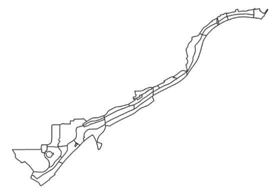
January



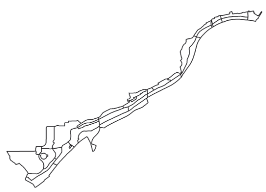
February



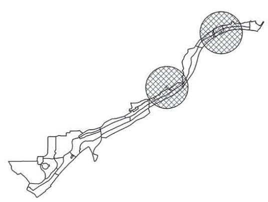
March



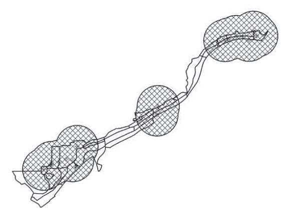
April



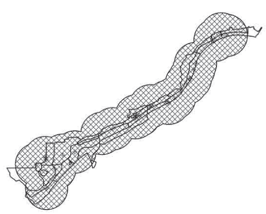
May



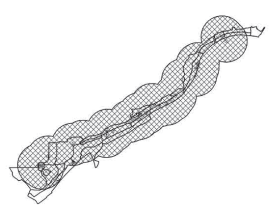
June



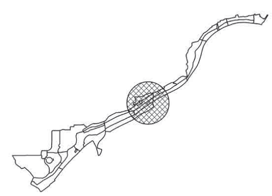
July



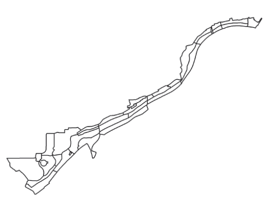
August



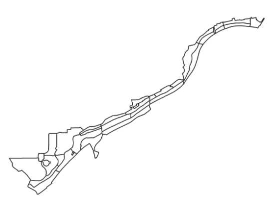
September



October

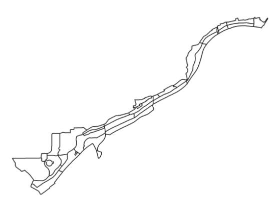


November



December*

*No bee data collected in Dec.



Anthidiellum spp.

Expected seasonality: **May-Oct**
Actual seasonality: **May-Sept**
Estimated forage radius from nest:
182 meters (0.11 miles)

Bee genus not expected, no predictive plants

Map scale units & areas in meters²

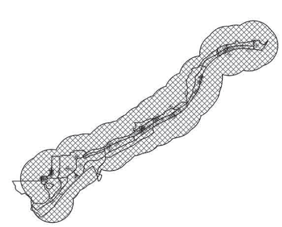
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

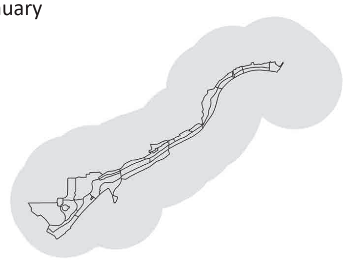
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

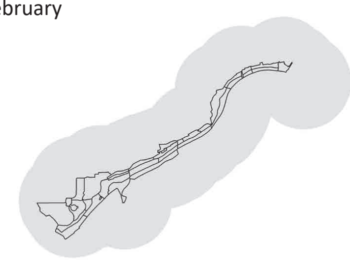
Annual Combination



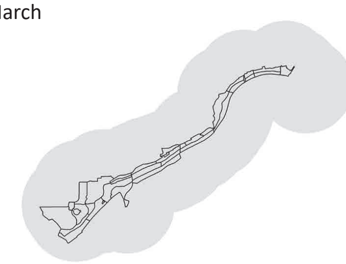
January



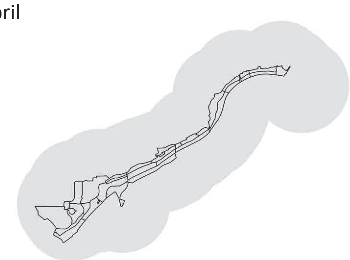
February



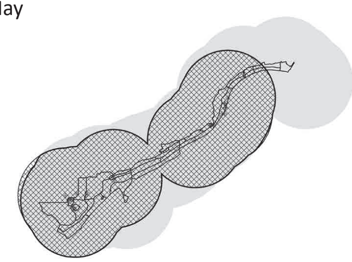
March



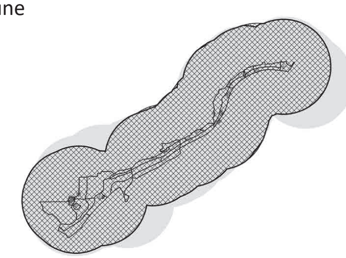
April



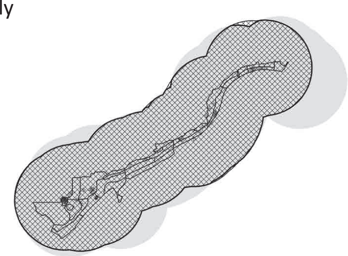
May



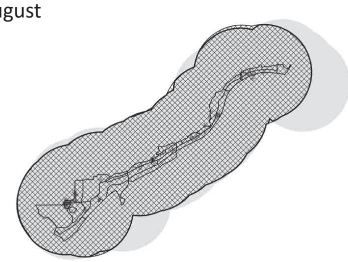
June



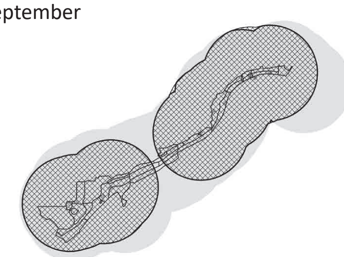
July



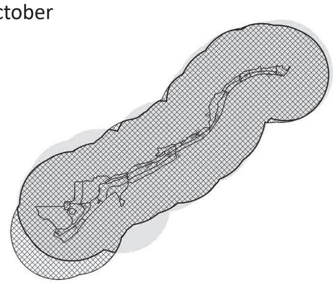
August



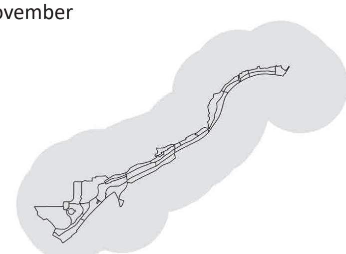
September



October

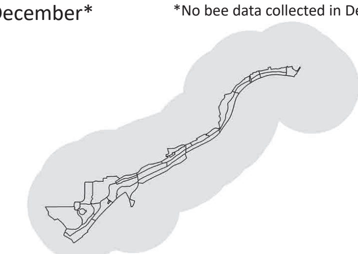


November



December*

*No bee data collected in Dec.



Anthidium spp.

Expected Seasonality: **May-Aug**
Actual seasonality: **May-Sept**
Estimated forage radius from nest:
410.5 meters (0.25 mile)

Meters
0 1,000

Map scale units & areas in meters²

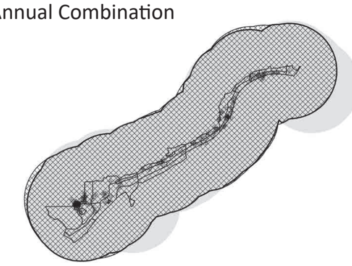
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

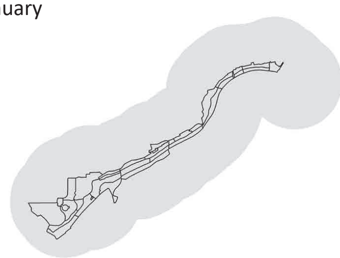
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

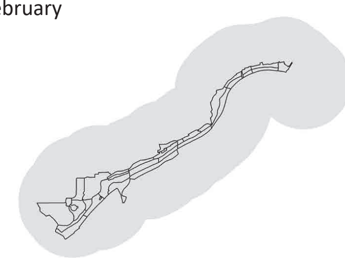
Annual Combination



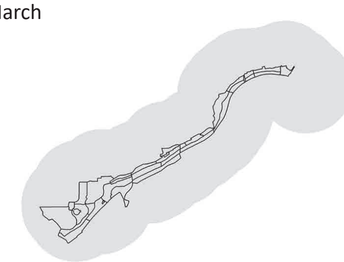
January



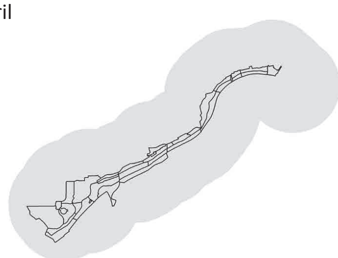
February



March



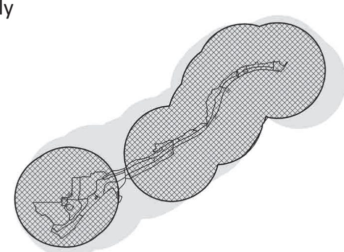
April



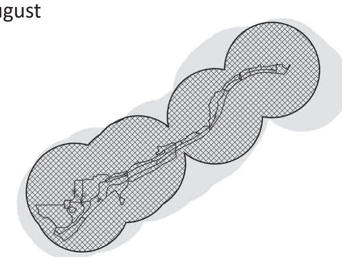
May

June

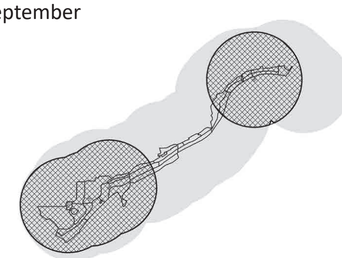
July



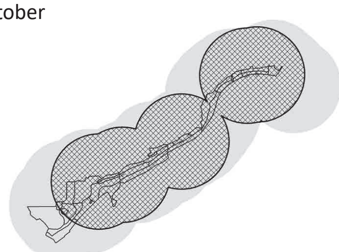
August



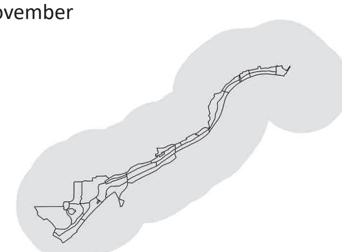
September



October

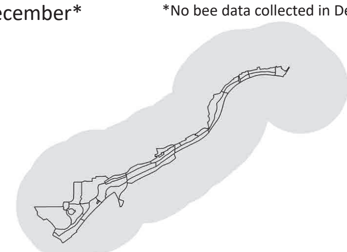


November



December*

*No bee data collected in Dec.



Anthophora spp.

Expected seasonality: **Mar-June**
Actual seasonality: **May-Oct**
Estimated forage radius from nest:
410.5 meters (0.25 mile)

Meters
0 1,000

Map scale units & areas in meters²

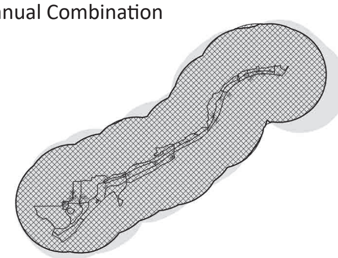
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

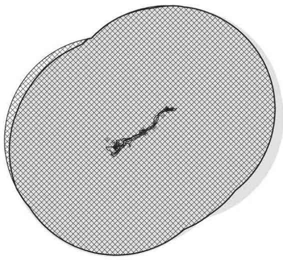
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

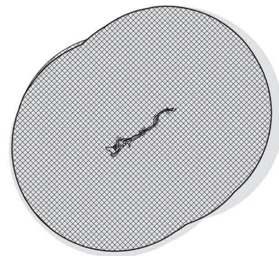
Annual Combination



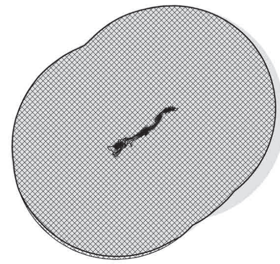
January



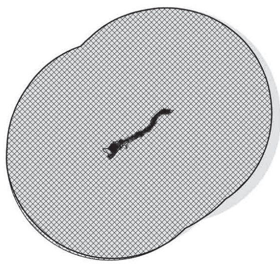
February



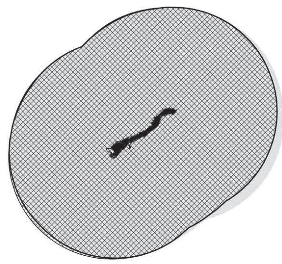
March



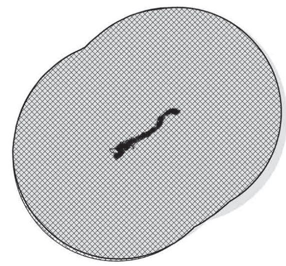
April



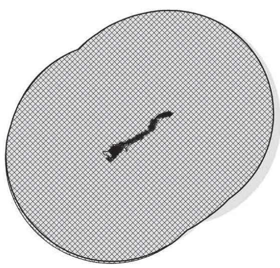
May



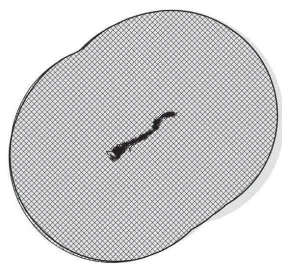
June



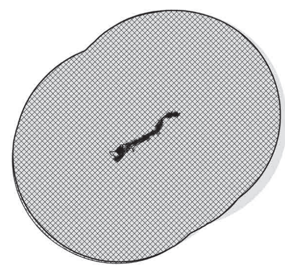
July



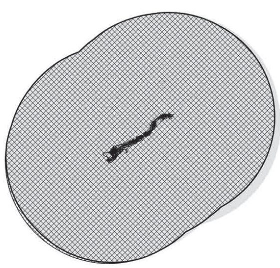
August



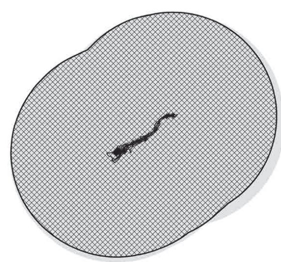
September



October

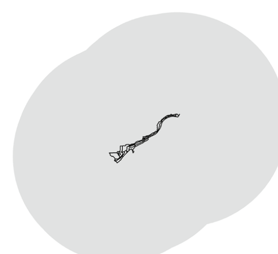


November



December*

*No bee data collected in Dec.



Apis mellifera

Expected seasonality: **Jan-Dec**
Actual seasonality: **Jan-Nov**
Estimated forage radius from nest:
3218 meters (2 mile)

Map scale units & areas in meters²

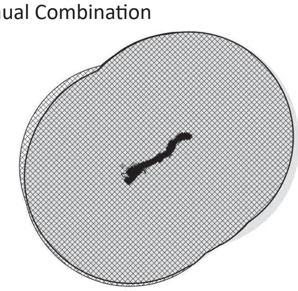
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

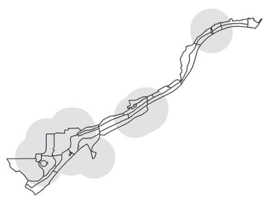
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

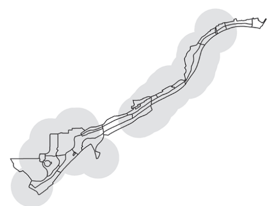
Annual Combination



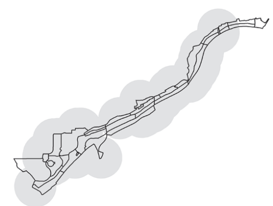
January



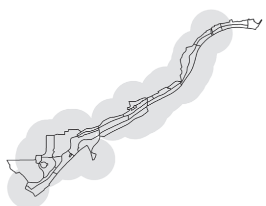
February



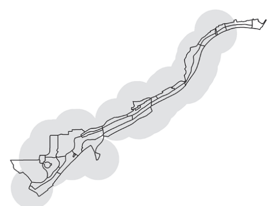
March



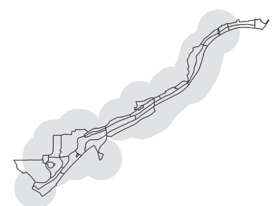
April



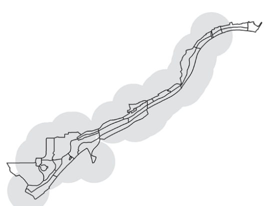
May



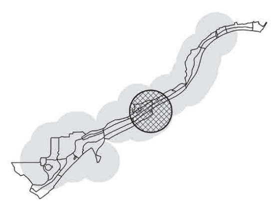
June



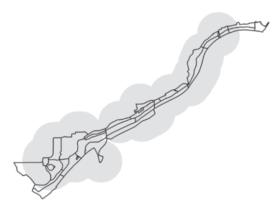
July



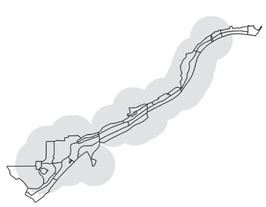
August



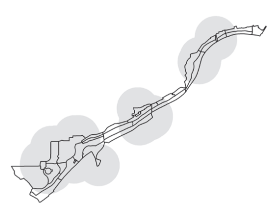
September



October

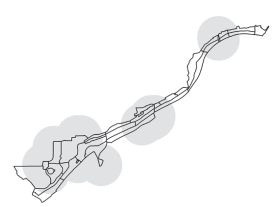


November



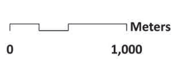
December*

*No bee data collected in Dec.



Ashmeadiella spp.

Expected seasonality: **May-Sept**
Actual seasonality: **Aug**
Estimated forage radius from nest:
182 meters (0.11 mile)



Map scale units & areas in meters²

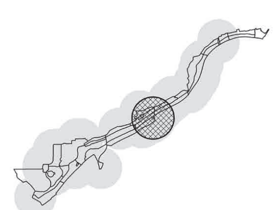
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

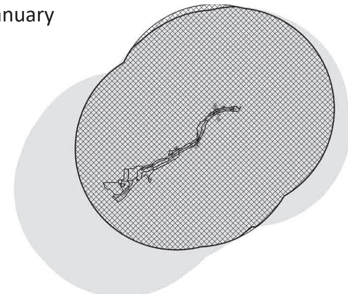
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

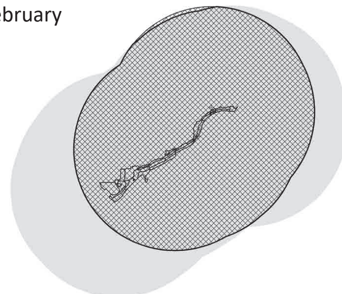
Annual Combination



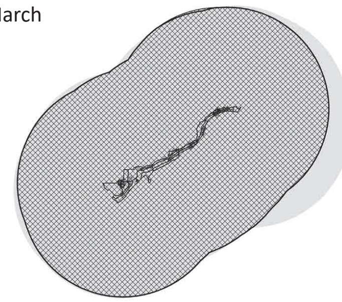
January



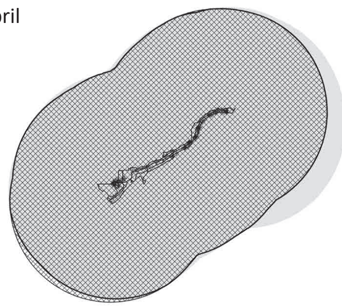
February



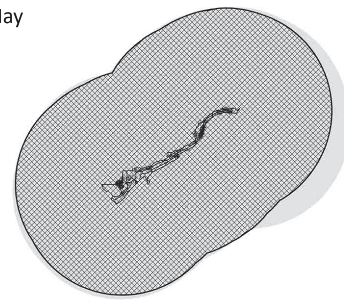
March



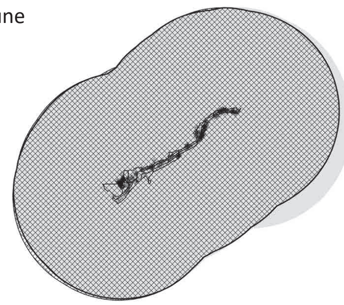
April



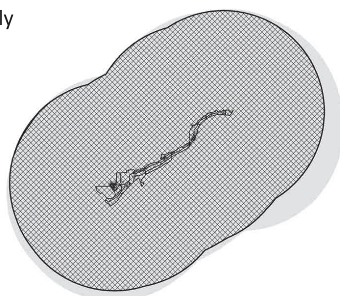
May



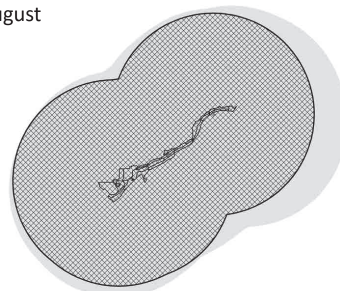
June



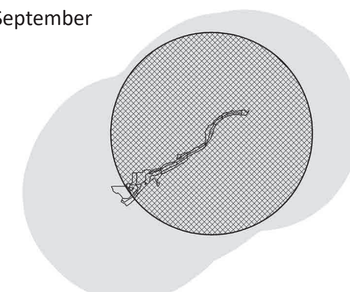
July



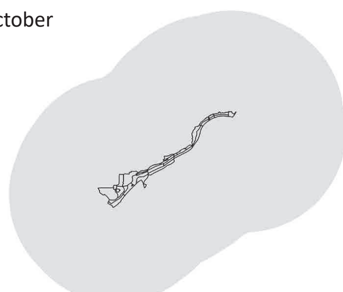
August



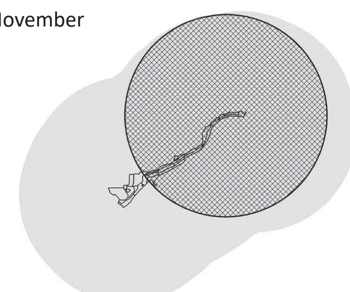
September



October

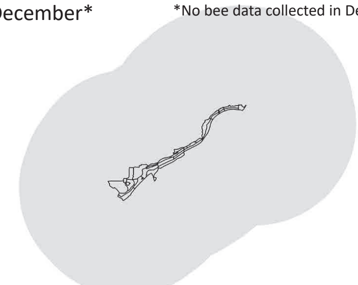


November



December*

*No bee data collected in Dec.



Bombus spp.

Expected seasonality: **Feb-Sept**
Actual seasonality: **Jan-Sept, Nov**
Estimated forage radius from nest:
1609 meters (1 mile)

Meters
0 1,000

Map scale units & areas in meters²

N

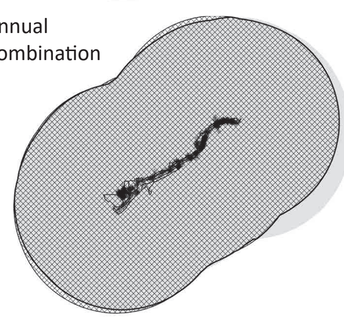
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

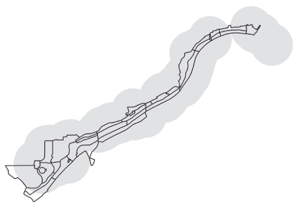
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

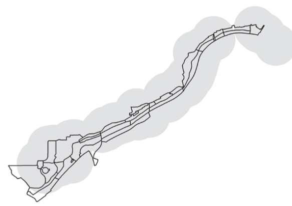
Annual
Combination



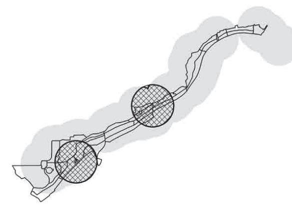
January



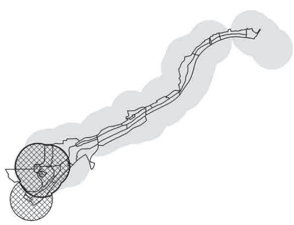
February



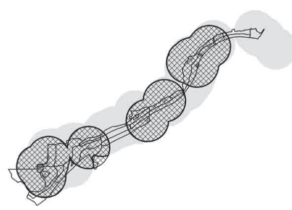
March



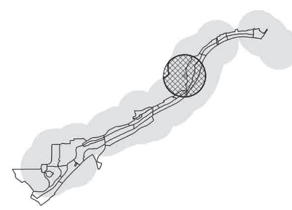
April



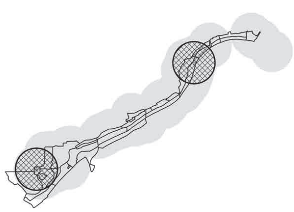
May



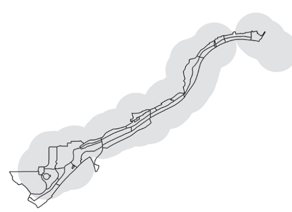
June



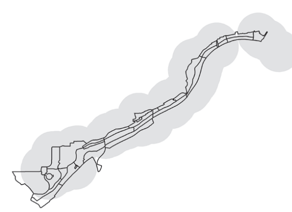
July



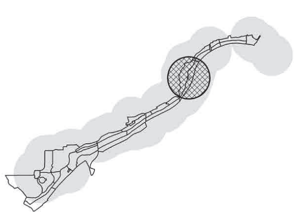
August



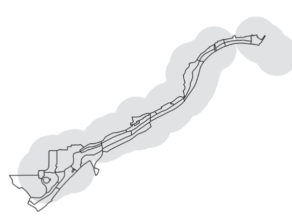
September



October

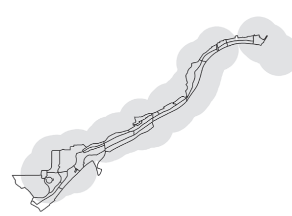


November



December*

*No bee data collected in Dec.



Ceratina **spp.**

Expected seasonality: **Mar-Sept**
Actual seasonality: **Mar-July, Oct**
Estimated forage radius from nest:
182 meters (0.11 mile)

Meters
0 1,000

Map scale units & areas in meters²

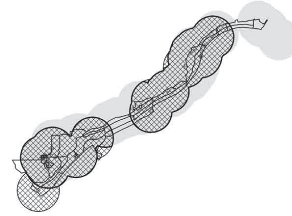
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

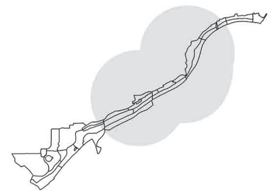
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

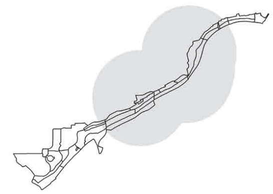
Annual Combination



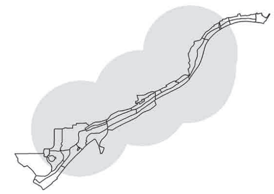
January



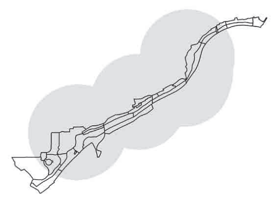
February



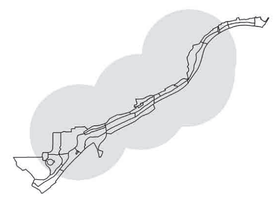
March



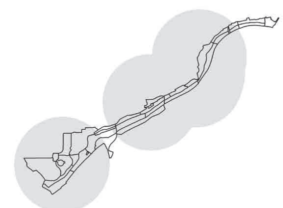
April



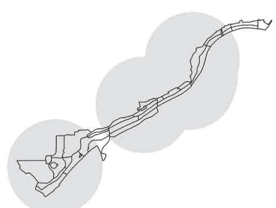
May



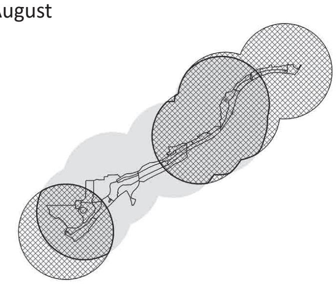
June



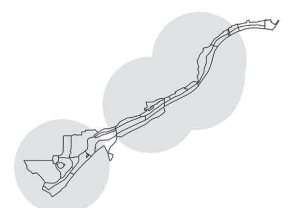
July



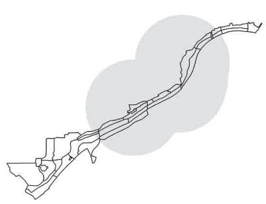
August



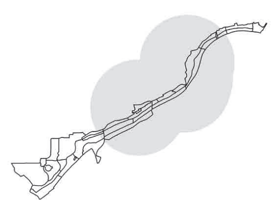
September



October

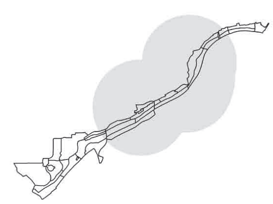


November



December*

*No bee data collected in Dec.



***Coelioxys* spp.**

Expected seasonality: **May-Sept**
Actual seasonality: **Aug**
Estimated forage radius from nest:
410.5 meters (0.25 mile)

Map scale units & areas in meters²

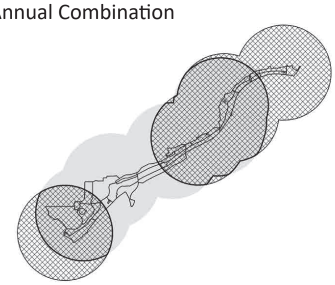
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

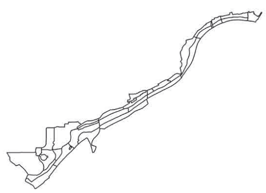
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

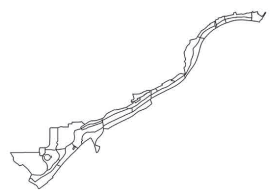
Annual Combination



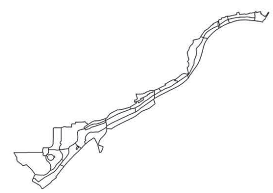
January



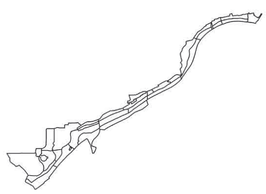
February



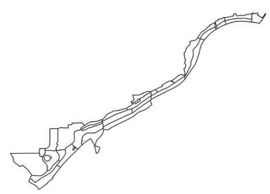
March



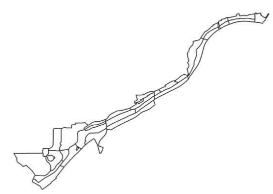
April



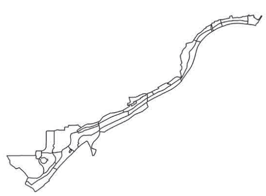
May



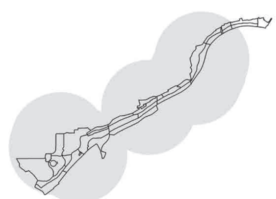
June



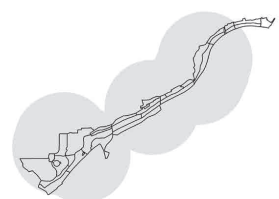
July



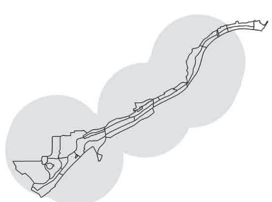
August



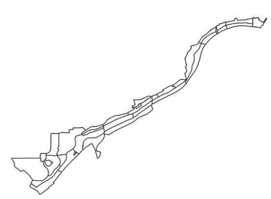
September



October

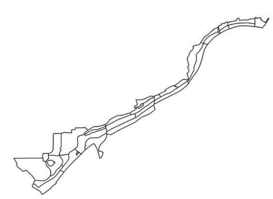


November



December*

*No bee data collected in Dec.



***Colletes* spp.**

Expected seasonality: **May-Sept**
Actual seasonality: **none**
Estimated forage radius from nest:
410.5 meters (0.25 mile)

Meters
0 1,000

Map scale units & areas in meters²

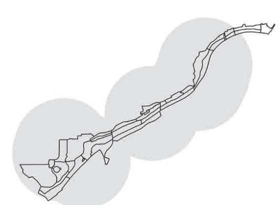
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

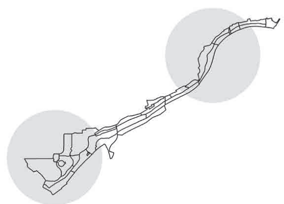
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

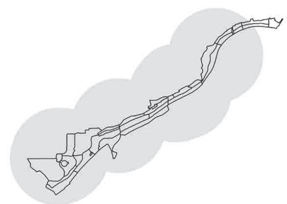
Annual Combination



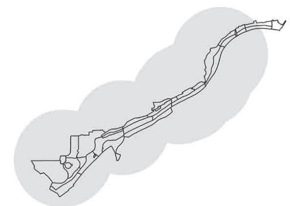
January



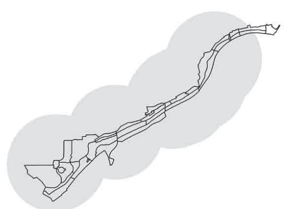
February



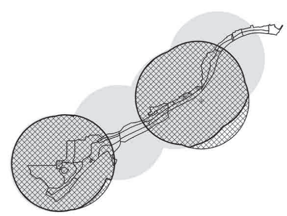
March



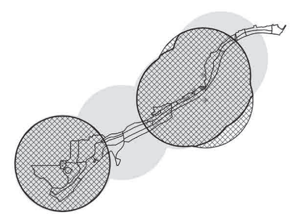
April



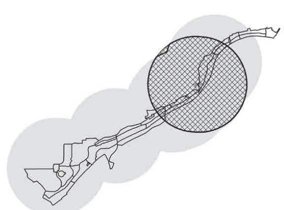
May



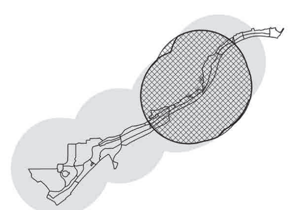
June



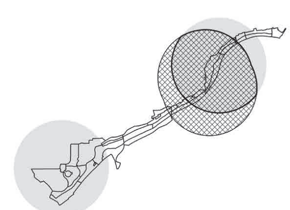
July



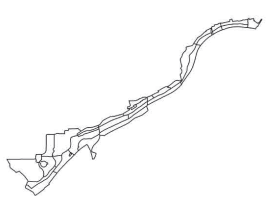
August



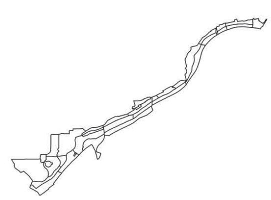
September



October

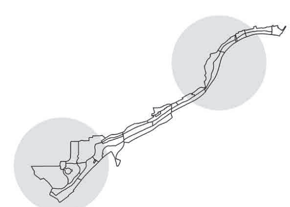


November



December*

*No bee data collected in Dec.



Diadasia **spp.**

Expected seasonality: **Apr-Aug**
Actual seasonality: **May-Sept**
Estimated forage radius from nest:
410.5 meters (0.25 mile)

Meters
0 1,000

Map scale units & areas in meters²

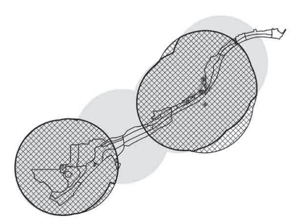
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

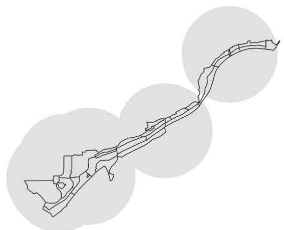
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

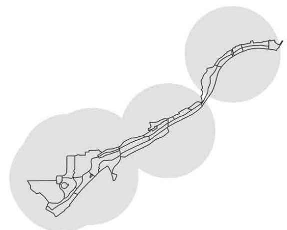
Annual Combination



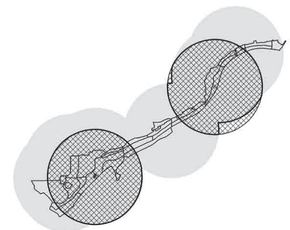
January



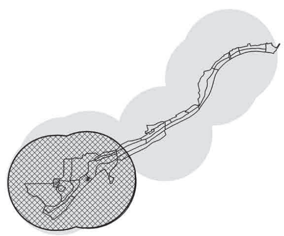
February



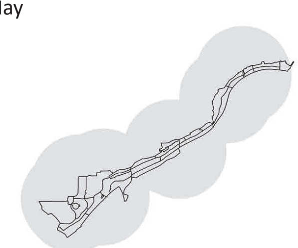
March



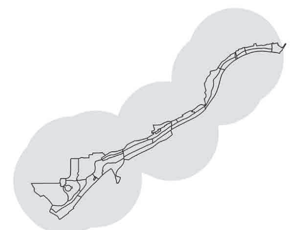
April



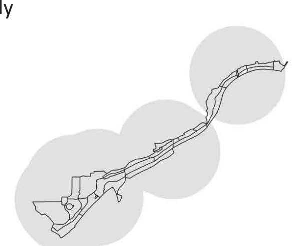
May



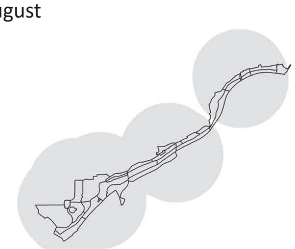
June



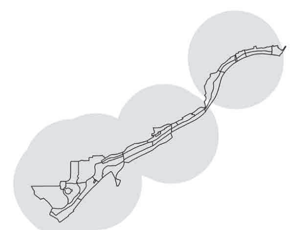
July



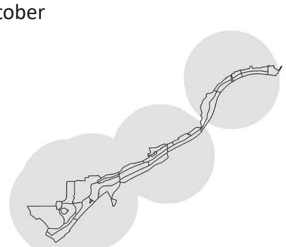
August



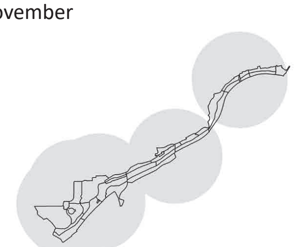
September



October

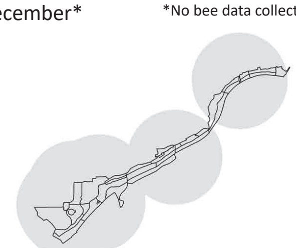


November



December*

*No bee data collected in Dec.



Eucera spp.

Expected seasonality: **Mar-June**
Actual seasonality: **Mar-Apr**
Estimated forage radius from nest:
410.5 meters (0.25 mile)

Map scale units & areas in meters²

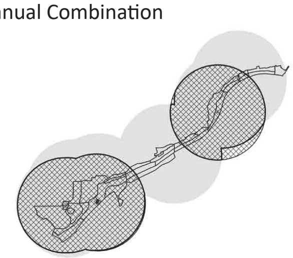
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

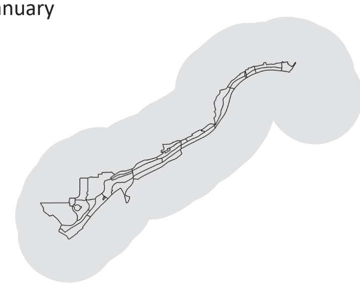
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

Annual Combination

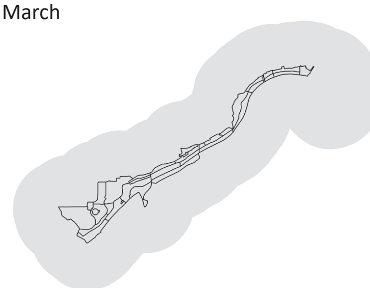


January

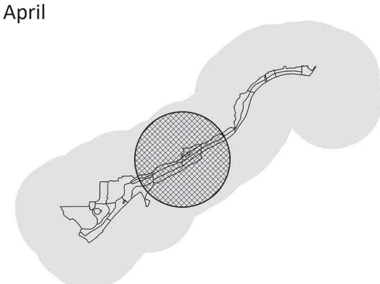


February

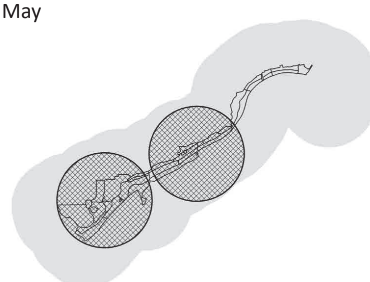
March



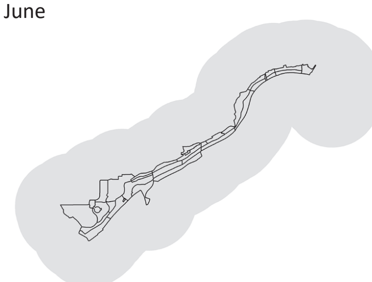
April



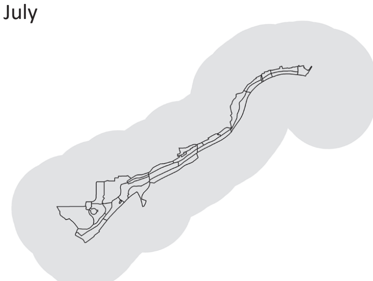
May



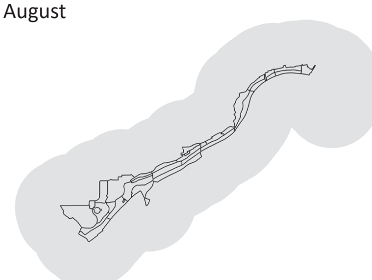
June



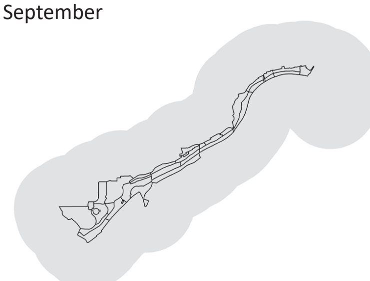
July



August



September

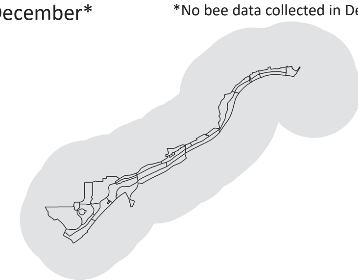


October

November

December*

*No bee data collected in Dec.



Habropoda spp.

Expected seasonality: **Feb-June**
Actual seasonality: **Mar-Apr**
Estimated forage radius from nest:
410.5 meters (0.25 mile)

Map scale units & areas in meters²

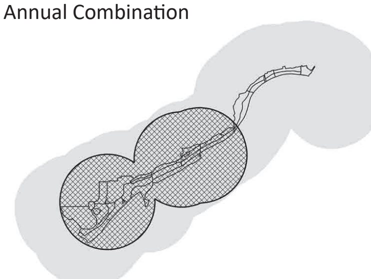
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

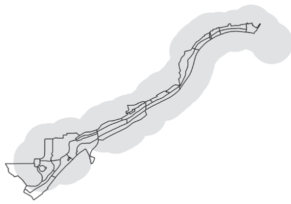
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

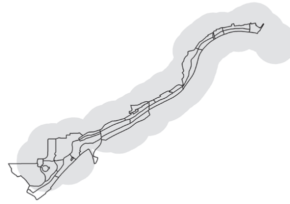
Annual Combination



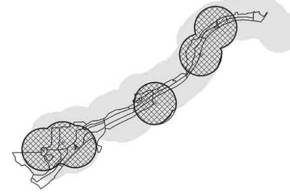
January



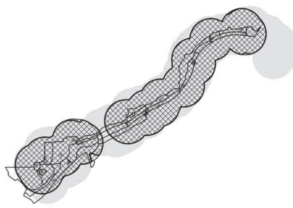
February



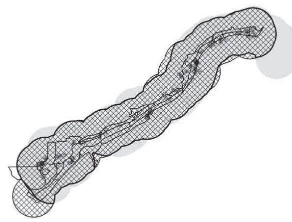
March



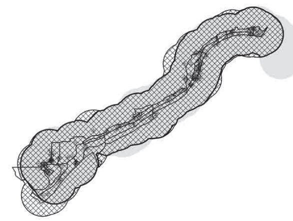
April



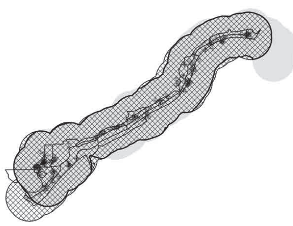
May



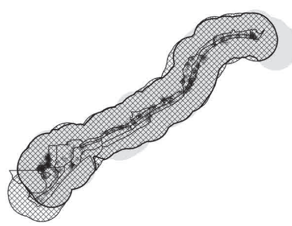
June



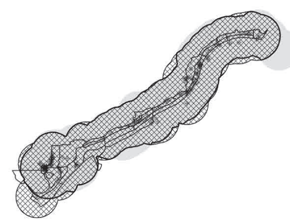
July



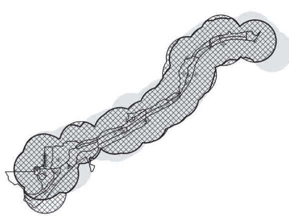
August



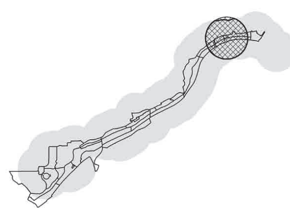
September



October

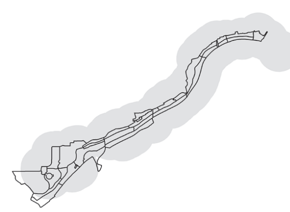


November



December*

*No bee data collected in Dec.



Halictus spp.

Expected seasonality: **Mar-Oct**
Actual seasonality: **Mar-Nov**
Estimated forage radius from nest:
182 meters (0.11 mile)

Map scale units & areas in meters²

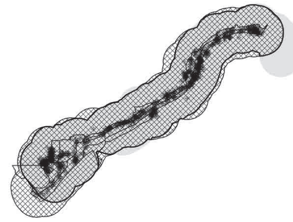
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

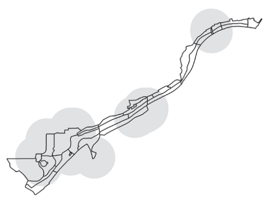
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

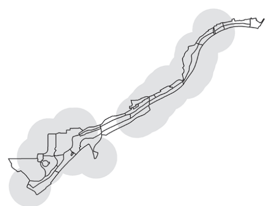
Annual Combination



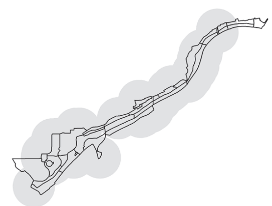
January



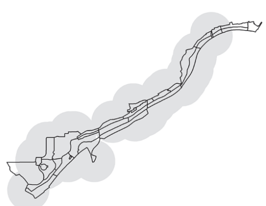
February



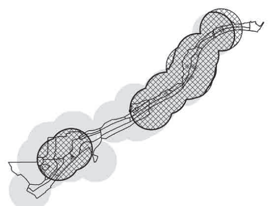
March



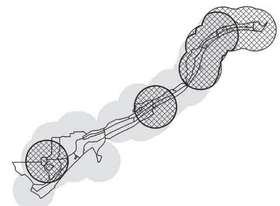
April



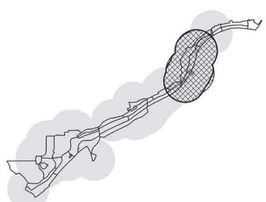
May



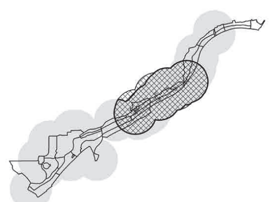
June



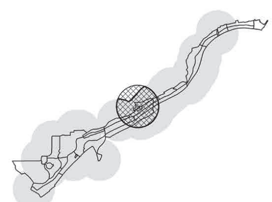
July



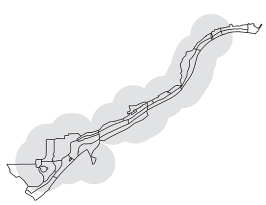
August



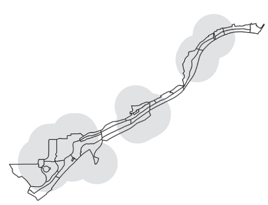
September



October

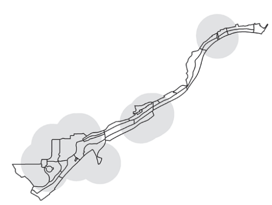


November



December*

*No bee data collected in Dec.



Hoplitis **spp.**

Expected seasonality: **May-Sept**
Actual seasonality: **May-Sept**
Estimated forage radius from nest:
182 meters (0.11 mile)

Map scale units & areas in meters²

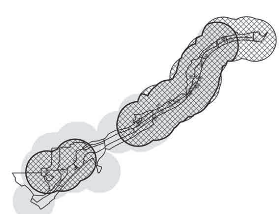
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

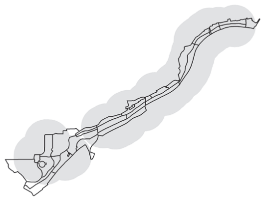
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

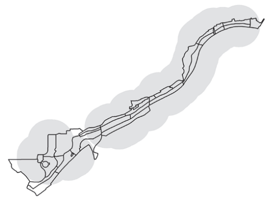
Annual Combination



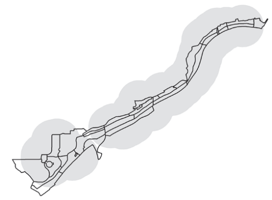
January



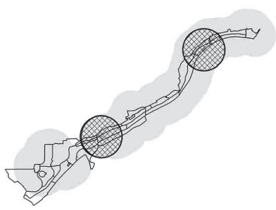
February



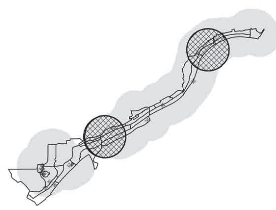
March



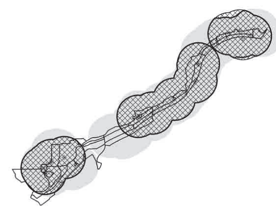
April



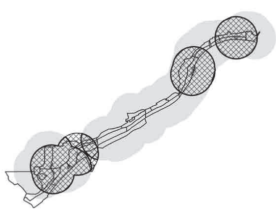
May



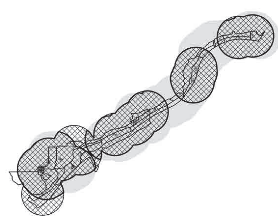
June



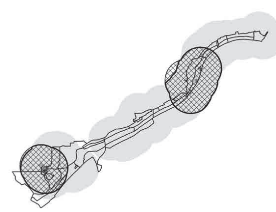
July



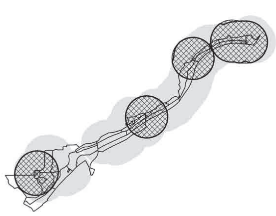
August



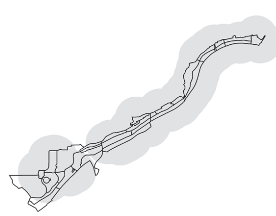
September



October

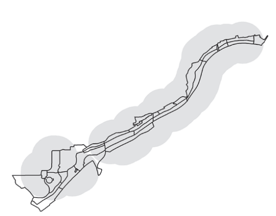


November



December*

*No bee data collected in Dec.



***Hylaeus* spp.**

Expected seasonality: **Mar-Oct**
Actual seasonality: **Apr-Oct**
Estimated forage radius from nest:
182 meters (0.11 mile)

Map scale units & areas in meters²

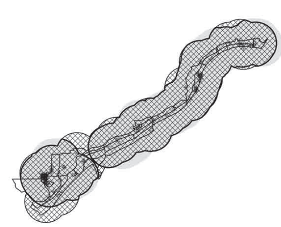
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

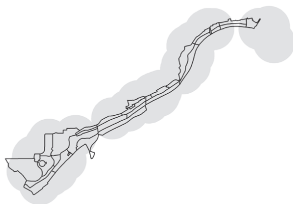
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

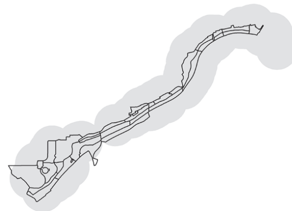
Annual Combination



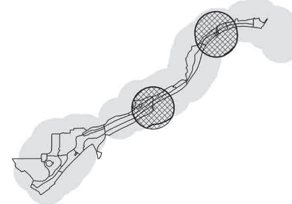
January



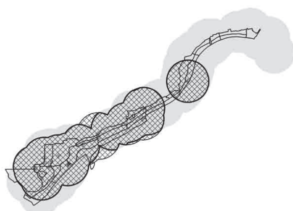
February



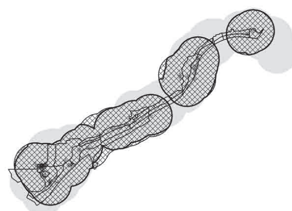
March



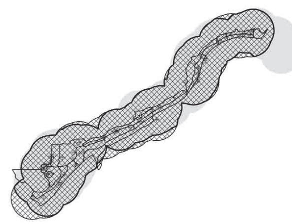
April



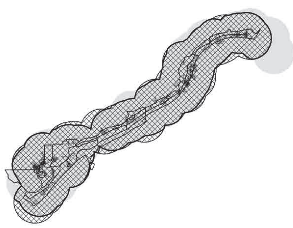
May



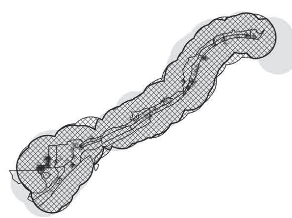
June



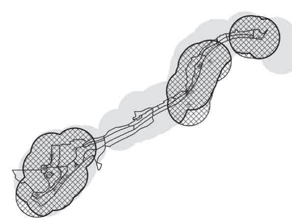
July



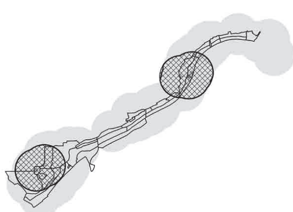
August



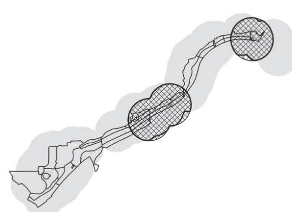
September



October

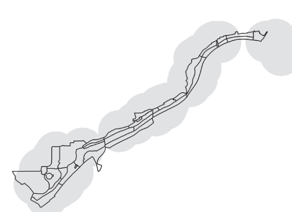


November



December*

*No bee data collected in Dec.



