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PLANNING FOR SPECIES ADAPTATION AND CLIMATE RESILIENCE IN CALIFORNIA'S PRIMARY SOURCE HEADWATERS

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PLANNING FOR SPECIES ADAPTATION AND CLIMATE RESILIENCE IN CALIFORNIA'S PRIMARY SOURCE HEADWATERS

FINAL REPORT FOR WCB GRANT WC-1835JG THE PACIFIC FOREST TRUST

Project leads: James Thorne, PhD. and Ryan Boynton, University of California, Davis; Laurie Wayburn, PFT; Dean L. Urban, PhD, Duke University

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Introduction and Summary: the purpose and context of this project

The 7-million-acre Sacramento River Headwaters Region, and its surrounding 3-million-acre buffer zone, has an extraordinarily important role for biodiversity as well as water supply in California. Delineated by three mountain ranges (the northern Sierra, southern Cascade and Klamath-Trinity) it has a widely varied topography, range of soil types and geology that support an extraordinarily wide variety of plants and habitats. The region contains over 80% of California's natural habitat types and hosts over 60% of its vertebrate species, 62 of which are imperiled. One of 33 globally recognised biodiversity "hot spots", it is also the source of the vast majority of California's utilized water, supplying the largest reservoirs which are the backbone of the state water system.

Many species and habitats are already under assault in California due to habitat loss, cover type and land use conversion and habitat degradation. Climate change is clearly exacerbating this trend. This region has more intact habitats than most in California, and presents more opportunity to stem habitat loss and reverse degradation, due to its relatively lower human settlement footprint and population. Meta-analyses show that this region has remained cooler and wetter than the rest of the state over the past 100-125 years, providing a reliable context for consistent habitat function. With such a major role in supporting California's biodiversity, the focus of this project was to evaluate how persistent this habitat service might be in the future 100 years as climate change intensifies.

We utilized the two more plausible Representative Concentration Pathway (RCP) climate change scenarios, the RPC 4.5 and the RPC 8.5, and modelled these under both of the two leading global climate change models: the MIROC—which projects a warmer and drier future—and the CRNM—which projects a wetter and warmer future—downscaled to California. Our project identified where the models agree that conditions supporting refugia—and connecting corridors/safe passage to them—will be 2040, 2070 and 2100. Specifically, we identified where there was a consensus outcome of both models identifying where temperature and precipitation regimes would continue to support the natural habitats—and the amazing array of biodiversity they contain-currently existing in the region. These are critical areas for conservation and restoration, as they will likely continue to support current habitats even under climate change.

Additionally, we identified where exposure to precipitation and temperature changes was relatively more moderate, and thus these areas have a strong potential for being able to be resilient under climate change, especially if these areas had been managed to have more natural resilience. These also have high value for conservation and restoration, as they may serve as buffers and risk mitigation allowing more opportunity for species to survive.

Finally, we identified those areas where the projected changes in precipitation and temperature will cause environmental stress so great as to likely no longer support the existing habitats, and thus the biodiversity they support. These areas may have high value for conservation for a variety of reasons, but the habitats they support currently are not projected to persist.

The overall trajectory of climate change impacts under our present pattern is indeed grim; for example, models project the virtual disappearance of some key habitat types such as wet meadows in the region by 2100. Yet the analysis also illustrated ways in which our actions in the nearer term can change that trajectory, as well as buffer the likely impacts of climate change. Importantly, we identified that the region will likely support almost 5 million acres of consensus refugia, with an additional 1.5 million acres of probable or possible refugia under moderate stress, by 2040. A clear focus on conserving and restoring the private ownerships in these areas, as well as a focus on restoration in the public lands therein, will greatly enhance the likelihood of habitat persistence and species survival. Tables containing all the data on likely persistence over the three time periods analysed (2040, 2070 and 2100) as compared to the present, by habitat type and ownership, are included Appendices.