Lasioglossum spp.

Expected seasonality: **Mar-Oct**
Actual seasonality: **Mar-Nov**
Estimated forage radius from nest:
182 meters (0.11 mile)

Meters
0 1,000

Map scale units & areas in meters²

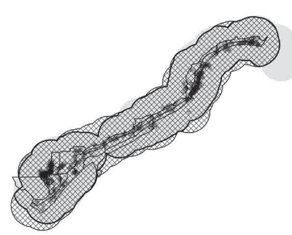
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

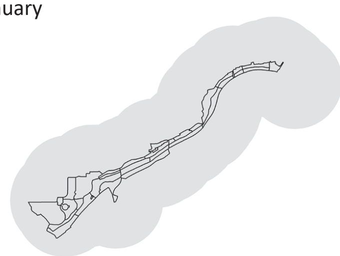
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

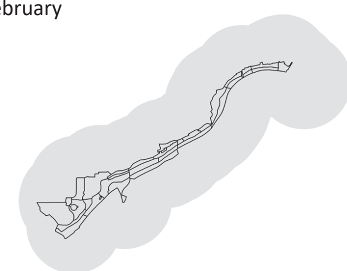
Annual Combination



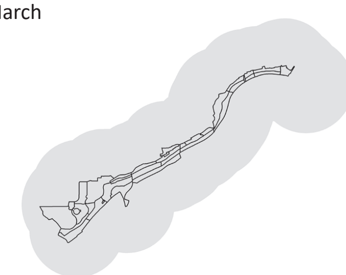
January



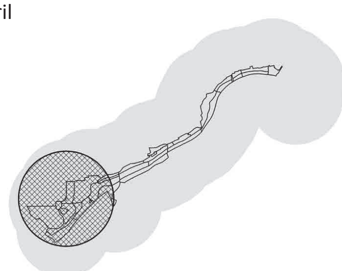
February



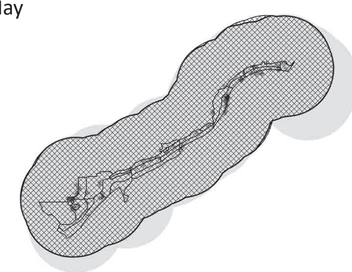
March



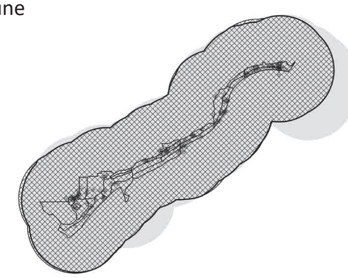
April



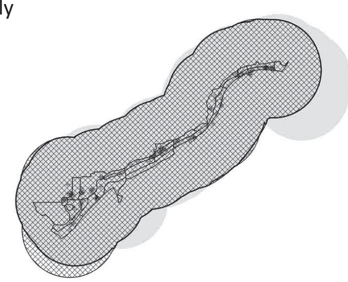
May



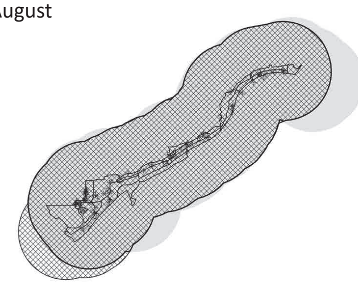
June



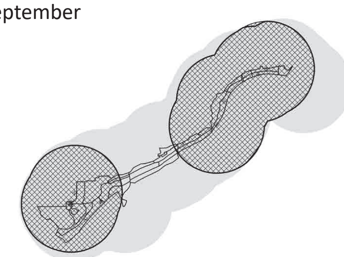
July



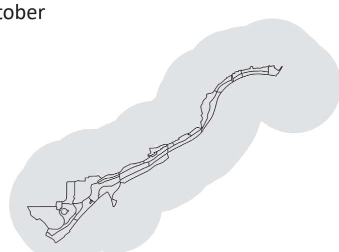
August



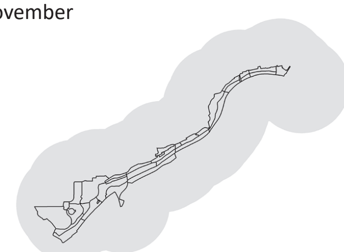
September



October

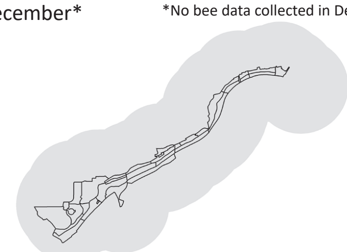


November



December*

*No bee data collected in Dec.



Megachile spp.

Expected seasonality: **May-Sept**
Actual seasonality: **Apr-Sept**
Estimated forage radius from nest:
410.5 meters (0.25 mile)

Meters
0 1,000

Map scale units & areas in meters²

N

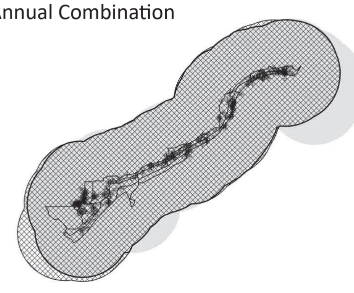
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

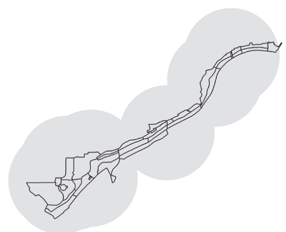
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

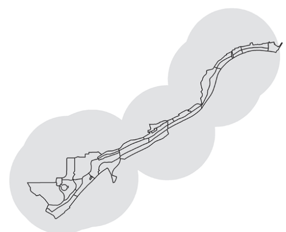
Annual Combination



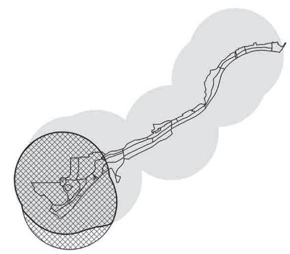
January



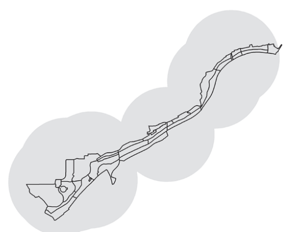
February



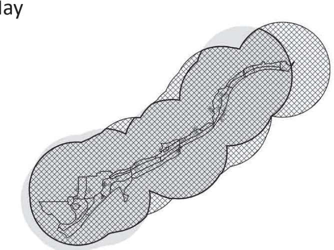
March



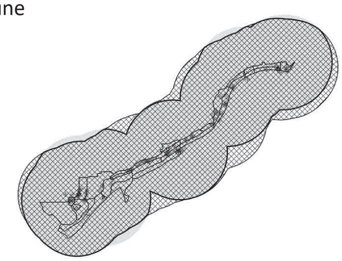
April



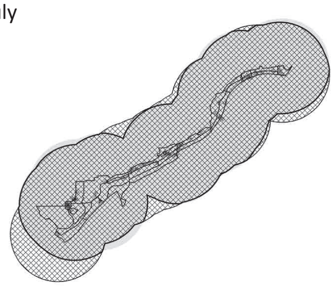
May



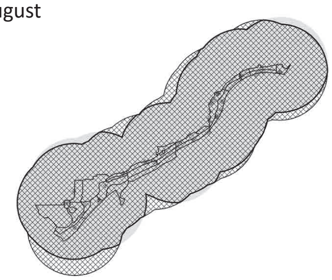
June



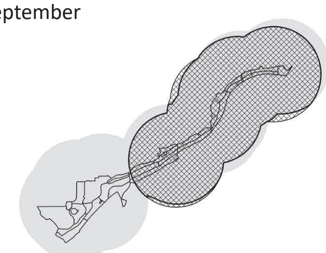
July



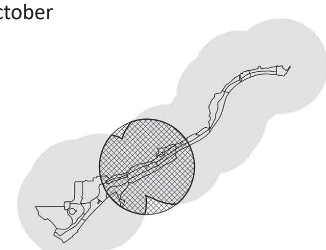
August



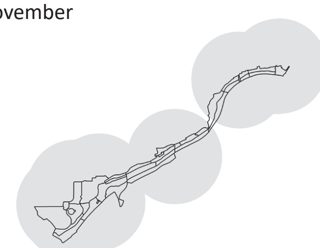
September



October

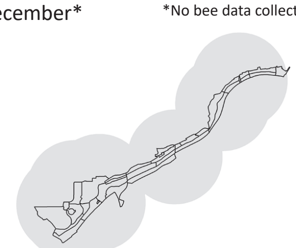


November



December*

*No bee data collected in Dec.



Melissodes spp.

Expected seasonality: **May-Sept**
Actual seasonality: **Mar-Oct**
Estimated forage radius from nest:
410.5 meters (0.25 mile)

Map scale units & areas in meters²

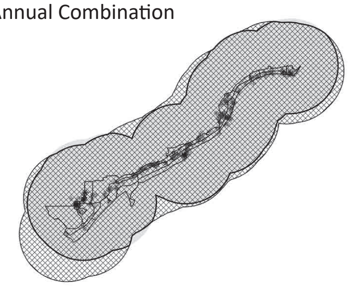
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

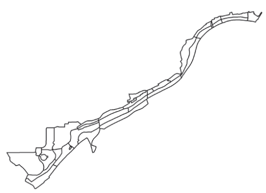
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

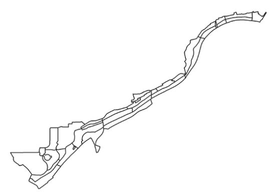
Annual Combination



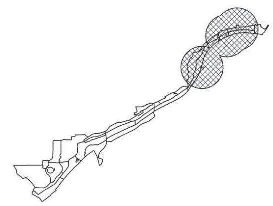
January



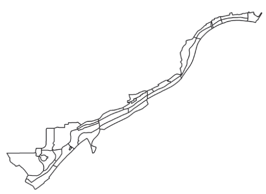
February



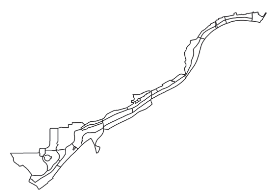
March



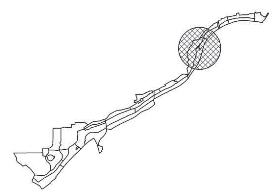
April



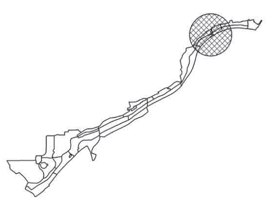
May



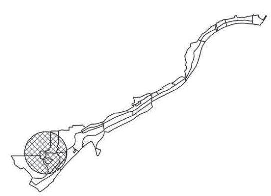
June



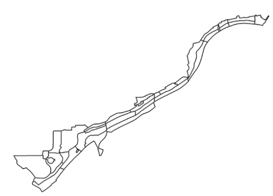
July



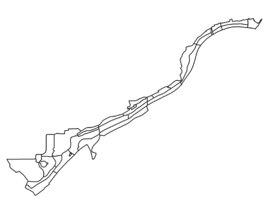
August



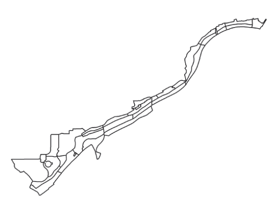
September



October

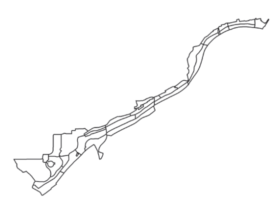


November



December*

*No bee data collected in Dec.



Nomada spp.

Expected seasonality: **Mar-July**
Actual seasonality: **Mar, June-Aug**
Estimated forage radius from nest:
182 meters (0.11 mile)

Meters
0 1,000

Bee genus not expected, no predictive plants

N

Map scale units & areas in meters²

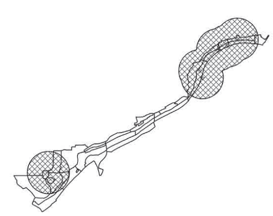
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

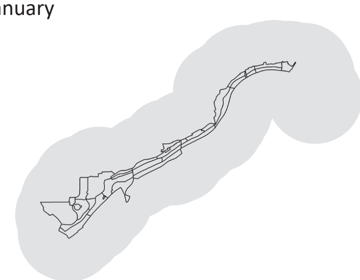
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

Annual Combination



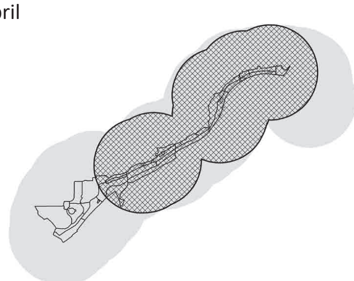
January



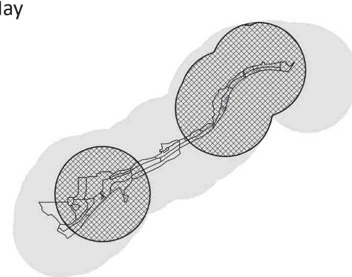
February

March

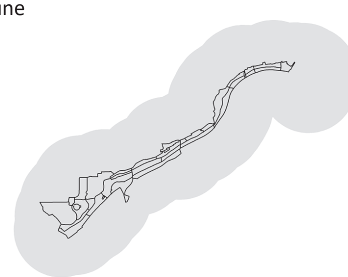
April



May

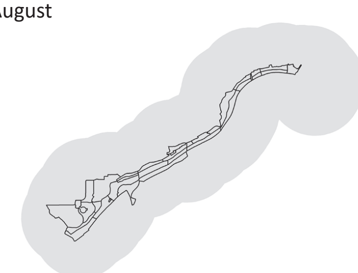


June



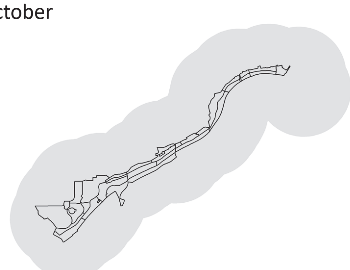
July

August



September

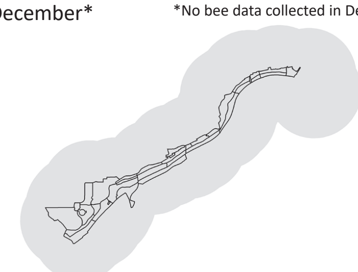
October



November

December*

*No bee data collected in Dec.



Osmia spp.

Expected seasonality: **May-June**
Actual seasonality: **Mar-May**
Estimated forage radius from nest:
410.5 meters (0.25 mile)

Meters
0 1,000

Map scale units & areas in meters²

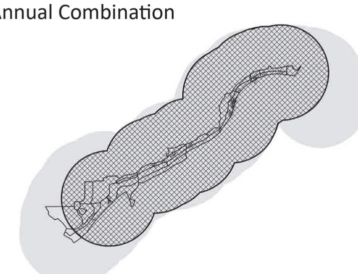
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

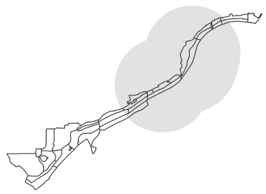
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

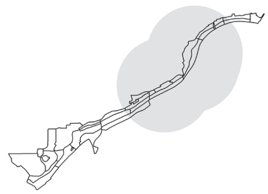
Annual Combination



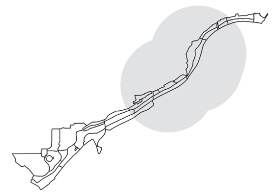
January



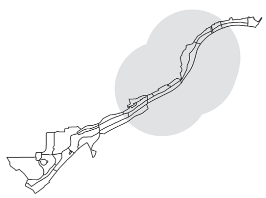
February



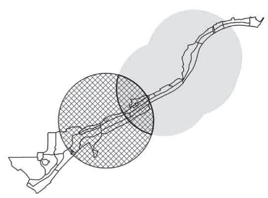
March



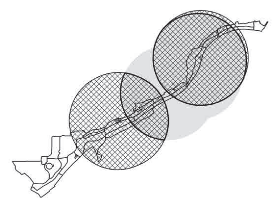
April



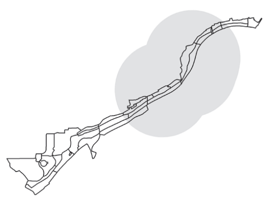
May



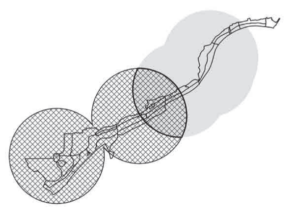
June



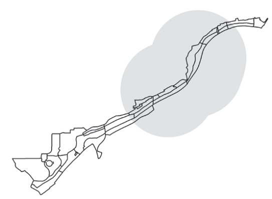
July



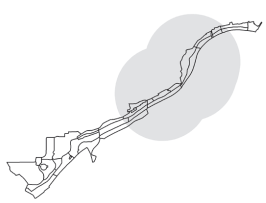
August



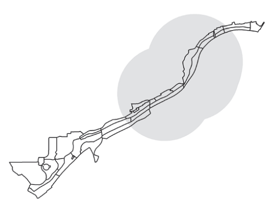
September



October

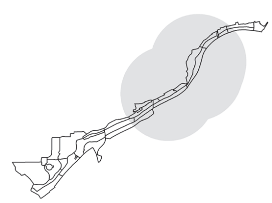


November



December*

*No bee data collected in Dec.



Peponapis spp.

Expected seasonality: **June-Sept**
Actual seasonality: **May, June, Aug**
Estimated forage radius from nest:
410.5 meters (0.25 mile)

Map scale units & areas in meters²

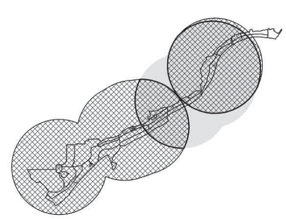
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

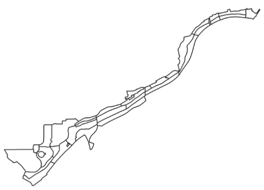
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

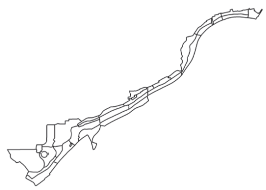
Annual Combination



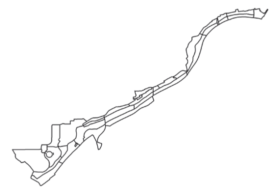
January



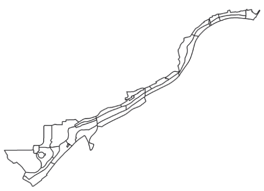
February



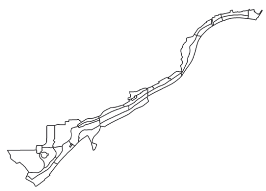
March



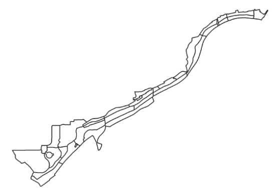
April



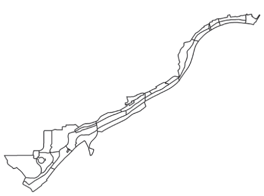
May



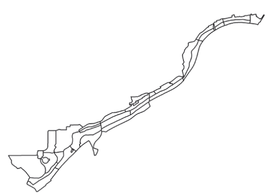
June



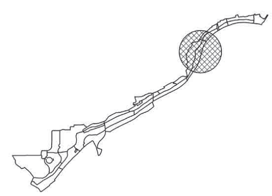
July



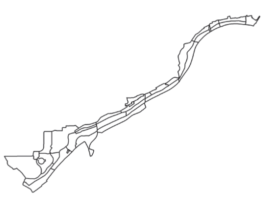
August



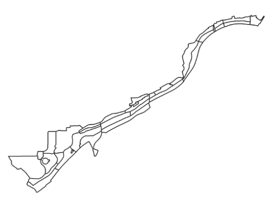
September



October

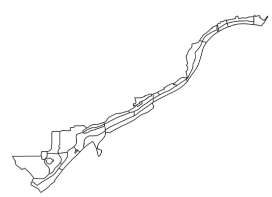


November



December*

*No bee data collected in Dec.



Sphecodes spp.

Expected seasonality: **Mar-Sept**
Actual seasonality: **Sept**
Estimated forage radius from nest:
182 meters (0.11 mile)

Meters
0 **1,000**

Bee genus not expected, no predictive plants

Map scale units & areas in meters²

N

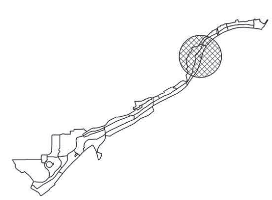
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

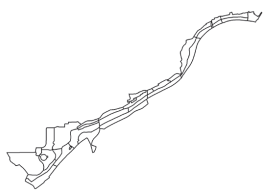
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

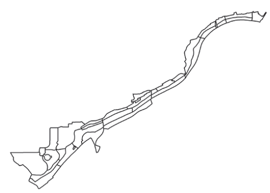
Annual Combination



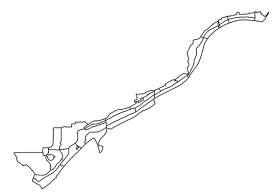
January



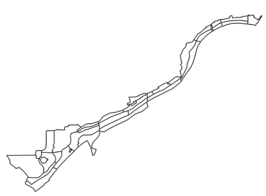
February



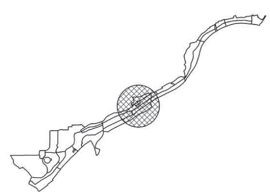
March



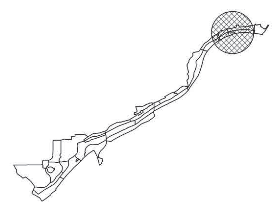
April



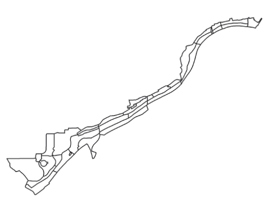
May



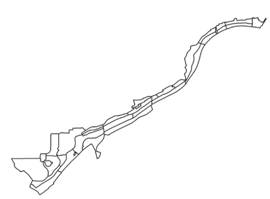
June



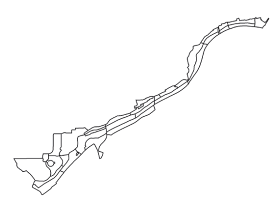
July



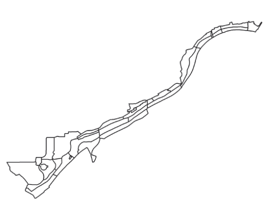
August



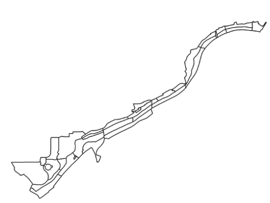
September



October

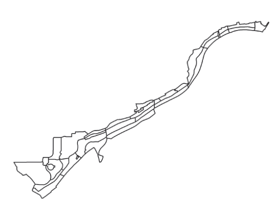


November



December*

*No bee data collected in Dec.



Stelis spp.

Expected seasonality: **Mar-Sept**
Actual seasonality: **May-June**
Estimated forage radius from nest:
182 meters (0.11 mile)

Bee genus not expected, no predictive plants

Map scale units & areas in meters²

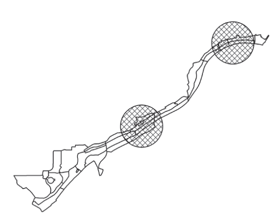
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

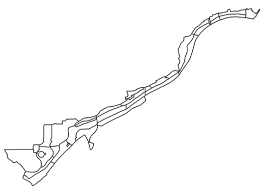
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

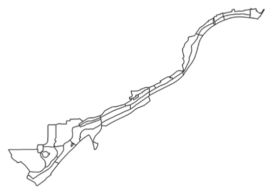
Annual Combination



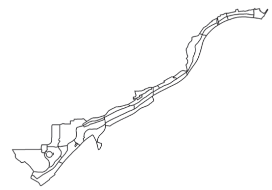
January



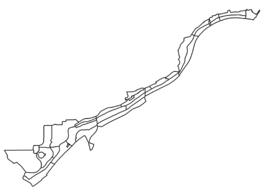
February



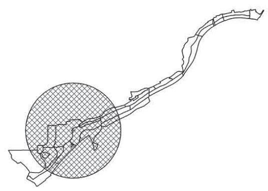
March



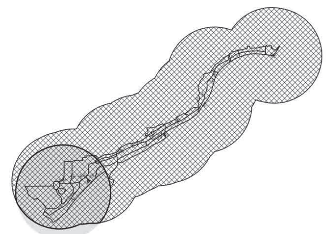
April



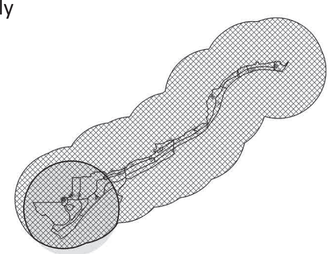
May



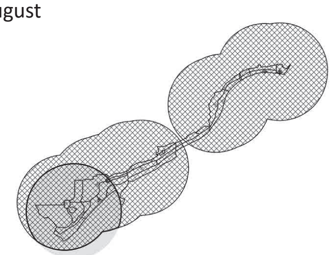
June



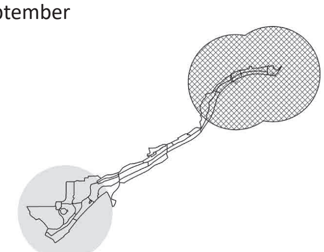
July



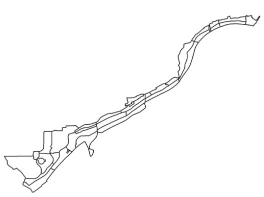
August



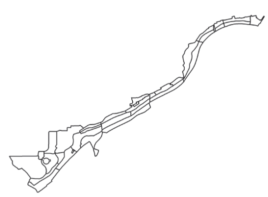
September



October

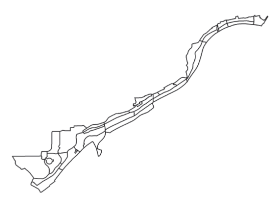


November



December*

*No bee data collected in Dec.



Svastra spp.

Expected seasonality: **May-Sept**
Actual seasonality: **May-Sept**
Estimated forage radius from nest:
410.5 meters (0.25 mile)

Map scale units & areas in meters²

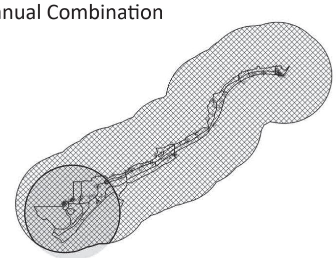
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

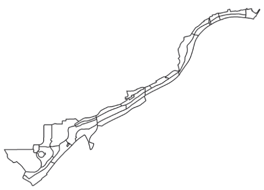
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

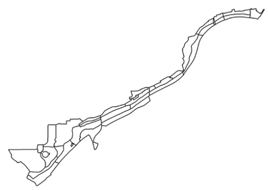
Annual Combination



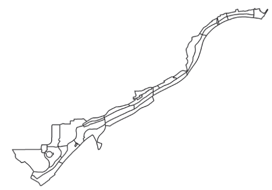
January



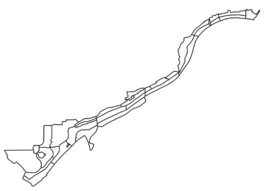
February



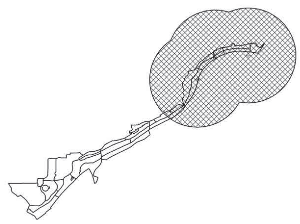
March



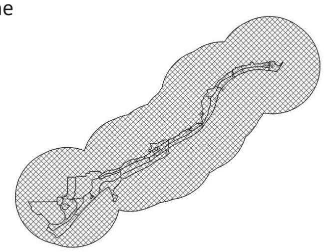
April



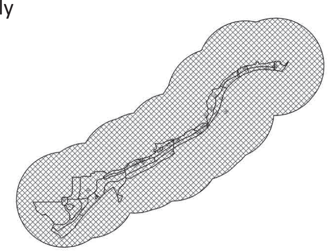
May



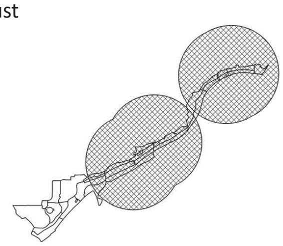
June



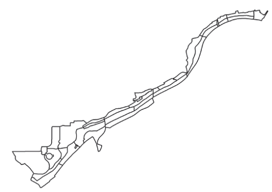
July



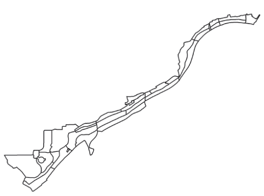
August



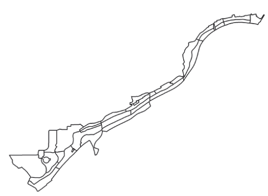
September



October

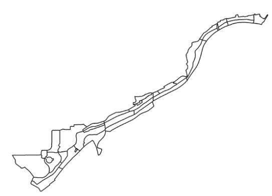


November



December*

*No bee data collected in Dec.



Triepeolus **spp.**

Expected seasonality: **Mar-Aug**
Actual seasonality: **May-Aug**
Estimated forage radius from nest:
410.5 meters (0.25 mile)

Bee genus not expected, no predictive plants

Map scale units & areas in meters²

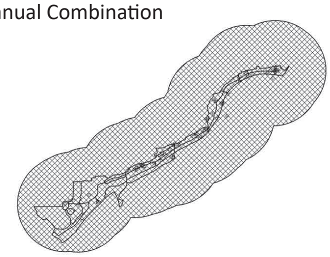
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

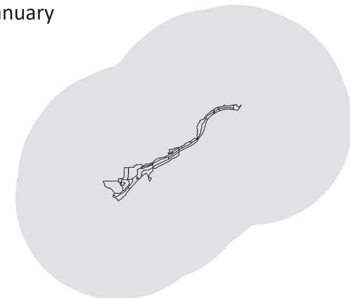
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

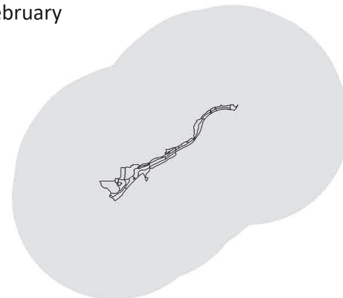
Annual Combination



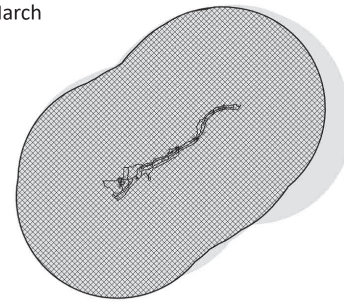
January



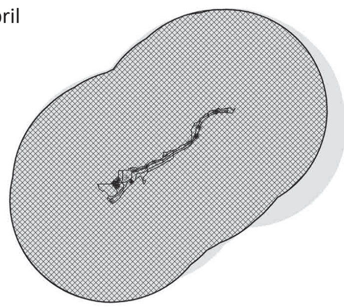
February



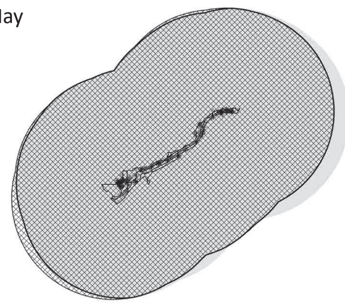
March



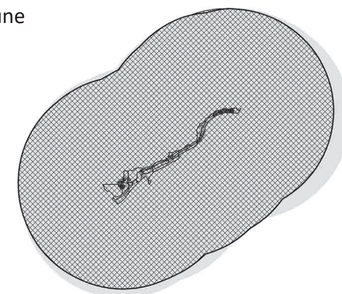
April



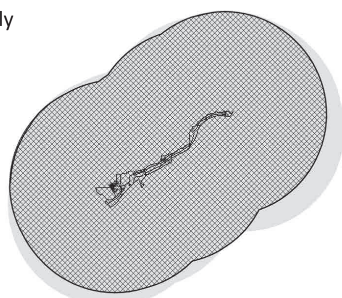
May



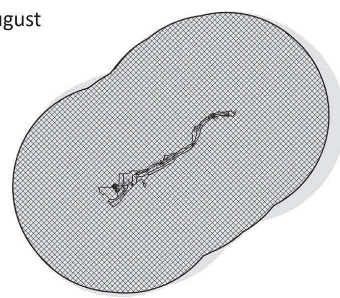
June



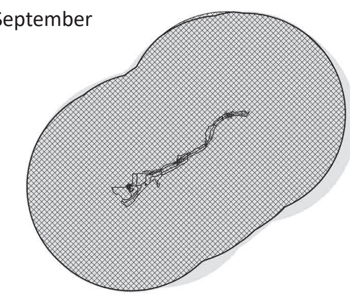
July



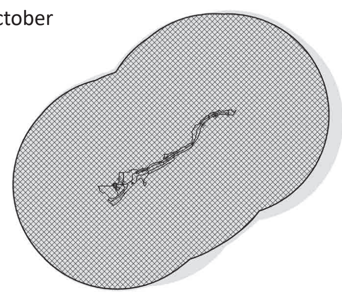
August



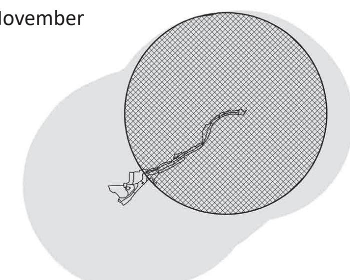
September



October

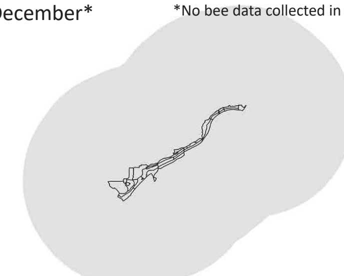


November



December*

*No bee data collected in Dec.



Xylocopa spp.

Expected seasonality: **Jan-Dec**
Actual seasonality: **Mar-Nov**
Estimated forage radius from nest:
1609 meters (1 mile)

Meters
0 1,000

Map scale units & areas in meters²

N

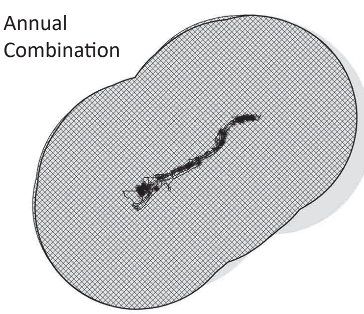
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

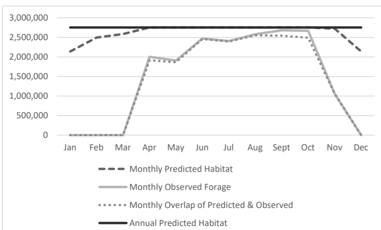
Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

Annual Combination

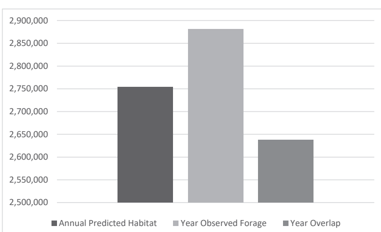


Agapostemon spp.

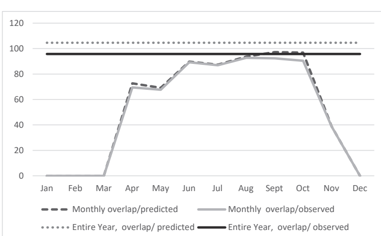
Patterns of Area Over Time



Comparison of Annual 2-D Areas

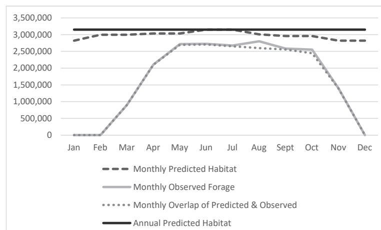


Percent Intersect Overlap Trends

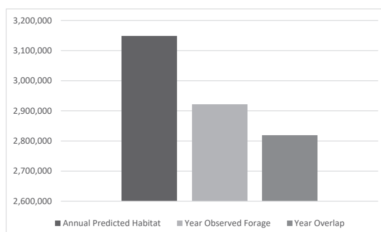


Andrena spp.

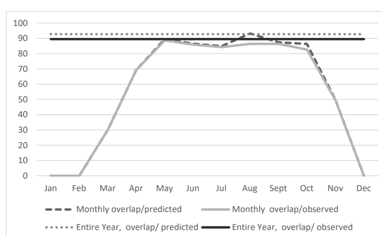
Patterns of Area Over Time



Comparison of Annual 2-D Areas

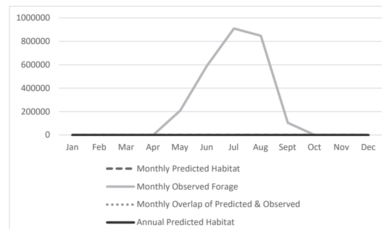


Percent Intersect Overlap Trends

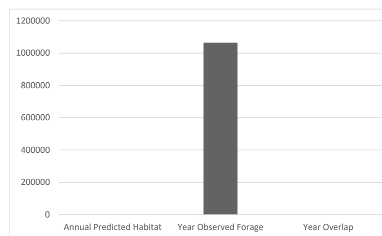


Anthidiellum spp.

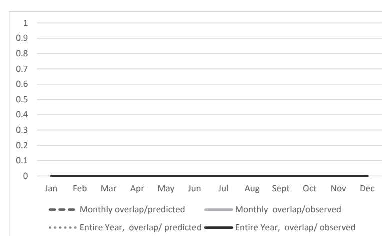
Patterns of Area Over Time



Comparison of Annual 2-D Areas

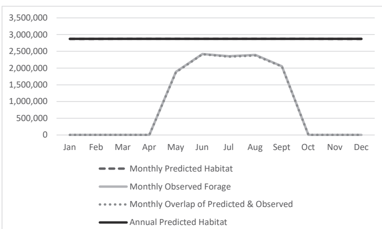


Percent Intersect Overlap Trends

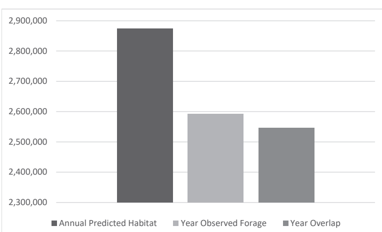


Anthidium spp.

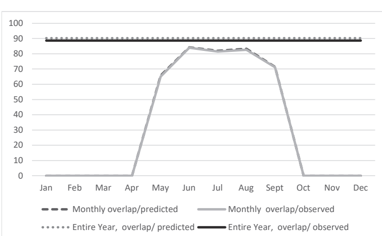
Patterns of Area Over Time



Comparison of Annual 2-D Areas

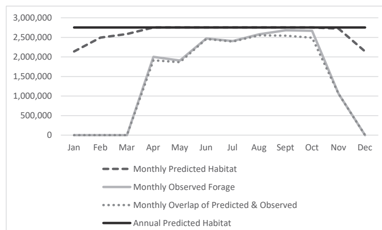


Percent Intersect Overlap Trends

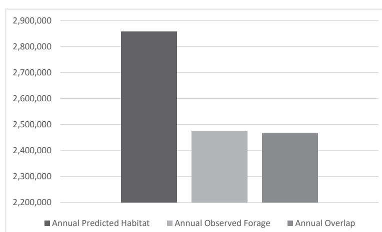


Anthophora spp.

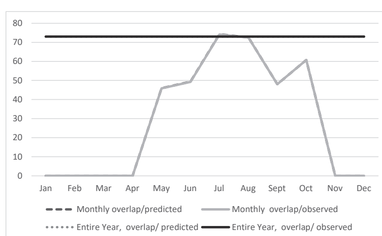
Patterns of Area Over Time



Comparison of Annual 2-D Areas

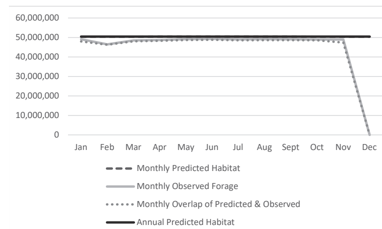


Percent Intersect Overlap Trends

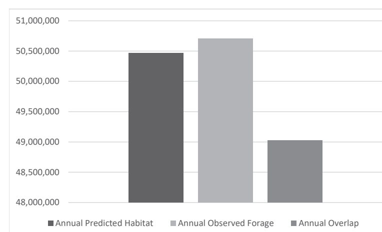


Apis mellifera

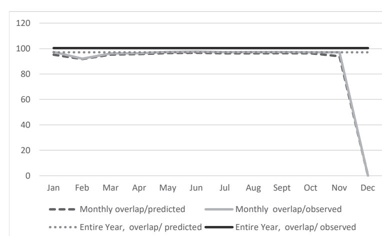
Patterns of Area Over Time



Comparison of Annual 2-D Areas

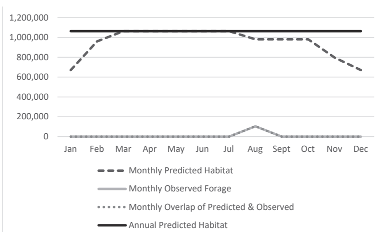


Percent Intersect Overlap Trends

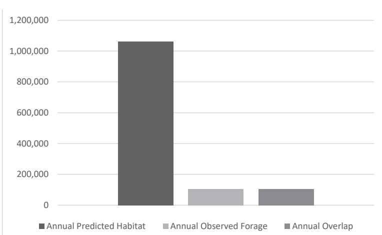


***Ashmeadiella* spp.**

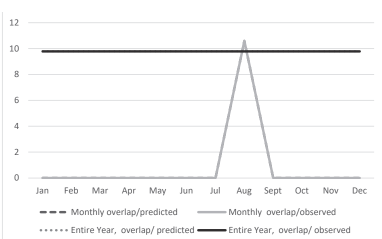
Patterns of Area Over Time



Comparison of Annual 2-D Areas

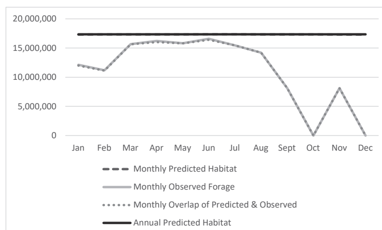


Percent Intersect Overlap Trends

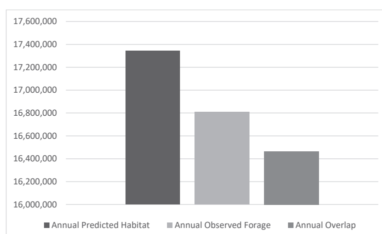


***Bombus* spp.**

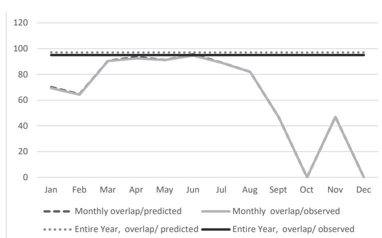
Patterns of Area Over Time



Comparison of Annual 2-D Areas

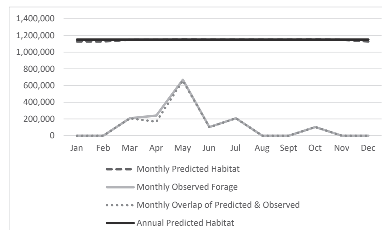


Percent Intersect Overlap Trends

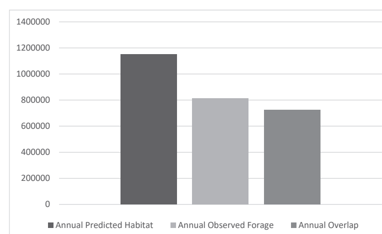


***Ceratina* spp.**

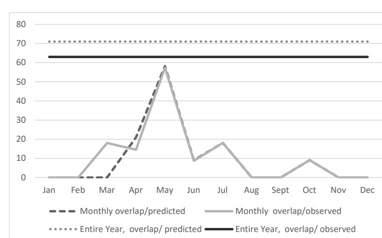
Patterns of Area Over Time



Comparison of Annual 2-D Areas

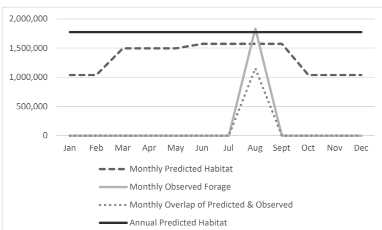


Percent Intersect Overlap Trends

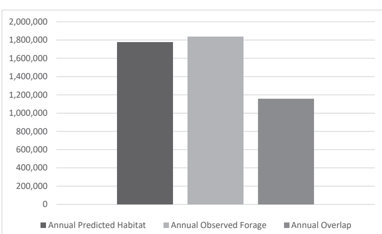


***Coelioxys* spp.**

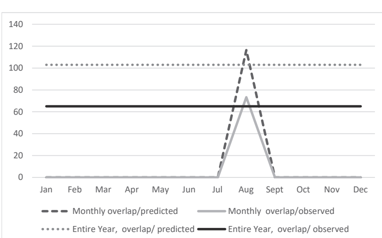
Patterns of Area Over Time



Comparison of Annual 2-D Areas

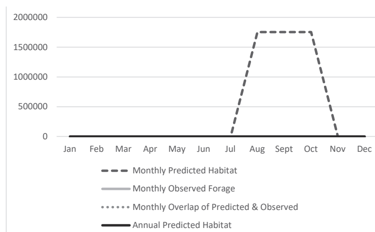


Percent Intersect Overlap Trends

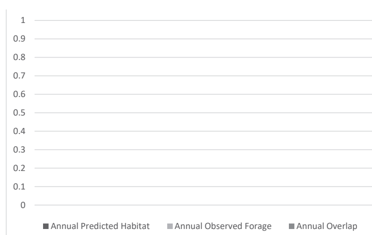


***Colletes* spp.**

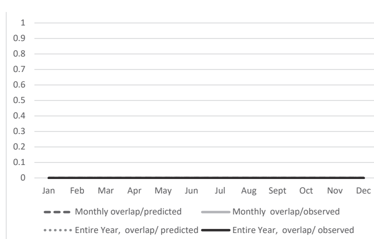
Patterns of Area Over Time



Comparison of Annual 2-D Areas

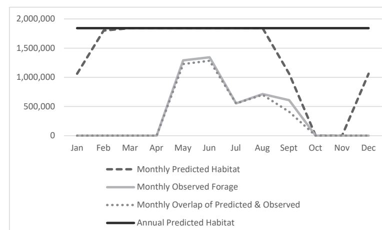


Percent Intersect Overlap Trends

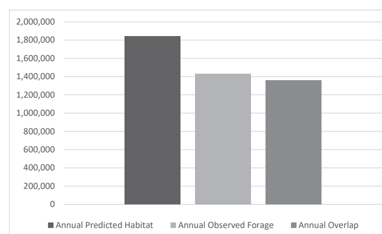


***Diadasia* spp.**

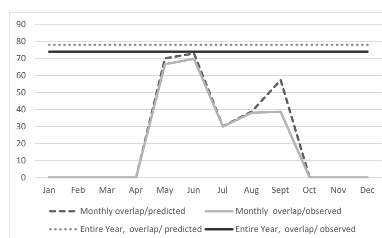
Patterns of Area Over Time



Comparison of Annual 2-D Areas

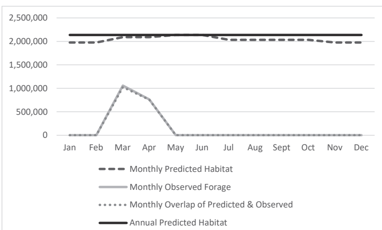


Percent Intersect Overlap Trends

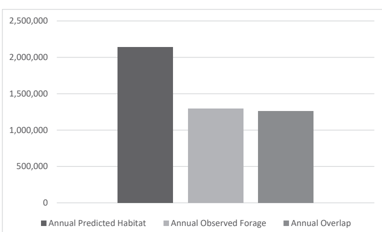


Eucera spp.

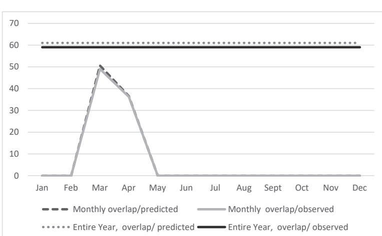
Patterns of Area Over Time



Comparison of Annual 2-D Areas

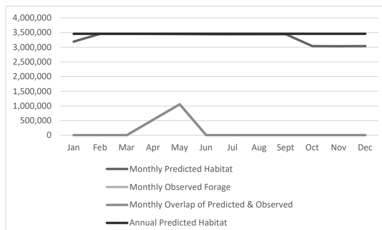


Percent Intersect Overlap Trends

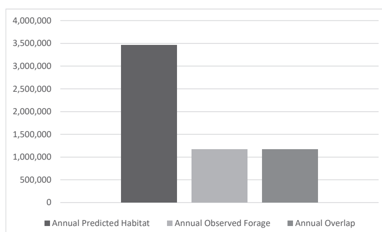


Habropoda spp.

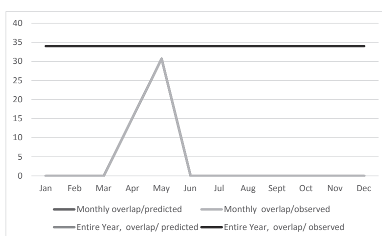
Patterns of Area Over Time



Comparison of Annual 2-D Areas

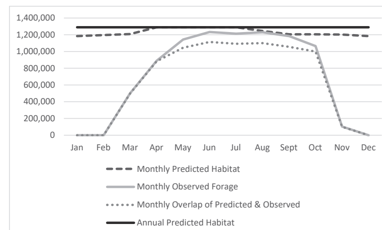


Percent Intersect Overlap Trends

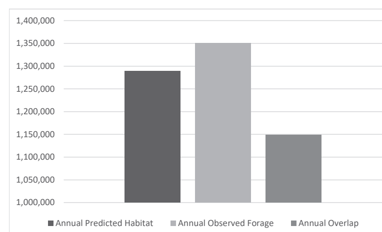


Halictus spp.

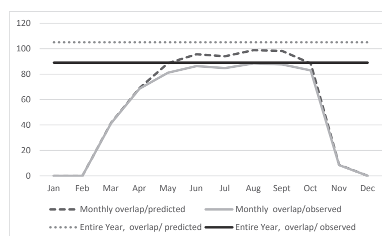
Patterns of Area Over Time



Comparison of Annual 2-D Areas

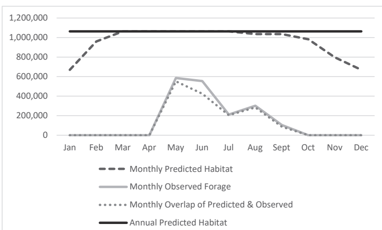


Percent Intersect Overlap Trends

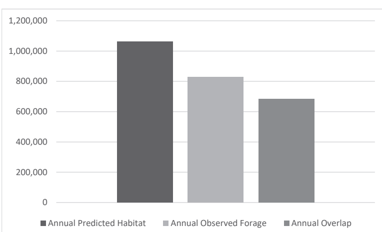


***Hoplitis* spp.**

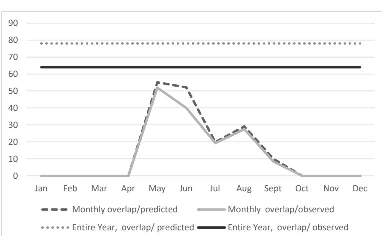
Patterns of Area Over Time



Comparison of Annual 2-D Areas

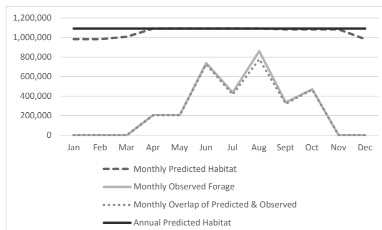


Percent Intersect Overlap Trends

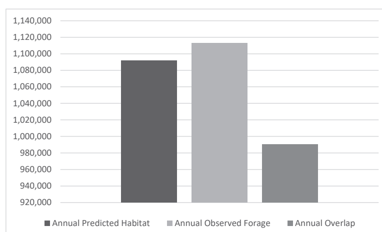


***Hylaeus* spp.**

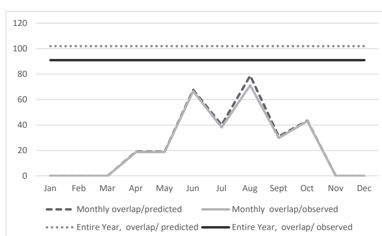
Patterns of Area Over Time



Comparison of Annual 2-D Areas

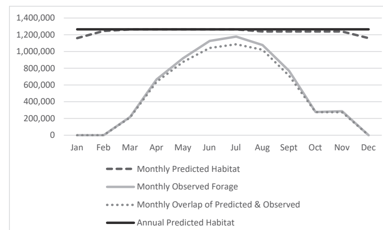


Percent Intersect Overlap Trends

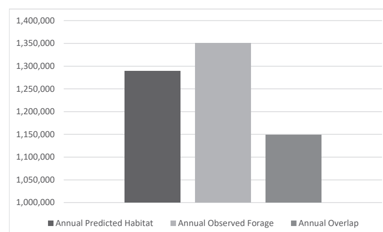


***Lasioglossum* spp.**

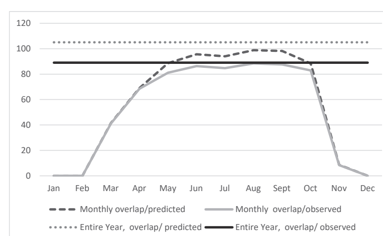
Patterns of Area Over Time



Comparison of Annual 2-D Areas

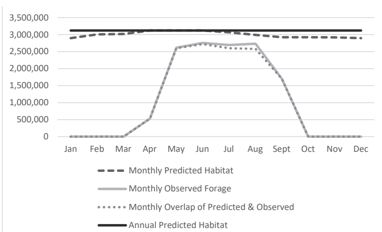


Percent Intersect Overlap Trends

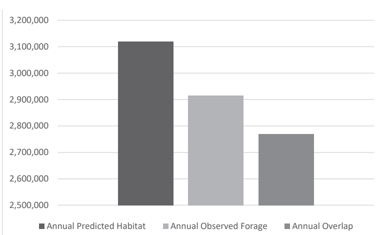


Megachile spp.