Amongst the takeaways of particular note in the project are the following:

- 1) Under the RCP 8.5 scenario, we stand to lose twice as much of our current habitat area as under the RCP 4.5 scenario. We are currently on or exceeding the 8.5 scenario. A key way to reduce emissions is through land conservation and restoration, especially in forest types. Dominated as it is by forest habitat, and with much of the privately owned forest quite young relative to its natural age range and thus under its natural carbon sequestration capacity, the region is a potentially very strategic one for biodiversity conservation, increased forest carbon sequestration, and reducing the probability of continuing on the 8.5 scenario.
- 2) There is significant checkerboarded ownership in the region between federal and private lands. Conserving and restoring private lands will be key in ensuring these habitats persist functionally across the landscape overall. It is also essential to ensuring that there are viable connections to and from refugia on public lands, especially those in lower elevations and with high productivity and water resources, where private ownership is more prevalent. Species are already moving upslope from the Central Valley to this region.
- 3) While this region overall shows a higher likelihood of persistent habitats on the landscape as contrasted with the state writ large, two watersheds within it really stand out as critical refugia: the Upper Trinity and McCloud watersheds. Higher elevation areas within the Pit, Feather and Upper Sacramento watersheds are also significant refugia. Additionally there are key north-south corridor regions and areas that are identified as particularly valuable as connectors to those refugia. These include from the northern extent of the Central Valley into the Upper Trinity, Sacramento and McCloud watersheds, and east west from the Warner Mountains across to the Siskiyou Crest, Mt Shasta and the Upper Trinity and McCloud watersheds, as well as upslope west east movement from the Central Valley into the Sierra.
- 4) The project identifies the critical role of "microrefugia", smaller scale areas that tend to be cooler because of their topographic positions. These microrefugia have persistent habitat conditions over time within larger landscapes that will likely no longer support those habitats, essentially providing buffering capacity under climate change. Conserving these as

spatial stepping stones to larger refugia within and across less hospitable landscapes will be a valuable conservation strategy. The project allows identification of temporal "refugia" that may shrink or potentially disappear by end century, but will be key in the nearer term decades.

5) Actions in the region for enduring species adaptation and climate resilience meet multiple state goals. Conserving and restoring those areas which rank as refugia and lower/moderate exposure regions today will meet multiple state goals in addition to those identified in the state Wildlife Action Plan and Adaptation Plan. Doing so would have an enduring impact for Governor's Executive Order N-82-20, the "30x30". As this region includes much of the state's most productive conifer forest and forest carbon sink, this would also increase the state's chances of meeting its goals of being carbon neutral by 2045. The same actions that promote and retain resilient habitat will have a positive impact for water, extending release times for cold water in the summer months, increasing retention time during major precipitation events and increasing overall inflow as well as natural storage by hundreds of thousands of acre feet of water. These also reduce threats of catastrophic wildfire and increase net resilient carbon sequestration, amplifying the social and economic benefits of these actions further.

The project has a wide variety of applications for land managers in addition to those managing for species survival. Potential end-users include land owners and managers, land use planners, county, regional, state and federal natural resource decision-makers. A series of "use cases" are included in the report illustrating some of these applications. As the first climate change analysis that includes the impact of the intensity of climate change that a habitat is exposed to across the landscape, and with the analysis scaled down to units of 25 acres, the results are useful both on a specific property and to assess that property's habitat & biodiversity role in the larger landscape over time as well as space. This is directly applicable in developing conservation, restoration and management plans over the next several decades.

In addition to the use cases described in the report developed at the region-wide scale, PFT is currently applying this analysis and decision support tool within the region on a specific 11,000-acre property to assess key management and conservation actions, integrating property specific data. Factors we are assessing include:

- the long-term refugia role the property can play and for which species
- the likely long-term value of wet meadow restoration to historic natural extent;
- the role the property may play as a "receiving site" for specific species moving with climate change, and
- the potential to reestablish enduring functional connectivity over time within forest habitats of the property that currently show as not serving that function but provide bridges to refugia outside as well as within the property.

This analysis will aid significantly in planning for the management and conservation actions on that property, and as a template for further use.

While the project has been completed with data sets that cover the entire area, it can be customized with more specific site data, as it will be for the application noted above, which extends the applicability, and increases the fine grain of the tool. Additionally, the analysis could be extended to other regions of the state, enabling a statewide picture and allowing for broader planning for species migration.