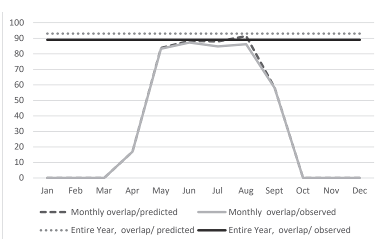
Patterns of Area Over Time



Comparison of Annual 2-D Areas

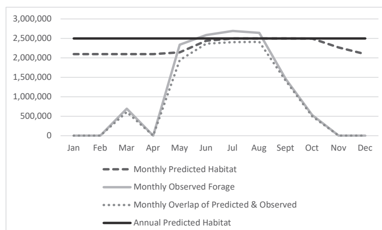


Percent Intersect Overlap Trends

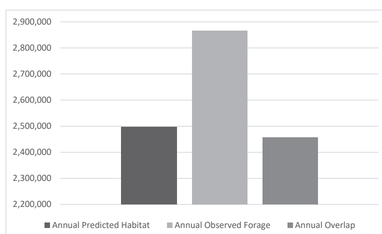


Melissodes spp.

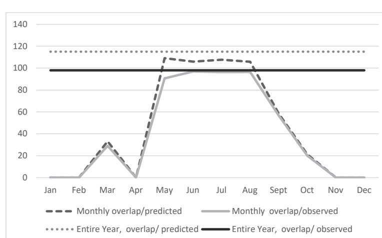
Patterns of Area Over Time



Comparison of Annual 2-D Areas

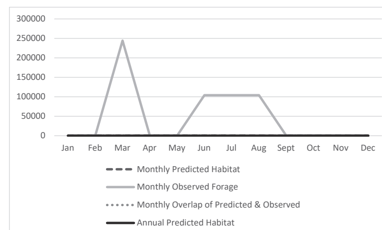


Percent Intersect Overlap Trends

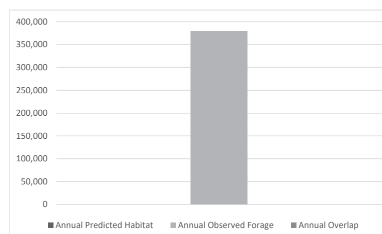


Nomada spp.

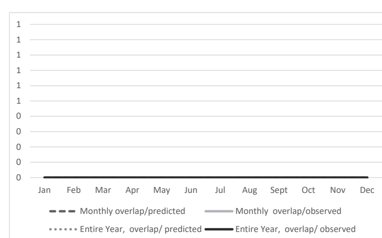
Patterns of Area Over Time



Comparison of Annual 2-D Areas

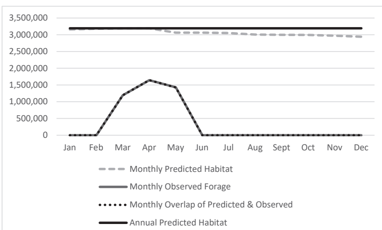


Percent Intersect Overlap Trends

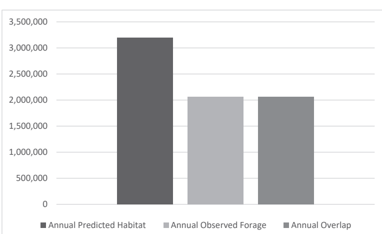


Osmia spp.

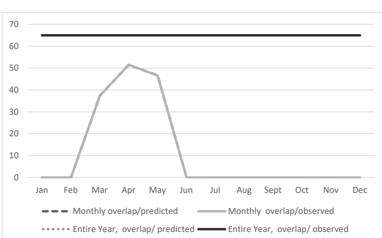
Patterns of Area Over Time



Comparison of Annual 2-D Areas

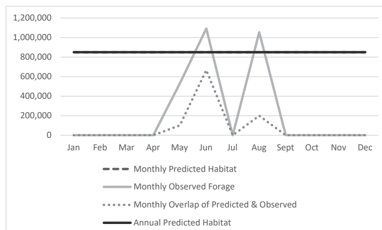


Percent Intersect Overlap Trends

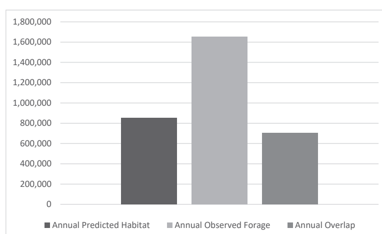


Peponapis spp.

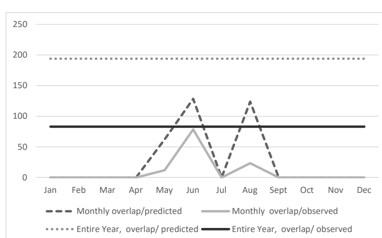
Patterns of Area Over Time



Comparison of Annual 2-D Areas

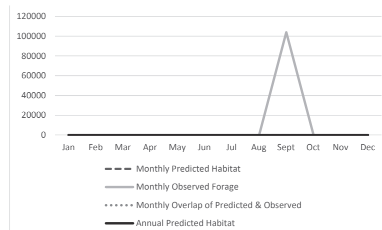


Percent Intersect Overlap Trends

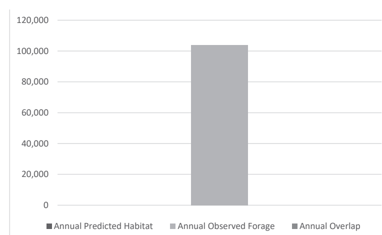


Sphecodes spp.

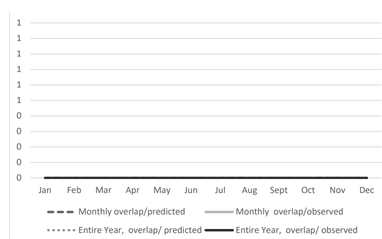
Patterns of Area Over Time



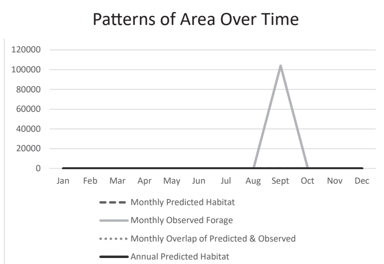
Comparison of Annual 2-D Areas

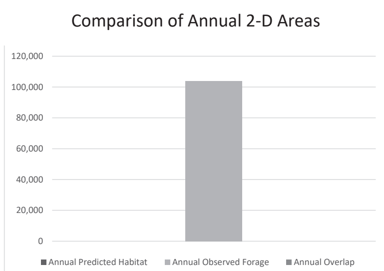


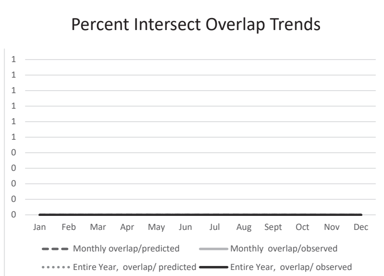
Percent Intersect Overlap Trends



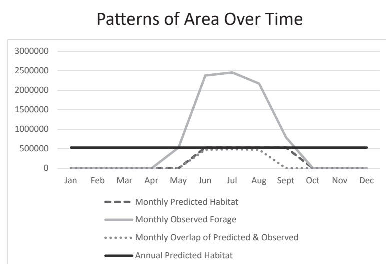
***Stelis* spp.**

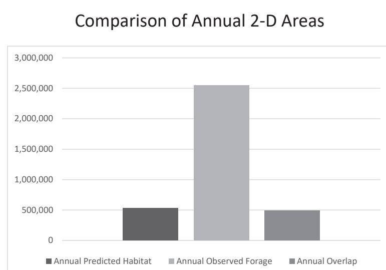


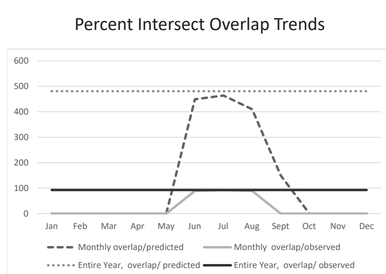




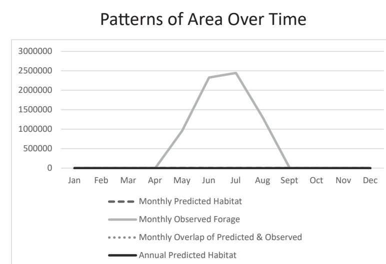
***Svastra* spp.**

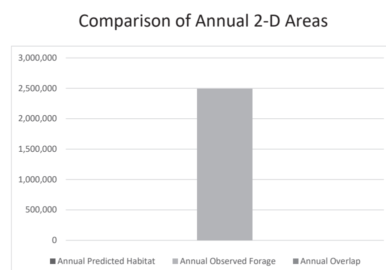


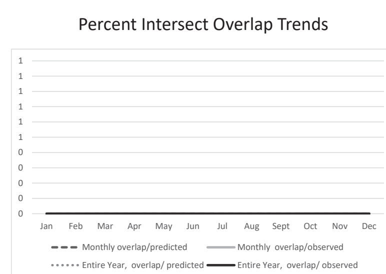




***Triepeolus* spp.**

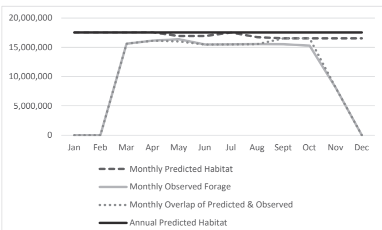




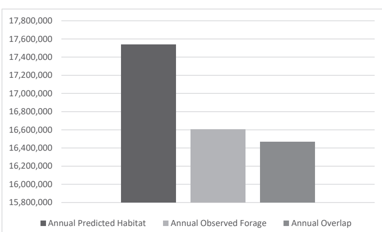


Xylocopa spp.

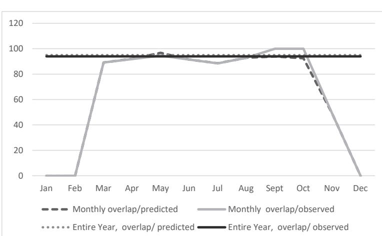
Patterns of Area Over Time



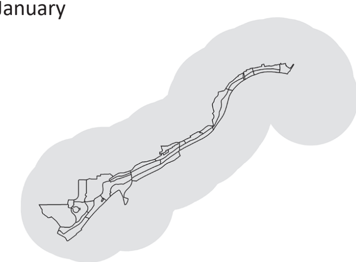
Comparison of Annual 2-D Areas



Percent Intersect Overlap Trends



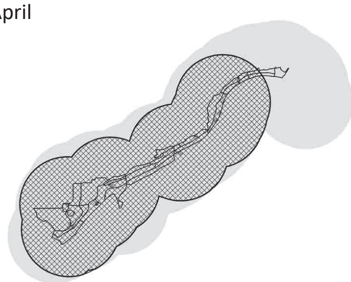
January



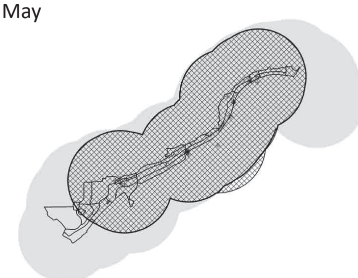
February

March

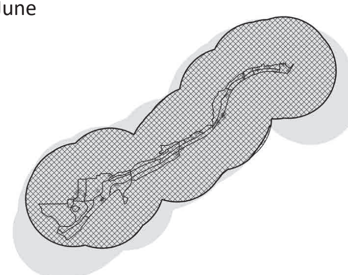
April



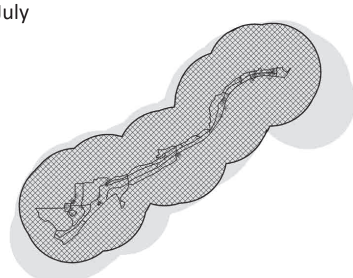
May



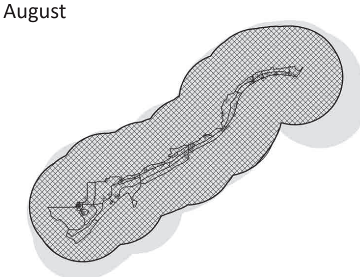
June



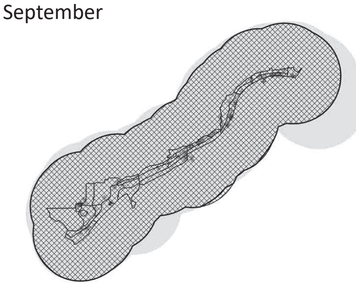
July



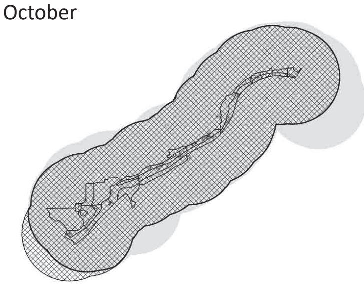
August



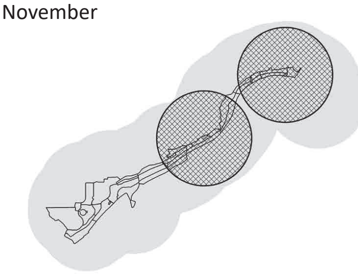
September



October

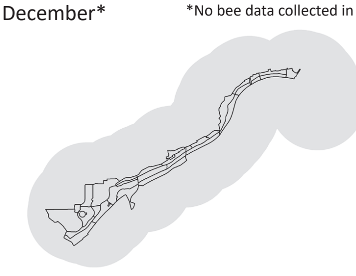


November



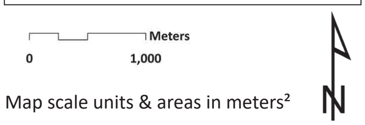
December*

*No bee data collected in Dec.



Agapostemon **spp.**

Expected seasonality: **Mar-Oct**
Actual seasonality: **April-Oct**
Estimated forage radius from nest:
410.5 meters (0.25 miles)



Map scale units & areas in meters²

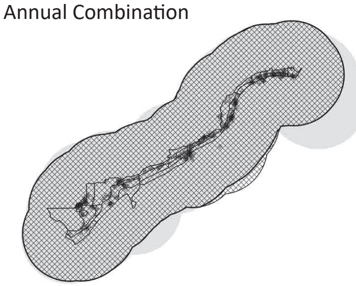
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

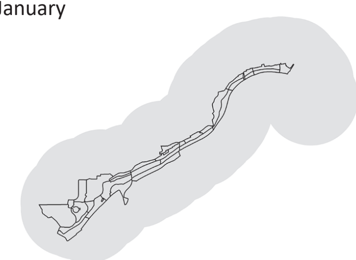
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

Annual Combination

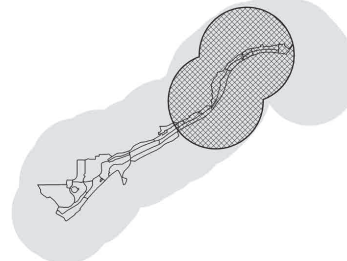


January

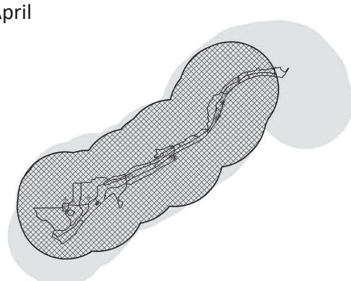


February

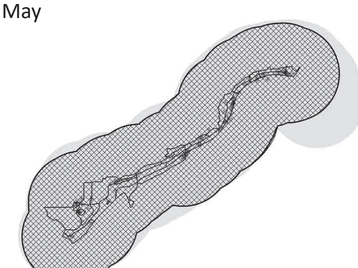
March



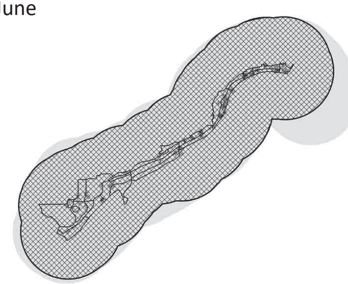
April



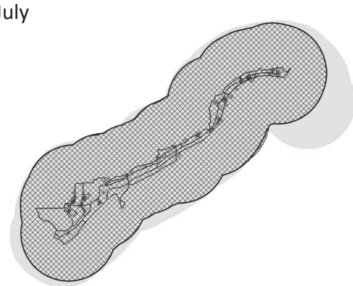
May



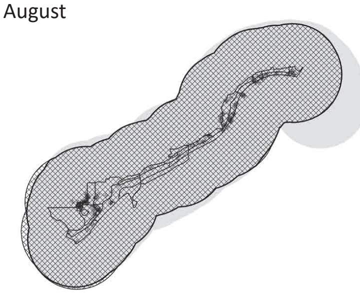
June



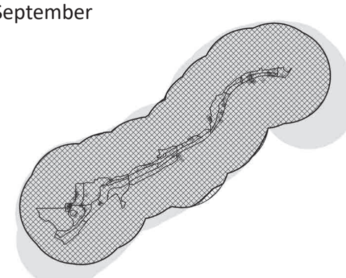
July



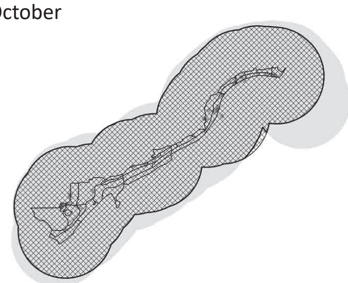
August



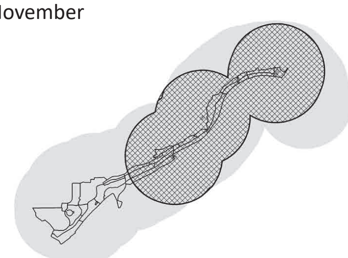
September



October

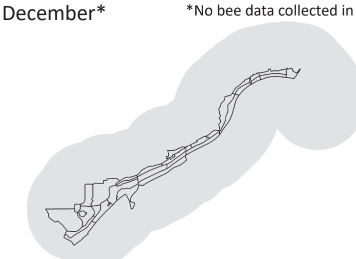


November



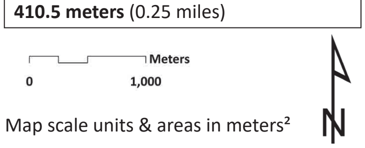
December*

*No bee data collected in Dec.



Andrena **spp.**

Expected seasonality: **Feb-May** Actual seasonality: **Mar-Nov** Estimated forage radius from nest: **410.5 meters** (0.25 miles)



Map scale units & areas in meters²

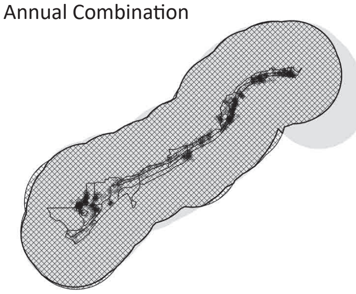
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

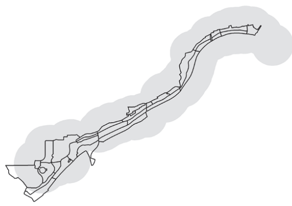
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

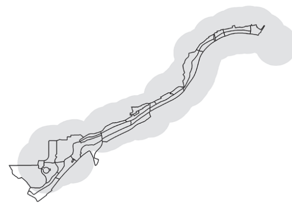
Annual Combination



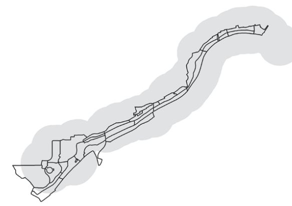
January



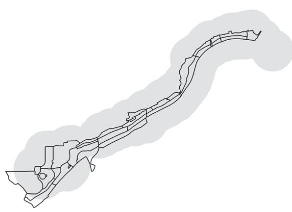
February



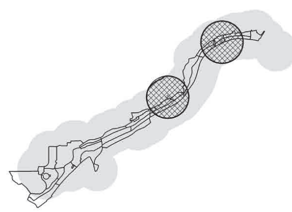
March



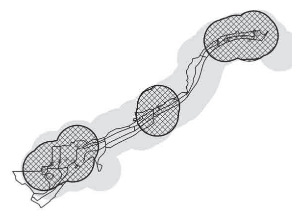
April



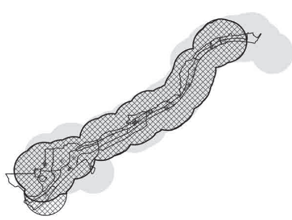
May



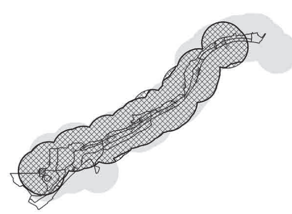
June



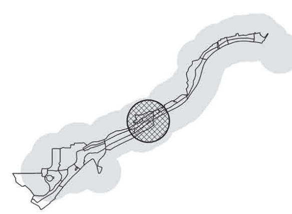
July



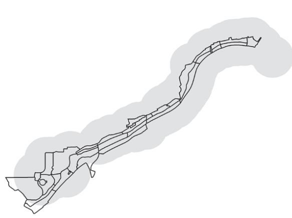
August



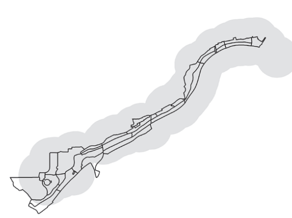
September



October

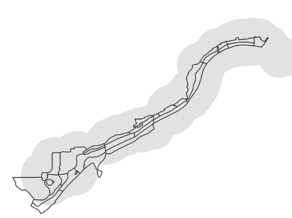


November



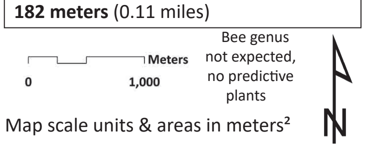
December*

*No bee data collected in Dec.



Anthidiellum spp.

Expected seasonality: **May-Oct**
Actual seasonality: **May-Sept**
Estimated forage radius from nest:
182 meters (0.11 miles)



Bee genus not expected, no predictive plants

Map scale units & areas in meters²

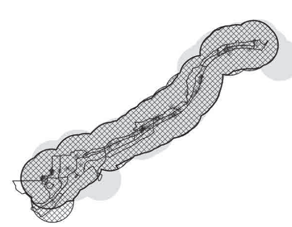
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

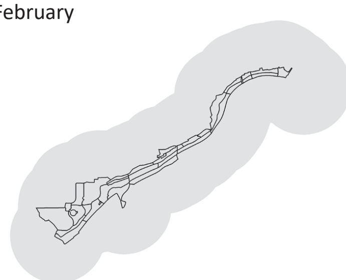
Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

Annual Combination

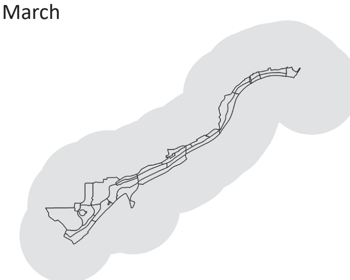


January

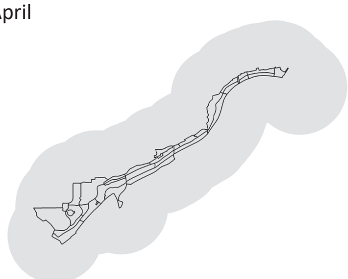
February



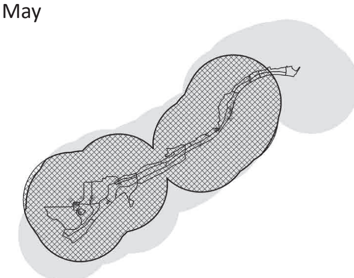
March



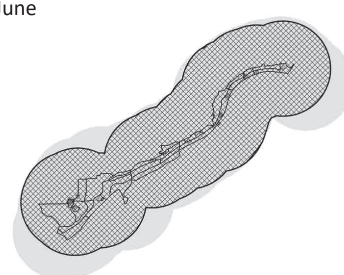
April



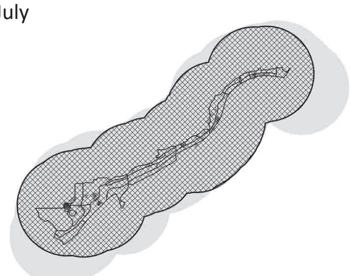
May



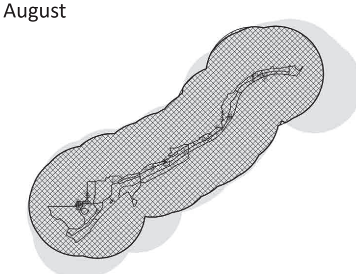
June



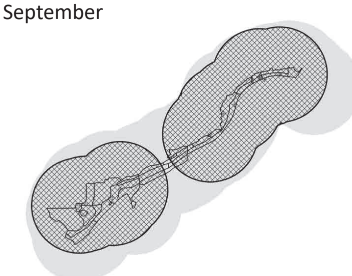
July



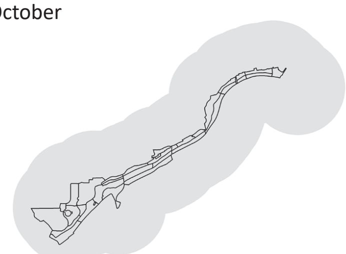
August



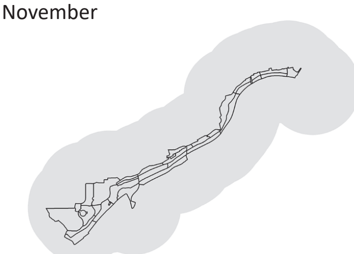
September



October

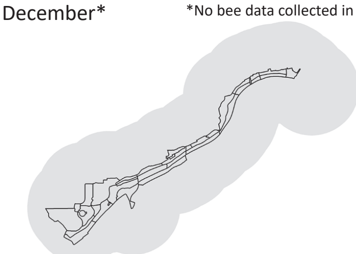


November



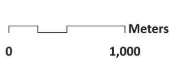
December*

*No bee data collected in Dec.



Anthidium spp.

Expected Seasonality: **May-Aug**
Actual seasonality: **May-Sept**
Estimated forage radius from nest:
410.5 meters (0.25 mile)



Map scale units & areas in meters²

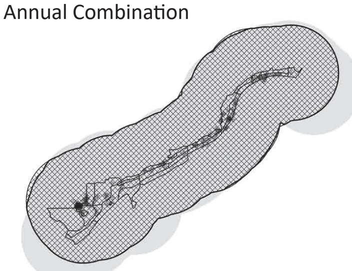
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

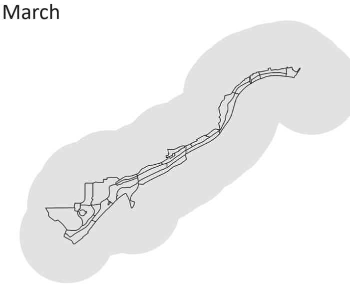
Annual Combination



January

February

March

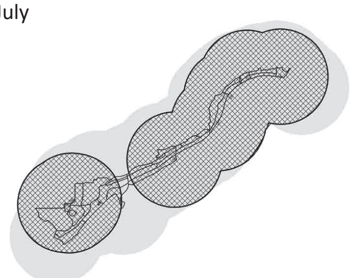


April

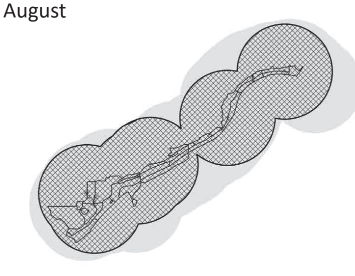
May

June

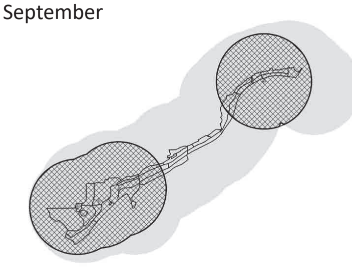
July



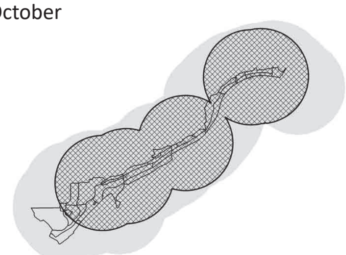
August



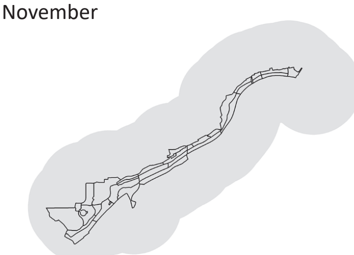
September



October

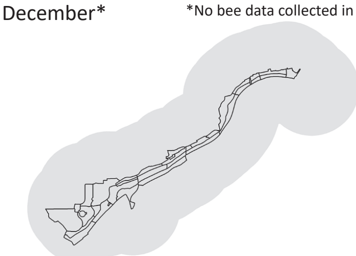


November



December*

*No bee data collected in Dec.



Anthophora spp.

Expected seasonality: **Mar-June**
Actual seasonality: **May-Oct**
Estimated forage radius from nest:
410.5 meters (0.25 mile)

Meters
0 1,000

Map scale units & areas in meters²

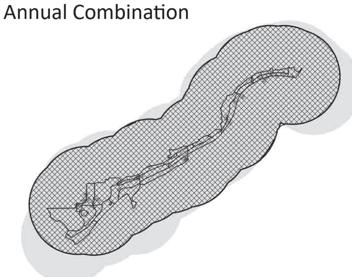
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

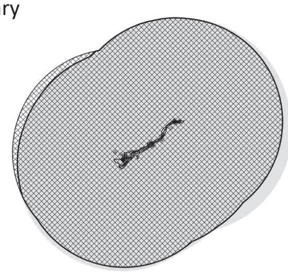
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

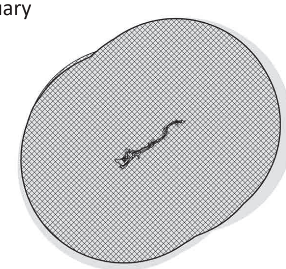
Annual Combination



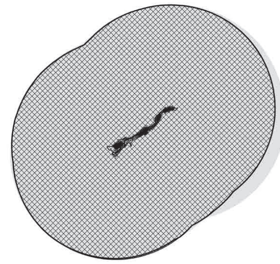
January



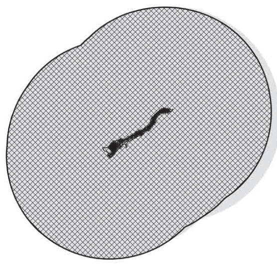
February



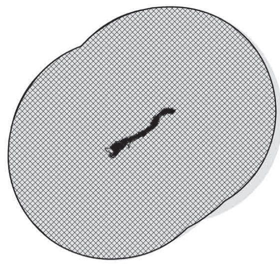
March



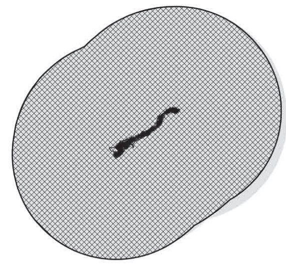
April



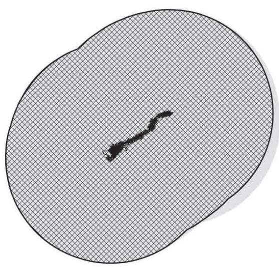
May



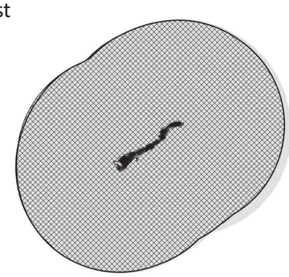
June



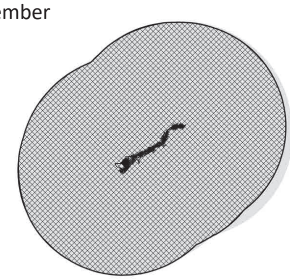
July



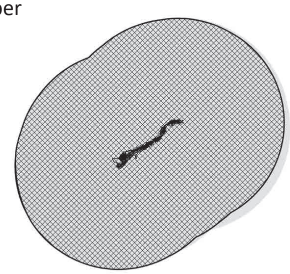
August



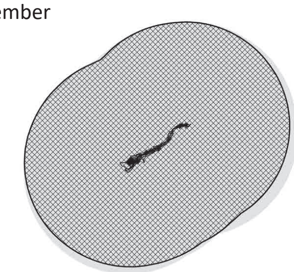
September



October

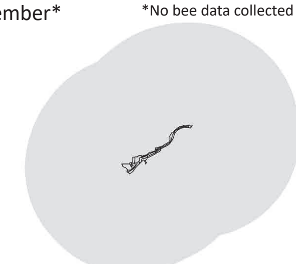


November



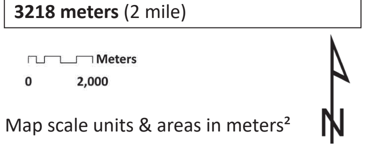
December*

*No bee data collected in Dec.



Apis mellifera

Expected seasonality: **Jan-Dec**
Actual seasonality: **Jan-Nov**
Estimated forage radius from nest:
3218 meters (2 mile)



Map scale units & areas in meters²

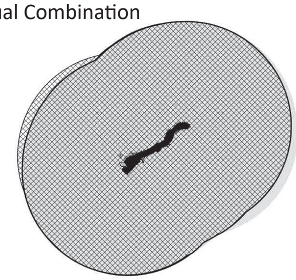
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

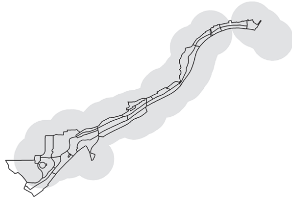
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

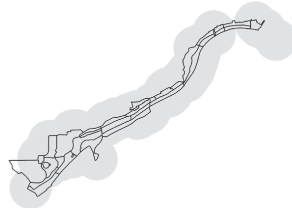
Annual Combination



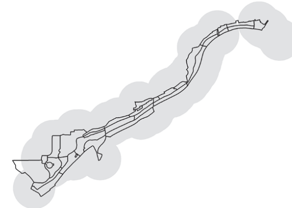
January



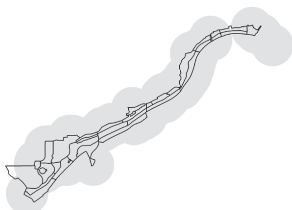
February



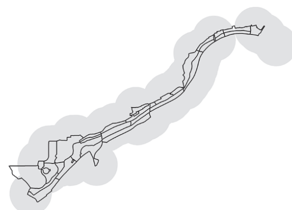
March



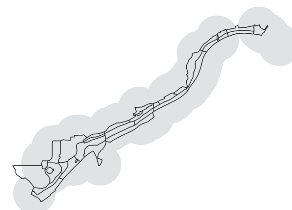
April



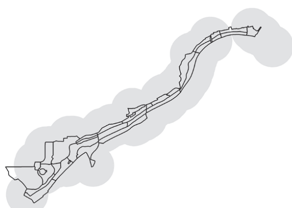
May



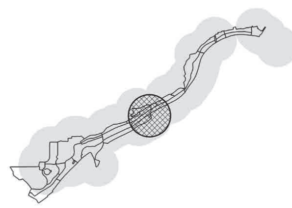
June



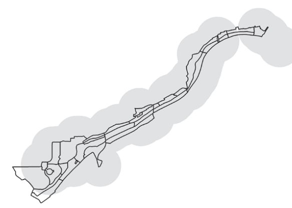
July



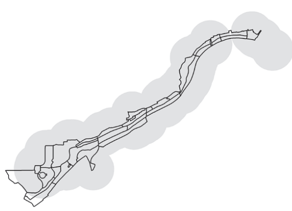
August



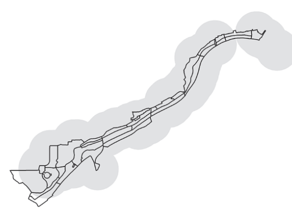
September



October

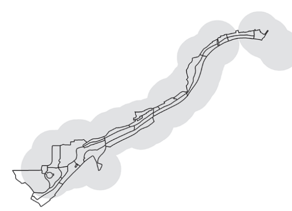


November



December*

*No bee data collected in Dec.



Ashmeadiella spp.

Expected seasonality: **May-Sept**
Actual seasonality: **Aug**
Estimated forage radius from nest:
182 meters (0.11 mile)

Meters
0 1,000

Map scale units & areas in meters²

N

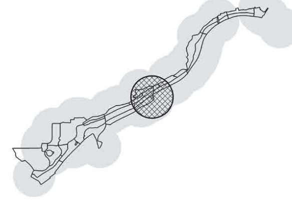
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

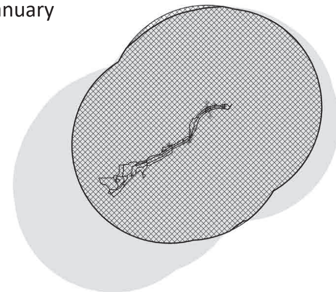
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

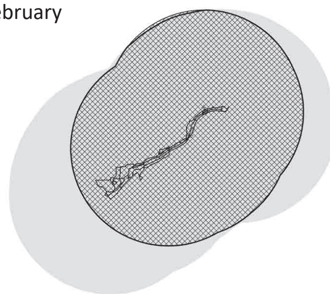
Annual Combination



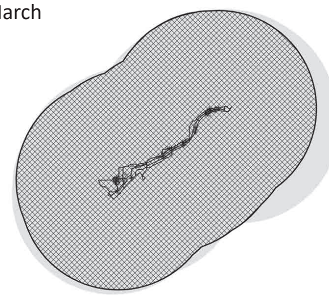
January



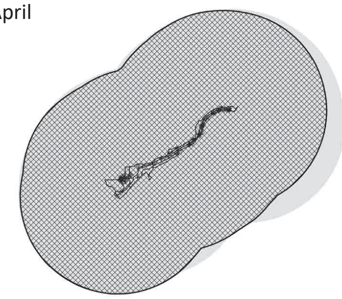
February



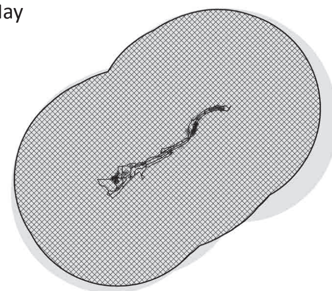
March



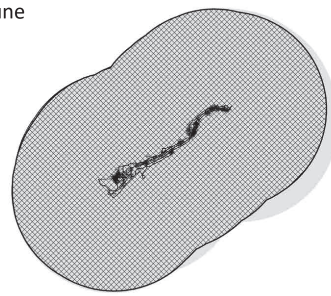
April



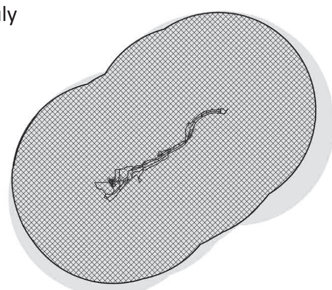
May



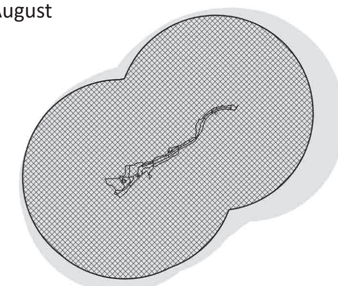
June



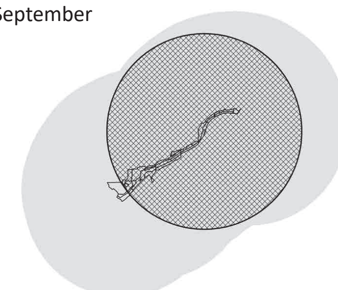
July



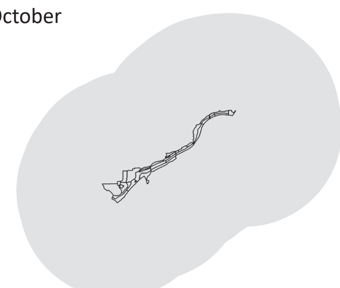
August



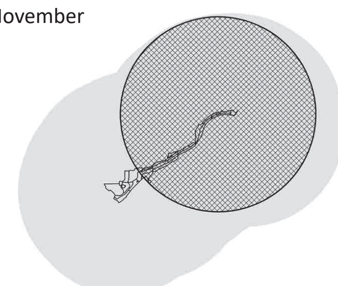
September



October

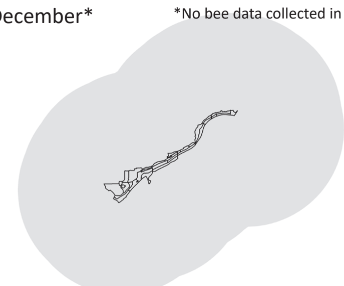


November



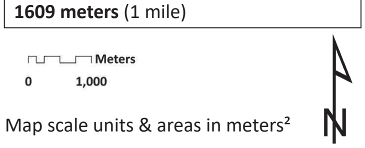
December*

*No bee data collected in Dec.



***Bombus* spp.**

Expected seasonality: **Feb-Sept**
Actual seasonality: **Jan-Sept, Nov**
Estimated forage radius from nest: **1609 meters** (1 mile)



Map scale units & areas in meters²

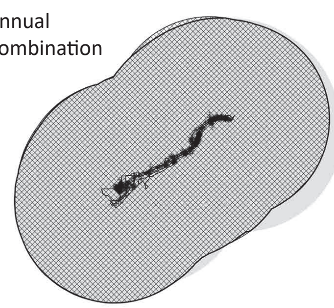
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

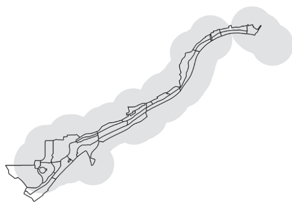
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

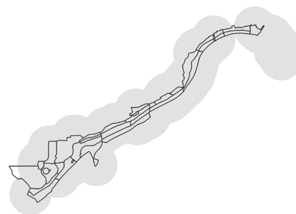
Annual
Combination



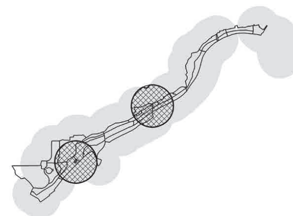
January



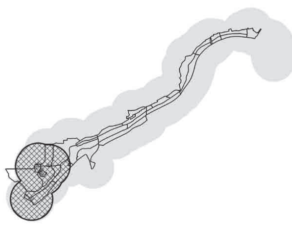
February



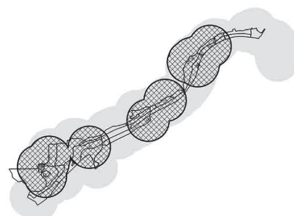
March



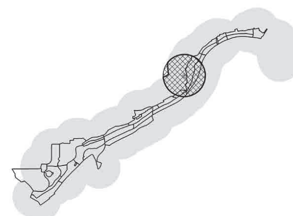
April



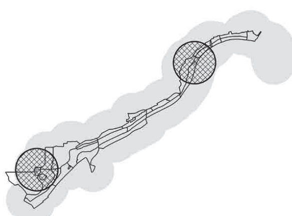
May



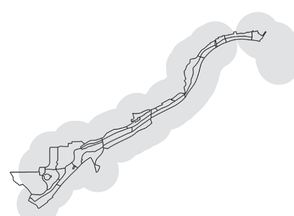
June



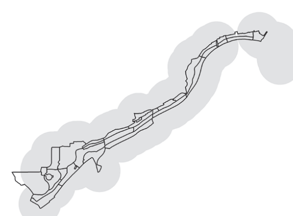
July



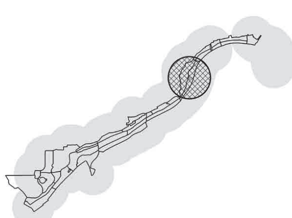
August



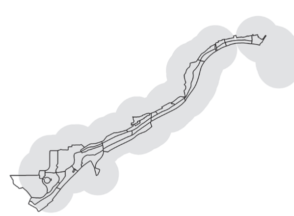
September



October

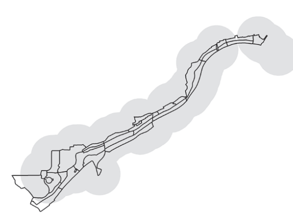


November



December*

*No bee data collected in Dec.



Ceratina **spp.**

Expected seasonality: **Mar-Sept**
Actual seasonality: **Mar-July, Oct**
Estimated forage radius from nest:
182 meters (0.11 mile)

Map scale units & areas in meters²

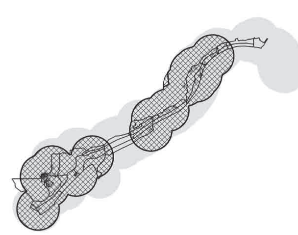
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

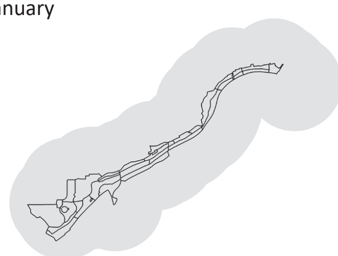
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

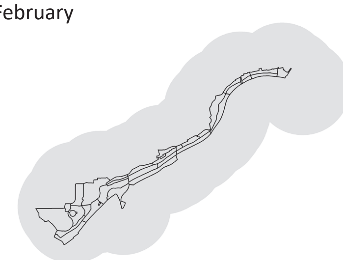
Annual Combination



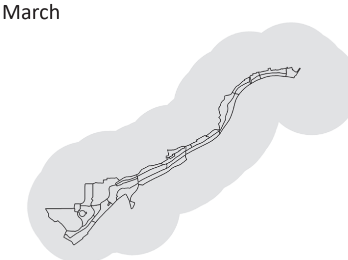
January



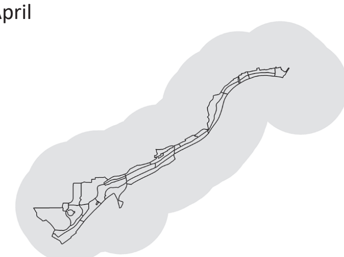
February



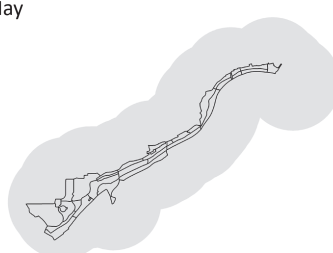
March



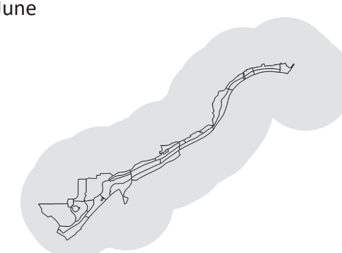
April



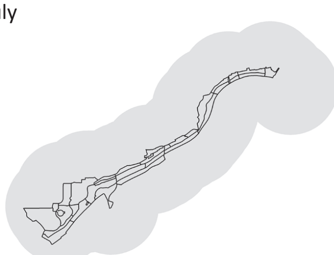
May



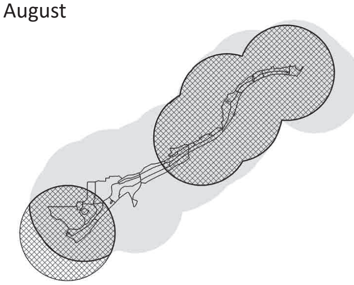
June



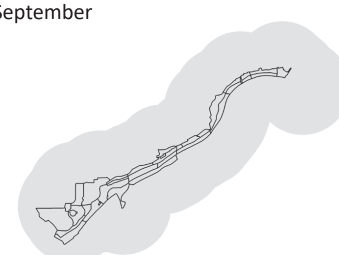
July



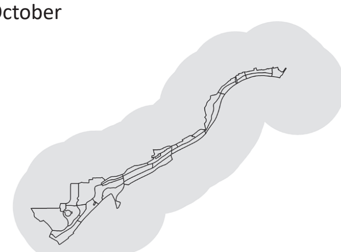
August



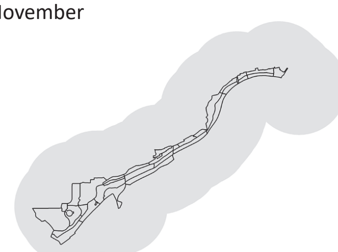
September



October

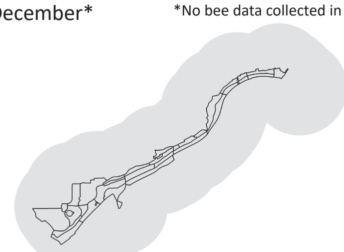


November



December*

*No bee data collected in Dec.



Coelioxys spp.

Expected seasonality: **May-Sept**
Actual seasonality: **Aug**
Estimated forage radius from nest:
410.5 meters (0.25 mile)

Map scale units & areas in meters²

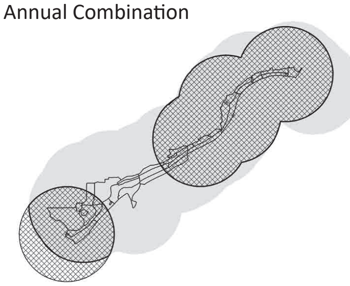
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

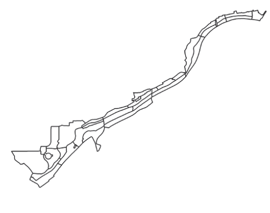
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

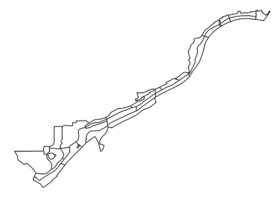
Annual Combination



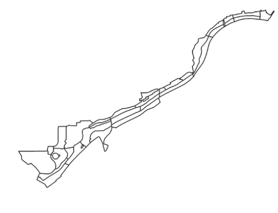
January



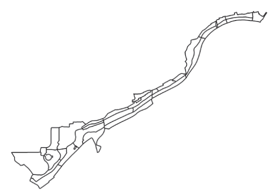
February



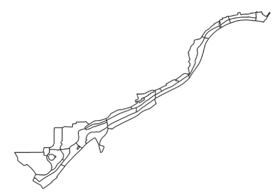
March



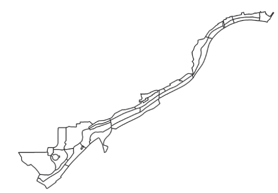
April



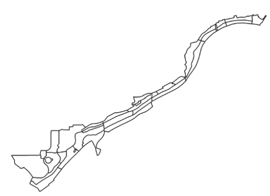
May



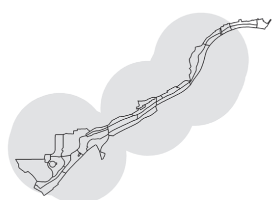
June



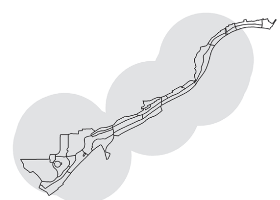
July



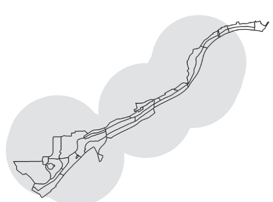
August



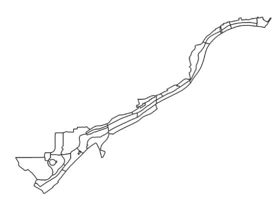
September



October

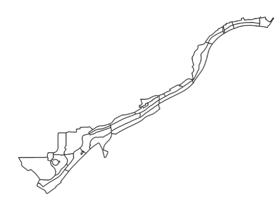


November



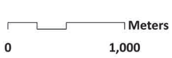
December*

*No bee data collected in Dec.



Colletes spp.