Regional Assessments

We combined maps to identify priority areas for a range of land management objectives. The three top-level maps are: Climate refugia and areas of expected high climate stress; Landscape and climate connectivity; and potential terrestrial species richness. We also incorporated regional metrics for climate microrefugia, vegetation structure, land use intensity, and species distribution models for analyses targeting different management objectives. In turn these maps were built upon a set of input maps detailed in the methods, but including California state's vegetation map (CAL FIRE 2015), a 10 m digital elevation map, land tenure, climate data, fire metrics and hydroclimatic variables from the Basin Characterization Model (BCM; Flint & flint 2012; Flint et al. 2013; Thorne et al. 2015).

This results section features 2 categories of results – overall selection of areas in response to the 3 primary maps, and a series of use cases, demonstrating how different combinations of the assembled data can be used to address different land management questions.

The GIS layers compiled for this effort will be available in the form of 2 geodatabases, called "Hexagon Data" and "Input Data", and associated documentation that will be delivered to the Wildlife Conservation Board for further use. The structure of the GIS is intended to permit others to use the outputs to assess the regional context for both site-specific and watershed-scale climate change adaptation and mitigation planning and projects.

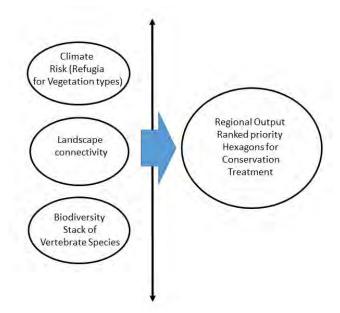
Because tables associated with the results are voluminous, we cite tables in the text as digital appendices. The appendices are a series of excel tables, most with multiple tabs. Each Excel Table has a Read Me tab, and each tab has the equivalent of a short caption listed at the top of the its page. There are 4 Digital Table Appendices:

- Climate Refugia Appendix Table 1
- WHR and Climate Exposure Appendix Table 2
- Connectivity and Climate Exposure, Appendix Table 3
- Potential Species Richness and Climate Exposure, Appendix Table 4

Finally, methods are provided in two places. The primary descriptions of analyses are in a methods section in this main body of the report, after the results. Those are further supported by a Methods appendix. These two sections follow the same data sequence, and can be related to the GIS files.

1) Regional Assessment Results

The overall rankings combine maps of end-century climate refugia based on vegetation types with high priority areas for landscape connectivity and high potential species richness to derive relative rankings for each of the >408,945 hexagons.

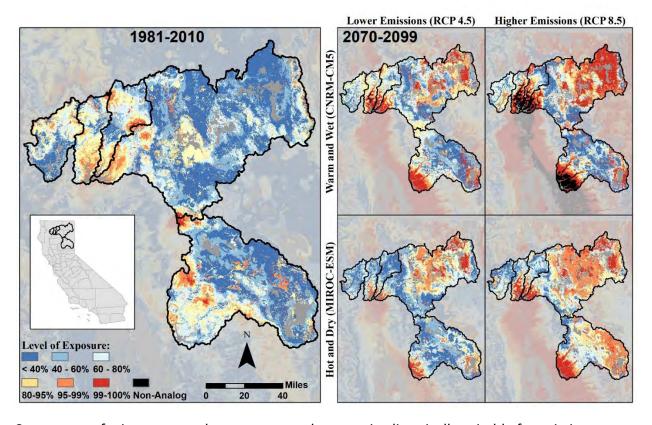


We identified climate refugia and areas of high climate stress across the region. Both biodiversity and connectivity were mapped across the entire region. These two were each ranked from 1-5, with higher numbers indicating either greater species richness or more critical linkages.

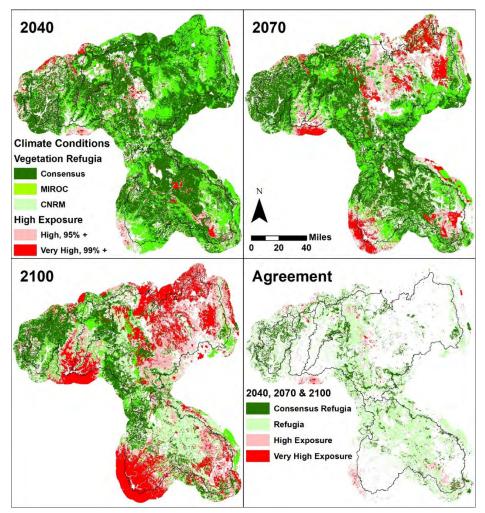
These three metrics can be combined in various ways to highlight different parts of the landscape.