Expected seasonality: **May-Sept**
Actual seasonality: **none**
Estimated forage radius from nest:
410.5 meters (0.25 mile)



Map scale units & areas in meters²

Graphics Legend

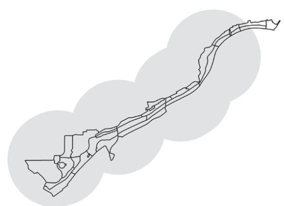
Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

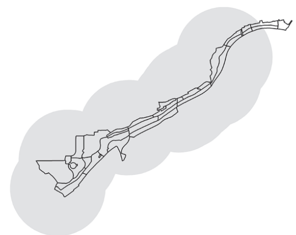
Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

Annual Combination

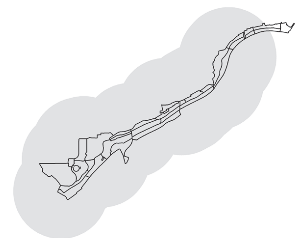
January



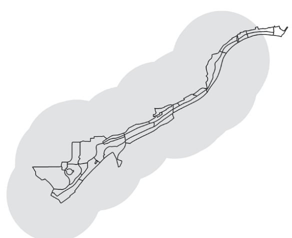
February



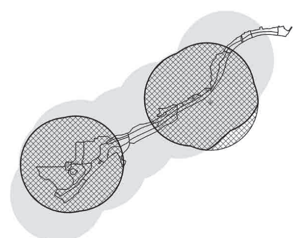
March



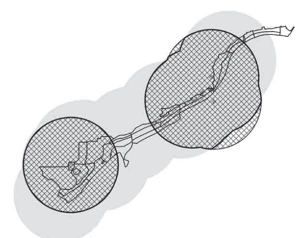
April



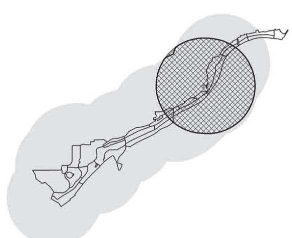
May



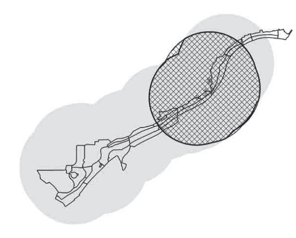
June



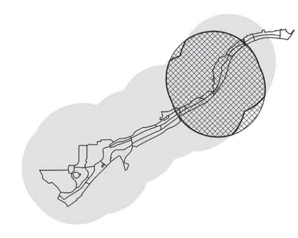
July



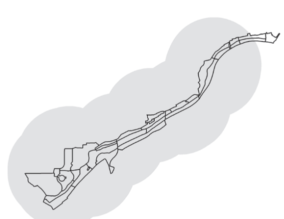
August



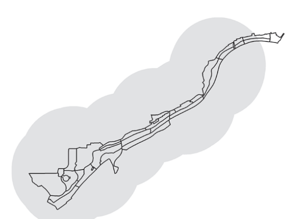
September



October

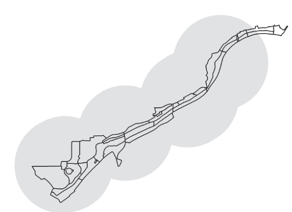


November



December*

*No bee data collected in Dec.



Diadasia spp.

Expected seasonality: **Apr-Aug**
Actual seasonality: **May-Sept**
Estimated forage radius from nest:
410.5 meters (0.25 mile)

Meters
0 1,000

N

Map scale units & areas in meters²

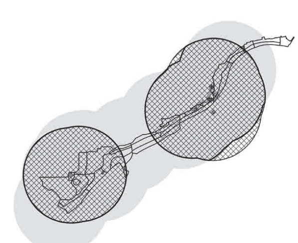
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

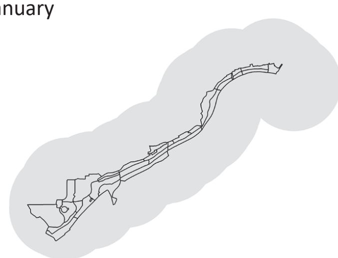
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

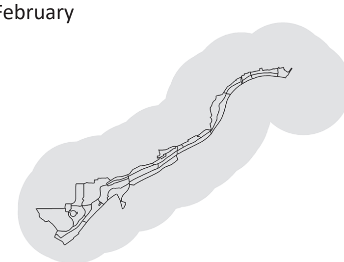
Annual Combination



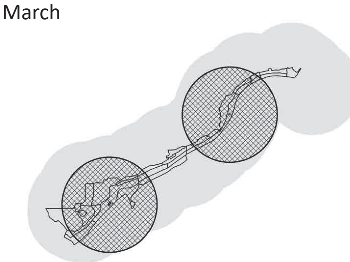
January



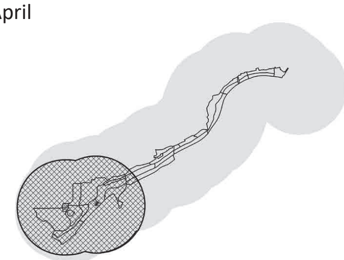
February



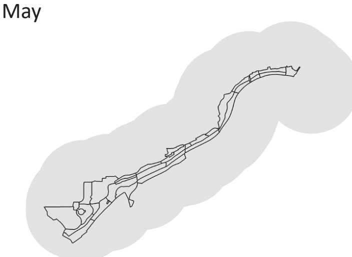
March



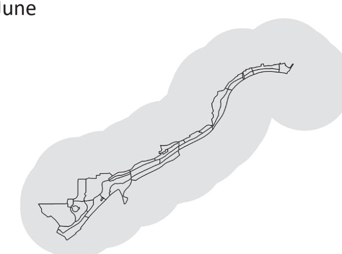
April



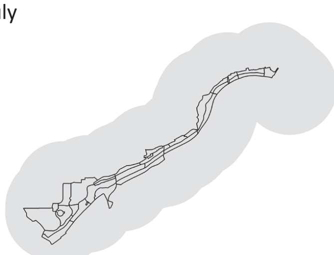
May



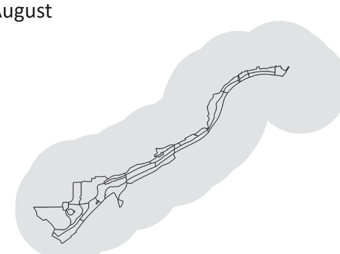
June



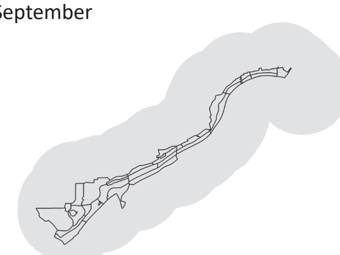
July



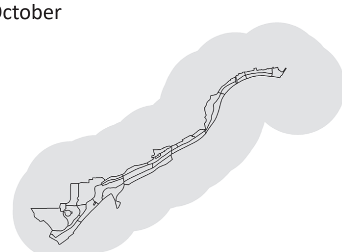
August



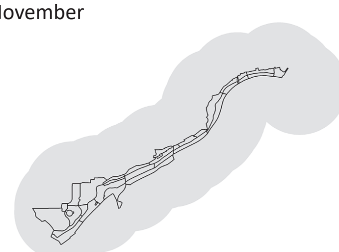
September



October

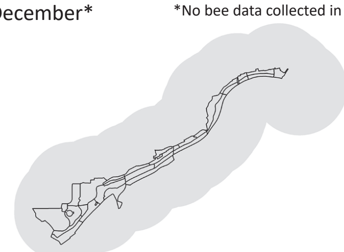


November



December*

*No bee data collected in Dec.



Eucera spp.

Expected seasonality: **Mar-June**
Actual seasonality: **Mar-Apr**
Estimated forage radius from nest:
410.5 meters (0.25 mile)

Map scale units & areas in meters²

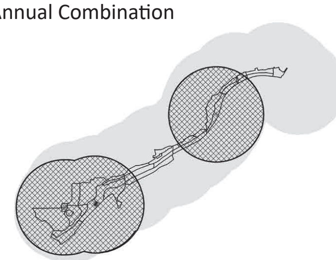
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

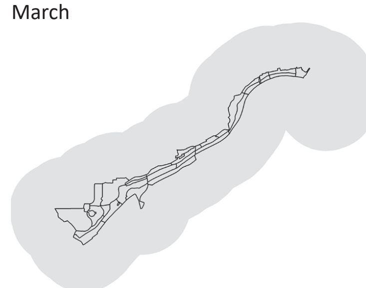
Annual Combination



January

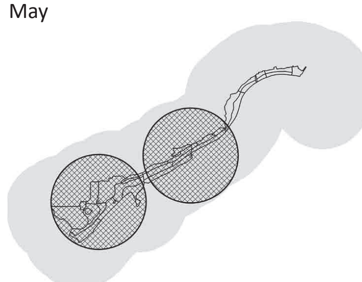
February

March

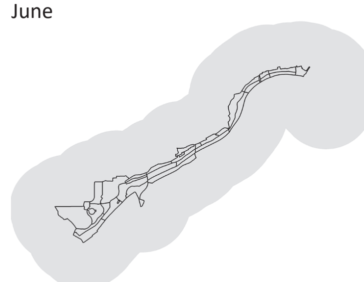


April

May

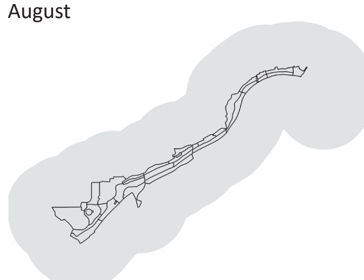


June

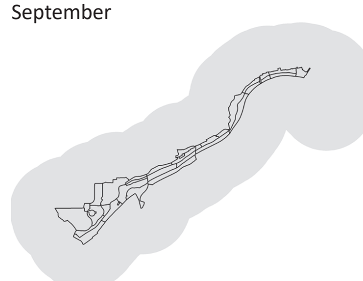


July

August

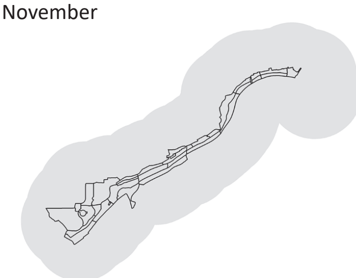


September



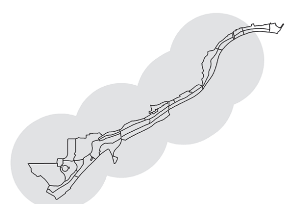
October

November



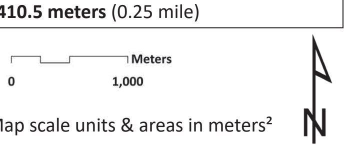
December*

*No bee data collected in Dec.



Habropoda spp.

Expected seasonality: **Feb-June**
Actual seasonality: **Mar-Apr**
Estimated forage radius from nest:
410.5 meters (0.25 mile)



Map scale units & areas in meters²

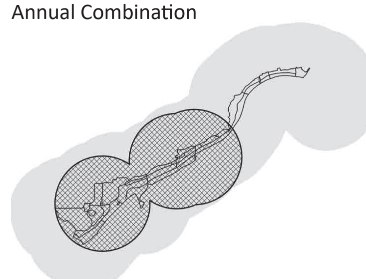
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

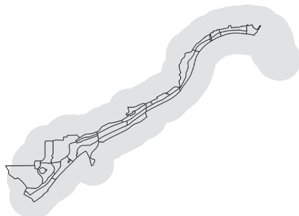
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

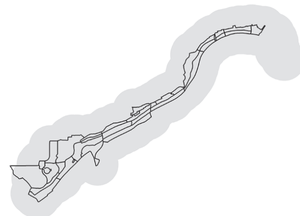
Annual Combination



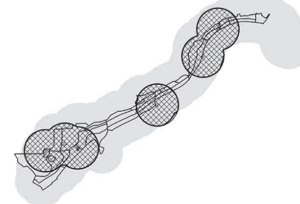
January



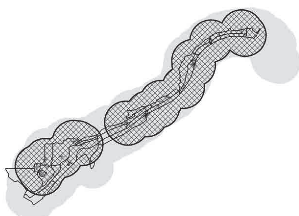
February



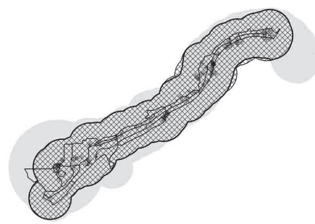
March



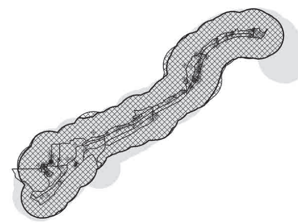
April



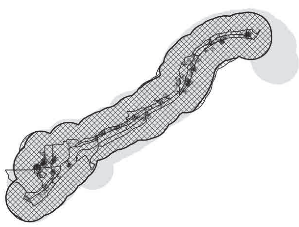
May



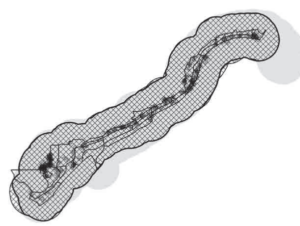
June



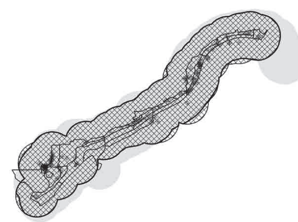
July



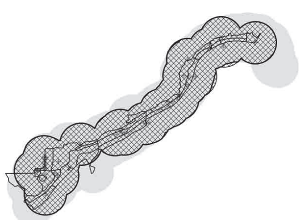
August



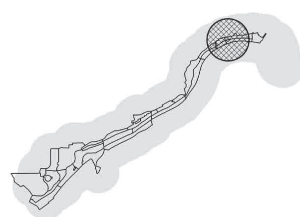
September



October

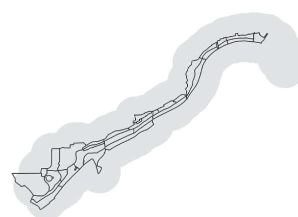


November



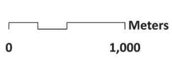
December*

*No bee data collected in Dec.



***Halictus* spp.**

Expected seasonality: **Mar-Oct** Actual seasonality: **Mar-Nov** Estimated forage radius from nest: **182 meters** (0.11 mile)



Map scale units & areas in meters²

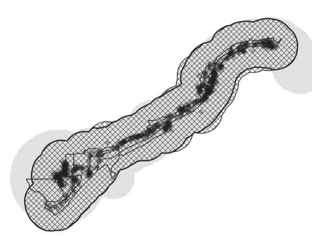
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

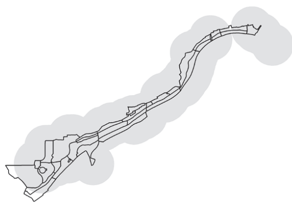
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

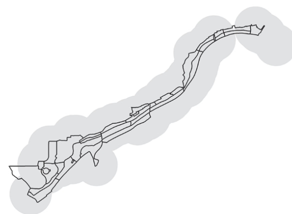
Annual Combination



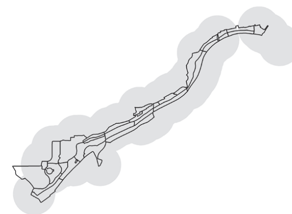
January



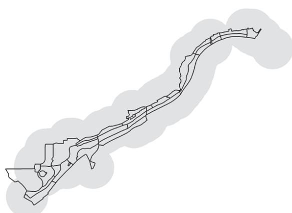
February



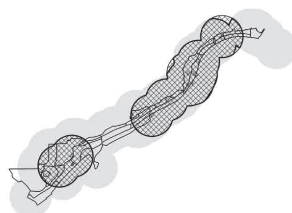
March



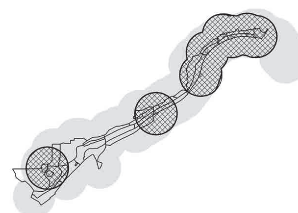
April



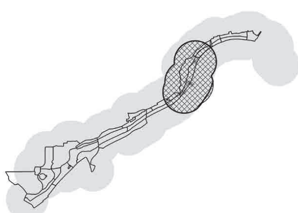
May



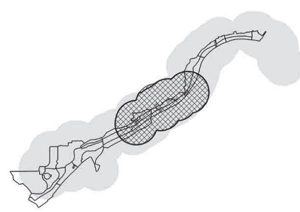
June



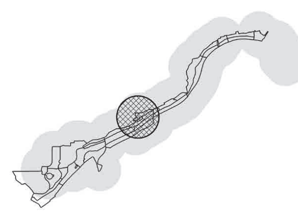
July



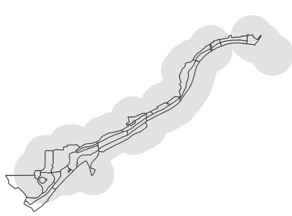
August



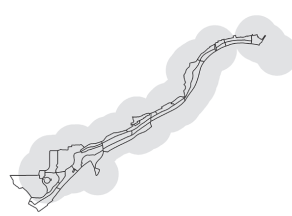
September



October

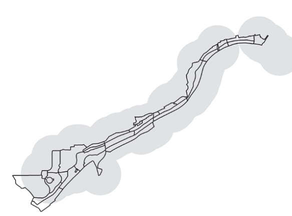


November



December*

*No bee data collected in Dec.



Hoplitis spp.

Expected seasonality: **May-Sept**
Actual seasonality: **May-Sept**
Estimated forage radius from nest:
182 meters (0.11 mile)

Map scale units & areas in meters²

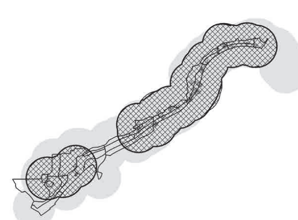
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

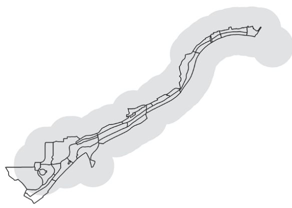
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

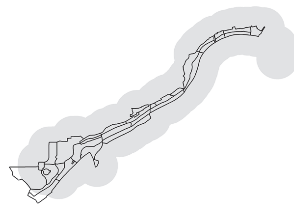
Annual Combination



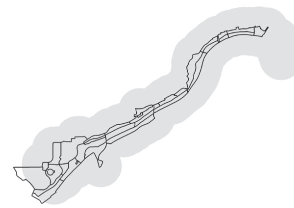
January



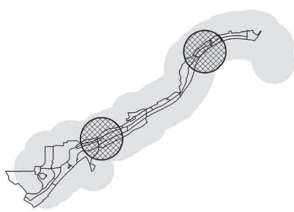
February



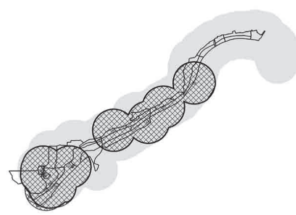
March



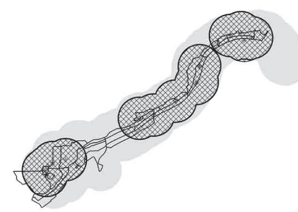
April



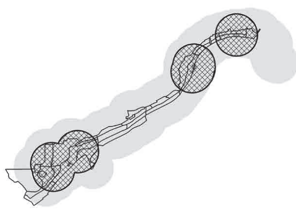
May



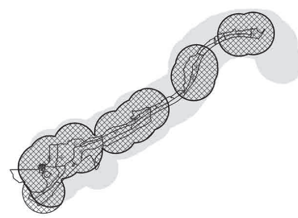
June



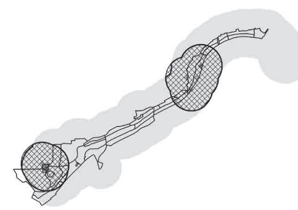
July



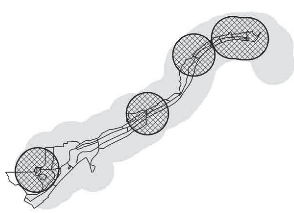
August



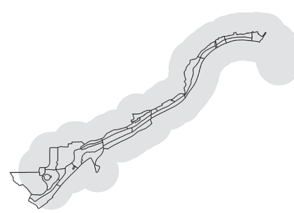
September



October

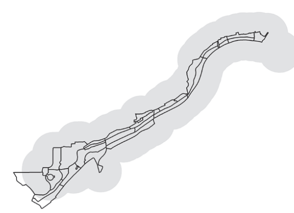


November



December*

*No bee data collected in Dec.



Hylaeus spp.

Expected seasonality: **Mar-Oct**
Actual seasonality: **Apr-Oct**
Estimated forage radius from nest:
182 meters (0.11 mile)

Map scale units & areas in meters²

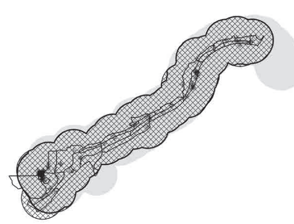
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

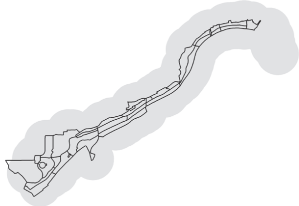
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

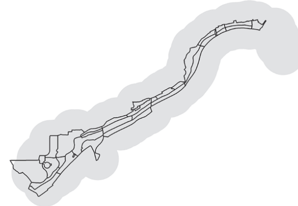
Annual Combination



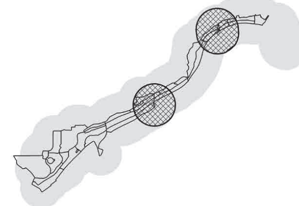
January



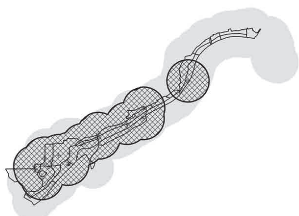
February



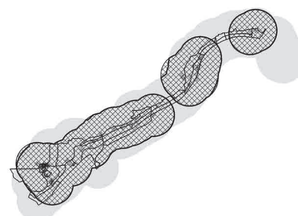
March



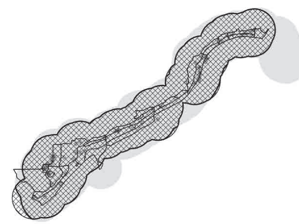
April



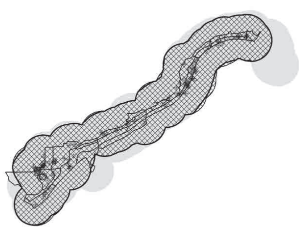
May



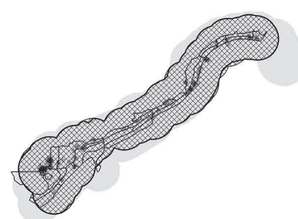
June



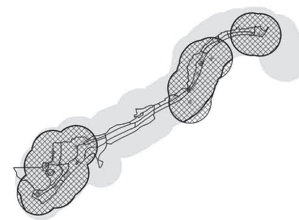
July



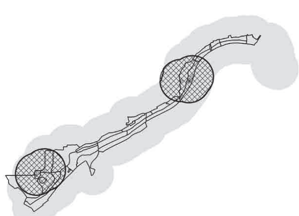
August



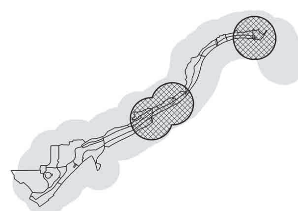
September



October

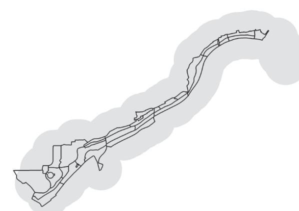


November



December*

*No bee data collected in Dec.



Lasioglossum spp.

Expected seasonality: **Mar-Oct**
Actual seasonality: **Mar-Nov**
Estimated forage radius from nest:
182 meters (0.11 mile)

Meters
0 1,000

Map scale units & areas in meters²

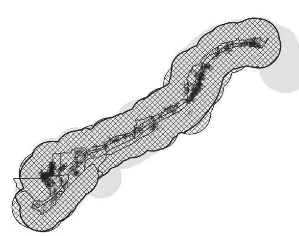
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

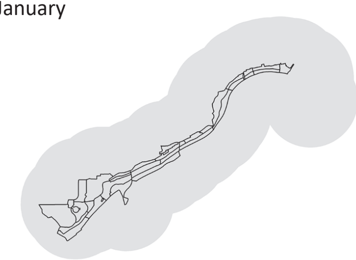
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

Annual Combination



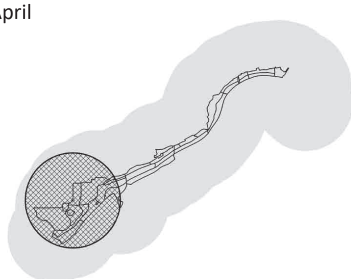
January



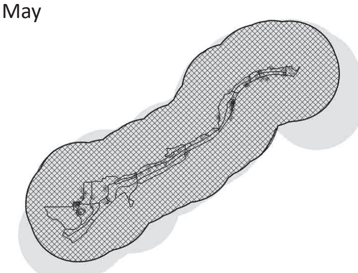
February

March

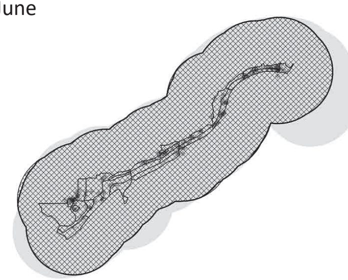
April



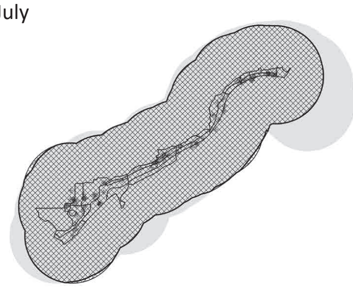
May



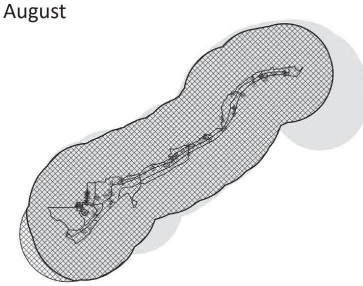
June



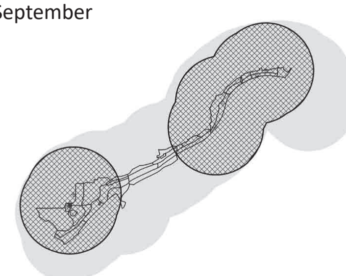
July



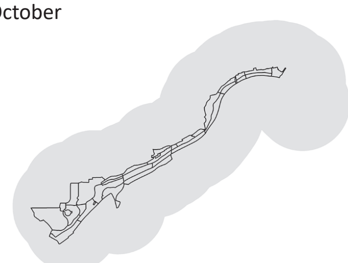
August



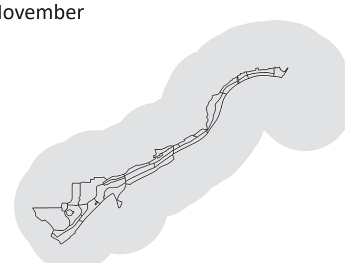
September



October

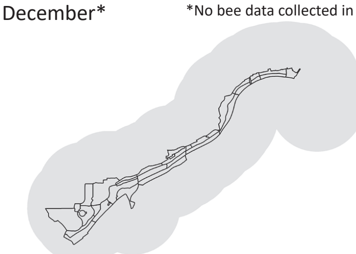


November



December*

*No bee data collected in Dec.



Megachile spp.

Expected seasonality: **May-Sept**
Actual seasonality: **Apr-Sept**
Estimated forage radius from nest:
410.5 meters (0.25 mile)

Map scale units & areas in meters²

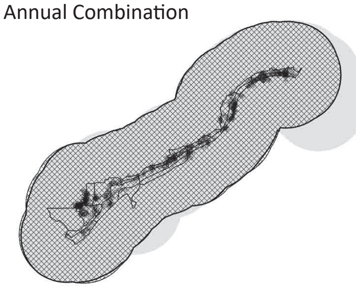
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

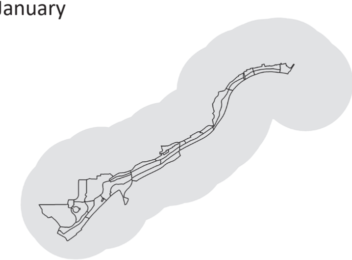
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

Annual Combination

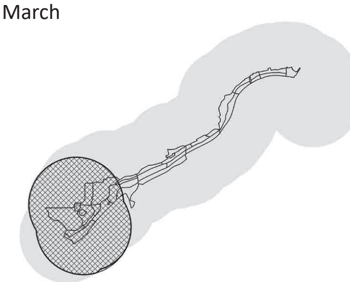


January



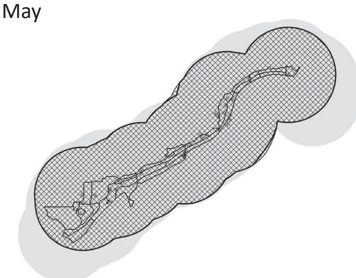
February

March

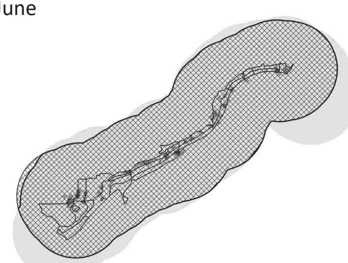


April

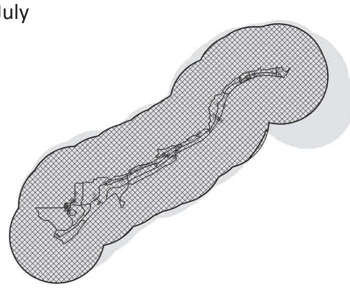
May



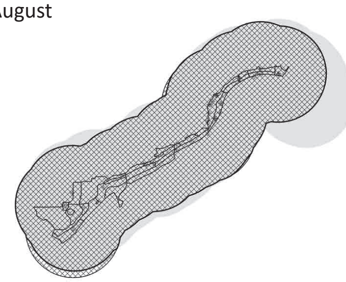
June



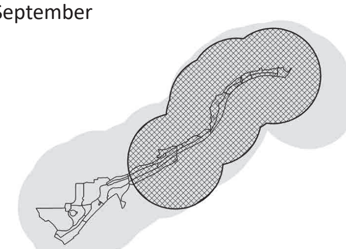
July



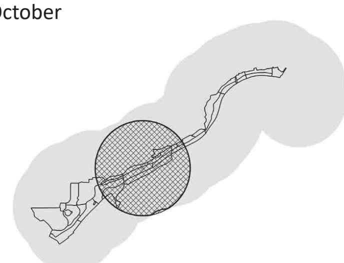
August



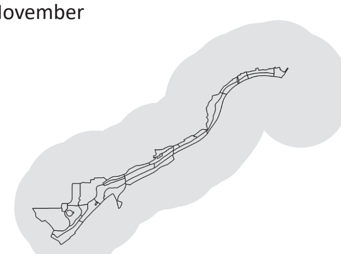
September



October

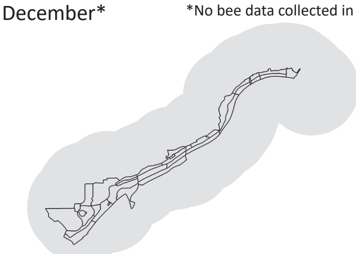


November



December*

*No bee data collected in Dec.



Melissodes spp.

Expected seasonality: **May-Sept**
Actual seasonality: **Mar-Oct**
Estimated forage radius from nest:
410.5 meters (0.25 mile)

Map scale units & areas in meters²

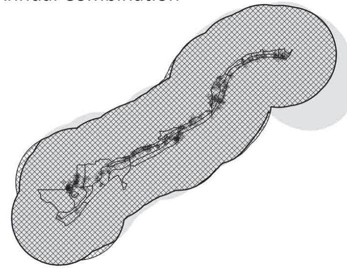
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

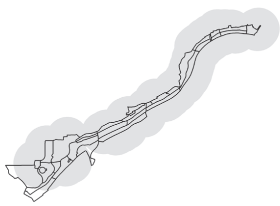
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

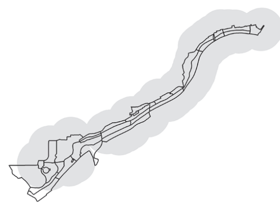
Annual Combination



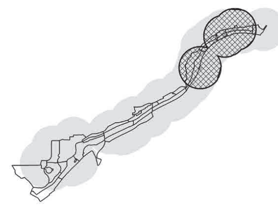
January



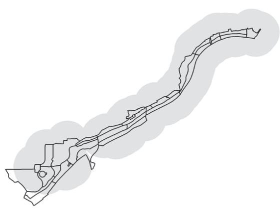
February



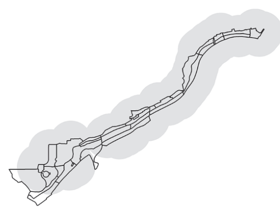
March



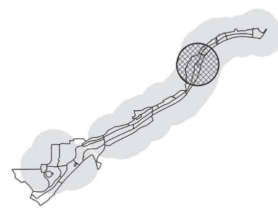
April



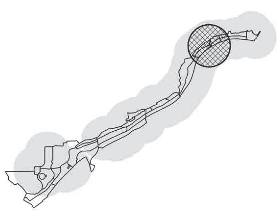
May



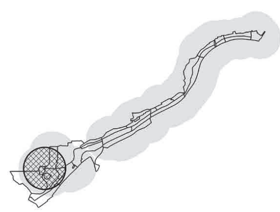
June



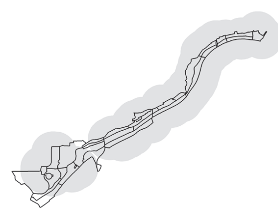
July



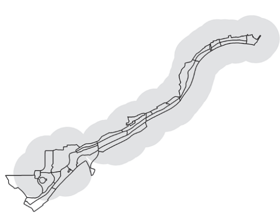
August



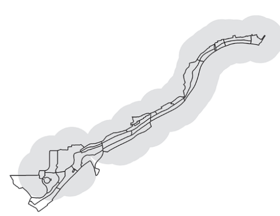
September



October

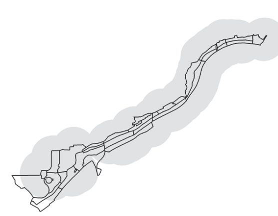


November



December*

*No bee data collected in Dec.



Nomada spp.

Expected seasonality: **Mar-July**
Actual seasonality: **Mar, June-Aug**
Estimated forage radius from nest:
182 meters (0.11 mile)

Meters
0 1,000

Bee genus not expected, no predictive plants

Map scale units & areas in meters²

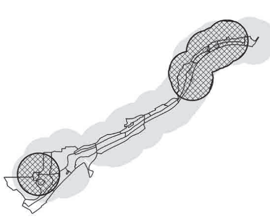
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

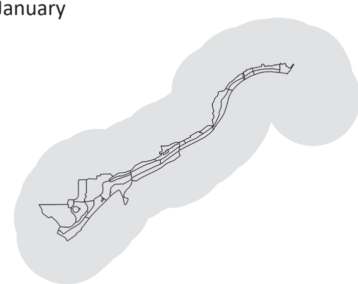
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

Annual Combination



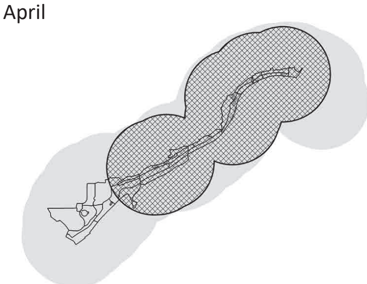
January



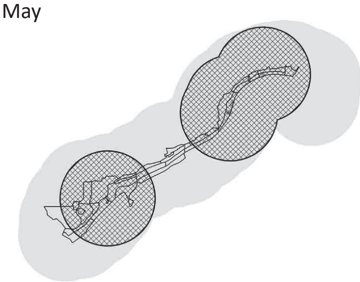
February

March

April



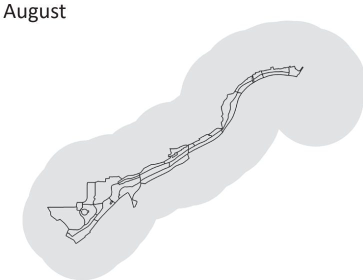
May



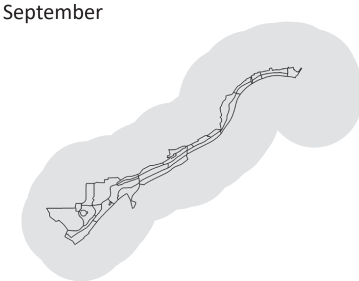
June

July

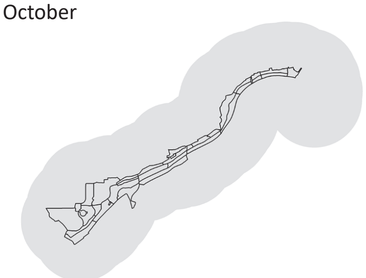
August



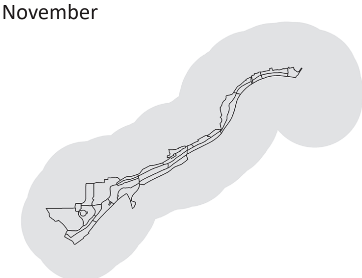
September



October

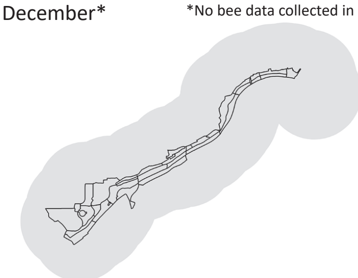


November



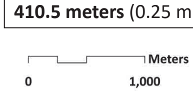
December*

*No bee data collected in Dec.



Osmia spp.

Expected seasonality: **May-June**
Actual seasonality: **Mar-May**
Estimated forage radius from nest:
410.5 meters (0.25 mile)



Map scale units & areas in meters²

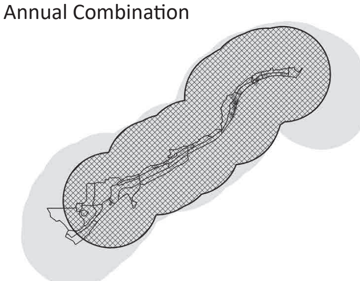
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

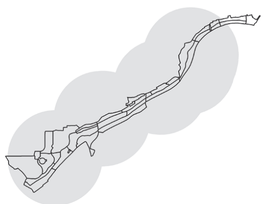
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

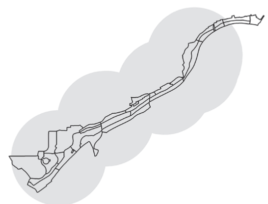
Annual Combination



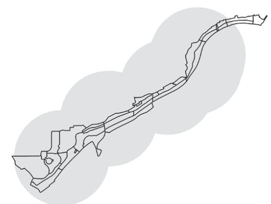
January



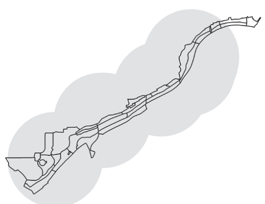
February



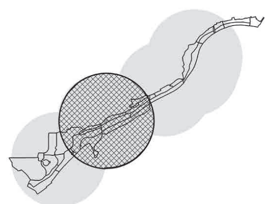
March



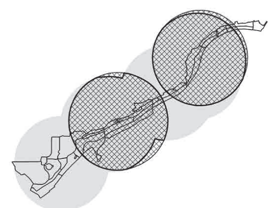
April



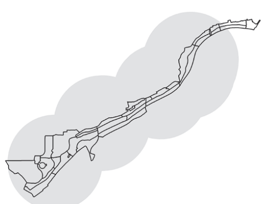
May



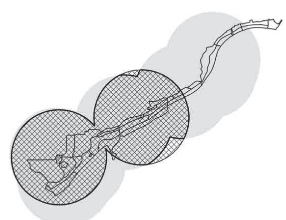
June



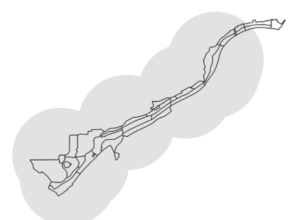
July



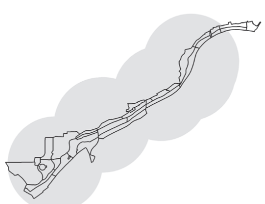
August



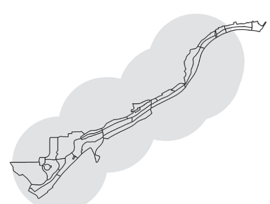
September



October

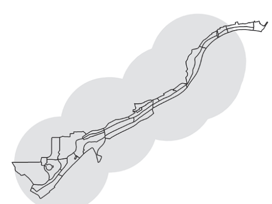


November



December*

*No bee data collected in Dec.



***Peponapis* spp.**

Expected seasonality: **June-Sept** Actual seasonality: **May, June, Aug** Estimated forage radius from nest: **410.5 meters** (0.25 mile)

Map scale units & areas in meters²

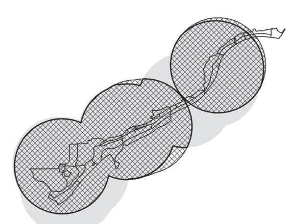
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

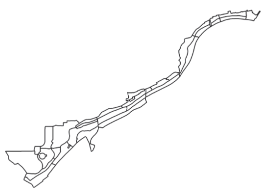
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

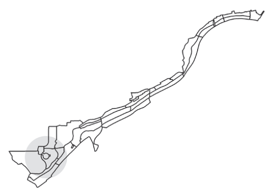
Annual Combination



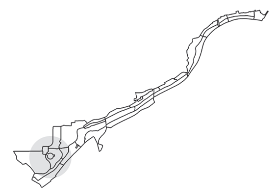
January



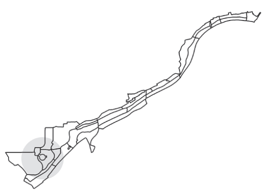
February



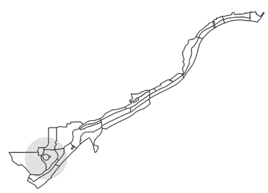
March



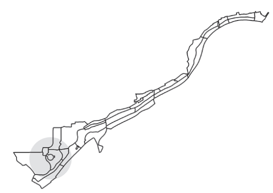
April



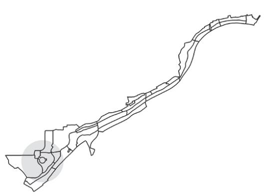
May



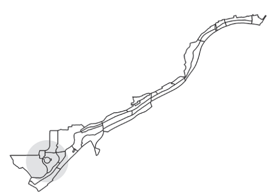
June



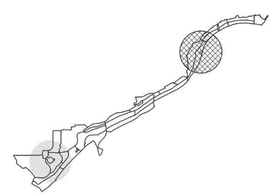
July



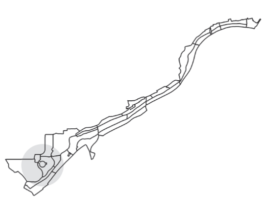
August



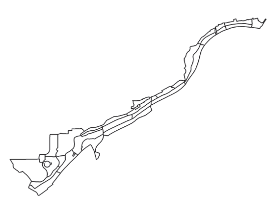
September



October

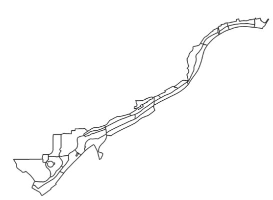


November



December*

*No bee data collected in Dec.



Sphecodes **spp.**

Expected seasonality: **Mar-Sept**
Actual seasonality: **Sept**
Estimated forage radius from nest:
182 meters (0.11 mile)

Bee genus not expected, no predictive plants

Map scale units & areas in meters²

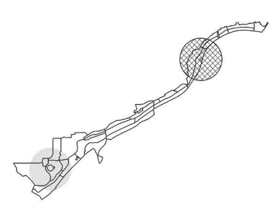
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

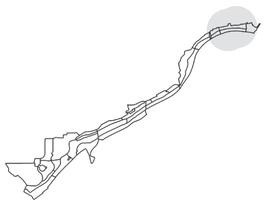
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

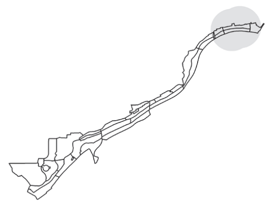
Annual Combination



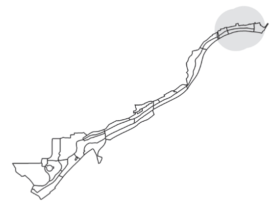
January



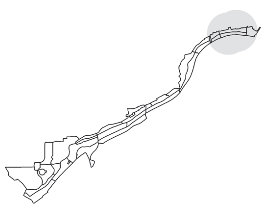
February



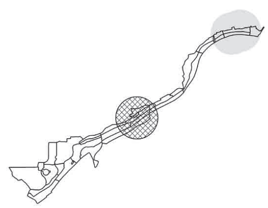
March



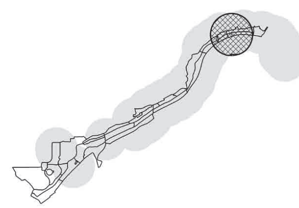
April



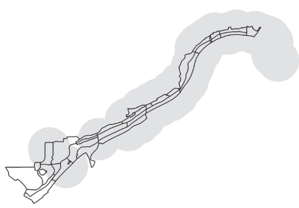
May



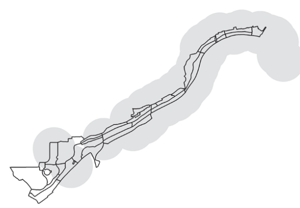
June



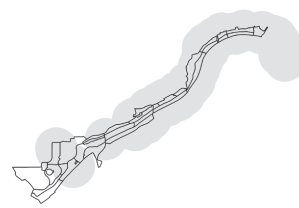
July



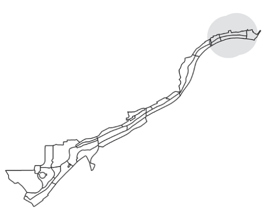
August



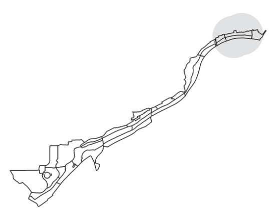
September



October

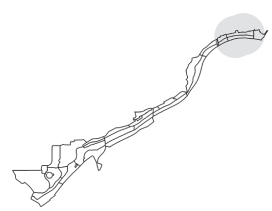


November



December*

*No bee data collected in Dec.



Stelis spp.

Expected seasonality: **Mar-Sept**
Actual seasonality: **May-June**
Estimated forage radius from nest:
182 meters (0.11 mile)

Meters
0 **1,000**

Bee genus not expected, no predictive plants

Map scale units & areas in meters²

N

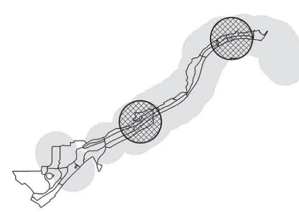
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

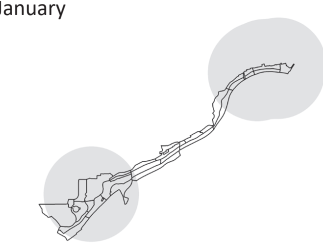
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

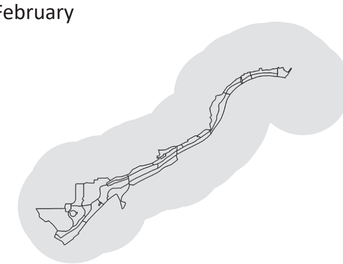
Annual Combination



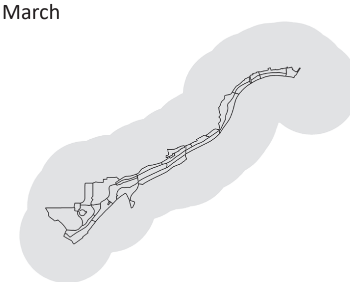
January



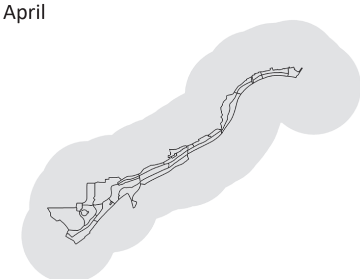
February



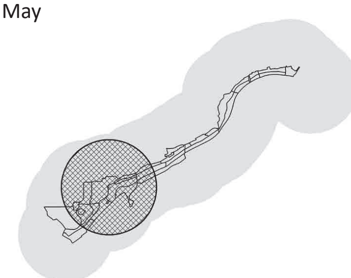
March



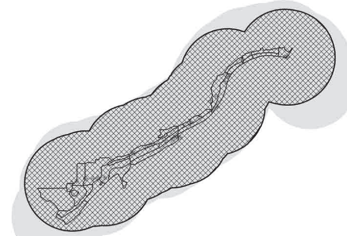
April



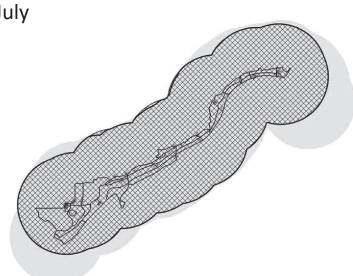
May



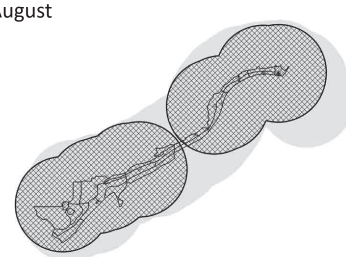
June



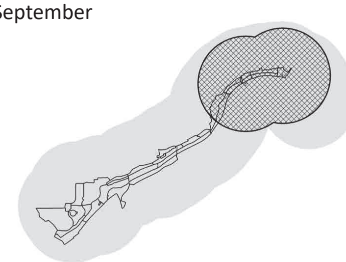
July



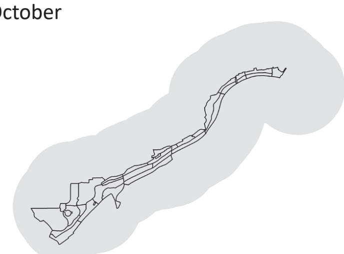
August



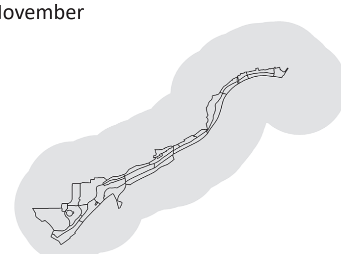
September



October

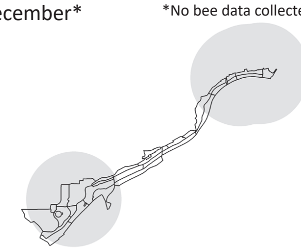


November



December*

*No bee data collected in Dec.



Svastra **spp.**

Expected seasonality: **May-Sept** Actual seasonality: **May-Sept** Estimated forage radius from nest: **410.5 meters** (0.25 mile)

Map scale units & areas in meters²

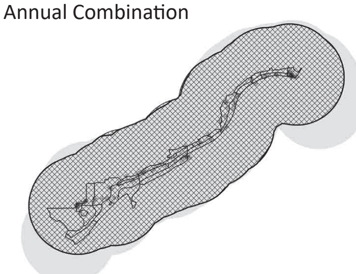
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

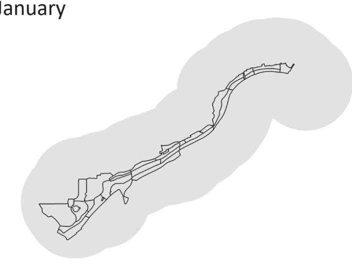
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

Annual Combination

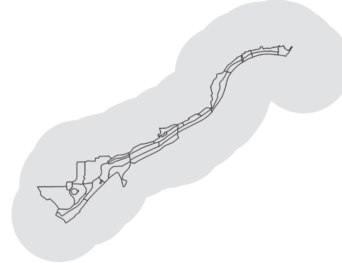


January



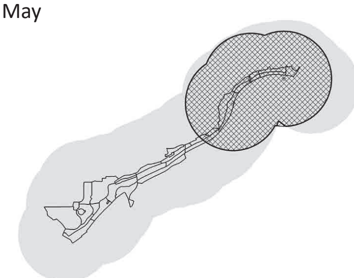
February

March

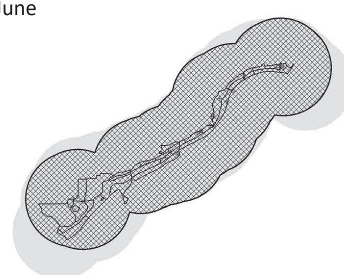


April

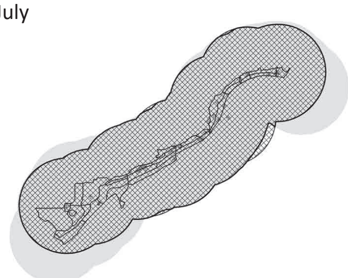
May



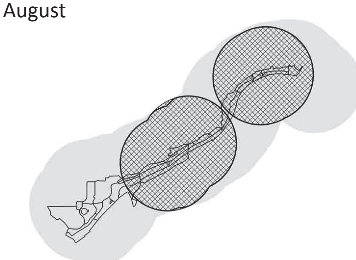
June



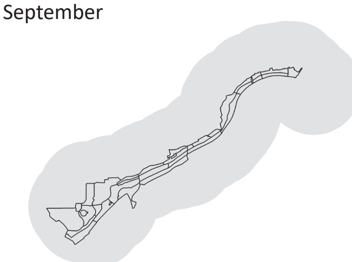
July



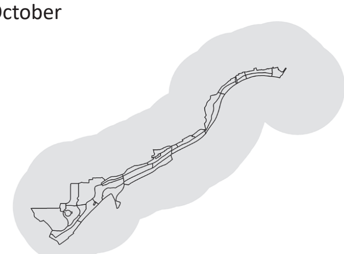
August



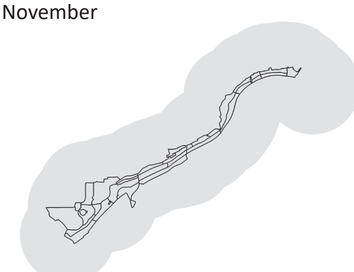
September



October

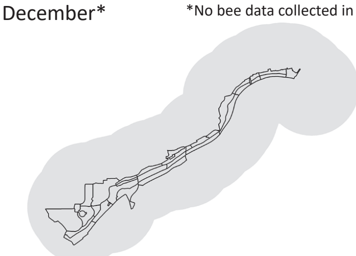


November



December*

*No bee data collected in Dec.



Triepeolus **spp.**

Expected seasonality: **Mar-Aug**
Actual seasonality: **May-Aug**
Estimated forage radius from nest:
410.5 meters (0.25 mile)

Meters
0 1,000

Bee genus not expected, no predictive plants

Map scale units & areas in meters²

N

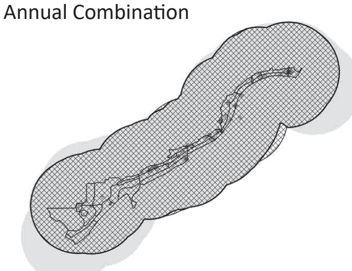
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

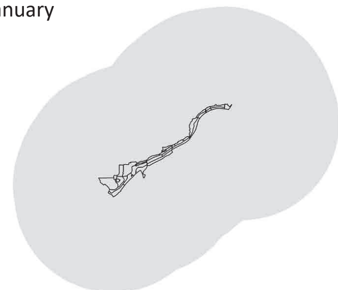
Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

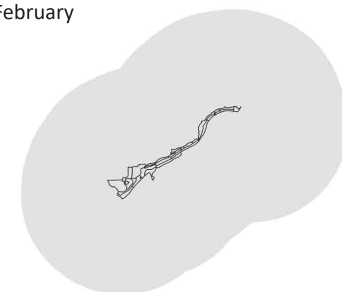
Annual Combination



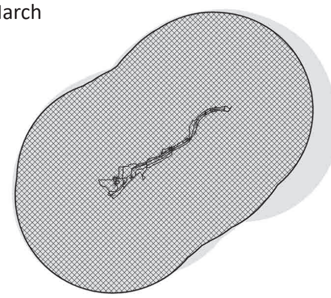
January



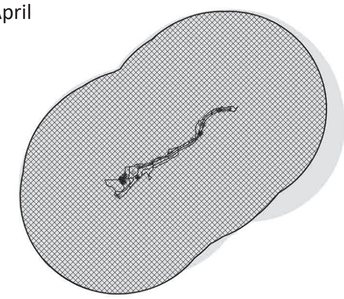
February



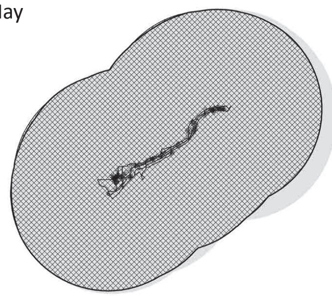
March



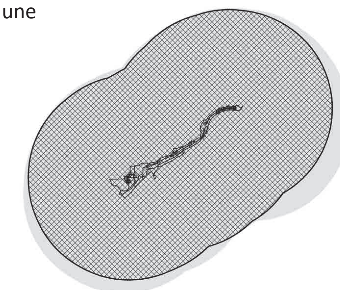
April



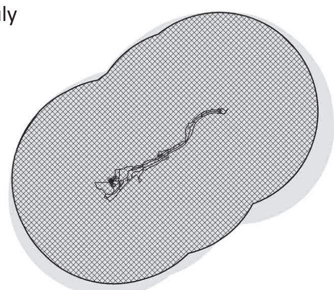
May



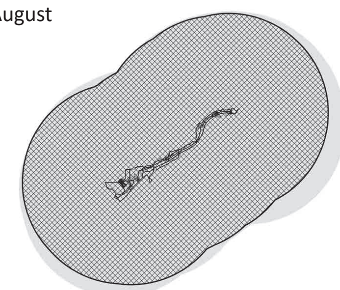
June



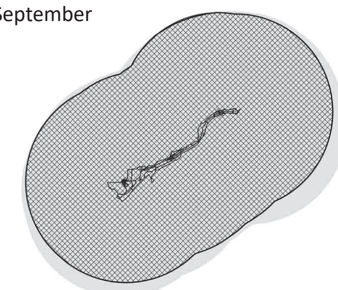
July



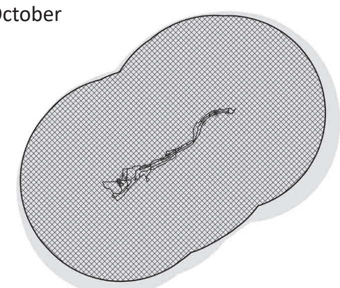
August



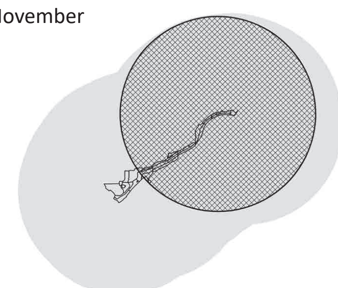
September



October

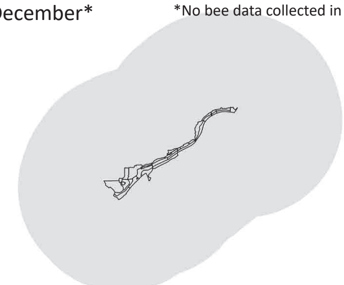


November



December*

*No bee data collected in Dec.



Xylocopa **spp.**

Expected seasonality: **Jan-Dec**
Actual seasonality: **Mar-Nov**
Estimated forage radius from nest:
1609 meters (1 mile)

Meters
0 1,000

Map scale units & areas in meters²

N

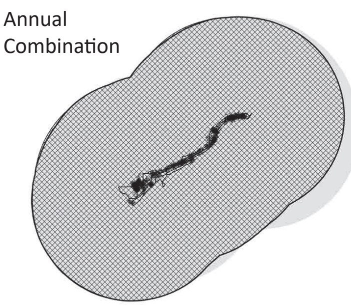
Graphics Legend

Grey Polygon = ***Predicted habitat***, based on location points of association plant genera, regardless of garden, buffered with the estimated foraging radius.

Hatch Polygon = ***Utilized habitat***, based on data points (shown as crosshairs) of bee to plant associations observed, buffered with foraging radius.

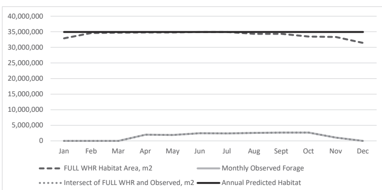
Bold Outline Polygon = ***Overlap area***, denotes where predicted and utilized habitat occur concurrently.

Annual
Combination

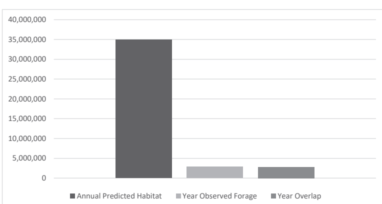


Agapostemon spp.

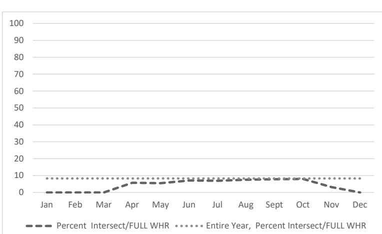
Patterns of Area Over Time



Comparison of Annual 2-D Areas

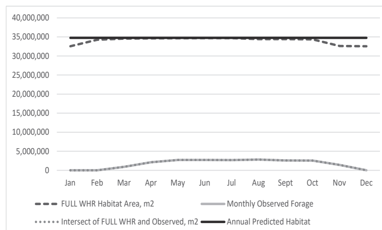


Percent Intersect Overlap Trends

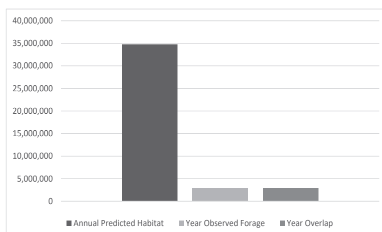


Andrena spp.

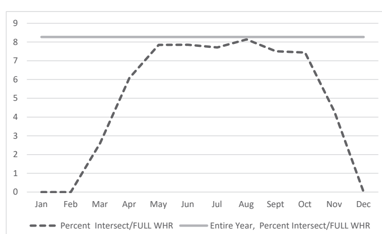
Patterns of Area Over Time



Comparison of Annual 2-D Areas

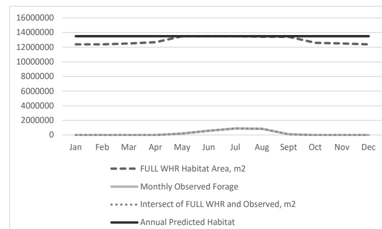


Percent Intersect Overlap Trends

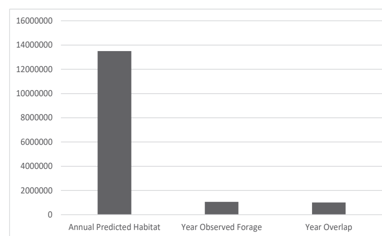


Anthidiellum spp.

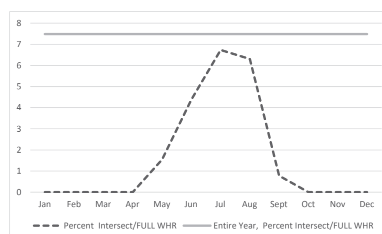
Patterns of Area Over Time



Comparison of Annual 2-D Areas

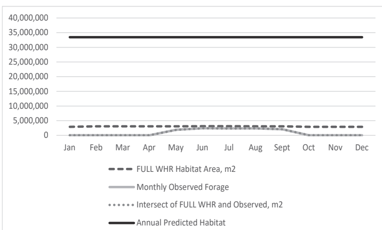


Percent Intersect Overlap Trends

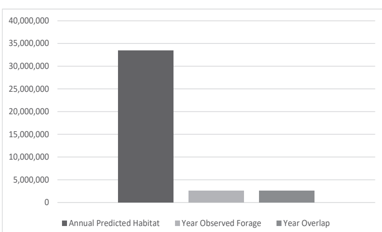


Anthidium spp.

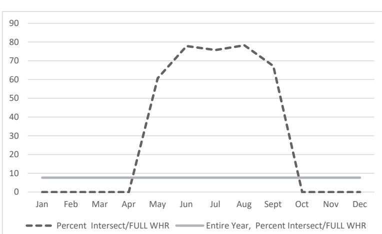
Patterns of Area Over Time



Comparison of Annual 2-D Areas

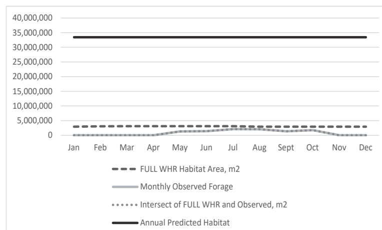


Percent Intersect Overlap Trends

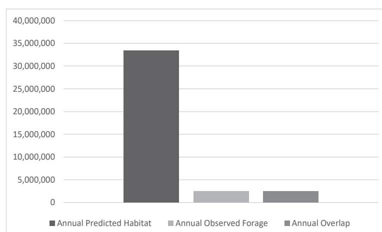


Anthophora spp.

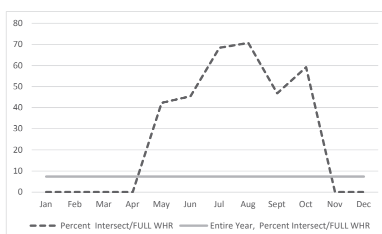
Patterns of Area Over Time



Comparison of Annual 2-D Areas

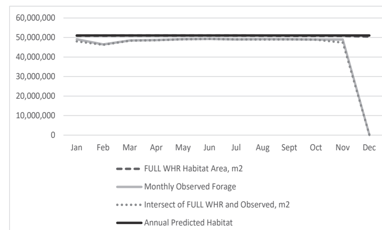


Percent Intersect Overlap Trends

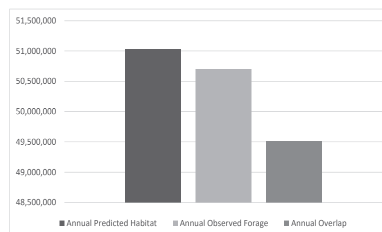


Apis mellifera

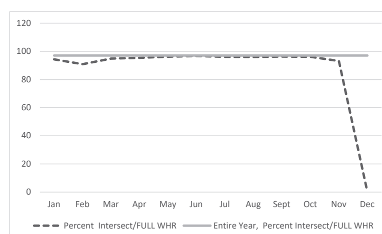
Patterns of Area Over Time



Comparison of Annual 2-D Areas

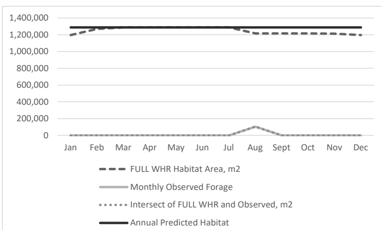


Percent Intersect Overlap Trends

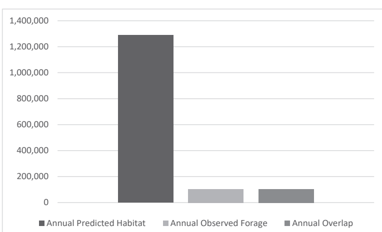


Ashmeadiella spp.

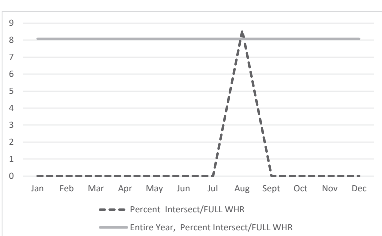
Patterns of Area Over Time



Comparison of Annual 2-D Areas

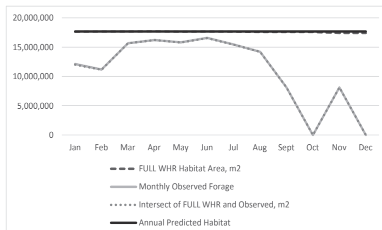


Percent Intersect Overlap Trends

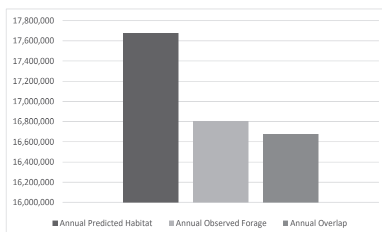


Bombus spp.

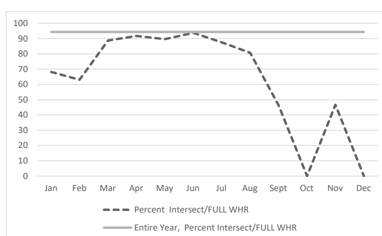
Patterns of Area Over Time



Comparison of Annual 2-D Areas

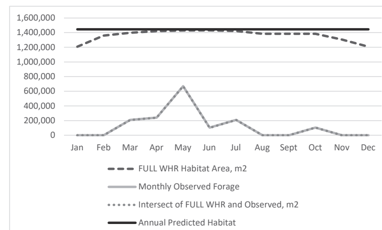


Percent Intersect Overlap Trends

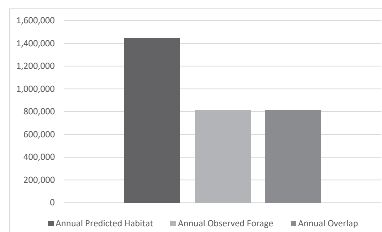


Ceratina spp.

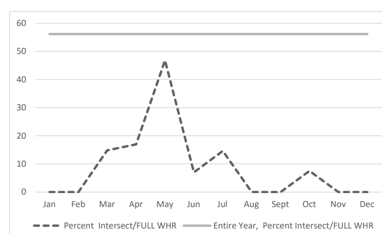
Patterns of Area Over Time



Comparison of Annual 2-D Areas

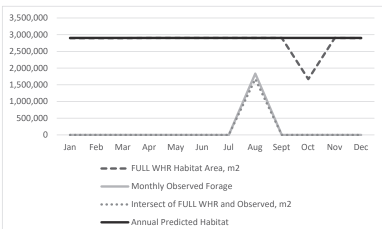


Percent Intersect Overlap Trends

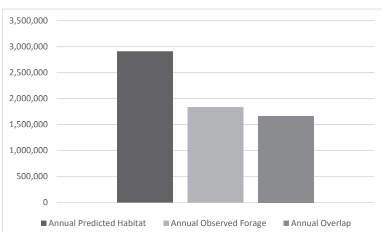


Coelioxys spp.

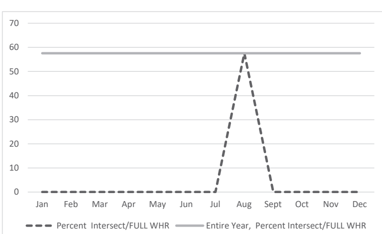
Patterns of Area Over Time



Comparison of Annual 2-D Areas

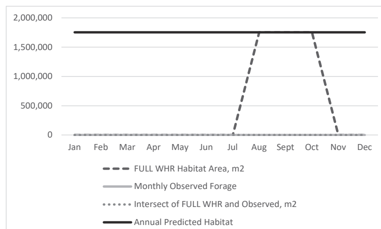


Percent Intersect Overlap Trends

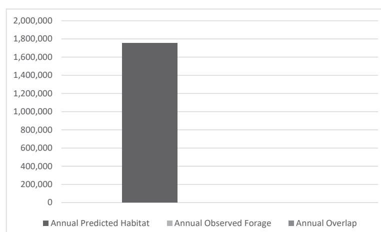


Colletes spp.

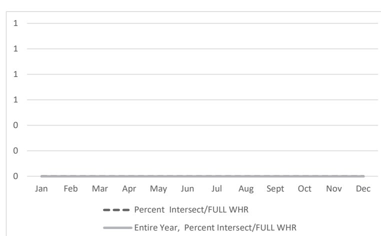
Patterns of Area Over Time



Comparison of Annual 2-D Areas

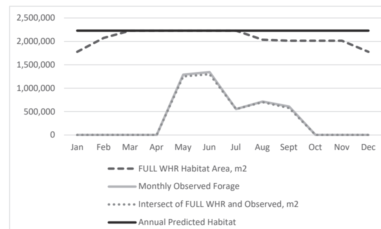


Percent Intersect Overlap Trends

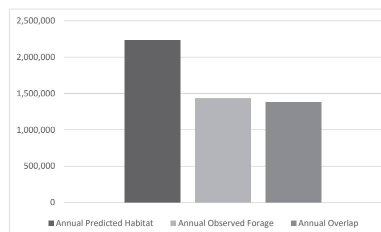


Diadasia spp.

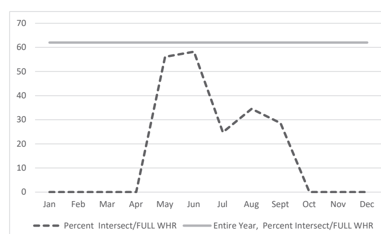
Patterns of Area Over Time



Comparison of Annual 2-D Areas

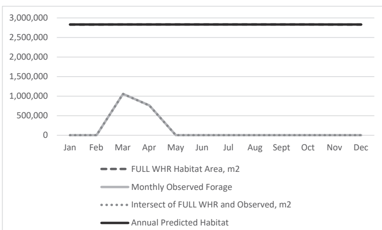


Percent Intersect Overlap Trends

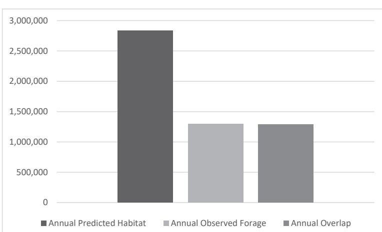


Eucera spp.

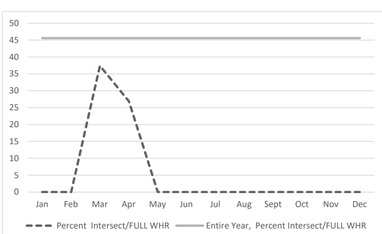
Patterns of Area Over Time



Comparison of Annual 2-D Areas

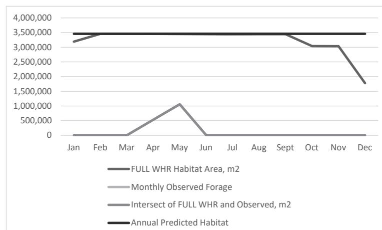


Percent Intersect Overlap Trends

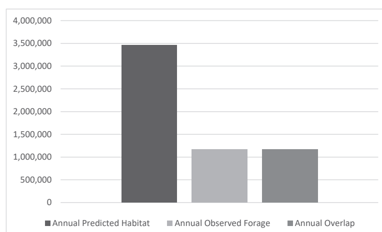


Habropoda spp.

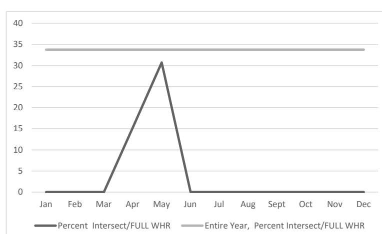
Patterns of Area Over Time



Comparison of Annual 2-D Areas

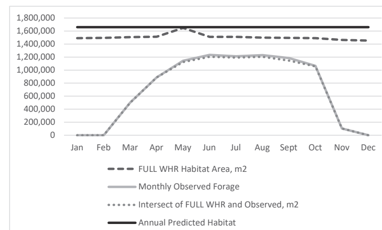


Percent Intersect Overlap Trends

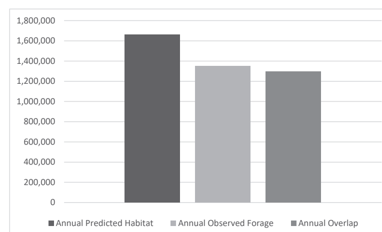


Halictus spp.

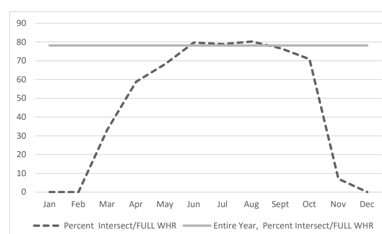
Patterns of Area Over Time



Comparison of Annual 2-D Areas

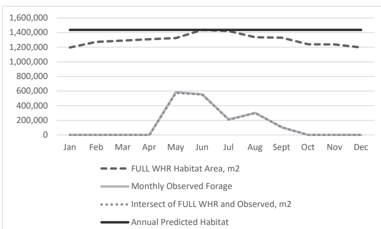


Percent Intersect Overlap Trends

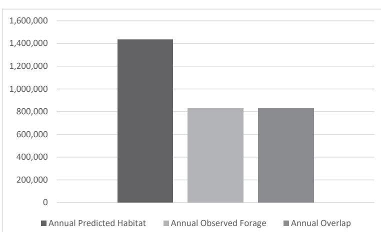


Hoplitis spp.

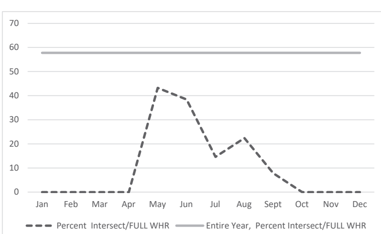
Patterns of Area Over Time



Comparison of Annual 2-D Areas

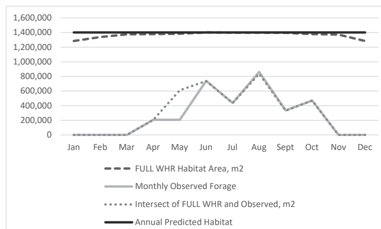


Percent Intersect Overlap Trends

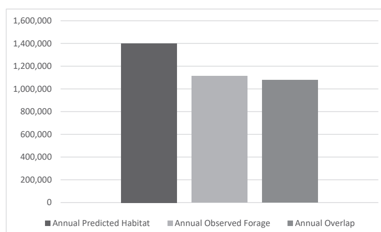


Hylaeus spp.

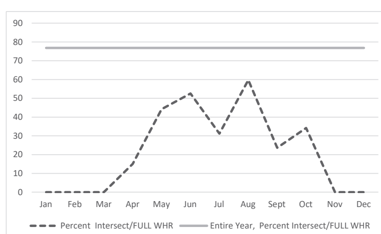
Patterns of Area Over Time



Comparison of Annual 2-D Areas

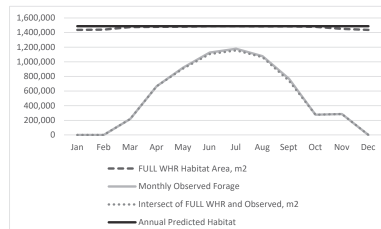


Percent Intersect Overlap Trends

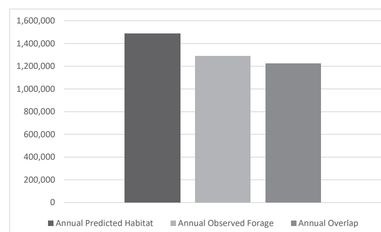


Lasioglossum spp.

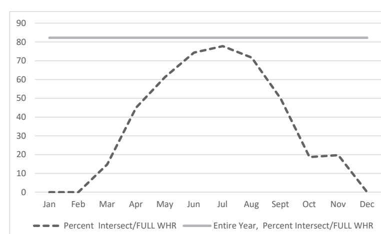
Patterns of Area Over Time



Comparison of Annual 2-D Areas

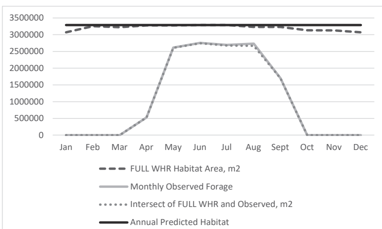


Percent Intersect Overlap Trends

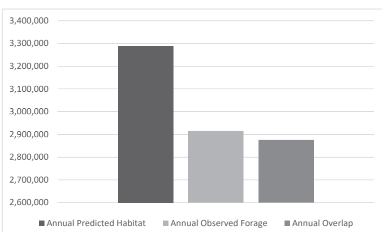


Megachile spp.

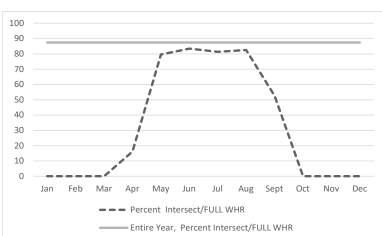
Patterns of Area Over Time



Comparison of Annual 2-D Areas

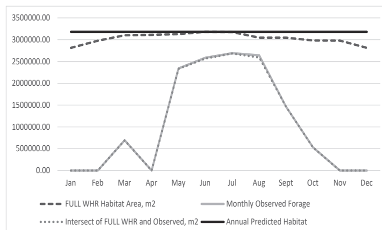


Percent Intersect Overlap Trends

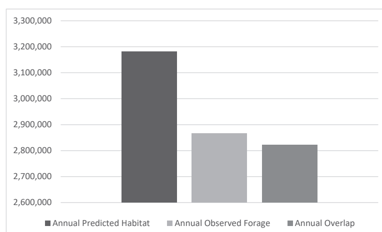


Melissodes spp.

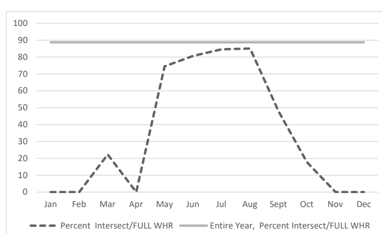
Patterns of Area Over Time



Comparison of Annual 2-D Areas

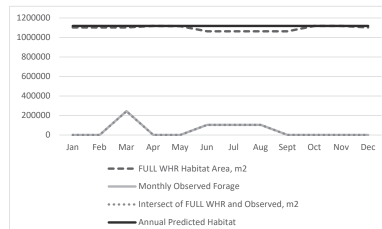


Percent Intersect Overlap Trends

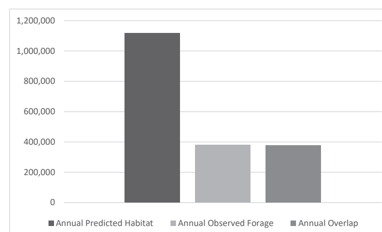


Nomada spp.

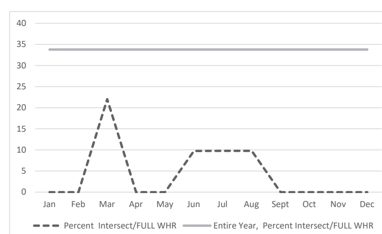
Patterns of Area Over Time



Comparison of Annual 2-D Areas

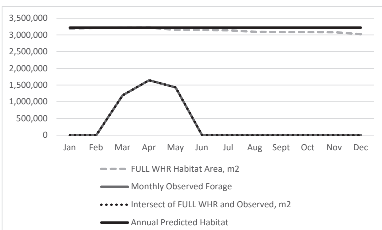


Percent Intersect Overlap Trends

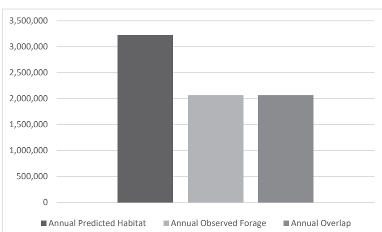


Osmia spp.

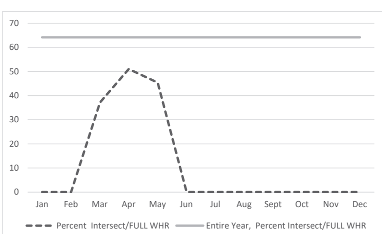
Patterns of Area Over Time



Comparison of Annual 2-D Areas

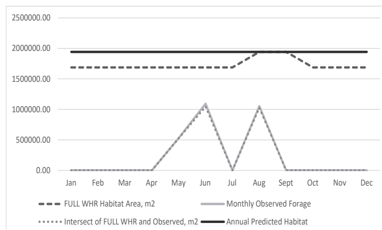


Percent Intersect Overlap Trends

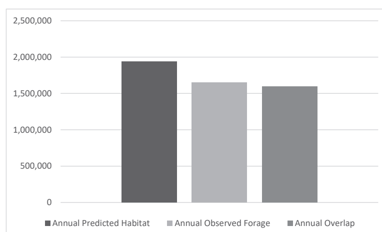


Peponapis spp.

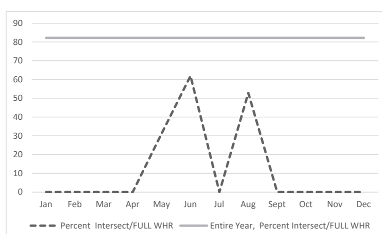
Patterns of Area Over Time



Comparison of Annual 2-D Areas

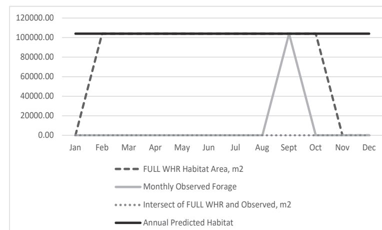


Percent Intersect Overlap Trends

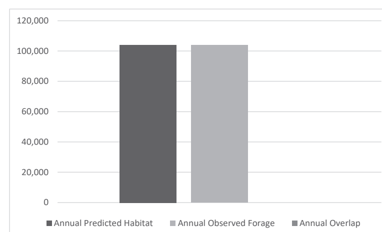


Sphecodes spp.

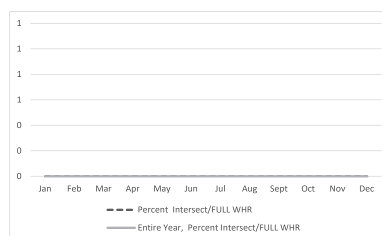
Patterns of Area Over Time



Comparison of Annual 2-D Areas

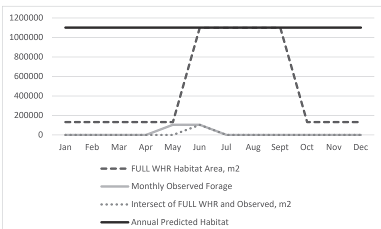


Percent Intersect Overlap Trends

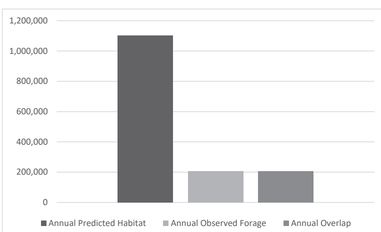


Stelis spp.

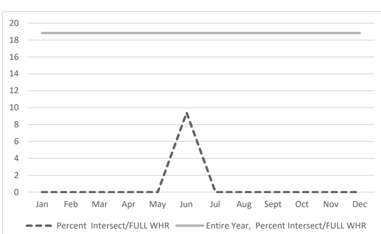
Patterns of Area Over Time



Comparison of Annual 2-D Areas

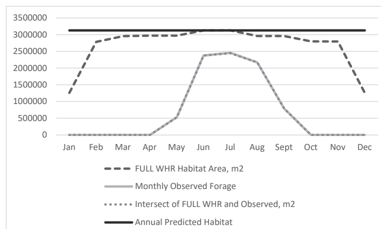


Percent Intersect Overlap Trends

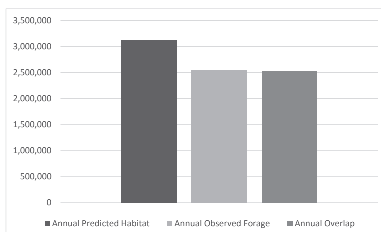


Svastra spp.

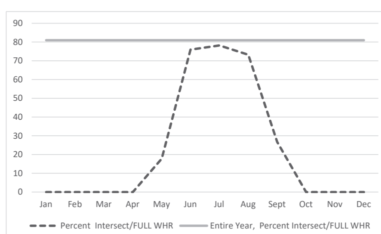
Patterns of Area Over Time



Comparison of Annual 2-D Areas

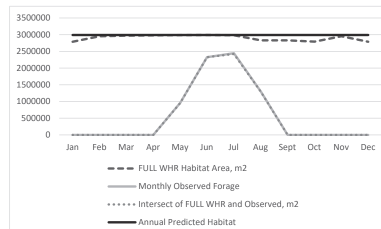


Percent Intersect Overlap Trends

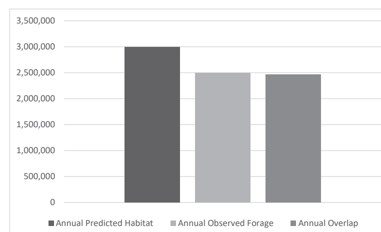


Triepeolus spp.

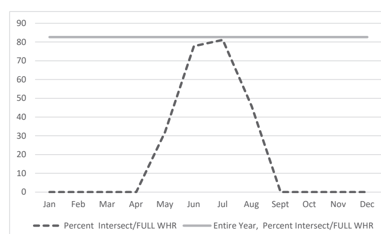
Patterns of Area Over Time



Comparison of Annual 2-D Areas

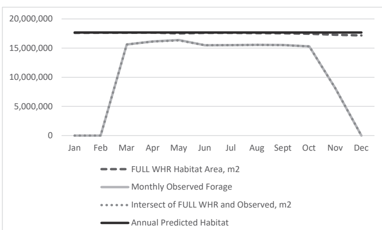


Percent Intersect Overlap Trends

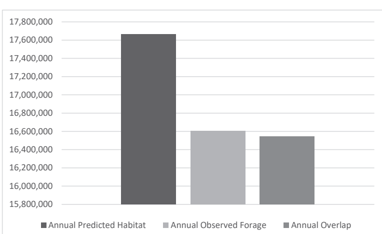


Xylocopa spp.

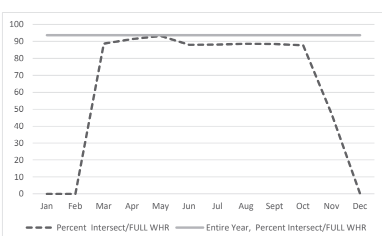
Patterns of Area Over Time



Comparison of Annual 2-D Areas



Percent Intersect Overlap Trends



Appendix 5: Tabular mapping area statistics by bee genera and month. Predicted habitat is based on buffering plants a bee genus' foraging preferences. The buffer radii are based on the maximum foraging distance for each bee genus. Observed forage is based on bee data points from this research, with the forementioned maximum foraging distance buffered to each data point. Each area compared was a merged and dissolved data layer (2-dimensional representation). Three versions of overlap were calculated. Each analysis sheds light into how bee genera are experiencing and utilizing the landscape differently. Bees exhibited variation with their degrees of habitat fragmentation.

Bee Genus	**Mo.**	**PART WHR Predicted Habitat Area, m^2**	**Observed Forage Area, m^2**	**Overlap Predicted & Observed Areas, m^2**	**% Overlap Observed Forage /PART WHR, m^2**	**% Overlap/PART WHR, m^2**	**FULL WHR Habitat Area, m^2**	**Overlap FULL WHR and Observed, m^2**	**% Overlap/ FULL WHR**
Agapostemon	Jan	2,140,216	0	0	0	0	32,910,707	0	0
	Feb	2,494,662	0	0	0	0	34,591,855	0	0
	Mar	2,586,097	0	0	0	0	34,733,777	0	0
	Apr	2,754,079	2,000,701	1,914,546	73	70	34,793,885	2,000,858	6
	May	2,754,079	1,906,185	1,864,412	69	68	34,803,079	1,906,185	5
	Jun	2,754,279	2,471,015	2,457,492	90	89	34,928,861	2,471,015	7
	Jul	2,754,279	2,405,515	2,393,173	87	87	34,928,834	2,405,515	7
	Aug	2,754,279	2,579,912	2,553,636	94	93	34,320,426	2,579,912	8
	Sept	2,754,279	2,680,160	2,542,539	97	92	34,314,340	2,680,160	8
	Oct	2,754,079	2,668,336	2,492,117	97	90	33,459,461	2,668,336	8
	Nov	2,722,150	1,058,356	1,054,725	39	39	33,342,705	1,058,356	3
	Dec	2,139,730	0	0	0	0	31,438,755	0	0
	ANNUAL	2,754,279	2,881,256	2,638,130	105	96	34,933,109	2,839,306	8
Andrena	Jan	2,820,731	0	0	0	0	32,553,454	0	0
	Feb	2,997,655	0	0	0	0	34,244,860	0	0
	Mar	2,997,657	898,670	898,670	30	30	34,539,170	898,670	3
	Apr	3,036,572	2,104,987	2,101,668	69	69	34,630,021	2,104,987	6
	May	3,036,572	2,718,721	2,693,847	90	89	34,640,966	2,718,721	8
	Jun	3,148,792	2,725,288	2,705,914	87	86	34,688,183	2,725,288	8
	Jul	3,148,792	2,675,362	2,652,342	85	84	34,688,156	2,675,362	8
	Aug	3,007,661	2,802,075	2,600,517	93	86	34,430,752	2,802,075	8
	Sept	2,957,664	2,585,060	2,556,988	87	86	34,430,752	2,585,060	8
	Oct	2,957,580	2,553,979	2,445,807	86	83	34,341,440	2,553,979	7
	Nov	2,820,731	1,400,942	1,394,104	50	49	32,604,487	1,400,942	4
	Dec	2,820,731	0	0	0	0	32,553,454	0	0
	ANNUAL	3,148,792	2,921,768	2,818,990	93	90	34,739,664	2,871,871	8
Anthidellum	Jan	0	0	0	0	0	12,397,195	0	0
	Feb	0	0	0	0	0	12,397,195	0	0
	Mar	0	0	0	0	0	12,509,008	0	0
	Apr	0	0	0	0	0	12,683,049	0	0
	May	0	207,956	0	0	0	13,504,184	207,956	2
	Jun	0	591,916	0	0	0	13,504,184	591,916	4
	Jul	0	909,146	0	0	0	13,504,184	909,146	7
	Aug	0	847,275	0	0	0	13,443,455	847,275	6
	Sept	0	103,978	0	0	0	13,425,785	103,978	1
	Oct	0	0	0	0	0	12,598,665	0	0

	Nov	0	0	0	0	0	12,516,320	0	0
	Dec	0	0	0	0	0	12,397,195	0	0
	ANNUAL	0	1,065,070	0	0	0	13,504,182	1,010,920	7
Anthidium	Jan	2,871,330	0	0	0	0	2,901,589	0	0
	Feb	2,871,330	0	0	0	0	3,063,294	0	0
	Mar	2,873,362	0	0	0	0	3,065,774	0	0
	Apr	2,873,462	0	0	0	0	3,071,066	0	0
	May	2,873,462	1,887,752	1,869,068	66	65	3,082,849	1,871,334	61
	Jun	2,873,462	2,420,423	2,413,188	84	84	3,106,262	2,418,530	78
	Jul	2,873,462	2,353,918	2,340,899	82	81	3,105,369	2,351,722	76
	Aug	2,873,362	2,393,986	2,373,331	83	83	3,051,746	2,387,298	78
	Sept	2,873,362	2,052,141	2,045,966	71	71	3,051,746	2,051,643	67
	Oct	2,873,362	0	0	0	0	2,910,341	0	0
	Nov	2,871,330	0	0	0	0	2,907,073	0	0
	Dec	2,871,330	0	0	0	0	2,901,589	0	0
	ANNUAL	2,873,462	2,591,873	2,546,605	90	89	33,435,391	2,568,137	8
Anthophora	Jan	2,841,562	0	0	0	0	2,913,427	0	0
	Feb	2,841,812	0	0	0	0	3,075,224	0	0
	Mar	2,849,845	0	0	0	0	3,083,009	0	0
	Apr	2,857,152	0	0	0	0	3,096,001	0	0
	May	2,857,619	1,313,060	1,309,417	46	46	3,106,986	1,313,060	42
	Jun	2,857,659	1,410,525	1,407,909	49	49	3,106,986	1,410,525	45
	Jul	2,857,659	2,120,068	2,117,706	74	74	3,096,001	2,117,794	68
	Aug	2,857,659	2,074,829	2,074,019	73	73	2,934,779	2,074,019	71
	Sept	2,857,659	1,373,911	1,373,231	48	48	2,934,779	1,373,281	47
	Oct	2,857,369	1,735,482	1,735,348	61	61	2,934,529	1,735,398	59
	Nov	2,856,755	0	0	0	0	2,934,226	0	0
	Dec	2,841,562	0	0	0	0	2,913,427	0	0
	ANNUAL	2,857,659	2,475,350	2,468,291	87	86	33,443,188	2,472,036	7
Apis	Jan	50,416,785	49,100,213	47,985,086	97	95	50,902,454	48,021,654	94
	Feb	50,422,924	46,447,492	46,277,098	92	92	50,944,160	46,281,654	91
	Mar	50,424,469	48,504,108	48,034,167	96	95	50,962,644	48,366,746	95
	Apr	50,449,276	48,663,111	48,270,228	96	96	50,965,093	48,647,727	95
	May	50,456,192	49,173,378	48,712,120	97	97	50,979,416	49,059,149	96
	Jun	50,462,704	49,301,898	48,809,532	98	97	50,968,318	49,258,425	97
	Jul	50,462,704	49,044,234	48,577,425	97	96	50,966,858	48,997,300	96
	Aug	50,458,856	49,125,063	48,609,418	97	96	50,941,556	48,920,876	96
	Sept	50,447,619	49,071,459	48,655,056	97	96	50,875,732	49,008,319	96
	Oct	50,427,198	48,950,796	48,587,904	97	96	50,874,223	48,907,404	96
	Nov	50,417,834	48,950,796	47,375,710	97	94	50,871,492	47,383,139	93
	Dec	50,410,814	0	0	0	0	50,482,633	0	0
	ANNUAL	50,467,250	50,705,927	49,022,633	100	97	51,027,932	49,509,288	97
Ashmeadiella	Jan	669,745	0	0	0	0	1,196,219	0	0
	Feb	959,636	0	0	0	0	1,269,801	0	0
	Mar	1,062,921	0	0	0	0	1,288,028	0	0
	Apr	1,062,921	0	0	0	0	1,288,028	0	0
	May	1,062,921	0	0	0	0	1,288,028	0	0
	Jun	1,062,921	0	0	0	0	1,288,028	0	0
	Jul	1,062,921	0	0	0	0	1,288,028	0	0
	Aug	981,517	103,978	103,978	11	11	1,215,642	103,978	9
	Sept	981,517	0	0	0	0	1,215,642	0	0
	Oct	981,476	0	0	0	0	1,215,642	0	0
	Nov	796,808	0	0	0	0	1,212,929	0	0

	Dec	669,745	0	0	0	0	1,196,219	0	0
	ANNUAL	1,062,921	103,978	103,978	10	10	1,288,028	103,978	8
Bombus	Jan	17,296,455	12,128,486	11,998,431	70	69	17,633,998	12,022,890	68
	Feb	17,316,306	11,184,163	11,124,794	65	64	17,656,064	11,138,472	63
	Mar	17,318,257	15,668,909	15,649,584	90	90	17,660,763	15,662,535	89
	Apr	17,327,341	16,213,386	16,016,754	94	92	17,669,817	16,205,339	92
	May	17,336,634	15,807,815	15,802,774	91	91	17,642,671	15,806,411	90
	Jun	17,342,122	16,575,572	16,414,838	96	95	17,645,109	16,544,050	94
	Jul	17,342,122	15,447,278	15,437,122	89	89	17,624,336	15,431,883	88
	Aug	17,328,885	14,202,365	14,202,365	82	82	17,594,361	14,202,365	81
	Sept	17,322,392	8,125,955	8,125,955	47	47	17,587,868	8,125,955	46
	Oct	17,320,480	0	0	0	0	17,584,454	0	0
	Nov	17,301,894	8,125,947	8,125,170	47	47	17,419,680	8,125,947	47
	Dec	17,296,455	0	0	0	0	17,414,331	0	0
	ANNUAL	17,342,122	16,810,499	16,465,161	97	95	17,677,408	16,677,012	94
Ceratina	Jan	1,127,309	0	0	0	0	1,207,682	0	0
	Feb	1,127,309	0	0	0	0	1,359,243	0	0
	Mar	1,147,260	207,956	206,891	18	18	1,398,209	207,292	15
	Apr	1,147,260	240,527	167,165	21	15	1,420,059	240,527	17
	May	1,149,257	668,766	658,657	58	57	1,428,504	668,334	47
	Jun	1,148,261	103,978	100,421	9	9	1,430,320	100,612	7
	Jul	1,148,261	207,956	207,956	18	18	1,422,009	207,956	15
	Aug	1,148,261	0	0	0	0	1,384,686	0	0
	Sept	1,148,261	0	0	0	0	1,384,405	0	0
	Oct	1,149,257	103,978	103,978	9	9	1,383,450	103,978	8
	Nov	1,146,264	0	0	0	0	1,305,620	0	0
	Dec	1,127,309	0	0	0	0	1,207,682	0	0
	ANNUAL	1,149,257	812,041	724,592	71	63	1,444,929	811,656	56
Coelioxys	Jan	1,040,001	0	0	0	0	2,891,910	0	0
	Feb	1,040,001	0	0	0	0	2,891,910	0	0
	Mar	1,494,535	0	0	0	0	2,891,910	0	0
	Apr	1,494,535	0	0	0	0	2,900,834	0	0
	May	1,494,535	0	0	0	0	2,900,834	0	0
	Jun	1,573,677	0	0	0	0	2,900,906	0	0
	Jul	1,573,677	0	0	0	0	2,900,906	0	0
	Aug	1,573,677	1,832,136	1,153,268	116	73	2,900,906	1,670,528	58
	Sept	1,573,677	0	0	0	0	2,900,906	0	0
	Oct	1,040,001	0	0	0	0	1,670,528	0	0
	Nov	1,040,001	0	0	0	0	2,900,834	0	0
	Dec	1,040,001	0	0	0	0	2,891,910	0	0
	ANNUAL	1,773,261	1,832,136	1,153,268	103	65	2,900,906	1,670,528	58
Colletes	Jan	0	0	0	0	0	0	0	0
	Feb	0	0	0	0	0	0	0	0
	Mar	0	0	0	0	0	0	0	0
	Apr	0	0	0	0	0	0	0	0
	May	0	0	0	0	0	0	0	0
	Jun	0	0	0	0	0	0	0	0
	Jul	0	0	0	0	0	0	0	0
	Aug	1,753,119	0	0	0	0	1,753,119	0	0
	Sept	1,753,119	0	0	0	0	1,753,119	0	0
	Oct	1,753,119	0	0	0	0	1,753,119	0	0
	Nov	0	0	0	0	0	0	0	0
	Dec	0	0	0	0	0	0	0	0

	ANNUAL	1,753,119	0	0	0	0	1,753,119	0	0
Diadasia	Jan	1,061,684	0	0	0	0	1,777,551	0	0
	Feb	1,801,196	0	0	0	0	2,075,061	0	0
	Mar	1,841,996	0	0	0	0	2,229,388	0	0
	Apr	1,841,996	0	0	0	0	2,229,578	0	0
	May	1,841,996	1,289,918	1,227,390	70	67	2,229,578	1,250,318	56
	Jun	1,841,996	1,343,279	1,284,623	73	70	2,229,578	1,298,241	58
	Jul	1,841,996	554,917	551,913	30	30	2,229,578	552,876	25
	Aug	1,841,996	714,126	700,816	39	38	2,034,694	701,916	34
	Sept	1,061,684	608,305	410,414	57	39	2,015,197	576,773	29
	Oct	0	0	0	0	0	2,012,888	0	0
	Nov	0	0	0	0	0	2,012,888	0	0
	Dec	1,061,684	0	0	0	0	1,777,551	0	0
	ANNUAL	1,841,996	1,430,952	1,356,874	78	74	2,229,578	1,382,534	62
Eucera	Jan	1,976,589	0	0	0	0	2,828,193	0	0
	Feb	1,976,589	0	0	0	0	2,828,193	0	0
	Mar	2,091,065	1,058,357	1,025,222	51	49	2,831,366	1,058,201	37
	Apr	2,091,065	763,944	758,119	37	36	2,831,366	761,260	27
	May	2,138,193	0	0	0	0	2,831,581	0	0
	Jun	2,138,193	0	0	0	0	2,831,581	0	0
	Jul	2,032,923	0	0	0	0	2,831,581	0	0
	Aug	2,032,923	0	0	0	0	2,831,581	0	0
	Sept	2,032,923	0	0	0	0	2,831,581	0	0
	Oct	2,032,923	0	0	0	0	2,831,514	0	0
	Nov	1,976,589	0	0	0	0	2,830,252	0	0
	Dec	1,976,589	0	0	0	0	2,828,193	0	0
	ANNUAL	2,138,193	1,295,231	1,258,591	61	59	2,831,581	1,291,112	46
Habropoda	Jan	3,192,738	0	0	0	0	3,193,214	0	0
	Feb	3,457,997	0	0	0	0	3,458,472	0	0
	Mar	3,458,110	0	0	0	0	3,458,586	0	0
	Apr	3,458,110	529,179	529,179	15	15	3,458,586	529,179	15
	May	3,447,106	1,058,358	1,058,358	31	31	3,447,663	1,058,358	31
	Jun	3,446,974	0	0	0	0	3,447,531	0	0
	Jul	3,446,974	0	0	0	0	3,447,531	0	0
	Aug	3,446,974	0	0	0	0	3,447,531	0	0
	Sept	3,446,974	0	0	0	0	3,447,531	0	0
	Oct	3,039,146	0	0	0	0	3,040,215	0	0
	Nov	3,035,995	0	0	0	0	3,037,064	0	0
	Dec	3,040,265	0	0	0	0	1,777,551	0	0
	ANNUAL	3,458,110	1,166,911	1,166,911	34	34	3,458,586	1,166,911	34
Halictus	Jan	1,183,556	0	0	0	0	1,489,655	0	0
	Feb	1,196,024	0	0	0	0	1,494,614	0	0
	Mar	1,207,929	501,993	498,552	42	41	1,505,686	499,396	33
	Apr	1,288,851	888,946	882,331	69	68	1,511,576	888,910	59
	May	1,288,851	1,142,366	1,044,870	89	81	1,646,384	1,122,919	68
	Jun	1,288,851	1,232,511	1,112,790	96	86	1,510,424	1,203,986	80
	Jul	1,289,088	1,212,352	1,091,358	94	85	1,510,110	1,191,440	79
	Aug	1,244,348	1,229,653	1,099,948	99	88	1,498,849	1,203,500	80
	Sept	1,204,933	1,183,938	1,055,133	98	88	1,494,906	1,146,075	77
	Oct	1,204,933	1,064,867	998,412	88	83	1,490,840	1,057,412	71
	Nov	1,202,138	103,978	101,121	9	8	1,463,179	103,978	7
	Dec	1,183,556	0	0	0	0	1,452,254	0	0
	ANNUAL	1,289,088	1,350,513	1,148,745	105	89	1,659,058	1,296,293	78