Vegetation Refugia / Climate Exposure

We used a place-based climate exposure method that identifies the relative level of climatic stress across all locations of each vegetation type found in the state (Thorne et al. 2016, 2017). The level of exposure in current time (we used a baseline of 1980-2010), is then used as a classification to identify future levels of stress for the vegetation, without predicating where a vegetation type might move to. The image below shows how climatic stress is expected to change for the SRHR by the end of century under a wetter and a drier future climate projection. The column on the right shows future exposure under current rates of emissions (RCP8.5), while the left column shows future exposure if lower, near-Paris accord rates of emissions are achieved (RCP4.5). Blue areas are where the current vegetation remains in climatic conditions that it currently occupies up to 80% of the time, and are considered not-stressful. Orange and red areas are climates that the vegetation currently occupies only 5% of the time, while black areas represent future climates that do not currently occur in California (Non-analog).



Consensus refugia are areas that are expected to remain climatically suitable for existing vegetation under both the wetter and the drier future (Thorne et al. 2020), and are the areas where we have the highest confidence that existing vegetation could be managed for retention. Consensus refugia make up 49% of the SRHR by 2040, 37% by 2070, and 19% by 2100. The consensus refugia areas that overlap in the 3 time periods occupy 706,000 acres, 7.5% of the region (Climate Refugia Appendix Table 1). The shifting location of consensus refugia suggests that a stepping stone approach for movement of populations of some species across the landscape may be a good strategy. However, some areas are consensus refugia in all three time periods, as shown in the 'Agreement' panel in the image below. The Agreement consensus refugia comprise 759,307 acres (7.6% of the SRHR) under RCP8.5, and 2,527,218 acres (24.4%) under RCP4.5. The difference is one of the largest indications of the urgency of reducing global emissions that emerged from this work.

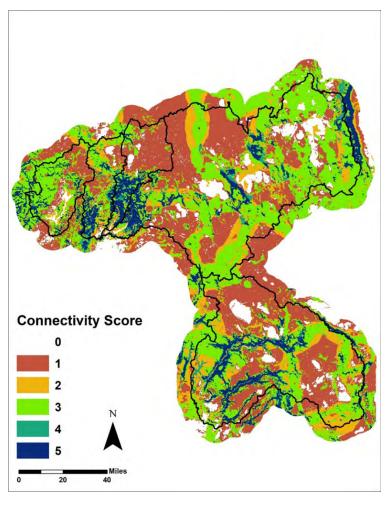


The SRHR contains 49 CWHR landcover types, including 35 natural terrestrial vegetation types that are the focus of this paragraph (WHR and Climate Exposure Appendix Table 2). Among these, the five retaining the greatest extent in consensus refugia are: Sierran Mixed Conifer, Montane Chaparral, Klamath Mixed Conifer, Ponderosa Pine, and Douglas fir (descending order). Among the types with the greatest areas in high endcentury exposure are: Eastside Pine, Low Sage, Sierran Mixed Conifer, Montane

Hardwood, and Sagebrush. In some cases, types with relatively limited extent, either within the region or across the state, but that have significant habitat value appear highly exposed, including those with >90% high-to-very-high end century exposure: Alpine Dwarf Scrub, Chamise-Redshank Chaparral, Freshwater Emergent Wetland, Bitterbrush, Valley Oak Woodland, Blue Oak woodland, & Low Sage. Two types that we considered to be misclassified in the region, with very limited extents, had 100% high exposure by end century, Coastal Oak Woodland, and Coastal Scrub. Some types have relatively higher proportion within end-century consensus refugia, including Montane Riparian (80%), Montane Chaparral (64%) and Klamath Mixed Conifer (56%). Wet Meadows, an important landscape feature of limited extent show 31% in high exposure and 1% in consensus refugia by end century. The 59% in moderate levels of exposure suggest that there may be opportunities to increase the resilience of this type. A similar finding is true for Red Fir, which has 17% in high exposure and 2% in consensus refugia, meaning about 81% of its 323,261 acres may be suitable for some treatments to increase resilience.