Hoplitis	Jan	669,745	0	0	0	0	1,196,262	0	0
	Feb	959,636	0	0	0	0	1,272,694	0	0
	Mar	1,062,921	0	0	0	0	1,289,953	0	0
	Apr	1,062,921	0	0	0	0	1,308,927	0	0
	May	1,062,921	585,832	552,084	55	52	1,325,584	573,232	43
	Jun	1,062,921	554,137	425,135	52	40	1,436,365	551,564	38
	Jul	1,062,921	211,585	205,241	20	19	1,420,530	207,803	15
	Aug	1,035,284	301,734	284,977	29	28	1,335,904	299,325	22
	Sept	1,035,284	103,978	87,564	10	8	1,330,022	103,978	8
	Oct	981,476	0	0	0	0	1,239,209	0	0
	Nov	796,808	0	0	0	0	1,237,389	0	0
	Dec	669,745	0	0	0	0	1,196,262	0	0
	ANNUAL	1,062,921	827,921	683,435	78	64	1,436,365	829,632	58
Hylaeus	Jan	982,981	0	0	0	0	1,284,307	0	0
	Feb	982,981	0	0	0	0	1,338,027	0	0
	Mar	1,007,338	0	0	0	0	1,375,026	0	0
	Apr	1,091,254	207,956	204,418	19	19	1,378,469	207,896	15
	May	1,091,254	207,956	204,418	19	19	1,383,383	611,665	44
	Jun	1,091,254	738,486	725,729	68	67	1,400,975	736,543	53
	Jul	1,091,740	436,525	416,354	40	38	1,398,236	435,996	31
	Aug	1,091,883	860,425	778,302	79	71	1,397,277	834,790	60
	Sept	1,084,097	336,203	323,398	31	30	1,396,366	330,189	24
	Oct	1,084,097	470,732	466,028	43	43	1,378,224	470,638	34
	Nov	1,083,468	0	0	0	0	1,371,112	0	0
	Dec	982,981	0	0	0	0	1,284,307	0	0
	ANNUAL	1,091,883	1,112,709	990,091	102	91	1,400,975	1,076,848	77
Lasioglossum	Jan	1,158,484	0	0	0	0	1,436,382	0	0
	Feb	1,244,777	0	0	0	0	1,439,277	0	0
	Mar	1,263,517	218,340	211,321	17	17	1,475,132	217,852	15
	Apr	1,263,517	666,220	636,709	53	50	1,478,182	665,532	45
	May	1,263,517	919,848	875,368	73	69	1,480,821	907,891	61
	Jun	1,263,517	1,126,073	1,042,375	89	82	1,486,033	1,104,444	74
	Jul	1,263,517	1,177,541	1,085,781	93	86	1,485,719	1,155,857	78
	Aug	1,239,065	1,077,297	1,020,326	87	82	1,483,997	1,063,646	72
	Sept	1,239,065	768,018	710,837	62	57	1,483,488	740,605	50
	Oct	1,239,060	277,662	275,960	22	22	1,477,990	276,419	19
	Nov	1,239,060	286,224	274,523	23	22	1,450,019	286,125	20
	Dec	1,158,484	0	0	0	0	1,436,382	0	0
	ANNUAL	1,265,142	1,287,675	1,128,281	102	89	1,486,179	1,222,225	82
Megachile	Jan	2,894,946	0	0	0	0	3,070,450	0	0
	Feb	3,007,784	0	0	0	0	3,255,699	0	0
	Mar	3,016,289	0	0	0	0	3,223,746	0	0
	Apr	3,119,276	529,179	529,179	17	17	3,276,621	529,179	16
	May	3,119,287	2,613,549	2,597,764	84	83	3,278,188	2,608,455	80
	Jun	3,119,287	2,756,113	2,720,320	88	87	3,289,311	2,742,794	83
	Jul	3,065,990	2,695,019	2,597,753	88	85	3,288,429	2,673,780	81
	Aug	2,991,956	2,734,236	2,578,522	91	86	3,233,121	2,666,436	82
	Sept	2,921,306	1,699,386	1,695,491	58	58	3,230,035	1,698,658	53
	Oct	2,921,598	0	0	0	0	3,131,311	0	0
	Nov	2,918,031	0	0	0	0	3,130,198	0	0
	Dec	2,894,946	0	0	0	0	3,070,450	0	0
	ANNUAL	3,119,287	2,915,765	2,770,345	93	89	3,289,310	2,876,524	87
Melissodes	Jan	2,096,936	0	0	0	0	2,812,332	0	0

	Feb	2,096,936	0	0	0	0	2,975,212	0	0
	Mar	2,096,936	694,002	608,945	33	29	3,102,673	691,469	22
	Apr	2,096,936	0	0	0	0	3,110,987	0	0
	May	2,143,983	2,339,653	1,942,337	109	91	3,128,529	2,330,559	74
	Jun	2,440,093	2,586,266	2,365,791	106	97	3,181,163	2,566,535	81
	Jul	2,497,152	2,690,457	2,405,314	108	96	3,173,546	2,683,470	85
	Aug	2,497,152	2,642,101	2,410,054	106	97	3,046,953	2,592,090	85
	Sept	2,497,152	1,459,523	1,413,767	58	57	3,046,547	1,458,224	48
	Oct	2,493,858	529,179	497,680	21	20	2,981,390	527,214	18
	Nov	2,267,576	0	0	0	0	2,979,903	0	0
	Dec	2,096,936	0	0	0	0	2,812,332	0	0
	ANNUAL	2,497,152	2,866,498	2,457,342	115	98	3,181,162	2,821,857	89
Nomada	Jan	0	0	0	0	0	1,102,555	0	0
	Feb	0	0	0	0	0	1,102,555	0	0
	Mar	0	244,379	0	0	0	1,102,555	242,667	22
	Apr	0	0	0	0	0	1,118,015	0	0
	May	0	0	0	0	0	1,115,688	0	0
	Jun	0	103,978	0	0	0	1,063,420	103,709	10
	Jul	0	103,978	0	0	0	1,063,420	103,978	10
	Aug	0	103,978	0	0	0	1,063,420	103,978	10
	Sept	0	0	0	0	0	1,063,420	0	0
	Oct	0	0	0	0	0	1,118,015	0	0
	Nov	0	0	0	0	0	1,118,015	0	0
	Dec	0	0	0	0	0	1,102,555	0	0
	ANNUAL	0	379,495	0	0	0	1,118,015	377,524	34
Osmia	Jan	3,155,918	0	0	0	0	3,187,191	0	0
	Feb	3,178,624	0	0	0	0	3,207,106	0	0
	Mar	3,186,774	1,192,712	1,192,711	37	37	3,212,099	1,192,712	37
	Apr	3,190,267	1,643,113	1,642,875	52	51	3,219,572	1,643,113	51
	May	3,064,202	1,429,808	1,428,162	47	47	3,148,973	1,429,774	45
	Jun	3,064,045	0	0	0	0	3,148,164	0	0
	Jul	3,052,098	0	0	0	0	3,138,157	0	0
	Aug	3,006,855	0	0	0	0	3,093,233	0	0
	Sept	2,997,299	0	0	0	0	3,085,550	0	0
	Oct	2,994,050	0	0	0	0	3,085,487	0	0
	Nov	2,972,535	0	0	0	0	3,082,461	0	0
	Dec	2,939,379	0	0	0	0	3,020,729	0	0
	ANNUAL	3,190,267	2,066,795	2,065,930	65	65	3,220,577	2,066,760	64
Peponapis	Jan	850,547	0	0	0	0	1,687,893	0	0
	Feb	850,547	0	0	0	0	1,687,893	0	0
	Mar	850,547	0	0	0	0	1,687,893	0	0
	Apr	850,547	0	0	0	0	1,687,893	0	0
	May	850,547	529,179	100,820	62	12	1,687,893	527,017	31
	Jun	850,547	1,092,262	666,412	128	78	1,687,893	1,044,920	62
	Jul	850,547	0	0	0	0	1,687,893	0	0
	Aug	850,547	1,054,050	199,379	124	23	1,941,704	1,026,435	53
	Sept	850,547	0	0	0	0	1,941,704	0	0
	Oct	850,547	0	0	0	0	1,687,893	0	0
	Nov	850,547	0	0	0	0	1,687,893	0	0
	Dec	850,547	0	0	0	0	1,687,893	0	0
	ANNUAL	850,547	1,652,493	703,513	194	83	1,941,704	1,596,673	82
Sphecodes	Jan	0	0	0	0	0	0	0	0
	Feb	0	0	0	0	0	104,062	0	0

	Mar	0	0	0	0	0	104,062	0	0
	Apr	0	0	0	0	0	104,062	0	0
	May	0	0	0	0	0	104,062	0	0
	Jun	0	0	0	0	0	104,062	0	0
	Jul	0	0	0	0	0	104,062	0	0
	Aug	0	0	0	0	0	104,062	0	0
	Sept	0	103,978	0	0	0	104,062	0	0
	Oct	0	0	0	0	0	104,062	0	0
	Nov	0	0	0	0	0	0	0	0
	Dec	0	0	0	0	0	0	0	0
	ANNUAL	0	103,978	0	0	0	104,062	0	0
Stelis	Jan	0	0	0	0	0	131,491	0	0
	Feb	0	0	0	0	0	131,491	0	0
	Mar	0	0	0	0	0	131,491	0	0
	Apr	0	0	0	0	0	131,491	0	0
	May	0	103,978	0	0	0	131,491	0	0
	Jun	0	103,978	0	0	0	1,101,121	103,444	9
	Jul	0	0	0	0	0	1,101,121	0	0
	Aug	0	0	0	0	0	1,101,121	0	0
	Sept	0	0	0	0	0	1,101,121	0	0
	Oct	0	0	0	0	0	131,491	0	0
	Nov	0	0	0	0	0	131,491	0	0
	Dec	0	0	0	0	0	131,491	0	0
	ANNUAL	0	207,956	0	0	0	1,101,121	207,424	19
Svastra	Jan	0	0	0	0	0	1,260,523	0	0
	Feb	0	0	0	0	0	2,786,011	0	0
	Mar	0	0	0	0	0	2,954,670	0	0
	Apr	0	0	0	0	0	2,969,848	0	0
	May	0	529,179	0	0	0	2,972,864	529,179	18
	Jun	529,220	2,376,379	472,998	449	89	3,127,717	2,374,750	76
	Jul	529,220	2,455,175	488,110	464	92	3,127,717	2,446,467	78
	Aug	529,220	2,169,438	472,801	410	89	2,961,065	2,169,224	73
	Sept	529,220	790,424	0	149	0	2,960,644	790,424	27
	Oct	0	0	0	0	0	2,799,601	0	0
	Nov	0	0	0	0	0	2,796,583	0	0
	Dec	0	0	0	0	0	1,260,523	0	0
	ANNUAL	529,220	2,543,899	492,245	481	93	3,127,717	2,533,593	81
Triepeolus	Jan	0	0	0	0	0	2,787,380	0	0
	Feb	0	0	0	0	0	2,950,505	0	0
	Mar	0	0	0	0	0	2,968,872	0	0
	Apr	0	0	0	0	0	2,977,493	0	0
	May	0	955,933	0	0	0	2,985,284	954,231	32
	Jun	0	2,325,752	0	0	0	2,987,349	2,325,304	78
	Jul	0	2,445,443	0	0	0	2,981,431	2,419,366	81
	Aug	0	1,298,475	0	0	0	2,830,095	1,293,542	46
	Sept	0	0	0	0	0	2,830,095	0	0
	Oct	0	0	0	0	0	2,792,545	0	0
	Nov	0	0	0	0	0	2,950,505	0	0
	Dec	0	0	0	0	0	2,787,380	0	0
	ANNUAL	0	2,495,009	0	0	0	2,988,196	2,468,642	83
Xylocopa	Jan	17,517,276	0	0	0	0	17,604,391	0	0
	Feb	17,522,428	0	0	0	0	17,626,504	0	0
	Mar	17,522,428	15,623,121	15,619,387	89	89	17,627,316	15,623,121	89

	Apr	17,537,135	16,134,687	16,115,699	92	92	17,657,024	16,127,402	91
	May	16,930,497	16,381,905	16,017,140	97	95	17,531,929	16,326,828	93
	Jun	16,930,497	15,489,871	15,478,691	91	91	17,617,961	15,489,871	88
	Jul	17,517,978	15,517,814	15,495,798	89	88	17,609,350	15,508,138	88
	Aug	16,742,514	15,551,766	15,540,196	93	93	17,564,181	15,551,766	89
	Sept	16,538,566	15,523,446	16,538,566	94		17,547,780	15,509,325	88
	Oct	16,538,566	15,293,273	16,538,566	92	100	17,452,462	15,293,273	88
	Nov	16,538,566	8,125,947	8,122,883	49	49	17,278,111	8,125,947	47
	Dec	16,538,566	0	0	0	0	17,178,772	0	0
	ANNUAL	17,537,135	16,601,820	16,464,674	95	94	17,665,840	16,542,755	94
Total Avg Including Zeros					34				23
Total Avg Excluding Zeros					82				42

DESIGNING FOR NATIVE BEES IN THE FACE OF CLIMATE CHANGE: A CASE STUDY OF CREATING NOVEL ECOSYSTEMS FOR RESILIENT LANDSCAPES

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1 ABSTRACT

Bee habitat infrastructure should be an essential priority for humankind facing climate change today. Pollination resiliency is necessary to conserve our current standards of life by reducing environmental and physiological stressors for bees. Designing conservation landscapes within human dominated systems for a diversity of native bees is complicated. Native bees fill a huge ecological purpose yet suffer from habitat fragmentation. Landscape designers need clear instructions to effectively plan and design bee habitat scientifically proven design for pollination ecological function. This research aims to add clarity and specific solutions to help combat the many layers of complexity concerning bee habitats and identify best management practices to help landscape designers make sound, ecologically based bee habitat. This paper presents a collection of design ideas and concepts for bees. Design strategies aim to: 1) improve habitat for native bees, 2) improve understanding of urban bee habitats and needed habitat network augmentations, and 3) design to educate and convey information/increase landscape literacy for focal bee genera. Bees are keystone species, important to the conservation of many other plants, animals, and ecosystems. Human-dominated habitats, especially those with close proximity to agricultural areas, serve as potential source habitats for bees. This research utilized landscape architecture students to explore scientifically accurate designs for and about bees. Students designed to either provide best possible habitat or used art for conservation. Bolstering urban plantings can help to mitigate the climate change effects on bee populations via effective garden and pollinator network designs.

1.1 Keywords

Native bees, Landscape Design, Ecology, Pollination, Gardens, Habitat

2 INTRODUCTION

Urban spaces have the potential to provide bee habitat (Bonthoux et al., 2014; Frankie et al., 2003, 2009; 2014; 2019, Lowenstein, 2015), however, the quality of design work can have varied effects. As seen in Chapters 1 (Chacon and Greco 2022a) and 2 (Chacon and Greco 2022b), the plant palette and spatial characteristics of a site have a large impact on the quality of that habitat. Strategies for improving bee habitat can help make design decisions for habitat landscapes facing climate change. To protect ecosystem services (i.e., pollination from insects and some vertebrates) we must focus on bolstering and building resilience among bee populations (Pollinator Partnership 2021; USDA 2021; Xerces 2011). The main goal for designers of bee landscapes should be to create highly functional (high connectivity and high circuitry) pollinator landscapes. In other words, designers should build landscapes which are appealing for bees to feed, reproduce, and live in. Good habitat design must be local area specific and consider the site's context. For example, plants should be suitable for predicted California's future climactic conditions, in many cases, be less dependent on water and more resilient to drought stress (Reid and Oki 2008; Hartin 2018). Designers should aim to compensate for land cover which is not conducive to making suitable habitat. Thus, designers need to look at ways to reduce the footprint of impervious surfaces, such as roads, roofs, building sides, among many others. There is a need to convert wasted landscape space into habitat for bee habitat resiliency (Xerces 2011; Bonthoux et al., 2014; Sirois-Delisle and Kerr, 2018) in the face of climate change in human-dominated landscapes. The Earth is undergoing a new epoch, influenced mainly by human activity, coined the Anthropocene (Lewis and Maslin 2015). Similarly, the vast majority of Earth's landscapes have been shaped by humans, coined the Anthroscape (Eswaran et al., 2010). Furthermore, creating good habitat is only one part of the solution for creating effective native bee designs. Showcasing bee educational information, such as scientific findings is necessary to increase public awareness, interest and conservation.

This work begins by investigating the degree to which urban human dominated bee habitats represent ecological bee refugia in California. Then, landscape designs are conceptualized on various improvements of human landscape types. Planning for native bee conservation under the ecological threat of climate change requires examining ecosystems from a target bee's perspective. Solving novel ecosystem issues requires holistic study, based on scientific data to meet the needs of native bees.

Moreover, bees represent a large number of different organisms, therefore, it is impossible to design for all bees at once. Instead, focal bee species (in this case genera) will be selected based on the data and results from Dissertation Chapter 1 (Chacon and Greco, 2022a) and Chapter 2 (Chacon and Greco, 2022b) and with interest from student ecological designers. Designs will focus around the biological needs of focal bee genera, with an emphasis on those which seem to have potential for maintaining ecosystem services in urban ecosystems. Ideally, focal bee genera conservation will act as an umbrella, also helping to support bees which have narrower habitat requirements. Selection of plants for bees was an important element of bee habitat design, seen in Chapters 1 and 2, but this research goes further, aiming to teach site visitors about bees. Design is utilized to captivate, inspire and educate humans about the fantastic pollinators that we depend on. Ecologically functional faunal bee urban landscapes, built upon the principles of resiliency, will help to guarantee pollination ecosystem services in the future.

This research concludes by presenting strategically determined design concepts as examples of how to implement the best possible bee habitat plans. Designs focus on providing the best possible plant selection for temporal continuity, spatial habitat continuity, creativity, public education and artistic themes. Examples of design intervention will be made to demonstrate how different degrees of designing for bees could be achieved with varying results in the real world. Design holds a key role not just in providing habitat, but also in promoting education and communication in memorable ways. Designers have the power to alter the transparency of their landscapes' functions (Thayer, 1994), and bee landscapes must be thought of in this way to help protect against the uncertainties of climate change. Through striving to create high quality habitat and increase landscape literacy (Spirn 2000; 2021) this research aims to promote pollination ecosystem services into the future.

3 MAIN RESEARCH QUESTIONS

- *How does urban bee habitat vary in its ability to act as bee habitat?*
- *Which target bee genera should designers concentrate conservation efforts as focal and/or umbrella species to promote future ecosystem services?*
- *How can designers foster greater bee habitat "landscape literacy" with their designs?*
- *Which aspects of mutualism between humans and bees benefit from each other through design?*
- *What best management practices (BMPs) or design practices can be implemented to enhance bee foraging habitat in cities?*

4 MATERIALS AND METHODS

4.1 STUDY AREA DESCRIPTION

The University of California Davis Arboretum and Public Garden (hereafter 'Arboretum') was the study site for all fieldwork and analysis completed in Dissertation Chapters 1 and 2. This chapter deals with the Arboretum site too, but also examines case studies of the ecological role of bees over the greater landscape extent in the Californian cities including: Mill Valley, Glendora, and

San Luis Obispo (SLO). While the Arboretum study was in the order of a couple miles, the subsequent urban studies were in the order of tens of miles.

4.2 PICKING FOCAL BEE GENERA

4.2.1 FOCAL BEE OPPORTUNITIES AND CONSTRAINTS

Target bee species were identified for conservation based on the results in Chapters 1 and 2. Bee genera which were found capable of utilizing urban ecosystem landscapes have been emphasized in conservation efforts for this research, including: *Andrena*, *Apis mellifera*, *Bombus*, *Megachile*, *Osmia*, and *Xylocopa*. All of these bees are listed as common bee genera found throughout the state of California (Xerces 2011; Frankie et al., 2014). These bees provide pollination ecosystem services despite the unique qualities of urban bee habitat. We believe that prioritizing pollination is most important when facing the extreme influences and danger of climate change today. While it would be more ideal to plan for conservation of all bees, that is likely not possible or conducive to conserving pollinator landscape functionality. Since so many ecosystems and portions of them are dependent on pollination occurring, it is absolutely essential to conserve the pollination functionality above all other goals.

Bees which are exceedingly prone to habitat fragmentation and exhibit highly specialized feeding behaviors are likely not good candidates for human-dominated ecosystem services conservation efforts. For example, obligate vernal pool bees, consisting of *Andrena* species: *A.* (*Diandrena*) *blennospermatis*, *A.* (*D.*) *submoesta*, and *A.* (*D.*) *puthua*; *A.* (*Hesperandrena*) *limnanthis*, *A.* (*H.*) *duboisi*, *A.* (*H.*) *lativentris* (Thorp and Leong n.d.). While the most specialized bees may seem be good focal bee candidates because of their extreme geographic limitations (very small foraging radii of only up to 10 meters) and obligate feeding nature (only feeding off one or two plant species) we argue that this would not be a good strategy. Designing for specialist bees, such as vernal pool bees would be inappropriate for most other bees and not focus on the goal of functional pollination in urban areas. Instead, extreme specialists, such as vernal pool bees should have their own conservation areas and strategies, aside from the urban bee communities and habitats.

A balanced approach, therefore, would employ a coarse and fine filter conservation strategy (Noss et al., 1997) for preserving pollination ecosystem services. In other words, ecological design strategies should be employed that conserves a variety of bees, both generalists and specialists. Conservation planning exclusively for specialists such as obligate *Andrena* vernal pool bees should be detrimental for most other bee types, as they have a high degree of specialization. Instead, the focal bee must be chosen with landscapes in mind. Special conservation areas, such as vernal pools, would have their own conservation plans, while anthro-centric, human-dominated, landscapes would focus on focal bees capable of providing pollination to provide resiliency against the harsh environmental conditions facing us in the Anthropocene (Lewis and Maslin 2015). Human dominated landscapes, also known as the anthroscape (Eswaran et al., 2010), will require pollination conservation plans which would encompass bees capable of pollination across the greater landscape. Functional pollination would help to ensure that ecological biodiversity remains stable, along with all the other plants and animals that depend on pollination. Therefore, by choosing strategically which bees to focus on, designers can help to build resilient bee pollinated landscapes now, and for the future.

4.2.2 FOCAL BEES FOR LANDSCAPE DESIGNERS, FOCUS AND LIMITATIONS

Target bee species were identified for conservation based on the results in Chapters 1 and 2. Bee genera which were found capable of utilizing urban ecosystem landscapes have been emphasized in conservation efforts for this research, including: *Andrena*, *Apis mellifera*, *Bombus*, *Megachile*, *Osmia*, and *Xylocopa*. All of these bees are listed as common bee genera found throughout the state of California (Xerces 2011; Frankie et al., 2014; Chacon and Greco 2022a; 2022b). Furthermore, author KC studied the interest level with which student designers were attracted to work with. There were obvious trends among landscape architecture undergraduate college students for particular bee physical and lifestyle traits. The abovementioned commonly found native bee genera were also quite popular with students as subjects for design projects. Thus, while some bees, such as *Halictus*, were excellent foragers in earlier chapters, they were not popular with student designers, most likely due to their relatively hairless bodies and subterranean nesting style. Other less popular bee genera included: very small *Lasioglossum*, especially the tiny *Dialictus* subgenus types and/or small and hairless *Hylaeus* (though one project was attempted with an endangered *Hylaeus* in Hawaii, discussed below, but not pictured), Cuckoo bees were vastly unpopular, and never utilized for a project at all. Overall, students were instead, drawn to bees with special attributes, such as: hairy, colorful, robustly bodied bee types (rather than ordinary looking specimens).

Notably students were commonly drawn to working with European honey bees, *Apis mellifera*, instead of with native bees. This is likely because most people think that European honey bees are quintessentially conventional. We all know the patterns of honeycomb and images of hives, and bee keeping. So, even students who were educated about the importance of bees native to California, still clung to knowledge about these naturalized bees at times, despite their biology and ecology differing from the local abundance of bee varieties. This could also be due in part to the media attention given to *Apis mellifera*, to “save the bees”. There are countless social media trends on this theme, many, possibly most, of which present mis-information. It is clear that people are not aware of the diversity of native bees in our own landscapes in California. Even designers are not aware of biological and ecological differences and needing education and scientific themed projects. We must work hard to work beyond the "seductive" honeycomb patterns, black and yellow bee cartoon images, social hives, and posts about dandelions "saving the bees". Afterall, which bees are we trying to save? How can we do it? Landscape researchers are calling for action on better landscape architecture education for college students (Kiers, et al., 2020). Part of that climate education should be about how bee pollination network resiliency is necessary. It's time for designers to take a stronger scientific stance on essential bee conservation issue today.

4.2.3 HABITAT MAPPING FOR BEES

Habitat mapping for any animals often begins with mapping landscape vegetation and then assessing how the landscape's vegetative form and properties meet the needs of the animal species (as seen in Dissertation Chapters 1 and 2 as Wildlife Habitat Relationship [WHR]) models. Furthermore, Chapter 2 aimed for scientifically made, high resolution maps in the order of miles. However, in Chapter 3, these same mapping techniques and testing were completed in Chapter 2 could not be done over a larger spatial extent with the technology available today. Therefore, Chapter 3 aims to analyze more spatially extensive areas, but in doing so, with lower floristic resolution. Additionally, this paper focuses on recommending design solutions to existing urban bee habitat shortcomings. This research analyzes the patterns of urban vegetation in relation to native bee habitat area. It is accepted that urban areas have different bee community compositions than wild land areas (Frankie et al., 2014; Leong et al., 2015; Nicholson et al., 2020;

Prendergast and Ollerton 2021; Xerces 2011). Next an extrapolation of the ecological function of gardens found in Chapters 1 and 2 to the larger landscape scale can be made to help gain understanding about how the bee metapopulation functions. Students were advised to assign the following habitat quality characteristics for landscape cover types: wild, agricultural, and urban. Each are described below.

Wild land: Excellent habitat for native bees, probably honey bees as well. Most plants peak blooming earlier in the season (see Mary Wattis Brown California Native Garden in Chapter 1). Wild habitat patches are often located very far from other wild patches. Often made of hilly areas unsuitable for agricultural crop growing and/or grazing. Native plants, but interspersed commonly with non-native invasive plants as well. Fire in these areas encourages native pollinator population boosts (Mola and Williams 2018; Ponisio et al., 2016).

Agricultural land: Infrequent use for most native bees. Vast, monotonous plantings, hostile management (i.e., pesticide spraying) and habitat matrix quickly changing (i.e., crops grown/harvested), no place to overwinter for bees, may provide foraging habitat with juxtaposition to bee source habitat. Scale often represents a major obstacle for bees to travel through at the landscape scale, i.e., mono-cropping acts as a sink, too vast to traverse. Irrigation could allow for blooms and therefore foraging habitat while wildlands would be desiccated. Management of crops and the surrounding areas can drastically sway the quality of bee habitat (Chaplin-Kramer et al., 2011; Greenleaf, S. and Kremen, C. 2006; Kremen et al., (2002); Wilson et al., 2017; Shackelford et al., 2019). Further spatial bee habitat studies should shed light onto how urban areas function as native bee genera habitat. A focus on urban areas which are adjacent to agricultural lands seem to hold promise, as that land presents potential for urban bees to subsidize pollination ecosystem services within agricultural lands, with benefits such that hedgerows provide.

Urban land: Urban land is an ecological refugia for many native bees and naturalized honey bees. The landscape matrix is highly dissected and plant palettes vary greatly, some of which provide excellent habitat for particular bee genera. It also provides a longer foraging season than wildlands, partly due to plant choices, but also use of irrigation. These planting combinations are often unique combinations and function as novel ecosystems. This land cover acts as source habitat for many bee species, helping them maintain their populations despite the juxtaposition to less hospitable landscape types. There is much variability within land types, even from parcel to parcel or land use categories such as single-family home, residential, high density residential, commercial and industrial. In areas which are highly hostile to bees, pollination is decreased, even among European honey bees, (Garibalidi et al., 2011)

Urban landscape types: Classifications of different landscape cover types were done in somewhat coarse aggregates. For example, park vegetation, road edges, lawns, etc. This was a common choice among students who could quickly select green on maps via Photoshop (Adobe 2021a). Alternatively, some students took the time to trace vegetation with Illustrator (Adobe 2021b) or InDesign (Adobe 2021c) with similar results. Finally, some students also utilized ArcGIS (ESRI 2021) land cover categorizations in GIS data using ArcGIS (ESRI 2021b). Future studies could be done to compare each technique.

4.2.4 Designing for Bees

Landscape design for bees is explored with help of student designers from California Polytechnic’s Landscape Architecture program (Cal Poly 2021). Students in both a studio and specialty interest course were given design tasks by author KC over two quarters. Their illustrations and work help to exemplify KC's vision of designing bee habitat in a thorough ecological, but also provocative and engaging ways. KC's design ideas for bees are rooted in scientific knowledge and aim to tackle bee pollinator conservation as a multiprong approach. Designs focus around the biological and ecological aspects of bees. The best designs look to celebrate what is unique or interesting about each focal bee. In addition to habitat creation, maximization, and conservation, landscape designers can help to show how bees' stories can be shared.

4.2.5 Seed Library

A single prototype was made to gauge neighborhood interest in improving residential bee habitats. A seed library network has potential to provide opportunities for improved neighborhood pollinator habitat. Moreover, seed library patrons would be empowered to make positive changes within their vicinities with minimal physical labor and intrusion into private land spaces which are otherwise often inaccessible. Participation in seed library usage would be entirely voluntary for users. A network of seed libraries will act as a system of structural resiliency for urban pollinators. By using geographic analysis, mapping techniques could help to shed light into where seeds are being planted and also where important pollinator plants exist. With the help of citizen science data, areas of low pollinator plantings can be targeted for future landscape design for pollinators.

4.3 FIGURES AND TABLES

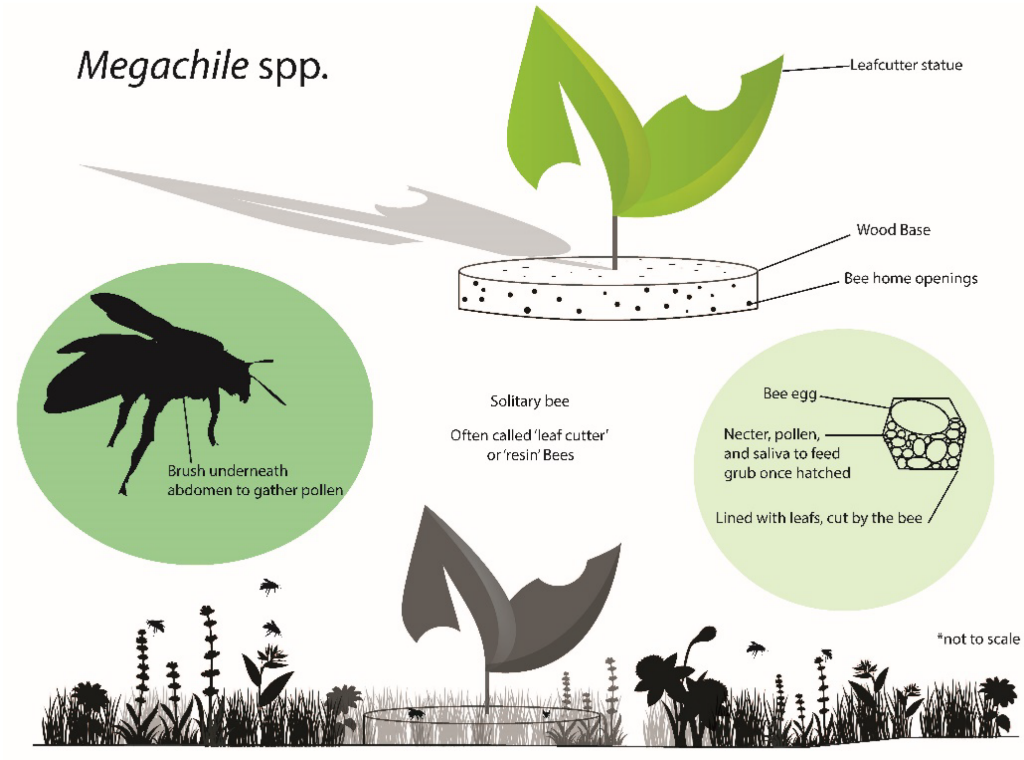

Figure 1. *Show site visitors about special bees*. *Image: Alrawi (2021). Reproduced with Permission of Alrawi.*

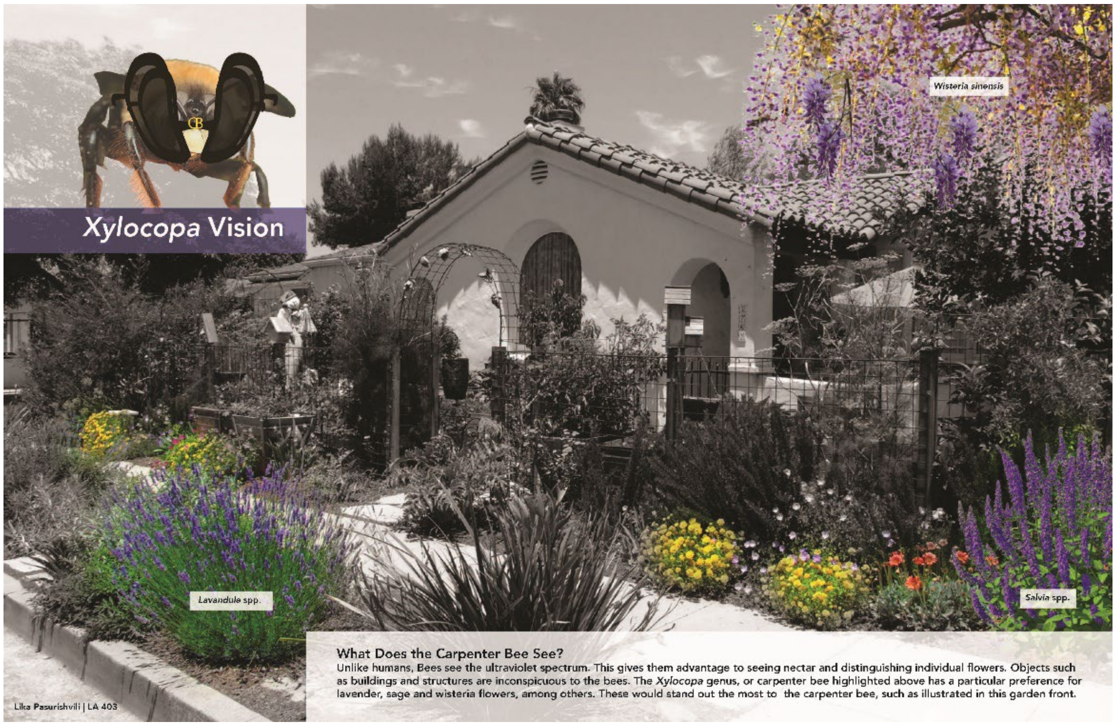

Figure 2. ***"See like a Xylocopa bee".*** *Image: Pasurishvili (2021); (Adobe 2021a,c). Reproduced with Permission of Pasurishvili.*

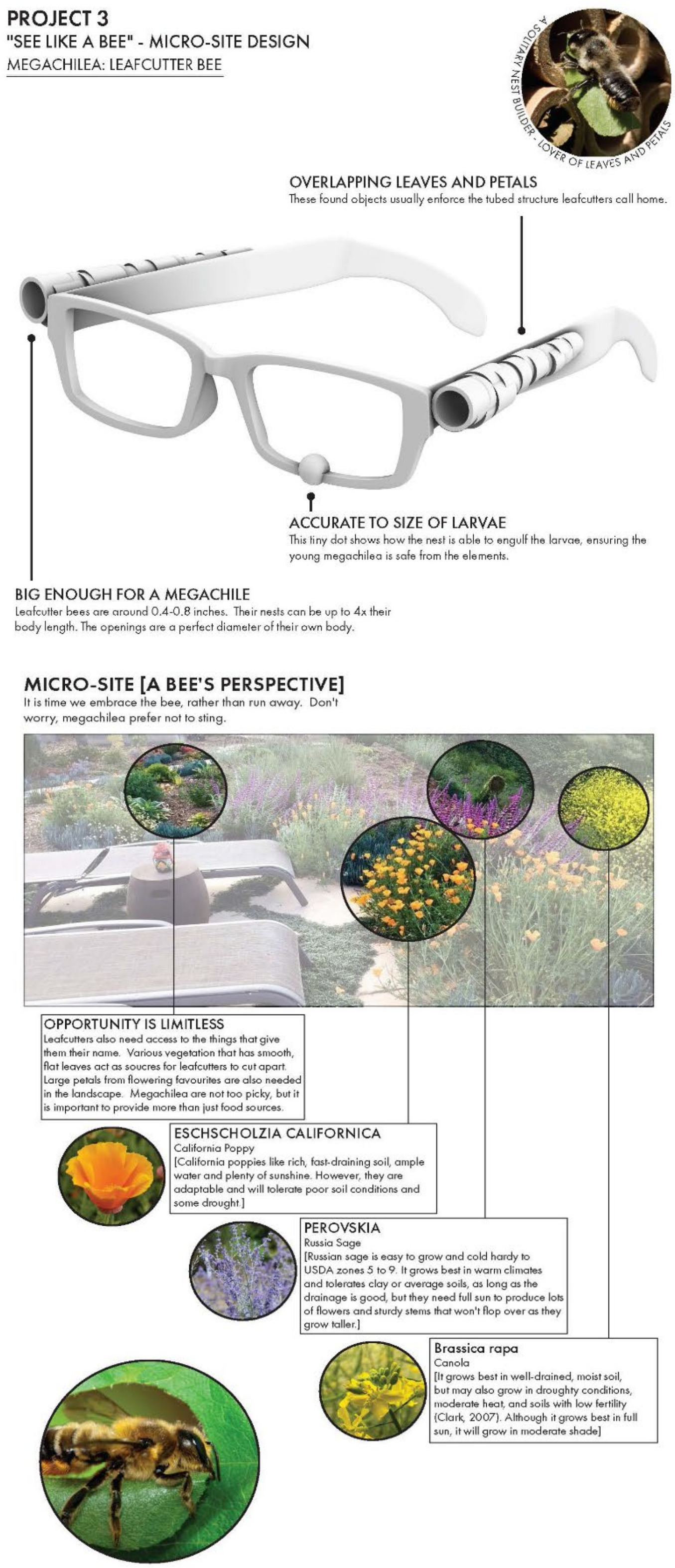

Figure 3. ***"See like a Megachile bee".*** *Image: Hensen (2021); (Adobe 2021b,c). 3D Image (Rhino 2021). Reproduced with Permission of Hensen.*

Figure 4. ***Designing urban bee networks.*** *Image: Voong (2021); Adobe (2021a). Map: ESRI (2021). Reproduced with Permission of Voong.*

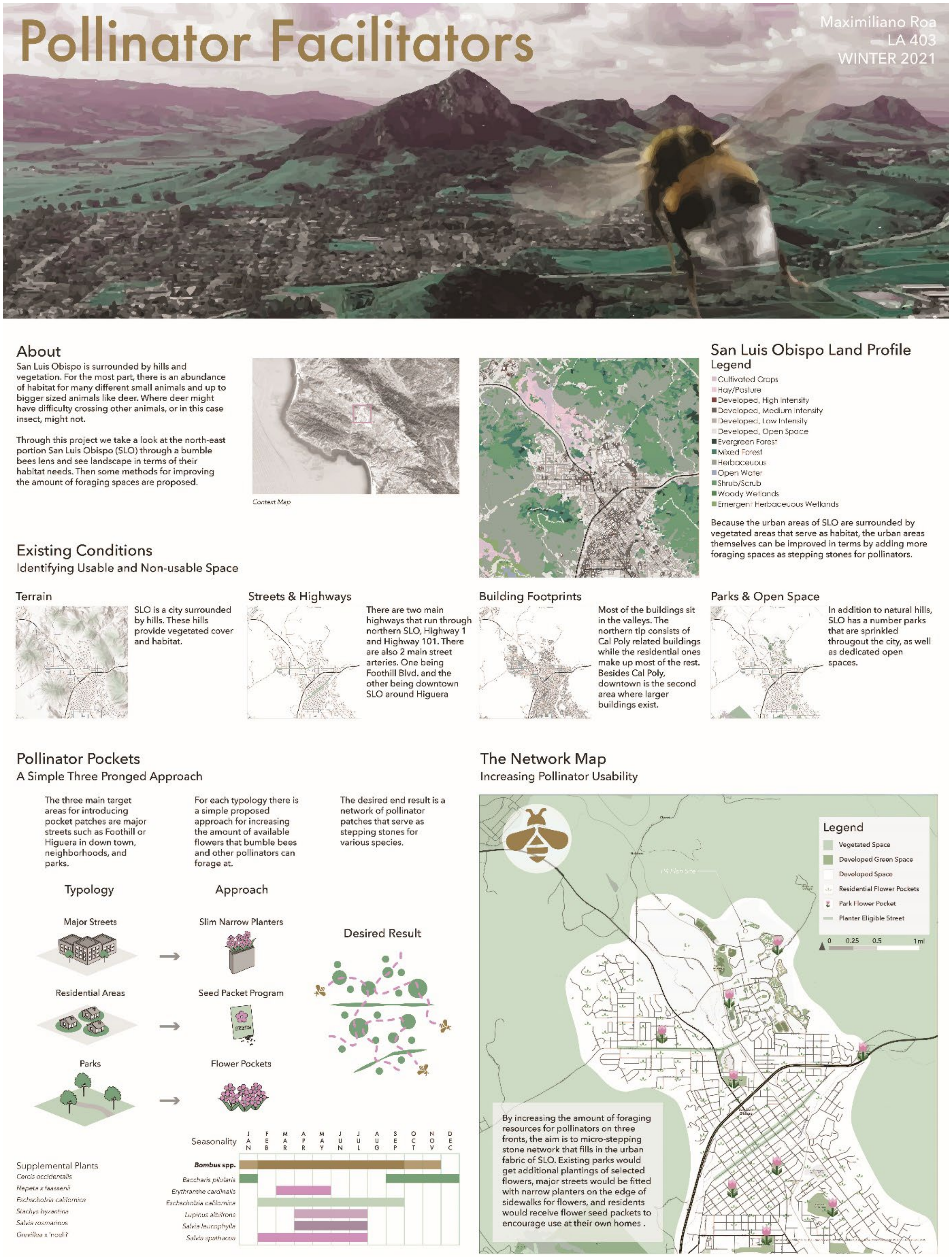

Figure 5. ***Desired landscape architecture plan for San Luis Obispo.*** *Image: Roa (2021); (Adobe 2021a,c). Maps: ESRI (2021). Reproduced with Permission of Roa.*

5 DESIGNING FOR BEES RESULTS

5.1 SHOW SITE VISITORS ABOUT SPECIAL BEES

Students were asked to show site visitors about special bees. Figure 1 shows how one student envisioned providing nesting habitat for *Megachile* bees in a sculptural way, conveying meaning to site visitors (Alrawi 2021). This clever solution helps people to gain landscape literacy about these fascinating cavity nesting bees. Mutualism exists here, presenting opportunity for both bees and humans. Design mutualism is an opportunity for multiple species to benefit from a landscape change (Orff 2016; Orff 2021). In this case, bees benefit from habitat design for nesting and foraging, while people benefit from gaining landscape literacy (Spirn 2000) about the pollination world around them.

Another wonderful design (Figure included in presentation only) focused on endangered *Hylaeus* bees in Hawaii. As it turns out the student lives on Oahu, the same island where the endangered *Hylaeus* species are found. By researching the foraging preferences and last sighting locations of these rare bees, a plan was made to help both conserve and celebrate these now rare bees. Interestingly, the possible conservation area overlapped with an already existing botanical arboretum. Adding an installation to highlight the special traits of endangered *Hylaeus* appears to be an opportunity for public education. The student was able to research the face patterns of the local *Hylaeus* bees and designed an interactive walking tour which would appeal to a large age range of visitors. This project was serendipitous, and holds potential for implementation.

5.2 SEE LIKE A BEE

Students were challenged to envision and demonstrate what a vegetated landscape looks like from a bee's point of view, focusing on the valued elements. This project forces students to look at the landscape from their organism's value system, which is an essential part of good ecological design. Figure 2 shows how *Xylocopa* favors some forage plants over others in this residential landscape. This student shows clearly which plants have ecological value to *Xylocopa* with the use of color, in contrast to the colorless (ecologically valueless) portions of the image. This image is particularly good at transmitting meaning to human viewers, helping people to understand this organism's preferences and landscape opportunities or limitations.

Another intelligent "see like a bee" design solution (Figure 3) shaped the ear pieces of glasses to look like tubular *Megachile* nests. The work was completed with an annotated design plan with callouts to highlight favorite foraging plants. The idea of ecologically based 'bee glasses' seems like an opportunity for helping capture the imagination of children and with educational presentations. There are many aspects of the bee's biology, ecology and foraging preferences which could be highlighted and made possibly more memorable with the help of glasses props, for example.

5.3 DESIGNING BEE "BOXES"

An aspect of bee biology which has potential for design is for bees which cavity nest above ground. It is possible for designers to create cavity nesting areas on any vertical surface. The form of these sorts of projects is limitless. One of the best student work's shows a concept for spelling the desired nesting bee's genus name (*Osmia*, for example). A design like this is fairly simple, yet demonstrates much more knowledge and information than a standard bee box from a standard retailer. Other students looked to maximize wall design space. One student created a huge silhouette of *Megachile* and planned drilled holes of the correct diameter all over the entire surface. It is conceivable to imagine that design as both striking and memorable. Other students strove for more abstract geometric patterns, which though artistic in nature, were not effective at communicating as much information about the bees.

5.4 FREE POLLINATOR SEED LIBRARIES

Author KC has envisioned a new way to help achieve higher quality pollinator habitat in neighborhoods via the installation of free seed libraries. A prototype pollinator seed library was made from a repurposed windowed cabinet and painted to advertise its contents. Since pollinators are suffering from habitat fragmentation and degradation due to human land use activities. Habitat design (plant selection and placement) is critical to solving these connectivity issues today. Improvements to habitat networks are on the forefront of research and design by urban and landscape ecologists.

Seed libraries, a grass roots phenomenon, aid in accessibility for people to start their own seeds. These cabinets originated in effort to provide free resource availability and seem like an opportunity for growing pollinator habitat. Seed libraries are small outdoor cabinets which can be curated to a palette of the provider’s choice. The seeds contained within are available free to whoever accesses them. Seed library users are also encouraged to leave seeds for others as well. Seed libraries are a “spin-off” of the popular “Free Little Libraries” program for exchanging books. Cabinet-style libraries are hyper local in design scale, often with one every few blocks in a neighborhood. Designs are often creative, attractive and fun to elicit usage. Specializing seed libraries to help meet the needs of local pollinators has great mutual potential, both for humans, and also pollinators.

So far, author KC’s “Free Pollinator Seed Library” has been extremely popular. Well over 800 hundred seed packets have already been exchanged in the months of its existence thus far.

The reception of the Grover Beach, California surrounding neighbors and users has been extremely positive. Efforts have been made to create a 'buzz' online. Basic information about the project can be found at author KC's personal website, (beelandscapes.com) and it even has its own Facebook (free pollinator seed library, 2021) page, titled, "Free Pollinator Seed Libraries where author KC can post updates. However, the highest interest occurred by posting on the Nextdoor (social media website to connect geographic neighbors, allowing online communication and posts) (Nextdoor, 2021). Seventy-four people within the immediate neighborhood liked the post and twenty took the time to post comments, all with positive words about the project. Of the commenters, all were within a maximum 12.5 km (km) (7.8 mi) radius from the seed library. The average distance of a commenter to the seed library was 6.3 km (3.9 mi) and the median was 3.4 km and 2.1 mi. Commenters show which neighborhood area they are posting from, which are defined by local's sense of geographic area, in this containing the following regions: Corbett Canyon, Edge of San Luis Obispo (SLO), Fair Oaks-Grand, Grover Heights, Horned Toad Trail, Huasna Valley and Huasna Corridor, Just Off The Pike, Lopez Drive, Oak Park Streets, Oceano, Ocean South, Old Oak Park, S. Oak Park and Trilogy. Most recently a Google Business listing was also made (Google Business 2021), which has further increased page views and visits. For example, in mid-January 2022 there have been over 1,100 visits to the Google page, which has increased exposure significantly.

Therefore, the seed library captured the attention of people in the general geographic area as well as in the local neighborhood. There is a lot of enthusiasm among the neighborhood to help bees. Designing pollinator seed libraries seems to hold a great potential for making the largest positive changes in short amounts of time with limited budgets.

5.5 PLAYING WITH CONTRASTING BEES THROUGH DESIGN

One of the most engaging potential design themes explores the contrasting nature of various bee genera. One student came up with a particularly interesting sculpture idea to celebrate two very different native bees. The student was keen enough to focus on the materials for each bee, wood for *Xylocopa*, and soil/ceramics for *Andrena*. The project (not pictured) shows two large (about 4 meters tall) bees of contrasting colors diving into the ground with their paths dynamically crossing. This work helps to demonstrate the various nesting substrates each bee would use. Furthermore, the student carefully imagined the body size and shape of each bee. (Note: the *Xylocopa* design could be improved by showing the nesting hole above the bee or on its side. *Xylocopa* does not ordinarily enter their nest holes from the top). It would be an impressive sight to see this design implemented. Different bees could be chosen at geographically different places to highlight locally special bees.

Other well thought out contrasting bee designs included, showcasing different bee nesting styles or foraging preferences. Some students juxtaposed different style nesters along a human walkway. Others used a human path to separate two very different foraging habitats on each side, for bees with extremely different foraging preferences. Overall, these themes have a lot of potential and should be explored more. Particularly, displaying uniqueness of bees and/or local adaptations seems like an excellent way to support local bee populations.

5.6 RETROFITS OF YARDS (AND OTHER COMMON LANDSCAPE TYPES)

Designing for bees over large areas of human dominated landscapes will require renovation of landscaping with little to no ecological value. Learning to maximize bee habitat with small planting areas is very important. When added together, these small snippets of micro-habitats contribute to pollinator habitat networks, which are essential for resilient landscapes. One of the best submitted images shows one student's attempt to maximize bee habitat foraging area in their family home. This student wisely recommends more pollinator plantings on the ground level, but also imagines creating more foraging area by utilizing vertical wall space for habitat.

Some students were bolder with their designs. They thought through how to maximize the area of foraging plants for bees, whether that was on the roof, walls, driveway, getting rid of grass or paving. Students were urged to think about a design they would like to look at every day, thus, in this way, it was easier for them to imagine if it was their own home or property. Since much of the human-built environment is already in existence, it is very important that we strive to update and augment the ecological functionality of such places for bees and other pollinators.

5.7 CONNECT THE COGNITIVE DISCONNECT, INCREASE LANDSCAPE LITERACY

A particular area for improvement among bee habitat designs is the level of literacy they allow the public to understand. Designs such as shown in Figures 1-3 show how large-scale demonstrations, featuring sculpture(s) and murals can have a strong impact on the designed landscapes and are an opportunity to transmit information (Spirn 2000); to educate whomever can view them. In this way, the entire landscape is a canvas, just waiting to share its meaning. Designers can help "interpret" what the landscape is doing; how it is functioning ecologically.

5.8 HABITAT MAPPING, INTERMEDIATE

Students tackled the bee habitat map categorization in a variety of ways, each producing effective graphics to demonstrate habitat patchiness of bees in human-dominated environments. Figure 4 shows an attempt at classifying landscape in Oakland, California from *Bombus*' perspective. This is a somewhat typical classification of open space, park land, street and sidewalk vegetation. Looking at the landscape with spatial distances between habitat is essential to better understand how bee habitat fragmentation patterns play out for bees at a city-wide scale. Figure 4 was made quickly by using an extension of ArcMap (ESRI 2021) within Illustrator (Adobe 2021a), a more illustrative software. This method was quite quick and accurate, creating quite effective results. Other students tried to streamline the tracing task by utilizing Photoshop's (Adobe 2021a) select by color tool which was perhaps the fastest method, but also lacking in accuracy. More mapping technique results are described below.

Other mappers strove to add more detailed information, with varied categories for example, including: natural landscapes, parks, redwood tree dominated areas. This categorization scheme made more sense for the student working out of Mill Valley, California. Some students missed the opportunity to demonstrate human residential areas as possible habitat for native bees. The best projects, also show well the possible geographic connections between denoted patches. The main correction for this type of mapping project would showing suburban and residential areas do have some ecological habitat value for bees. However, showing how much habitat value a residential parcel has is not simple, but subsequent student designers tried with other techniques shown in section 5.9, below.

5.9 HABITAT MAPPING, ADVANCED

The goal for the studio students was to create an extensive poster emphasizing designing for bees in a city of their choice. The final project had them concentrate at the scale of up to a few kilometers or miles maximum. One of the best projects include Figure 5, which shows a regional bee habitat design for the SLO area. This student was careful to use both GIS (ESRI 2021) land cover data for more precise habitat mapping as well as mapping information (Google 2021b). In their map titled, “The Network Map”, they were able to precisely prescribe where to place new habitat for “pollinator usability” which in ecological terms relates to ensuring foraging habitats are close enough together for continuity between pollinator patches. This student also does a wonderful job demonstrating three simple design techniques in their category “Pollinator Pockets” (or best management practices) which could be implemented at various landscape types. So, for example, with major streets, slim narrow planters could be installed; with residential areas, seed packet programs could be implemented; and finally with parks, suitable foraging flowers could be planted in groups. All three of these design techniques add together for the desired result of increased pollinator habitat circuity and connectivity. This design solution is akin to adding sunflowers throughout a town to bolster bee network connectivity, as seen in The Great Sunflower Project (LeBuhn 2021) in Sonoma, California, which was very well received. Overall, Roa’s (2021) project is an outstanding example of assessing a city’s pollinator habitat and offering design solutions. This is the sort of spatial resolution landscape designers should be striving for to create bee habitat network plans. This project is a shining example of how bee or pollinator habitat analysis and design could be accomplished.

Another final project worth discussing is a pollinator habitat project for densely urban, Glendora, California. This student opted to trace every portion of vegetation from an aerial imagery (Google 2021c) map using Illustrator (Adobe 2021b). This process, at this scale was painstaking and took several days, but the results are fascinating. They were able to capture the distribution of vegetation through this highly urbanized area. We realized that even the proportion of green spaces were visible between neighborhoods at this scale (further studies should be done to inspect the degree to which this could affect pollinator availability between different density greenspace neighborhoods). Moreover, this project helps to show the proportion of vegetated space versus hardscape in very urbanized areas. This is an important factor for how much area could even be potentially converted to pollinator habitat. This project could have been stronger by identifying how far their focal bee could travel and/or possibly occupy habitat patches within this map. Additionally, this project lacks a vision that the previous one, Figure 5, showed for implementation in typical design situations. However, the attention to detail in mapping green space was outstanding and should not be overshadowed by these constructive criticisms. Finally, this sort of mapping technique, if used in GIS could be very helpful for improving the urban pollinator network and quantifying existing conditions as well as potential habitat modifications.

By applying landscape categorizations to real landscapes, it was possible to graphically demonstrate how bees perceive the greater landscape. Only then, once habitat deficiencies are identified can designers go about fixing habitat short-falls. How different bee genera experience the same landscape will also be important to understand and see spatially, as dynamic landscapes create geographic isolation or continuity depending on bee genera. Future studies should work to untangle how urban habitat performs; provides habitat for various focal bees.

6 DISCUSSION

This research focuses on developing the field of landscape architecture to better aid in bee conservation design at multiple scales. My goal is to build resilient pollination landscapes for the future. As a profession we must invest in helping stabilize landscapes and their functionality or the effects climate change could be much worse. Climate change is causing ecological stress for bees, both in terms of environmental, including phenological, mismatches (Barthomeus et al., 2011; Beard et al., 2019), but also in terms of increased physiological issues, including bee body temperature. Bees are keystone species and conserving them, saves so much more than just bees. Pollination functionality underlines the very basis for nearly all terrestrial ecosystems on Earth. Every day, landscape architects and designers create plans to change Earth's lands and with every plant they choose, they either provide foraging habitat for a bee… or not. Planting designs need to serve functional pollination purpose, to feed the local (micro)fauna. Landscape designers, should put an emphasis on bee conservation now to hopefully preserve and prioritize pollination ecosystem services. Strategic solutions to habitat deficiencies, education and also raising public awareness are all important for resilient landscapes. Now is the time to act. Its time to make great strides in educating not only the new generations of designers, but also, with the greater public. Through implementing designs that celebrate local pollinator diversity, biology, and ecology, we can help to support nature's and our own, human, future as well.

6.1 POLLINATOR PLANT PALETTES

For the last decade or so, horticultural and landscape researchers have been developing sustainable California plant varieties and palettes. Most research on sustainable themes has been completed on low water use landscape plants, but more recently, wildlife friendly too. Field trials for future suitable plants have been completed to help identify, promote and produce climate suitable plantings (Reid and Oki 2008; UC Davis Arboretum 2018; Hartin et al., 2018). For over a decade the UC Davis Arboretum and Public Garden has placed a strong emphasis on using drought tolerant plants, regardless of their geographic origin, the published list being called "The

Arboretum All-Stars." Notably, many of these plants, of non-California origin exhibit traits which this research project has found are also attractive to and functional for foraging native bees. Importantly, this plant palette (i.e., the All-Stars) has been carefully crafted to first prioritize low water use, which is an essential quality facing California's Central Valley future facing climate change (Houlton and Lund 2018).

Consider that in similar urban butterfly studies, it is estimated that around 40% of native host plants which once existed in the California Central Valley habitat areas no longer exist where they once grew and exotic species now provide essential host plant habitat (Shapiro 2002). Thus, it is inappropriate to attempt to eradicate all non-native plants, as many are currently native bee foraging resources. The non-invasive exotic plants that native bees currently use may provide important habitat resources in the future if native plants cannot survive extreme climate change, while the exotic species may be more resilient.

6.2 CONSERVING POLLINATION FOR RESILIENT LANDSCAPES

Preserving and enhancing pollination ecosystem services are extremely important in landscapes facing great uncertainties with climate change. Ecosystem services are a tool which can be used to help buffer the negative effects of drought, extreme storms, increased or decreased precipitation.

Pollination ecosystem services are infrastructure and essential not only for conservation, nature and biodiversity, but also for much of the food humans depend on (MEA 2003). Between one-third (USDA 2021) and two-thirds (Xerces Society 2011) of the food we eat is the result of insect pollination. Aside from that, the next top priority in California should be water conservation. While pollinator plant lists exist, it is important to explore their success in a real-world setting and examine which ecological aspects could still be improved upon. Ecologically, landscape design can be used to provide and promote bee habitat and connectivity of habitat.

6.3 LANDSCAPE DESIGN IDEAS FOR BEES

The main goals are to create and enhance bee habitat in anthro-centric landscapes.

6.3.1 SHOW AND EDUCATE SITE VISITORS ABOUT SPECIAL BEES (Figures 1).

Showcase an interesting aspect of their life cycle or physical structure (i.e., biological, ecological, morphological). Make learning accessible to a variety of humans across a 'mixed life' gradient. This is a potential opportunity for botanic garden display application.

6.3.2 "SEE LIKE A BEE" MICRO-SITE DESIGNS (Figures 3 and 4).

Graphically showing examples of how various be genera would value aspects of a site and its plantings is another way to increase landscape literacy. For example, perhaps a bee has preferred plantings, but paved areas, skyscrapers and water bodies offer little to no habitat value from a bee's perspective. Help educate project viewers on how bees look at the landscape.

6.3.3 DESIGNING BEE "BOXES" FOR CAVITY NESTING BEES.

Explore educational, exciting designs in for a botanic garden setting (some something similar, for example a school or community garden sites). Showcase the unique, fascinating, and/or amazing nesting habits.

6.3.4 DESIGN A SEED LIBRARY.

Alone, each seed library has the potential to affect the surrounding habitat value for bees. Extrapolating the network of seed libraries has the potential for improving pollinator habitat in otherwise difficult (or impossible) land cover. In this way, healthy pollinator metapopulations can overlap with human populations for resilient landscapes. With the aid of iNaturalist (iNaturalist 2021) identifications, neighborhood level projects could be completed with nearly all citizen science footwork. This process has already begun by author KC with bee identifications made to the species level by top bee researchers in the field (see beelandscapes 2021; Free Pollinator Seed Library 2021 for updates and current information).

6.3.5 PLAYING WITH CONTRASTING BEES THROUGH DESIGN.

Landscape designs which feature two contrasting bee genera have the potential to demonstrate the variety of local bees. Comparisons could be made between biological (feeding/nesting/travel distance), ecological (only found in certain areas? Very fine of broad niche?), or morphological (unique body feature). The experiential effect on site visitors could be fascinating and memorable.

6.3.6 RETROFITS OF YARDS AND OTHER COMMON LANDSCAPE TYPES.

Many residential and commercial land areas are dated and lacking ecological value. Updating the designs of yester-year represent a smorgasbord of opportunity for retro-fitted design integration. While design “elements” (bee ‘box’, watering area, signage, etc.) show promise for aiding in pollinator design we can do better, be more wholistic. Design to maximize bee habitat in any site would be the best, resilient plan for the future. Building roofs, walls, and land could all be tailored for bees.

6.3.7 CONNECT THE COGNITIVE DISCONNECT, INCREASE LANDSCAPE LITERACY (Figures 1 through 3). Better bee habitat designs don’t necessarily speak for themselves. To the average person, even with the best bee plants possible, the design of, say an empty lot, may look "messy" and be overlooked or even disliked. The best designs help to "tell" about themselves, to help site visitors gain landscape literacy. Sites which are experiential, share information, are memorable and/or interactive are the most desirable designs. When people understand ecology, they will value it. The contrary is also true. Recently, in East Vancouver, Canada, there was a news article titled, "Overgrown grass in an East Vancouver park meant to attract bees is attracting complaints too" (CBC 2021). Projects were marked with signs, but this was not enough. Residents do not understand or value prairie lands and are "…concerned there's more hidden in the tall, dry grass than just butterflies and bees". This is what we are facing as designers. This is how little ordinary citizens understand about their local environments. We need to show site visitors about their local environments. We need help the public to become stewards of nature instead of turf grass obsessed visitors, illiterate to the landscape surrounding them.

6.3.8 TACKLING POLLINATOR HABITAT FRAGMENTATION HEAD-ON, DESIGNING BEE LANDSCAPE NETWORKS (Figures 4 and 5). Designing for one garden for pollinators is good, but designing more green space is even better. How does the habitat look at the neighborhood scale? How do the patches of vegetation contribute to the area's habitat as a whole? How does this vary between bee types?

6.4 STUDY LIMITATIONS

A portion of the student projects in this paper were completed during the Coronavirus pandemic in 2021. Unfortunately, some classes could not be held in-person due to pandemic restrictions. Thus, some lectures and coursework were done online. Students missed out on building their design ideas in-person, which would normally be a component of this type of class. All of these designs could be evaluated further to help augment a design process with iterations of improvement.

This chapter suggests further urban bee ecology studies could be done to examine the degree to which urban and suburban areas act as habitat for native bees, in all ecological aspects. For example, the levels to which bee predation, parasitism and other ecological and biological processes vary with urban versus wild bees. Another potential future area of study should try to determine which bee population's genetics are affected by habitat fragmentation. Though in this study we determined where habitat fragmentation and gaps occur, genetics would be another way to investigate this problem. Bee genera should be studied genetically over a landscape scale to help quantify how isolated habitat patches are, but that is beyond the scope of this research project.

7 CONCLUSIONS

This research project emphasizes how bees offer much in ecosystem services (Wojcik et al., 2008; Pawelek et al., 2009; Frankie et al., 2009), no matter if 'novel' or 'wild.' In the end, conservation of bee's pollination ecosystem services is key to our own (human) quality of life and should not be an issue taken lightly. Bee habitat design solutions will address the importance of focal bee target specificity, gap analysis results and what to do with that knowledge. Once spatial and temporal habitat gaps are determined, strategic plant solutions can be determined. Design alternatives should focus on selecting the best possible plants to maximize floral resource improvement. Stand-alone singular garden designs are well meaning, but not enough on their own, they need to be linked together into a functional network.

Furthermore, protecting bees and their ecosystem services means conserving an entire suite of insects and considering their habitat requirements in the process. Thus, the need for selecting promising focal species that can achieve the ecosystem services which we prefer. Selection of an umbrella species, for conservation of a suite of bees may be a viable option for conservation, as has been done with larger animals (Lambeck 1997). This research discussed this concept, however it should be studied and explored more.

The amazing suite of bees found in our local landscapes each have their own perspective on what habitat is suitable or not, close enough, or too far away. This research has shown that some gardens provide bees with excellent source habitat and improvement of the greater urban habitat is necessary to improve resilient bee habitats. Current bee-plant lists have been understudied and hold an important role in regard to how bee conservation should be handled moving into the future. Humans depend greatly on the ecosystem services provided by bees. Pollination is an ecosystem service that is vital to humankind and must be protected. Informed habitat design presents an opportunity to create resilient bee landscapes for bees, humans, ecosystems, and the future of our Earth.

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Resilient Design for Native Bees

by Kim Chacon

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beelandscapes.com

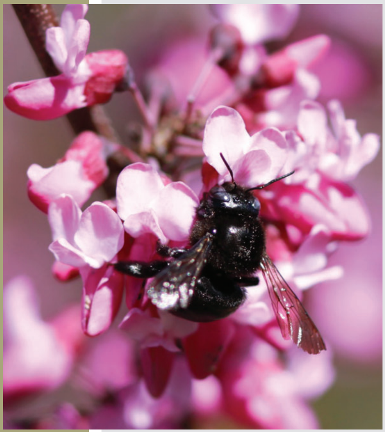
Diadasia

A Quick Background on Native Bees

Honey bees are weird….

Native bees are essential.

Native bees are small, docile, & males cannot sting.



Xylocopa on *Cercis*

Who are the native bees? Very diverse!

Population numbers:

~20,000 species total in World

~4,000 species in North America

~2000-1600 species in CA

17 Genera/ 46 species are common in CA

Examples of native bee diversity in North America (Carril & Wilson)

https://www.beesinyourbackyard.com/

Making Sense of **Bee Diversity**

Of California's common 17* bee genera
(46 species)

**Some Genera exhibit more than one trait*

Nesting

- **13 Solitary**
- 7 Communal/Aggregates
- 2 Social

Feeding

- **10 Generalist**
- 4 Specialist
- 2 Both Generalist and Specialist
- 1 unknown
- **ALL utilize both Nectar and Pollen**

Foraging range (females to nests)

- 1 very high, 3218 m (2 miles)
- 2 high, 1609m (1 mile)
- **9 mid, 365-457m (0.22-0.28 mile)**
- 5 low, 182m (0.11 mile)

Apis mellifera, Melissodes and Halictus on *Gaillardia*

CELA | Kim Chacon | 2022

4

Humans need bees

Bees are the most efficient and therefore important group of pollinators.

Habitat fragmentation is often cited as the main threat to native bees.

To stabilize ecosystem services we need to design landscapes for bees!


Diadasia

Dissertation Research Background

Accepting CHANGE.

Designing for the FUTURE.

Anthophora on *Vitex*

Dissertation Research Focus

Priority area focus:

Improving habitat in cities for pollinators (bees)

Objectives:

Understand bee habitat fragmentation & connectivity

Reduce spatial & seasonal bottle-necks

Increase quality of floral resources

Increase pollinator diversity

3 specific areas of inquiry:

Phenological Mapping Model

Bee Habitat Map Analysis

Designing for Bees

Halictus on *Taraxacum*

Landscape Ecology Core Concepts

1) Landscape Structure
2) Landscape Function
3) Landscape Change

Dissertation Research Results

UCD Arboretum provides novel bee habitat.

Native bees use non-native plants.

Two gardens out performed all others.

Lasioglossum on *Clarkia*

Research Results

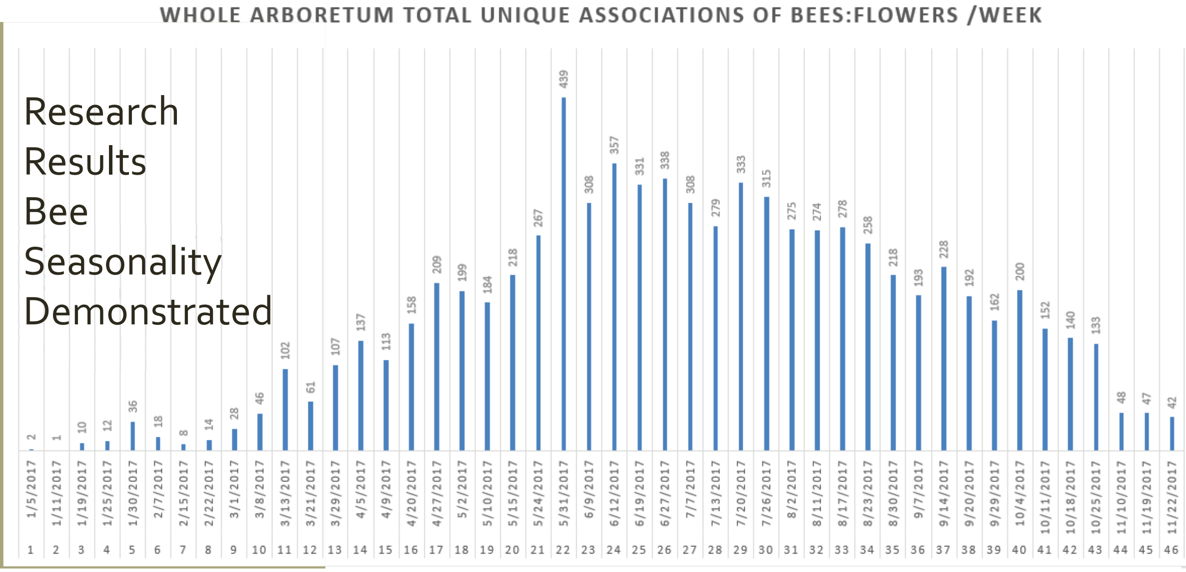
27 bee genera:

Agapostemon
Andrena
Anthdiellum
Anthidium
Anthophora
Apis
*Ashmeadiella**
Bombus
Ceratina
Coelioxys
Diadasia
*Eucera**
*Habropoda**
Halictus
*Hoplitis**
Hylaeus
Lasioglossum
Megachile
Melissodes
Nomada
Osmia
Peponapis
*Sphecodes**
*Stelis**
Svasta
Triepeolus
Xylocopa


Melissodes

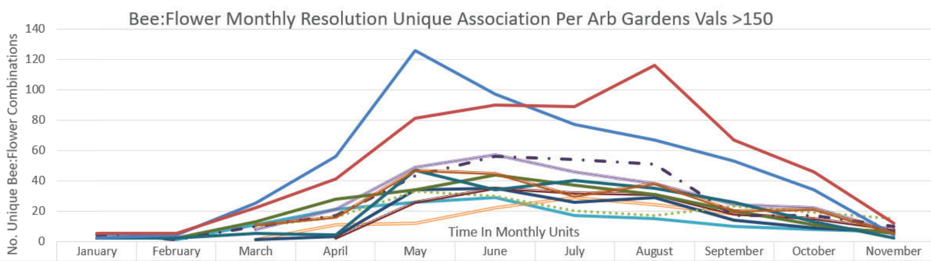
* Denotates bee genus rarely encountered

Research
Results
Bee
Seasonality
Demonstrated



Research Results

Which gardens were best habitat?

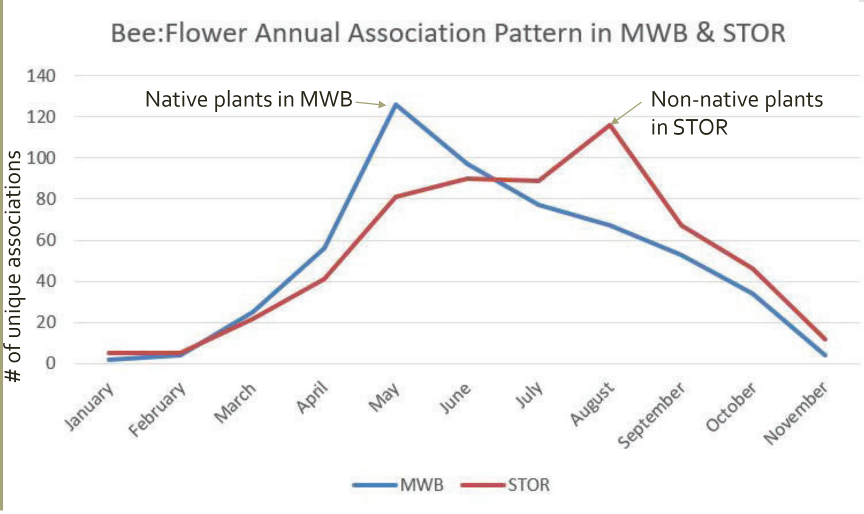


	January	February	March	April	May	June	July	August	September	October	November
AUST-N	5	1	11	21	26	29	17	15	10	8	6
AUST-S			8	21	49	57	46	38	24	22	6
CONI			1	11	12	22	29	24	18	15	
EASI			1	3	34	35	26	29	14	9	6
ENTR	4		10	16	33	30	20	17	23	19	15
GATE				2	26	35	32	31	18	15	8
GAZE	2	2	13	28	34	44	37	31	20	11	5
MEDI	4	1	10	17	43	56	54	51	17	17	10
MRAK	2	2	5	4	47	34	40	35	26	13	2
MWB	2	4	25	56	126	97	77	67	53	34	4
STOR	5	5	22	41	81	90	89	116	67	46	12
SWUS			11	16	47	45	30	38	20	21	5

AUST-N AUST-S CONI EASI ENTR GATE GAZE MEDI MRAK MWB STOR SWUS

Research Results

Which gardens were best habitat?



Research Results

Characteristics of best bee habitat gardens:

Mary Wattis Brown (MWB) Native plant garden

California native plants

Drought tolerant

Part of original local ecosystem

Ruth Storer (STOR) Arboretum All Star garden

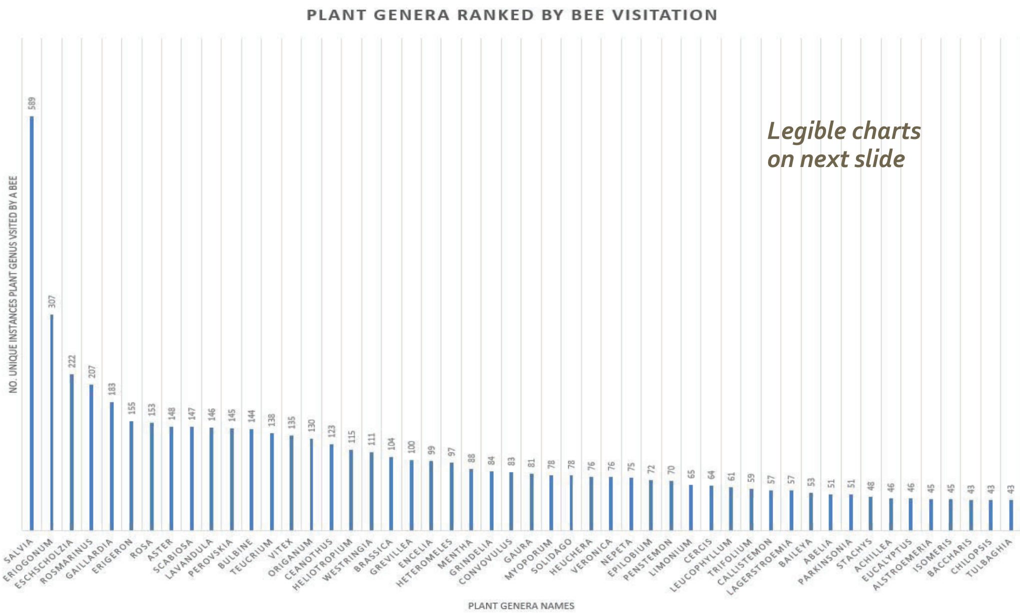
Geographic source variability

Drought tolerant

Long bloom times, Novel Ecosystem

Research Results

__7,788__ unique bee-to-flower association events, __303__ plant genera



Legible charts on next slide

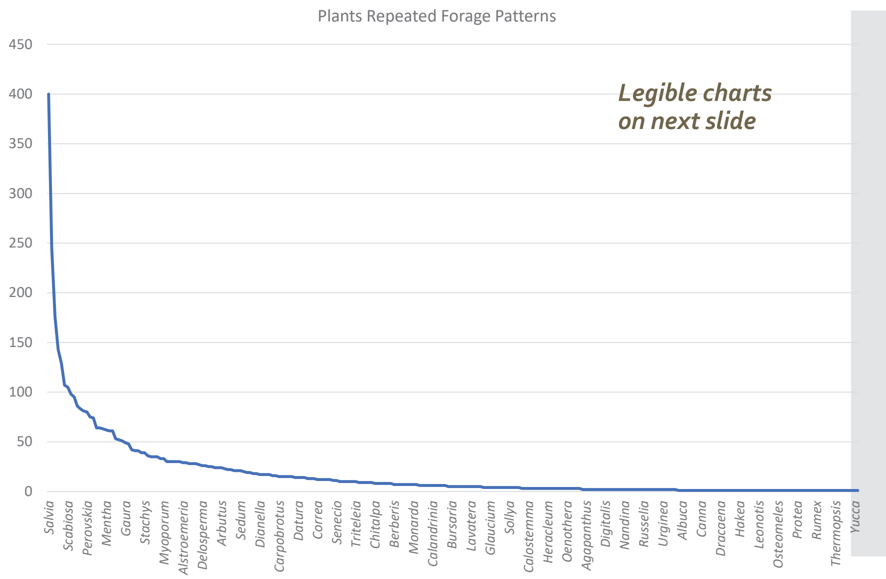
Best plants for ALL bees (per KC's research)

Higher numbers = more bee visits

Salvia	589	*Gaura*	81	*Sedum*	41	*Hebe*	27	*Iris*	16
Eriogonum	307	*Myoporum*	78	*Bahiopsis*	39	*Balotta*	26	*Carpobrotus*	15
Eschscholzia	222	*Solidago*	78	*Cistus*	39	*Acacia*	24	*Ceratostigma*	15
Rosmarinus	207	*Heuchera*	76	*Sphaeralcea*	39	*Acmispon*	24	*Clematis*	15
Gaillardia	183	*Veronica*	76	*Tecoma*	39	*Lavatera*	24	*Lonicera*	15
Erigeron	155	*Nepeta*	75	*Arbutus*	37	*Lupinus*	24	*Melaleuca*	15
Rosa	153	*Epilobium*	72	*Euryops*	37	*Agastache*	22	*Mytrus*	15
Aster	148	*Penstemon*	70	*Asclepias*	36	*Duranta*	22	*Allium*	14
Scabiosa	147	*Limonium*	65	*Delosperma*	36	*Koelreuteria*	22	*Aloysia*	14
Lavandula	146	*Cercis*	64	*Thymus*	36	*Abutilon*	21	*Berberis*	14
Perovskia	145	*Leucophyllum*	61	*Centaurea*	35	*Tipuana*	21	*Cephalanthus*	14
Bulbine	144	*Trifolium*	59	*Chitalpa*	35	*Hibiscus*	20	*Leonotis*	14
Teucrium	138	*Callistemon*	57	*Fremontodendron*	35	*Nolina*	20	*Arctostaphylos*	13
Vitex	135	*Lagerstroemia*	57	*Geranium*	35	*Datura*	19	*Craspedia*	13
Origanum	130	*Baileya*	53	*Eremophila*	34	*Ipomoea*	19	*Protea*	13
Ceanothus	123	*Abelia*	51	*Kickxia*	34	*Opuntia*	19	*Rhigozum*	13
Heliotropium	115	*Parkinsonia*	51	*Eriophyllum*	33	*Dianella*	18	*Chaenomeles*	12
Westringia	111	*Stachys*	48	*Apocynum*	32	*Ozothanmus*	18	*Hesperaloe*	12
Brassica	104	*Achillea*	46	*Oxalis*	32	*Tagetes*	18	*Phacelia*	12
Grevillea	100	*Eucalyptus*	46	*Verbena*	32	*Correa*	17	*Rhamnus*	12
Encelia	99	*Alstroemeria*	45	*Buddleja*	31	*Larrea*	17	*Sonchus*	12
Heteromeles	97	*Isomeris*	45	*Madia*	31	*Senecio*	17	*Aesculus*	11
Mentha	88	*Baccharis*	43	*Ruellia*	31	*Triteleia*	17	*Cneorum*	11
Grindelia	84	*Chilopsis*	43	*Prunus*	30	*Apentia*	16	*Erythrina*	11
Convovulus	83	*Tulbaghia*	43	*Echinacea*	29	*Dendromecon*	16	*Mimosa*	11

Best plants for ONLY native bee results (w/o honey bees)

Plant recommendations



Best plants for NATIVE BEES (per KC's research)

Higher numbers = more bee visits

Salvia	400
Eriogonum	245
Eschscholzia	176
Gaillardia	143
Erigeron	129
Rosmarinus	107
Scabiosa	105
Heliotropium	98
Encelia	95
Vitex	86
Westringia	83
Grindelia	81
Perovskia	80
Ceanothus	75
Bulbine	74
Rosa	64
Solidago	64
Convovulus	63
Mentha	62
Brassica	61
Heteromeles	61
Lavandula	53

Origanum	52
Grevillea	51
Gaura	49
Limonium	48
Veronica	42
Heuchera	41
Penstemon	41
Leucophyllum	39
Stachys	39
Teucrium	36
Lagerstroemia	35
Parkinsonia	35
Sphaeralcea	35
Bahiopsis	33
Myoporum	33
Aster	30
Baileya	30
Euryops	30
Kickxia	30
Tecoma	30
Alstroemeria	29
Madia	29
Achillea	28

Baccharis	28
Tulbaghia	28
Cercis	27
Delosperma	26
Eriophyllum	26
Epilobium	25
Isomeris	25
Abelia	24
Acmispon	24
Arbutus	24
Echinacea	23
Centaurea	22
Lupinus	22
Nepeta	21
Ruellia	21
Sedum	21
Apocynum	20
Asclepias	19
Hebe	19
Chilopsis	18
Ozothanmus	18
Dianella	17
Eremophila	17

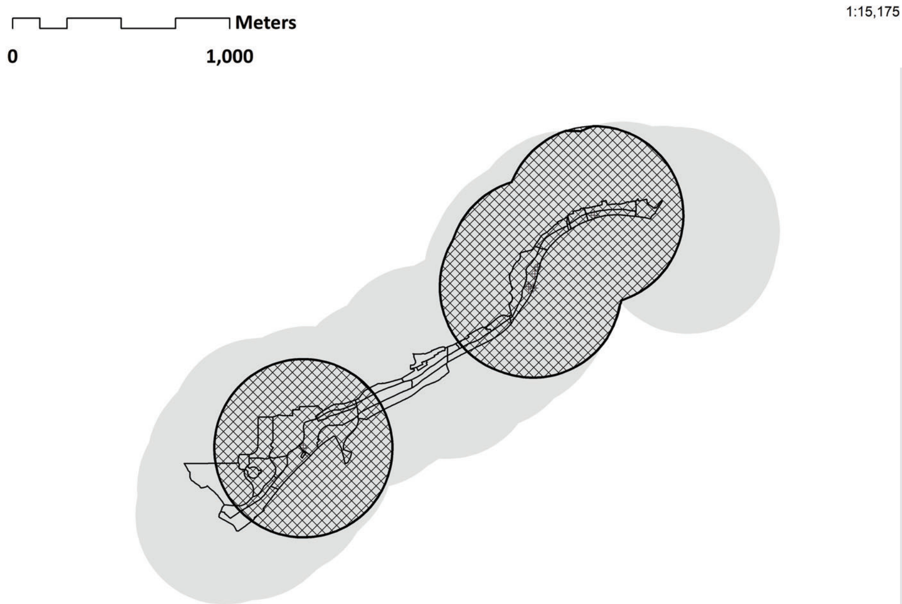
Opuntia	17
Trifolium	17
Agastache	16
Cistus	16
Carpobrotus	15
Dendromecon	15
Fremontodendron	15
Iris	15
Nolina	15
Ballota	14
Datura	14
Ipomoea	14
Oxalis	14
Callistemon	13
Eucalyptus	13
Geranium	13
Correa	12
Sonchus	12
Tagetes	12
Tipuana	12
Verbena	12
Craspedia	11
Senecio	11

Abutilon	10
Archtostaphylos	10
Buddleja	10
Hibiscus	10
Phacelia	10
Triteleia	10
Aquilegia	9
Athanasia	9
Larrea	9
Rhigozum	9
Thymus	9
Chitalpa	8
Geum	8
Lonicera	8
Melaleuca	8
Prunus	8
Solanum	8
Berberis	7
Chrysanthemum	7
Clarkia	7
Clematis	7
Eryngium	7
Helianthus	7

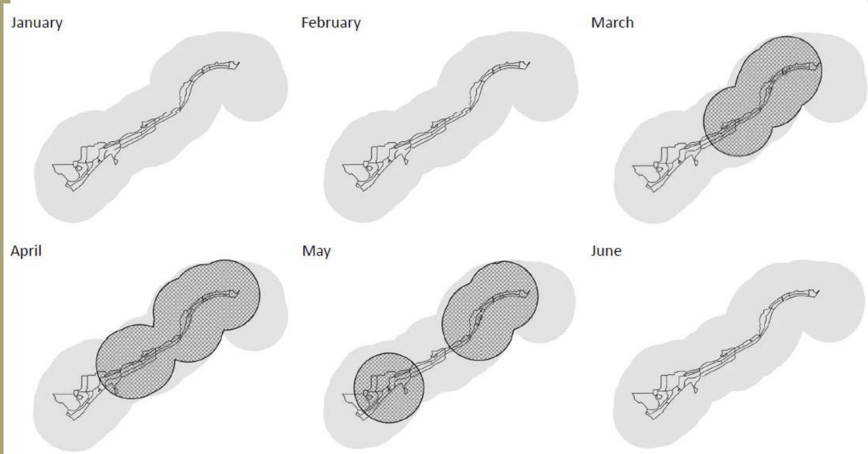
Research Mapping Results

Bee habitat fragmentation requires spatial solutions at the landscape scale.

An example of *Eucera* bee habitat niche analysis

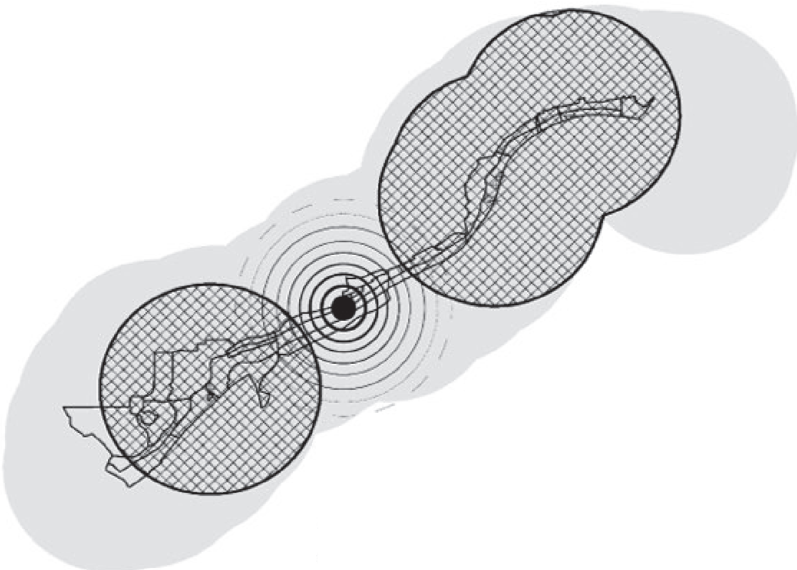


Eucera possible vs. realized niche over time



Implications of singular plant patterns over a landscape

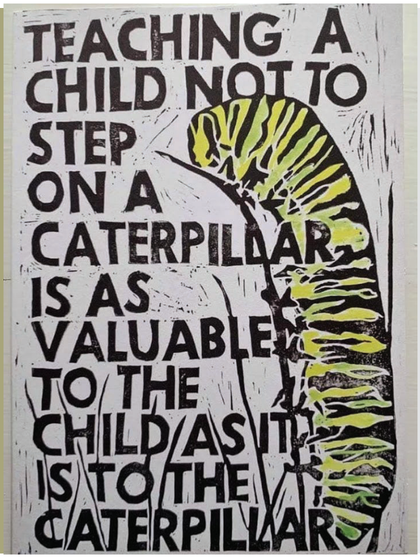
Strategic spatial habitat solutions



The Future of Ecological Design Theory

Accepting CHANGE.

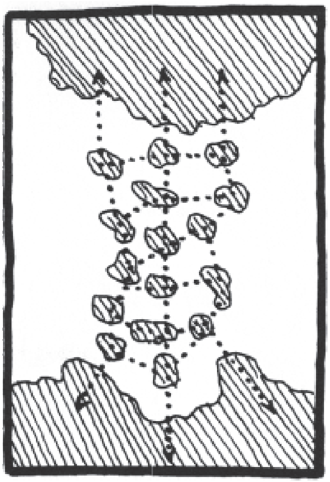
Designing for the FUTURE.



Dealing with Habitat Fragmentation

Corridors are species specific solutions

Increase connectivity and circuitry

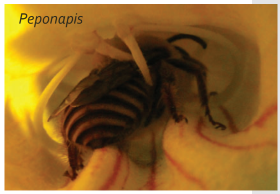


Dramstad et al. *1996*

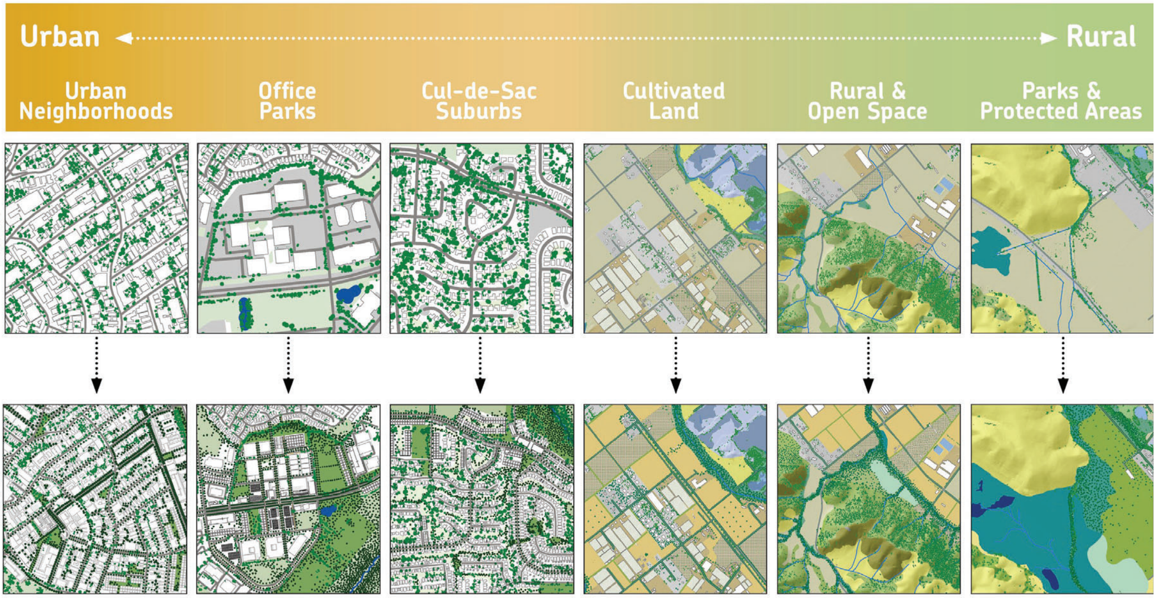
Accepting Change

Create resilient systems

Adapt where necessary



Design for Resiliency… in many ways, across many landscapes over a long time.



San Francisco Estuary Institute and the Aquatic Science Center

25

DESIGNING for bees should…

(1) Reduce spatial & seasonal bottlenecks, increase the diversity of pollinators in the landscape, & increase the quality of floral resources

(2) Deliver a message through clever and attractive design to the general public

(3) Be sensitive to local conditions

(4) Explore and **celebrate local pollinators'** diversity

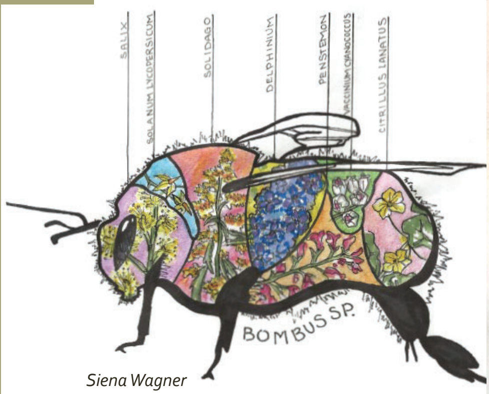
Bee roof image my karenmade.com

Ecological Design
Student Work
Landscape Architecture
LA 432
2 day design exercises

Winter, Spring and Fall of 2021

LA 432
2 day exercise

SHOWing bee foraging preferences based on science



Siena Wagner

Bethany Shalesky

LA 432
2 day
exercise

SHOWing
bee foraging
preferences
based on
science

Jose Andrade

LA 432
2 day
exercise

SHOWing
bee foraging
preferences
based on
science

Jocelyn Figueroa

LA 432
2 day exercise

Creating scientifically based bee conservation images

Cherry Tsang

LA 432
2 day exercise

Creating scientifically based bee conservation images

Bethany Shalesky

LA 432, F'21

2 day exercise

Promoting scientifically accurate bee diet plants

Emma Smolik

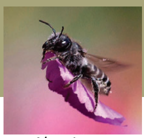
LA 432
2 day exercise

Creating scientifically based bee conservation images

Joshua Schottstaedt

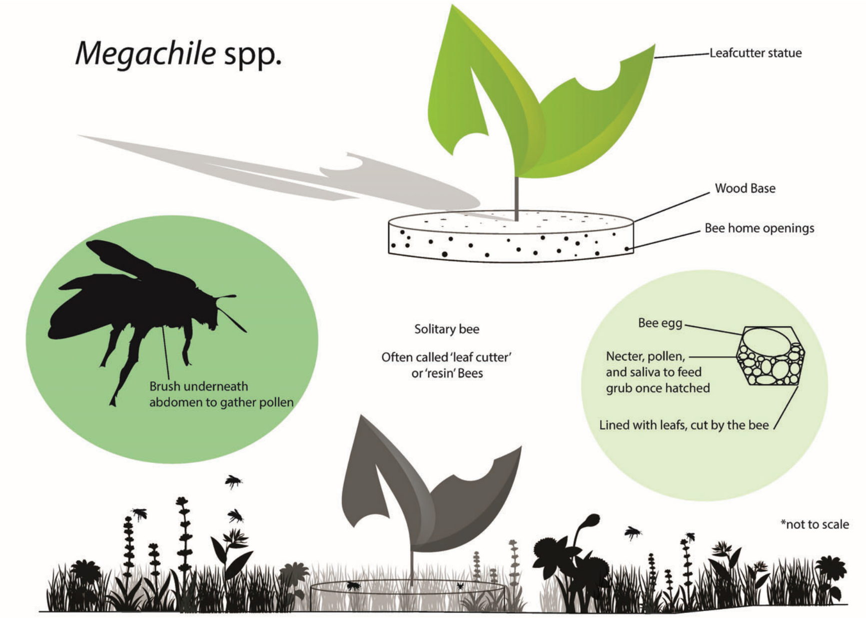
LA 432
2 day exercise

SHOWing site visitors about a native bee genus



Alan Jones

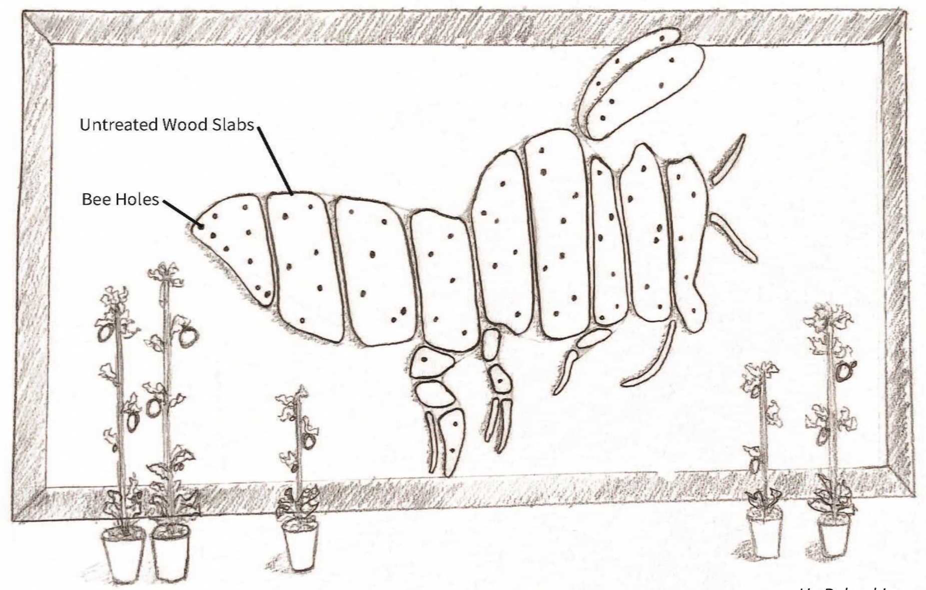
Richard W Teichler



Haleem Alrawi

LA 432
2 day
exercise

SHOWing
about a
native bee
genus
NESTING



Lia Delucchi

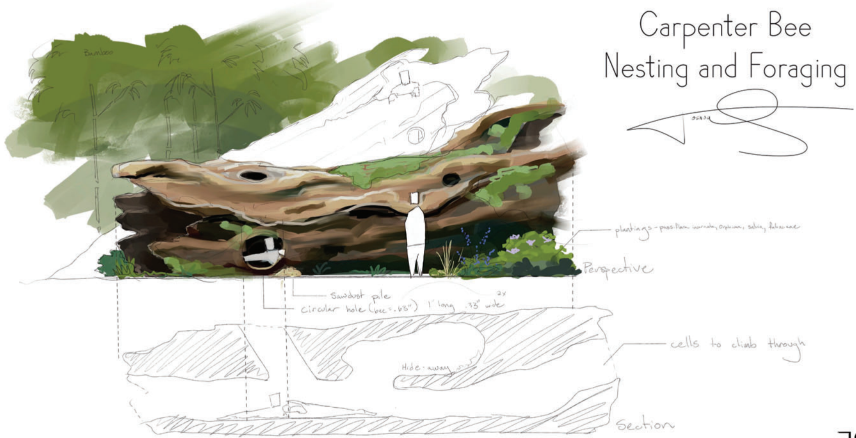
LLC
Spin-off of
Lia's idea

SHOWing
about a
native bee
genus
NESTING

Zach Kirchwehm

LA 432
2 day exercise

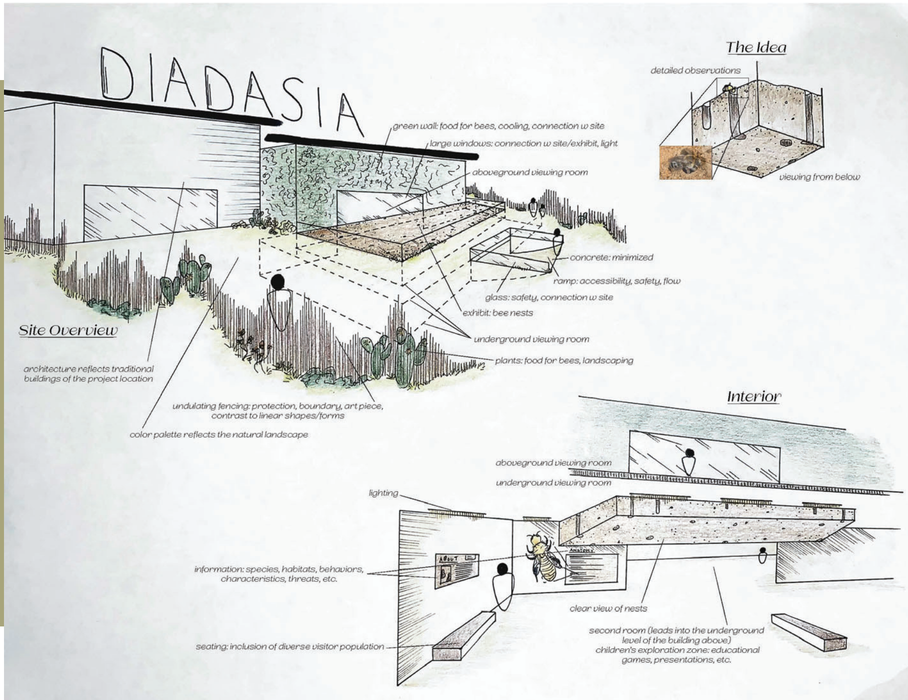
SHOWing site visitors about a native bee genus



Joshua Schottstaedt

LA 432
2 day
exercise

SHOWing
about a
native bee
genus
NESTING



Lisa Voong

39

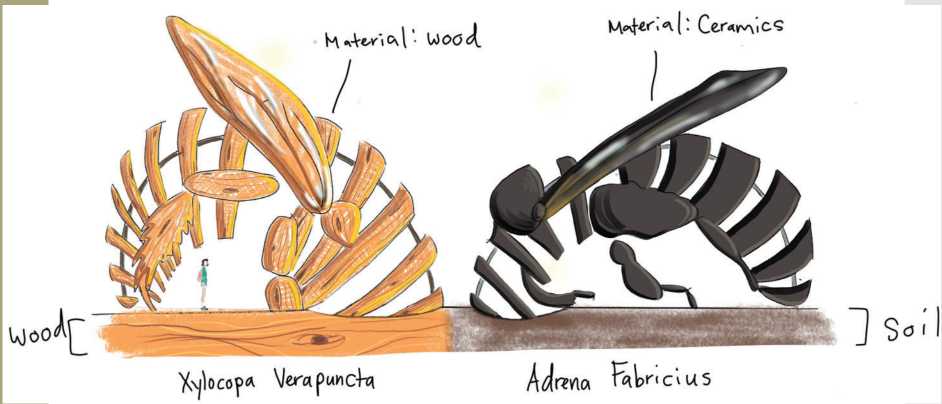
LA 432
2 day
exercise

Designing for Contrasting Bees

Ayden Sabharwal

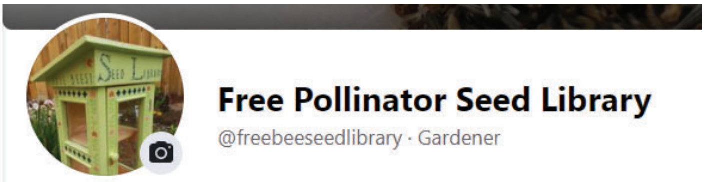
LA 432
2 day exercise

Designing for Contrasting Bees



Lou Lou Twietmeyer

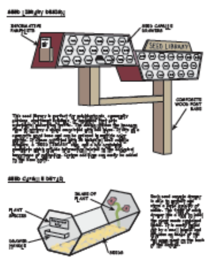
LA 432
2 day exercise
Seed Library Designs



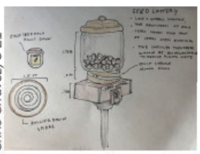
Like!
Follow!

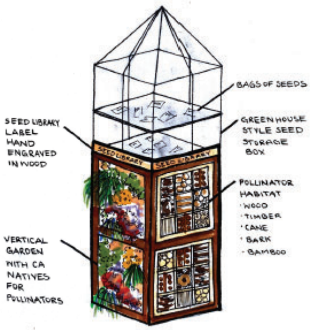
Help make a bee habitat network!

Shen Brewer, S'21



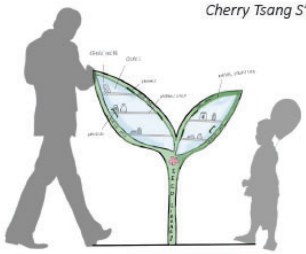
Chris Chavez, S'21



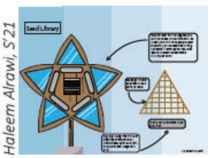


Siena Wagner S'21

Cherry Tsang S'21

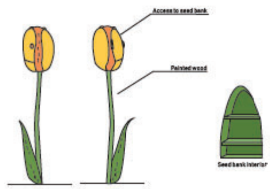


Haleem Alrawi, S'21



Chad Schuler, S'21

Connor Hatch, S'21



LA 432

2 day exercise

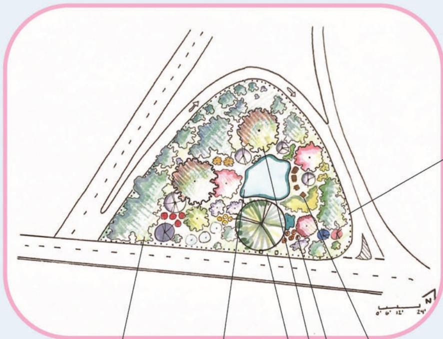
Pollinator Habitat Retrofit

EXERCISE 1: RETROFIT A YARD OF YOUR CHOICE

Site location: Open Lot near California Exit off of 101-N

Georgia Bracchi
LA 432
Spring 2021
P. Chacon

BUSY BEE PRESERVE



SITE INVENTORY/ANALYSIS

Very windy from freeway traffic	Will need wind protection, dense planting
Existing trash and abandoned belongings from old homeless camps	Will need thorough pickup and repair damaged soil
Existing hardy/drought tolerant trees and shrubs	Preserve and add a gradient to flowering perennials
Very low water availability, high sunlight	Implement low water use plants
Noise from traffic on all sides	Dense planting on edges and flowering plants in center

PLANT PALETTE SNAPSHOT

- Helicanthus multiflorus
- Lavandula angustifolia
- Sinapsis arvensis
- Eschscholzia californica
- Eriogonum fasciculatum
- Quercus agrifolia

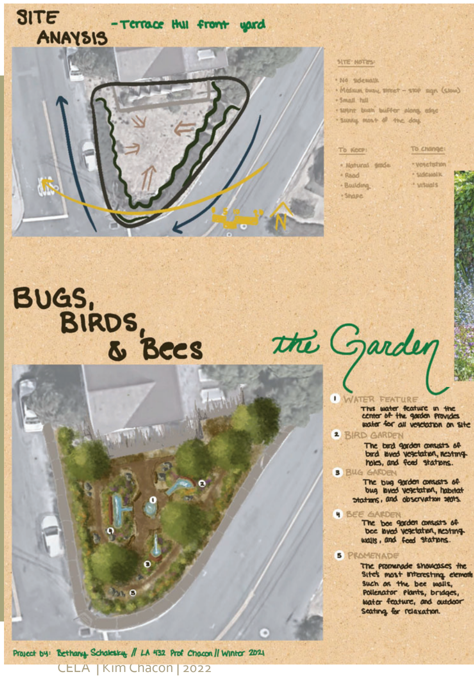
In San Luis Obispo, most flowers bloom in spring, leaving summer dry and hot. Implemented plants will bloom through/during summer to ensure ample nectar and pollen supply.