Connectivity & Climate Risk

Landscape connectivity is essential for species movement, and that need is amplified as land use and climate change further disrupts the natural patterns of vegetation (Keeley et al. 2021). Natural resource managers and transportation planners need standardized measures of connectivity for their planning purposes. We reviewed connectivity models for the region, and selected two models that cover the entire region. A number of species-specific models, such as for fisher and martin, were not included because they did not cover the entire region. Those are candidates for use in conjunction with what is presented here. We used the California Essential Habitat connectivity (CEHC) model that estimates connectivity in for current time, and an Omniscape-based model produced by The Nature Conservancy, that links analog climates through time. We combined these models (Methods) and ranked the landscape from 0-5 as a



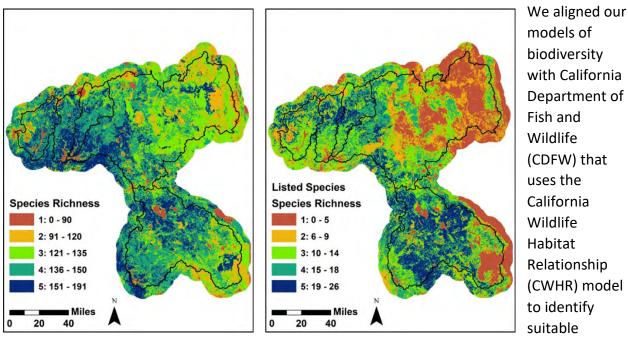
rough measure of connectivity importance with the majority value in hexagon assigned to that hexagon. About 8% of the region has the highest connectivity ranking. Much of these lands also prove to terminate in end-century climate refugia.

		Acres	%
	5	826,067	8.31
	4	322,793	3.25
Connectivity	3	3,302,900	33.21
Ranking	2	1,270,580	12.78
	1	3,352,438	33.71
	0	871,030	8.76
	Total:	9,945,808	

In 2040, 53% of the highest ranking connectivity is in consensus refugia and 5% is consensus highly exposed. However, by end-century, 15% of the highest priority connectivity ranking is in consensus refugia, 6% is in consensus moderate exposure, and 24% is in consensus high climate

exposure (Connectivity and Climate Exposure, Appendix Table 3). The decline in high-ranked connectivity areas in consensus refugia points to the need to maintain sufficient traversable space to permit access to refugia, which in some cases will call for a stepping stone approach (Albert et al. 2017).

Biodiversity / Species Richness



habitats for each terrestrial vertebrate in the state, and also has a range map for each species. Using the state's 30 m resolution map for CWHR types (FVeg:

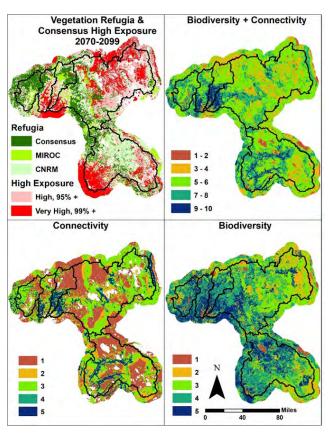
https://frap.fire.ca.gov/mapping/gis-data/), we mapped the suitable range for all vertebrates whose range covers any of the SRHR. We then added all species on a per grid cell basis and identified the mean potential species richness for each hexagon. We identified 417 species and 62 listed species to be potentially present in the region.

About 71% of the current extent of highest ranked potential species richness areas are in refugia zones in the baseline time period. Consensus refugia, only measurable in future conditions, contain 47% of current highest species richness areas by 2040, declining to 45% by 2070, and 25% by end-century. There is a corresponding increase in rank 5 species richness area under consensus climatic stress, from 4% by 2040, to 13% by 2070 and 21% by end-century (Potential Biodiversity and Climate Exposure, Appendix Table 4).

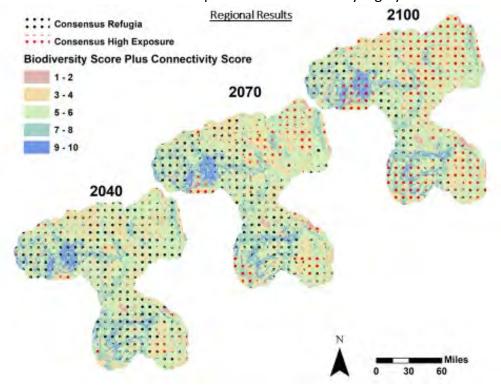
Climate, Connectivity & Biodiversity

We combined the connectivity and species richness scores to rank the landscape into 5 levels. The summary layer provides a rough view of relative weighting among the hexagons of the region.

We then overlaid the consensus refugia and consensus high exposure areas as dots over the resulting map. The sequence of time shows the increasing spread of high climate exposure and is informative with regards to potential stressors on the underlying landscape. Areas in blue are highly ranked for both potential species richness and connectivity. Blue areas in the Trinity watershed show relative stability, with consensus refugia remaining in the area. However, the large blue area that lies around Lake Shasta has a different

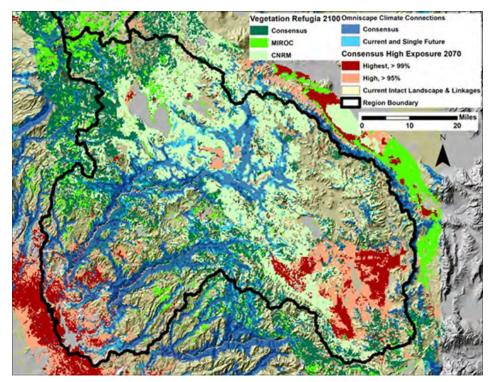


pattern. It starts with extensive refugia coverage, but by 2100, most of the highest-ranked area is under high climate exposure. Note however, that the largest consensus refugia zone in the SRHR lies in a horseshoe shape around the currently highly ranked zone. This suggests there



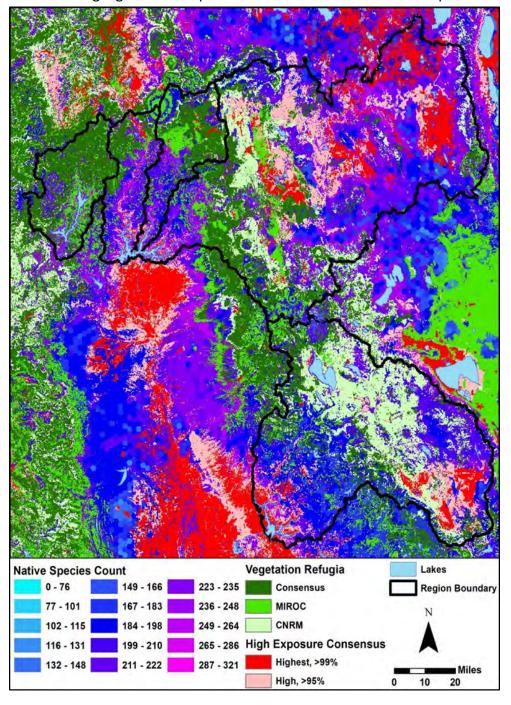
may be suitable areas that species could move towards, out of the high potential species richness and connectivity areas, over the next 80 years.

A somewhat similar pattern can be seen in the Feather River watershed to the east, where high-ranking connectivity follows the branches of the river. Much of the blues areas remain in consensus refugia condition to 2070, but by 2100, most of the refugia has disappeared. The northern central part of the watershed is not dotted in 2100, suggesting that although not a consensus refugia, the area may be somewhat amenable to current habitats and species.



The image to the left shows how climatic pressure areas in 2070 (reds) might provide some landscape level impetus to refugia areas in 2100 (in green).

Similarly, an impetus for movement can be seen in this detail around Lake Shasta. In this case the red-to-purple hexagons are CDFW's ACE III measures of species richness (**), with purple areas showing high levels of species richness. Overlaid on their map are the 2100 measures for

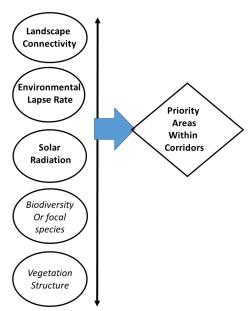


consensus high exposure areas (dark red) and consensus refugia areas (dark green). This again illustrates the potential for species to have to move from lower elevations around the edges of the central valley to higher ground. Indeed, this is already occurring with neotropical songbirds in our region, which are declining below 1515 m but increasing above this elevation, based on monitoring over the past 14 years (Furnas et al. 2020).