CELA | Kim Chacon | 2022

Georgia Brachhi

LA 432
2 day exercise

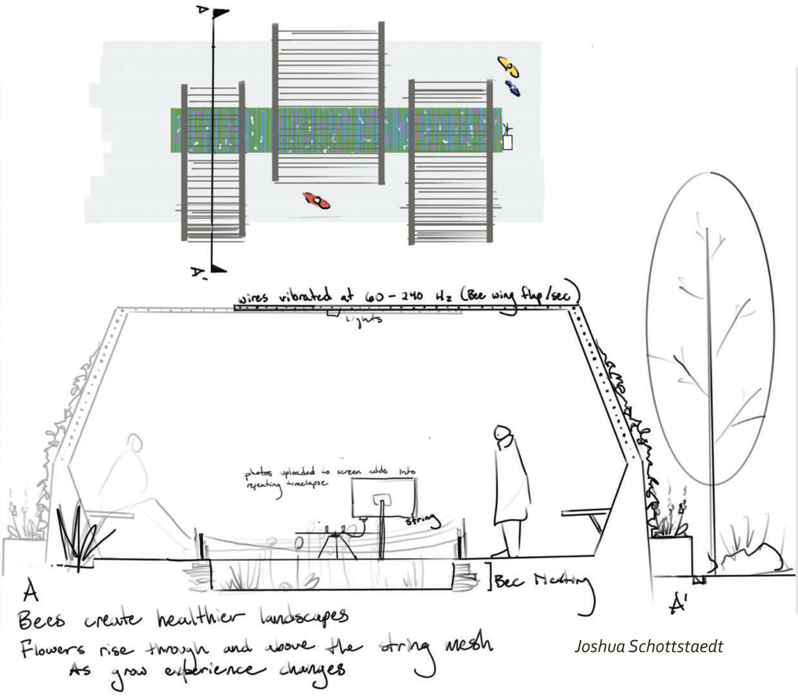
Pollinator Habitat Retrofit



Bethany Shalesky

LA 432
2 day exercise

Bee Vision Engaging Landscape Design



Joshua Schottstaedt

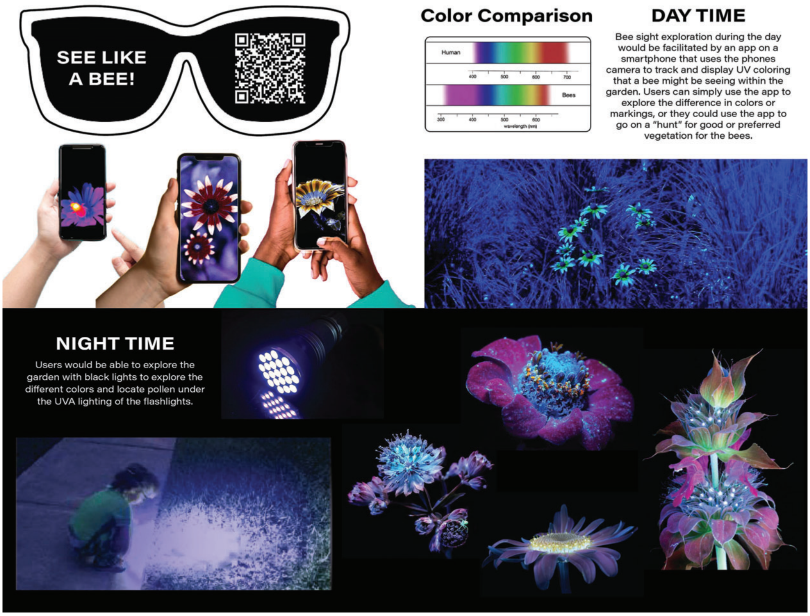
LA 432
2 day exercise

Bee Vision
Engaging
Landscape
Design

Hisham Houssain

LA 432
2 day exercise

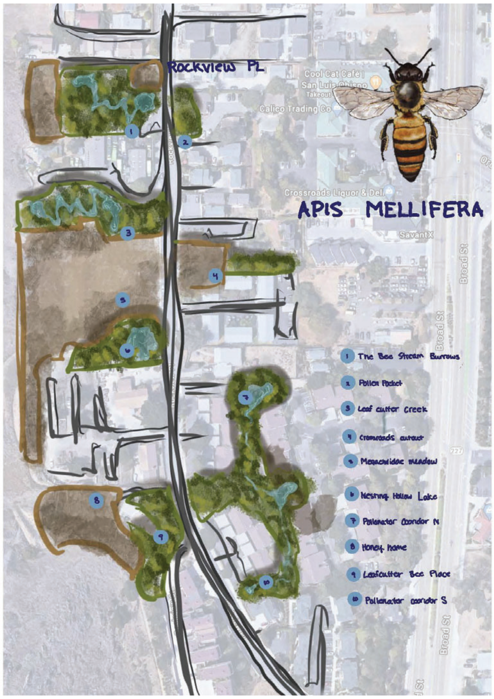
Bee Vision
Interactive/
Engaging
Design



Emma Smolik

LA 432
2 day exercise

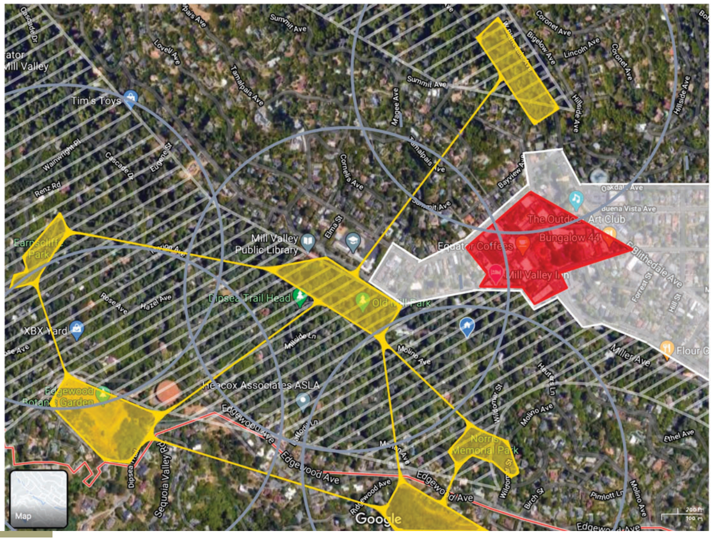
Bee Habitat Network Diagraming



Bethany Shalesky

LA 432
2 day exercise

Bee Habitat
Network
Diagraming

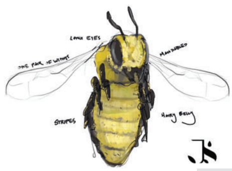


Mill Valley Green Space Analysis

Designated Open Space | Foraging Radius | Intensive Paving | Redwood Forest | Suburban

Native Bee Genera - Megachile
Foraging habits - generalists
radius of .25 miles

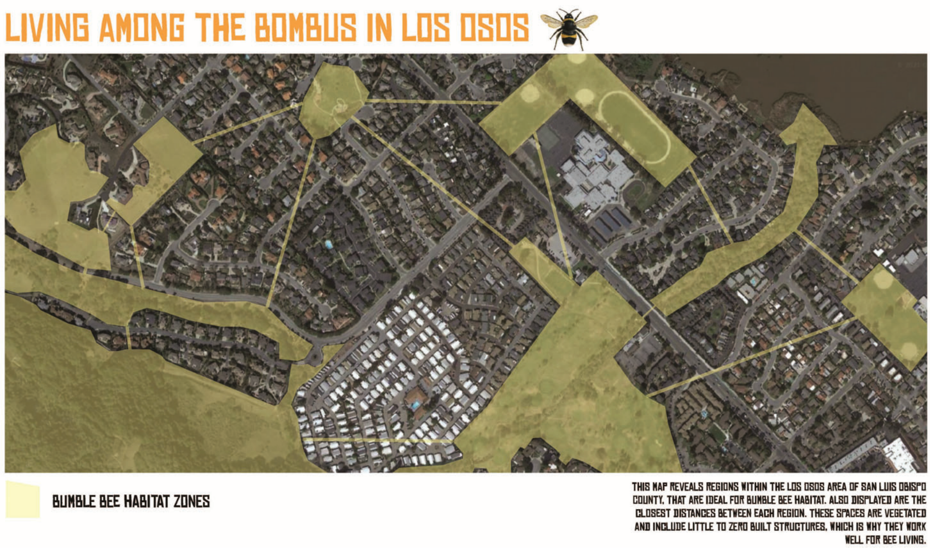
Despite most of Mill Valley being dominated by green space, it's either redwood stands or grasslands. Some grass lands have occasional wildflowers mixed in but it's spread thin. Further on the ground analysis would have to be conducted to understand the flora make up within the green spaces and residential gardens.



Joshua Schottstaedt

LA 432
2 day exercise

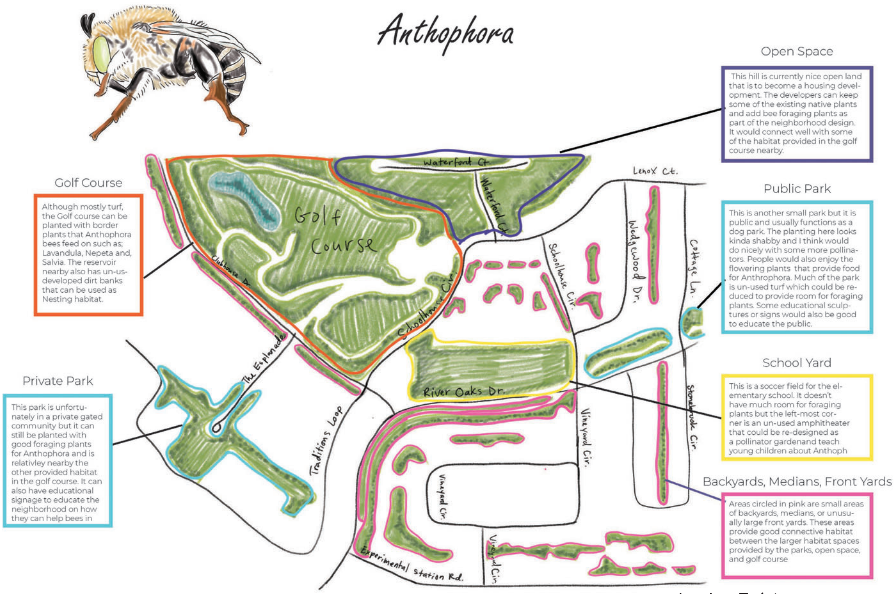
Bee Habitat Network Diagraming



Sumandar Khan

LA 432
2 day exercise

Bee Habitat Network Diagraming



Lou Lou Twietmeyer

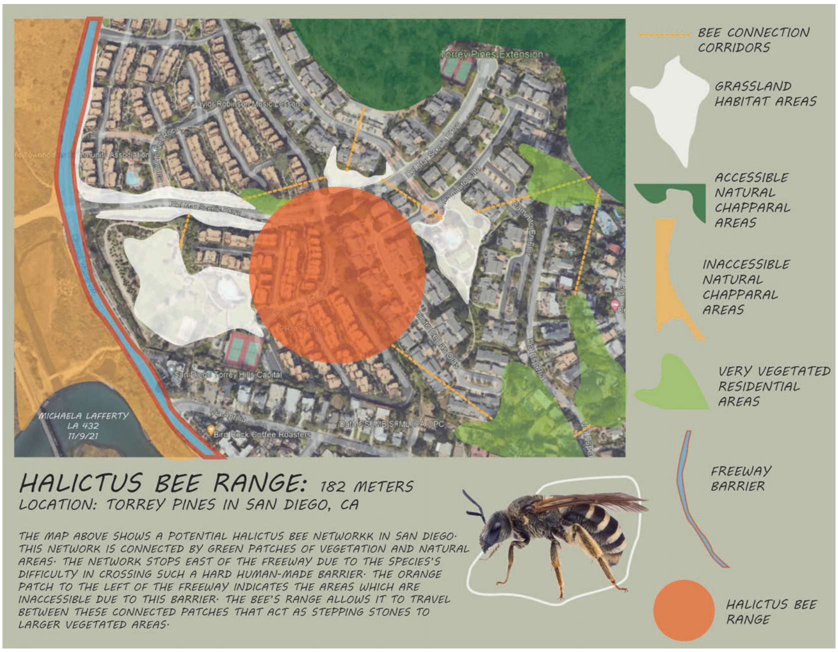
LA 432
2 day exercise

Bee Habitat Network Diagraming

Ava Marie Killor

LA 432
2 day exercise

Bee Habitat Network Diagraming



Michaela Lafferty

LA 432
2 day exercise

Bee Habitat Network Diagraming

Jack McCarthy

LA 432
2 day exercise

Bee Habitat Network Diagraming

Lisa Voong

LA 432
2 day exercise

Incorporating bee habitat on campus

Sumandar Khan

LA 432
2 day exercise

Incorporating bee habitat on campus

Andrew Hensen

LA 432
2 day exercise

Integrating bee habitat on campus

Connie Huang

Ecological Design
Student Work
LA 403
Natural Environments
Design Focus Studio

Winter 2021 & 2022

W'21
LA 403

"See like a bee"

W’21
LA 403

“See like a bee”

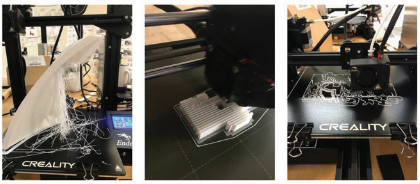
PROJECT 3
"SEE LIKE A BEE" - MICRO-SITE DESIGN
MEGACHILEA: LEAFCUTTER BEE

OVERLAPPING LEAVES AND PETALS
These found objects usually enforce the tubed structure leafcutters call home.

ACCURATE TO SIZE OF LARVAE
This tiny dot shows how the nest is able to engulf the larvae, ensuring the young megachilea is safe from the elements.

BIG ENOUGH FOR A MEGACHILE
Leafcutter bees are around 0.4-0.8 inches. Their nests can be up to 4x their body length. The openings are a perfect diameter of their own body.

GLASSES COMING SOON! - HOPEFULLY BY MONDAY?
[HAD SOME TECHNICAL DIFFICULTIES]



MICRO-SITE [A BEE'S PERSPECTIVE]
It is time we embrace the bee, rather than run away. Don't worry, megachilea prefer not to sting.

OPPORTUNITY IS LIMITLESS
Leafcutters also need access to the things that give them their name. Various vegetation that has smooth, flat leaves act as soucres for leafcutters to cut apart. Large petals from flowering favourites are also needed in the landscape. Megachilea are not too picky, but it is important to provide more than just food sources.

ESCHSCHOLZIA CALIFORNICA
California Poppy
[California poppies like rich, fast-draining soil, ample water and plenty of sunshine. However, they are adaptable and will tolerate poor soil conditions and some drought.]

PEROVSKIA
Russia Sage
[Russian sage is easy to grow and cold hardy to USDA zones 5 to 9. It grows best in warm climates and tolerates clay or average soils, as long as the drainage is good, but they need full sun to produce lots of flowers and sturdy stems that won't flop over as they grow taller.]

Brassica rapa
Canola
[It grows best in well-drained, moist soil, but may also grow in droughty conditions, moderate heat, and soils with low fertility (Clark, 2007). Although it grows best in full sun, it will grow in moderate shade]

W’22
LA 403

“See like a bee”

SEE LIKE A BEE

Through the lens of the *Peponapis*...

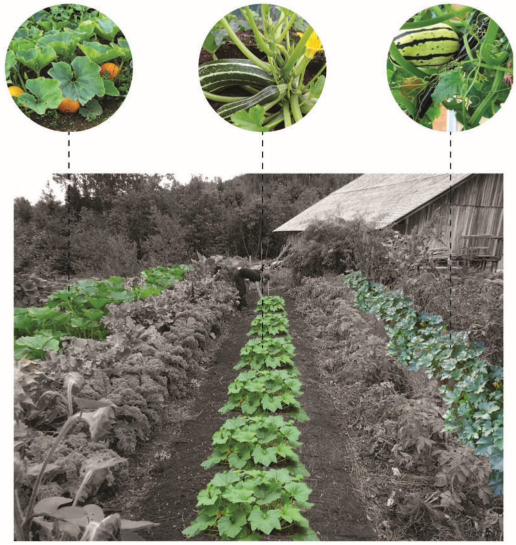
What does the Squash bee see?
Bees, like many insects, see from approximately 300 to 650 nm. That means they can't see the color red, but they can see in the ultraviolet spectrum (which humans cannot). Bees can also easily distinguish between dark and light – making them very good at seeing edges. The squash bee's foraging is unique because it is only interested in squash plants.

A look at the modern garden...

Field pumpkin *Cucurbita pepo*

Zucchini *Cucurbita pepo*

Delicata squash *Cucurbita pepo*



Olivia Wax

W’22
LA 403

“See like a bee”

“SEE LIKE A BEE”

WHAT PARTS OF A LANDSCAPE ARE IMPORTANT FOR A PEPONAPIS BEE?

PEPONAPIS

Educational Bee Glasses

Chad Schuler | LA 403
Project 2 | Kim Chacon

Tecoma stans - Yellow trumpetbush
Peponapis bees have been found to favor feeding and foraging among these trees. The bright flowers provide nectar and pollen.

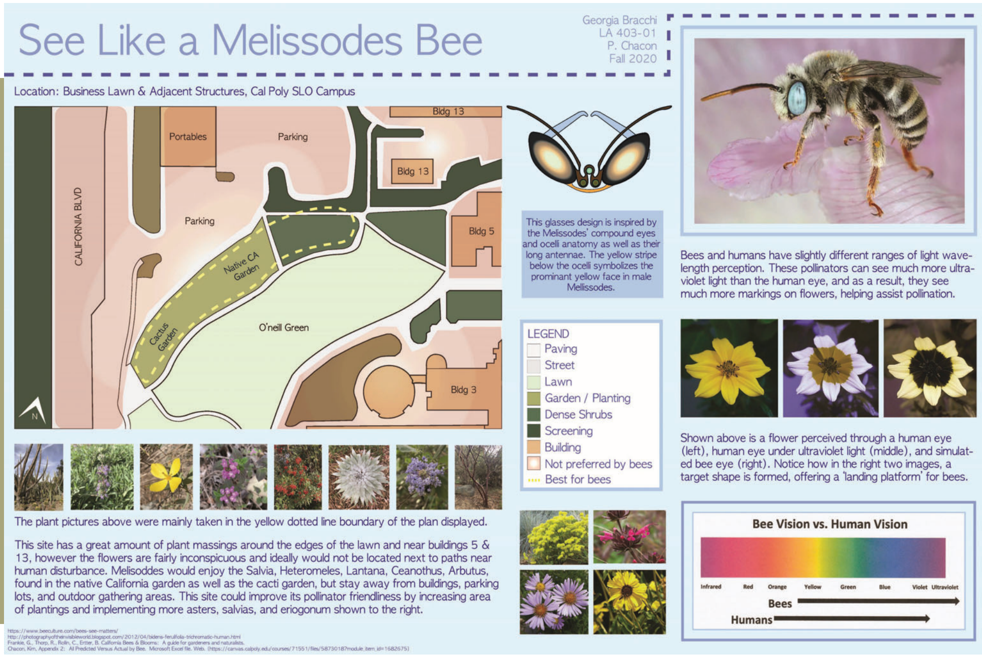
Squash Plants - (**Cucurbita**)
Peponapis bees specialize in feeding on squash plants from the **Cucurbita** family, including pumpkins, zucchini, and melons

Large areas of concrete and built landscapes provide little to no beneficial resources for bees. It minimizes foraging and nesting areas, while increasing urban heat island effects.

Chad Schuler

W'22
LA 403

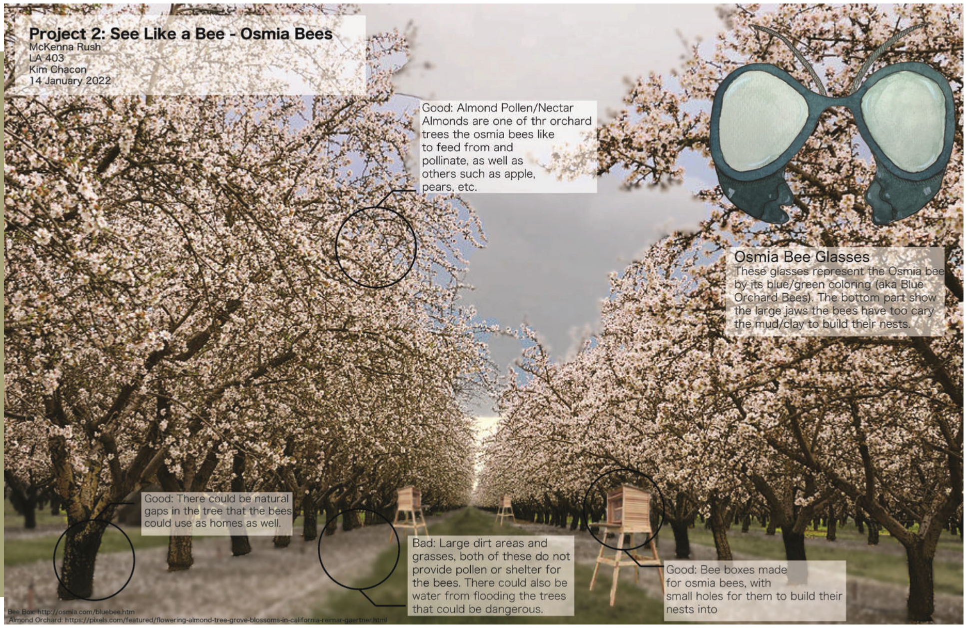
"See like a bee"



Georgia Bracchi

W'22
LA 403

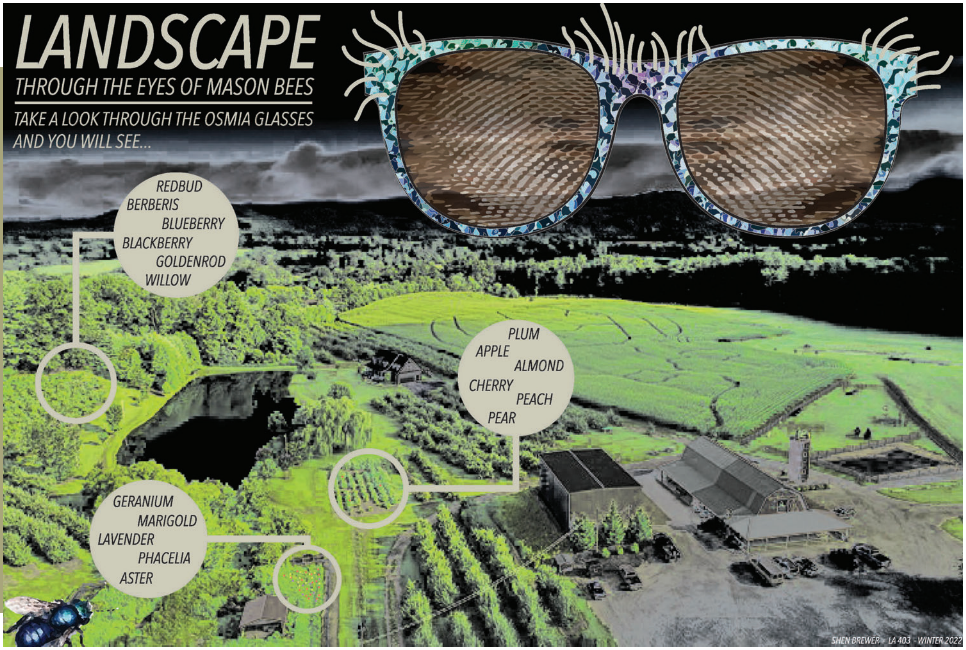
"See like a bee"



McKenna Rush

W'22
LA 403

"See like a bee"



Shen Brewer

W’22
LA 403

“See like a bee”

Megachile has specific plants that data collected show they return back to the plants the most Shown to the right, the showy trees with pink flowers are crape myrtles, or **Lagerstroemia sp.** the green trees with yellow flowers are palo verdes, or **Parkinsonia sp.** The anchor tree in the background is a western redbud, also called **Cercis occidentalis.** Other shrubs found here are sages, **Salvia spp.** The chaste tree, **Vitex sp.** **Aster sp.** lavanders, **Lavandula spp.** and a mix of grasses to provide resting areas and foliage to forage in order for the megachiles to build nests.

UrbanBeeScape

Highlighting specific plants species that the bee genus: **Megachile** will prefer in this urban landscape setting found in Southern California. The length of this BeeScape is one quarter mile, which is the maximum distance that Megachile bees will travel.

Andrew Burr | LA 403 | Winter 2022 | Micro Site Design | Kim Chacon

BeeGoggles Concepts

Andrew Burr

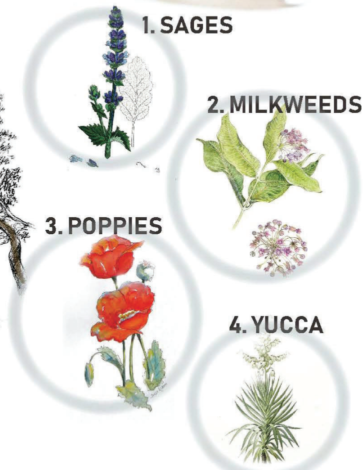
W’22
LA 403

“See like a bee”

IN THE EYES OF A XYLOCOPA

Jayne Cowell // LA 403 // Winter 2022

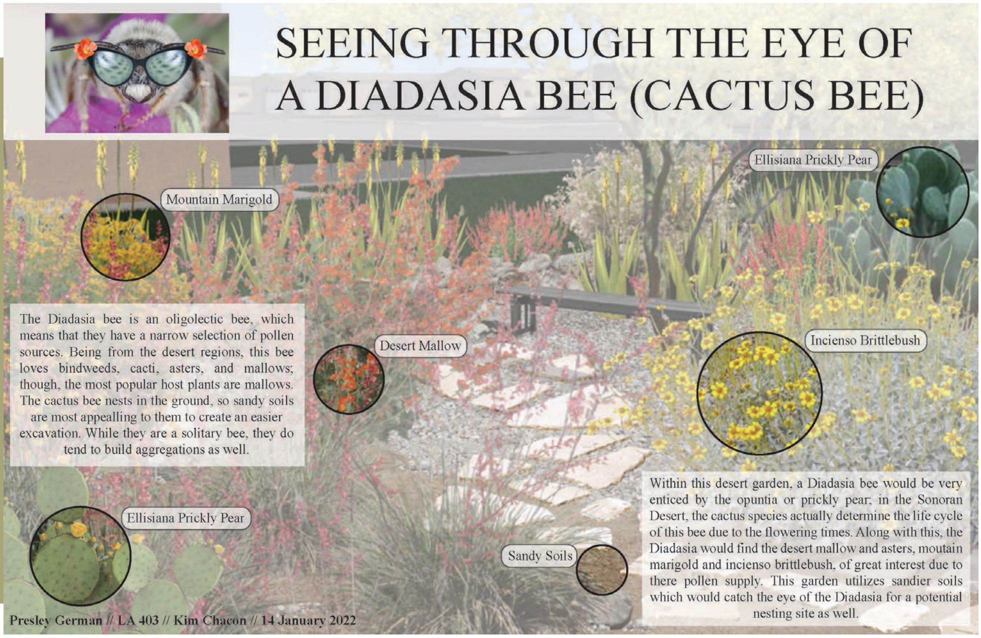
Xylocopas, or large carpenter bees, keep their eyes on the prize. The prize being, possible nesting locations in soft wood and plant stems, like yucca. As well as plants such as sages, milkweeds, and poppies. These plants fuel the bees with pollen and nectar to keep them happy and healthy.



Jayne Cowell

W'22
LA 403

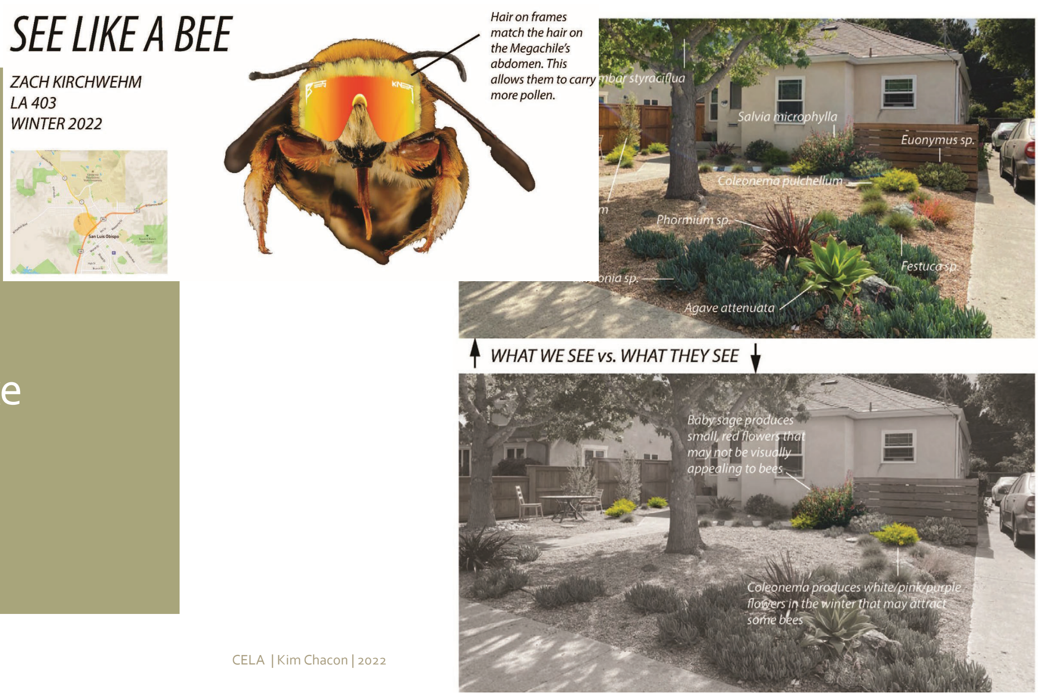
"See like a bee"



Presley German

W'22
LA 403

"See like a bee"



Zach Kirchwehm

Single site fine-scale design for bees

Winter 2021 & 2022

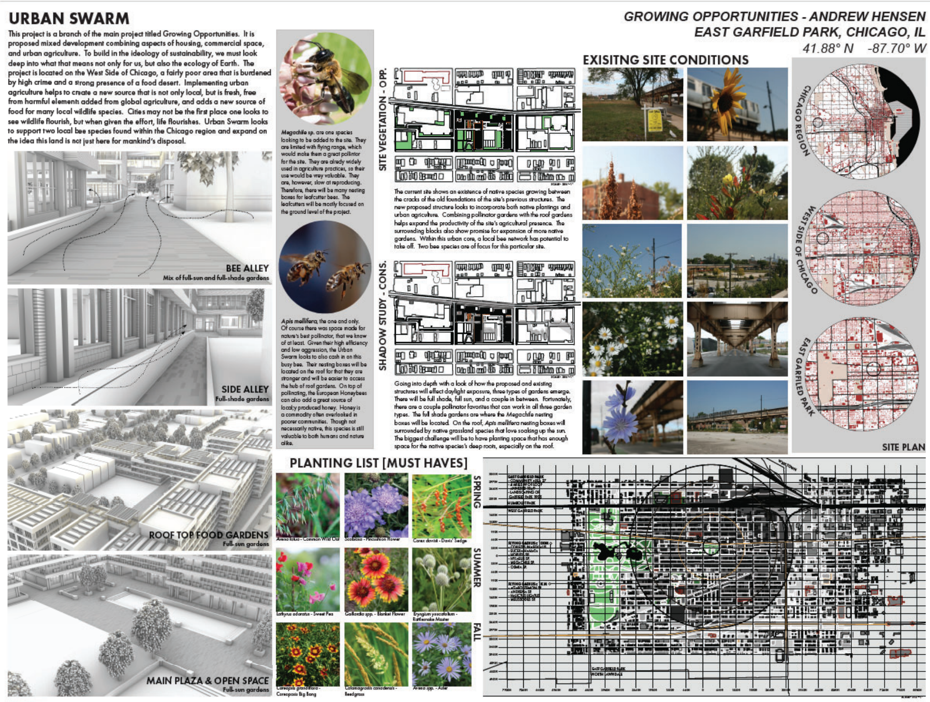
W’21
LA 403

Fine Scale
Single Site

Hisham Houssain

W’21
LA 403

Fine Scale
Single Site

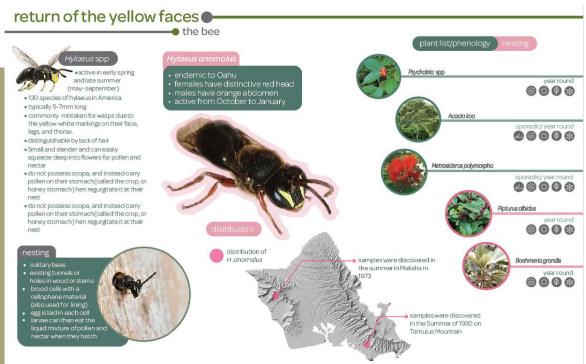


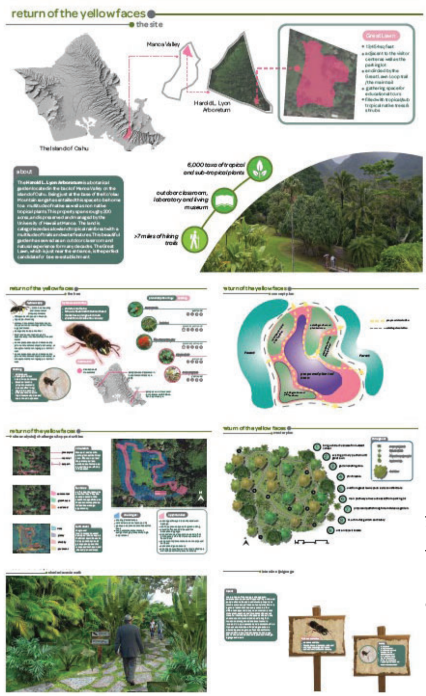
Andrew Hensen

73

W’21
LA 403

Fine Scale
Single Site





Sumundar Khan

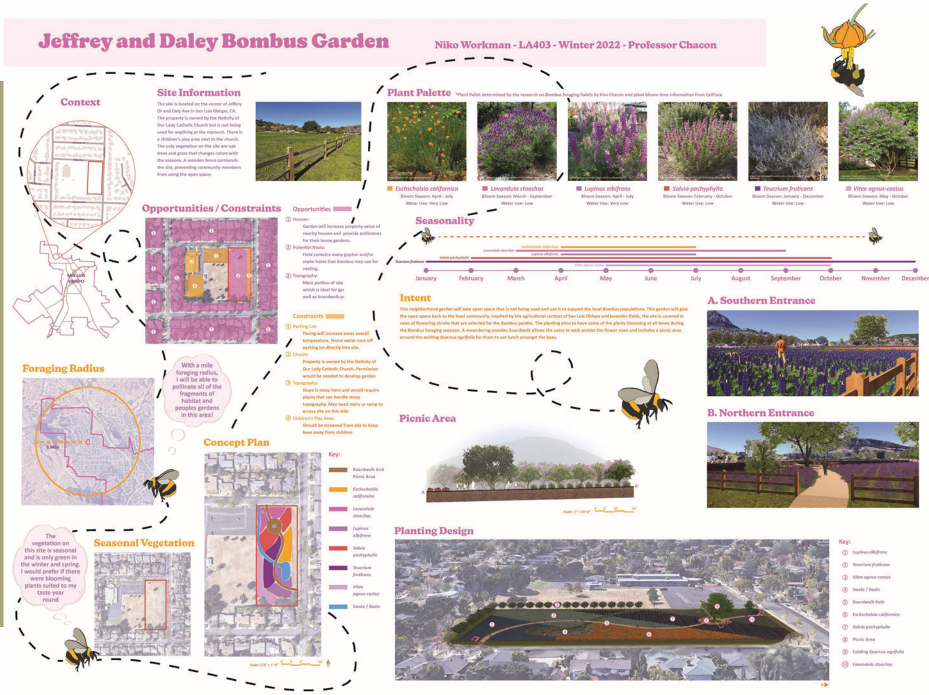
W’21
LA 403

Single Site Design

Mariella Delfino

W’22
LA 403

Fine Scale
Single Site



Niko Workman

76

W’22
LA 403

Fine Scale Single Site

Planting Design

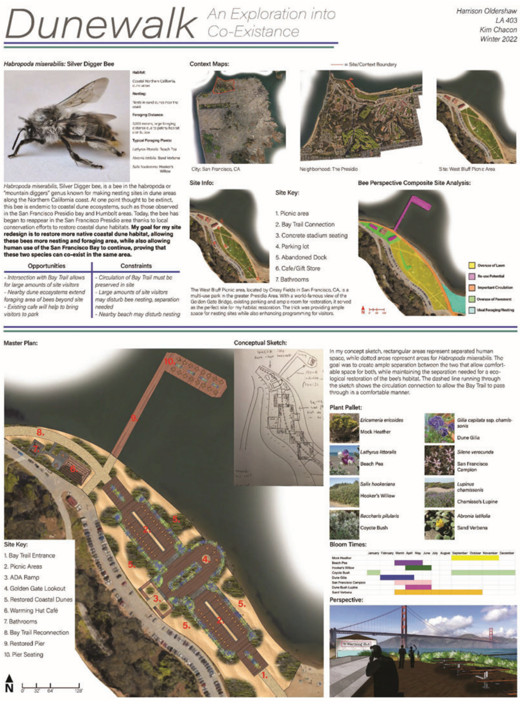
Key:

1. *Lupinus albifrons*
2. *Teucrium fruticans*
3. *Vitex agnus-castus*
4. Swale / Basin
5. Boardwalk Path
6. *Eschscholzia californica*
7. *Salvia pachyphylla*
8. Picnic Area
9. Existing *Quercus agrifolia*
10. *Lavandula stoechas*

Niko Workman

W'22
LA 403

Fine Scale
Single Site



Harrison Oldershaw

W'22
LA 403

Fine Scale Single Site

McKenna Rush

W’22
LA 403

Fine Scale
Single Site

Chad Schuler

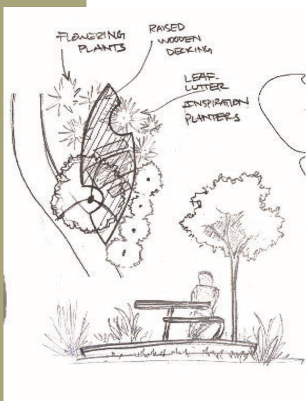
W'22
LA 403

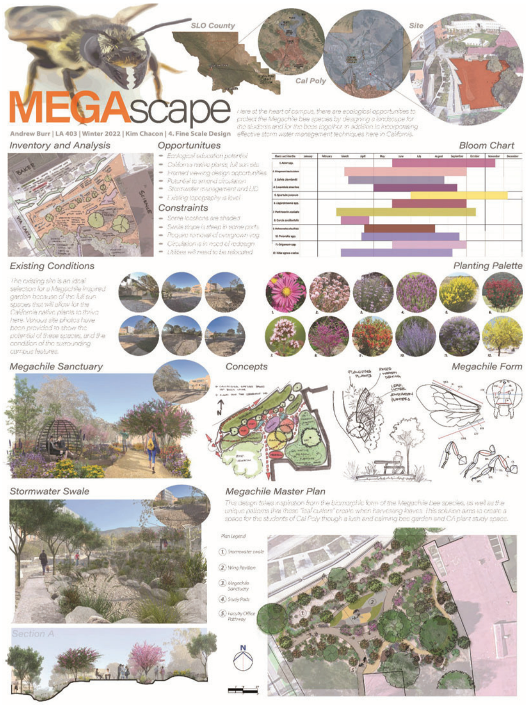
Fine Scale
Single Site

Chad Schuler

W’22
LA 403

Fine Scale
Single Site





Andrew Burr

Network coarse-scale design for bees

Winter 2021 & 2022

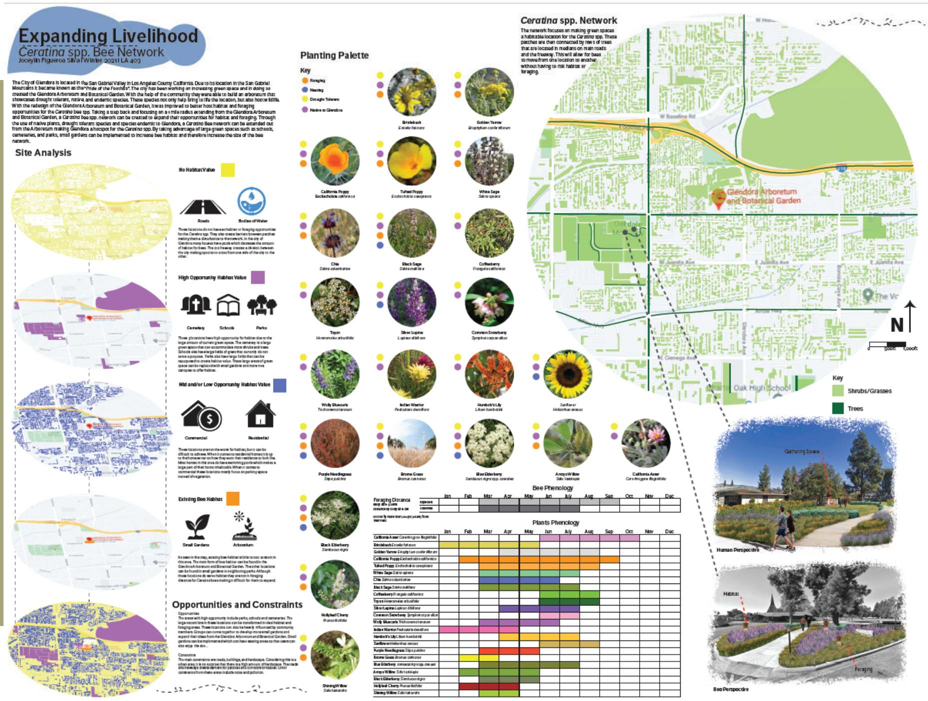
W’21
LA 403

Coarse Scale Site Design

Lika Pasurishvili

W’21
LA 403

Coarse Scale Design

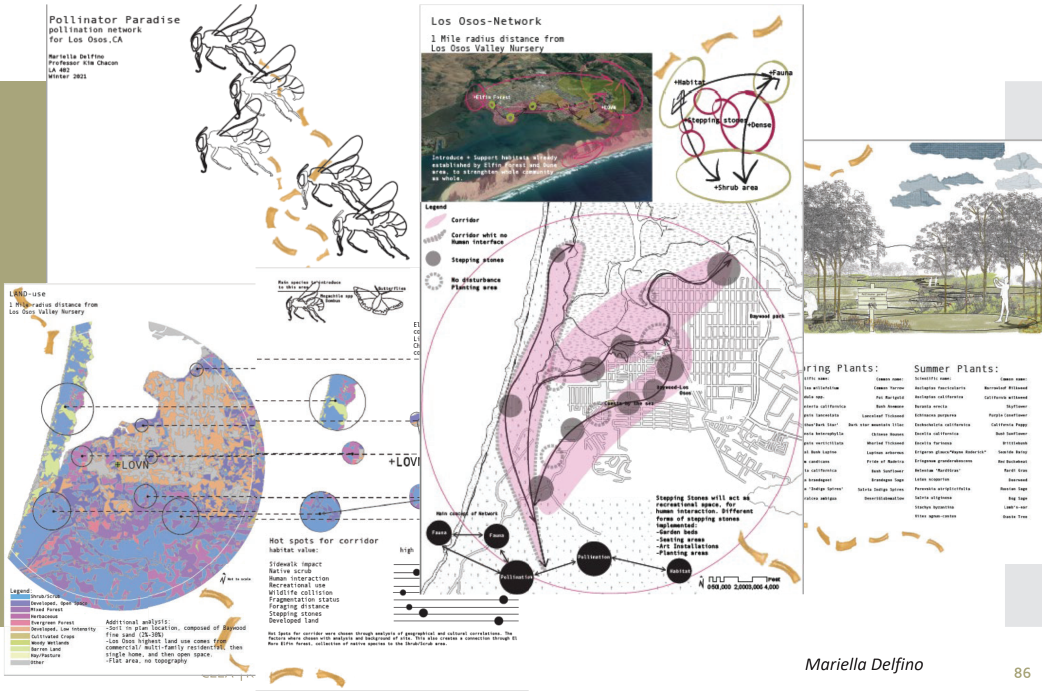


Joceylin Figueroa

85

W'21
LA 403

Coarse
Scale
Design

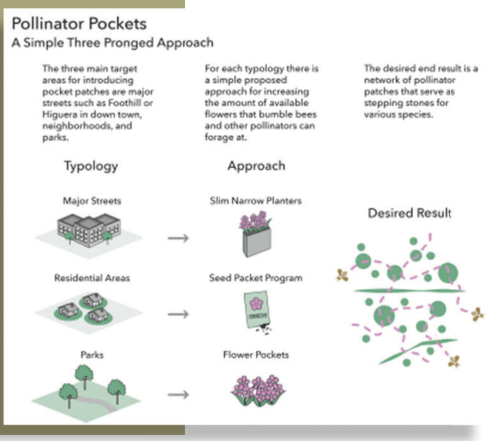


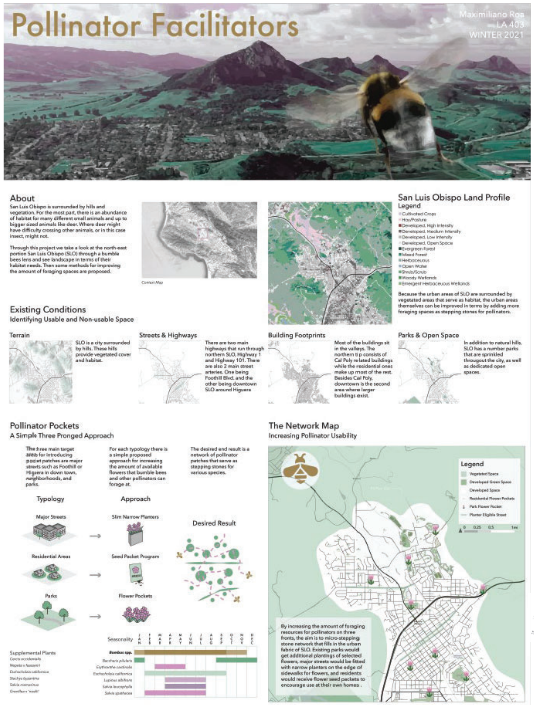
Mariella Delfino

86

W'21
LA 403

Coarse
Scale
Site
Design





Maxmiliano Roa

87

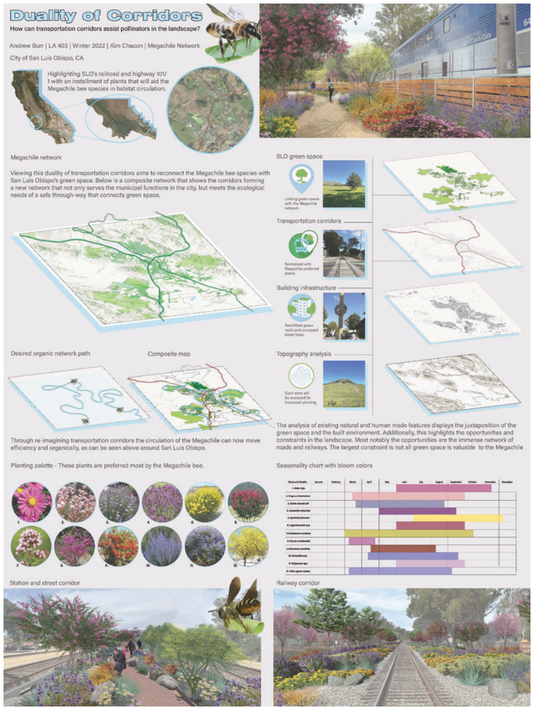
W'22
LA 403

Coarse Scale
Site Design

Shen Brewer

W’22
LA 403

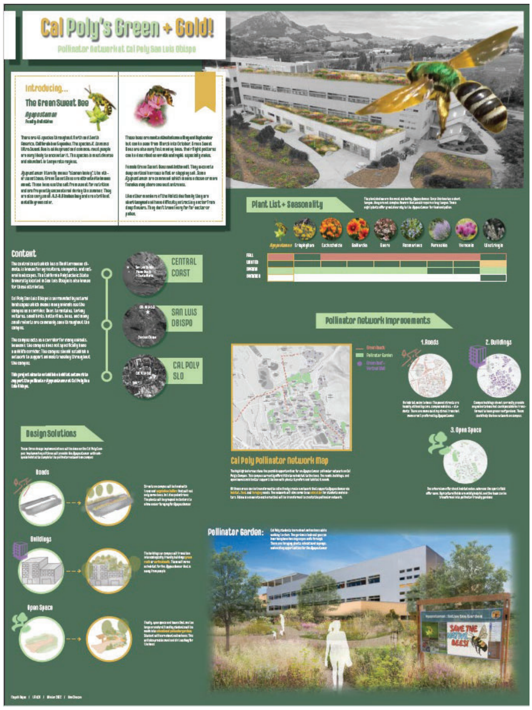
Coarse Scale
Site Design



Andrew Burr

W’22
LA 403

Coarse Scale Site Design



Nayelli Rojas

W’22
LA 403

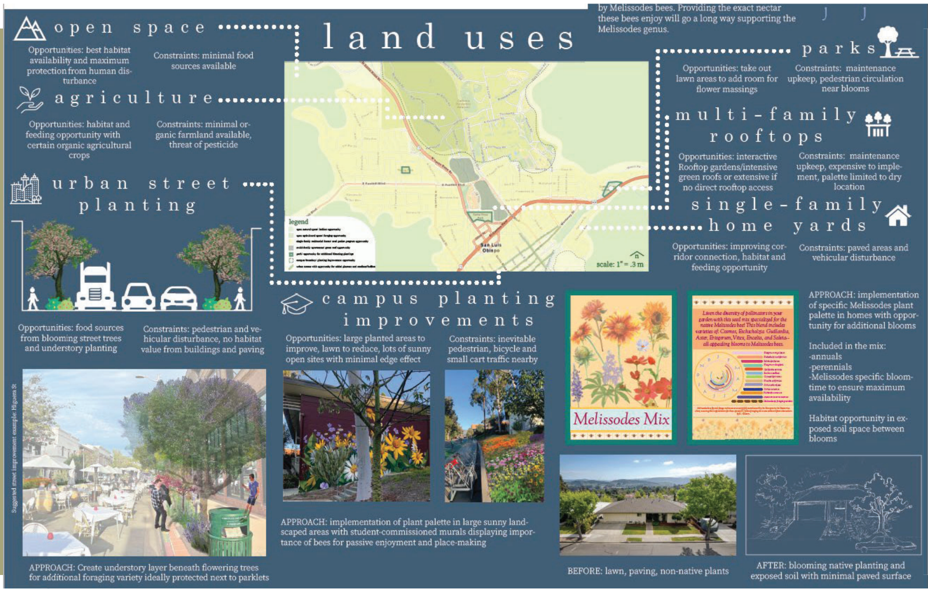
Coarse Scale Site Design

Georgia Bracchi

CELA | Kim Chacon | 2022

W’22
LA 403

Coarse Scale
Site Design



Georgia Bracchi

DESIGNING for bees!

(1) Reduce spatial & seasonal bottlenecks, increase the diversity of pollinators in the landscape, & increase the quality of floral resources (Feeding, Reproduction, Cover)

(2) Deliver a message through clever and attractive design to the general public

(3) Be sensitive to local conditions

(4) Explore and celebrate local pollinator diversity

CELA | Kim Chacon | 2022

Best Books

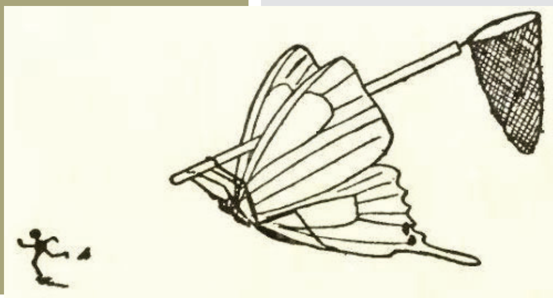
Attracting Native Pollinators by the Xerces Society

California Bees and Blooms by Gordon Frankie et al.

Braiding Sweetgrass by Robin Wall Kimerer

Rambunctious Garden by Emma Marris

Wild Souls by Emma Marris



I have started consulting!

zimk1@hotmail.com

beelandscapes.com

linkedin.com/in/beelandscapes

Bombus on *Iris*