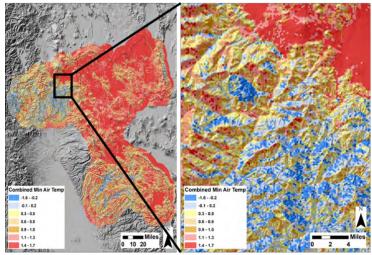
Microrefugia

We defined microrefugia as areas that due to topographic position can retain cooler temperatures longer than the surrounding landscape. We calculated the thermal buffering capacity of all hexagons in the region by calculating the level their range of air temperatures associated with environmental lapse rate, and the level of open-air warming that solar radiation will cause, as derived from transfer functions developed for a study that included parts of our region (Curtis et al. 2014). The value of a hexagon-based portrayal of microrefugia is that it permits a local assessment of when the mean conditions that plants may be adapted to within a hexagon will disappear from that hexagon. Until that happens, local populations might be able to shift within the 25 acres and still find the same mean temperatures.

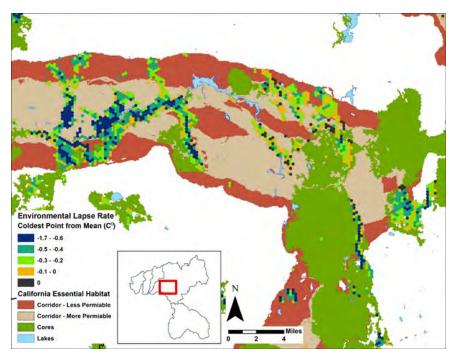
Both these values were calculated from a 10 m digital elevation model, which provided 900 values within each 25 acre hexagon. We took the mean elevation in each hexagon, and assigned the mean annual air temperature values calculated from our 1980-2010 baseline climate as the temperature at mean elevation of each hexagon. Elevations that were higher, had cooler temperatures, within the hex, and areas that were lower had warmer temperatures (Methods). The benefit of linking each hexagon to current temperatures is that it allows future warming, and the buffering microrefugia provide against such warming to be explicit.



We found that the across the region, the maximum cooling capacity within a hexagon was -1.62 °C, found in the upper Sacramento Watershed, a rock outcrop. The first hexagon with vegetation is -1.47 °C with cover type Subalpine Conifer, in the upper Trinity Watershed. Across the region, 112 hexagons have a buffer equal to or greater than 1 °C. Solar radiation never produces a negative value, and reduced the cooling capacity of many hexagons, particularly in the Modoc plateau region.



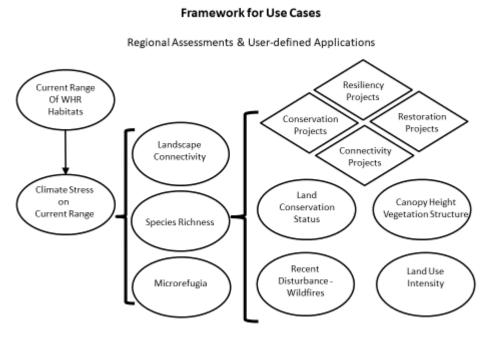
We can use the thermal buffering capacity of microrefugia to identify areas within landscape connectivity zones that will retain their mean baseline temperature the longest as the climate warms.



In the image on the left, a corridor in the Pit River watershed shows the hexagons for the two highest connectivity ranks (4 & 5). The hexagons are colored according to their buffering capacity. Note that our climate maps also capture cold air pooling dynamics, but they appear to seasonally and topographically dependent, so a single buffering value may not accurately portray what benefits they may provide, and we did not include a spatially explicit measure of their potential benefits under climate change.

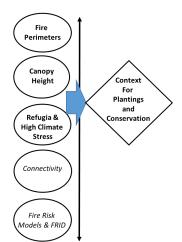
2) Use Cases

The GIS assembled for this project is intended to be flexible, so it can be incorporated into other aspects of landscape planning or management. The image to the right illustrates how the major categories of data can be considered as data elements, and can be combined with other spatial data (circles on the right)



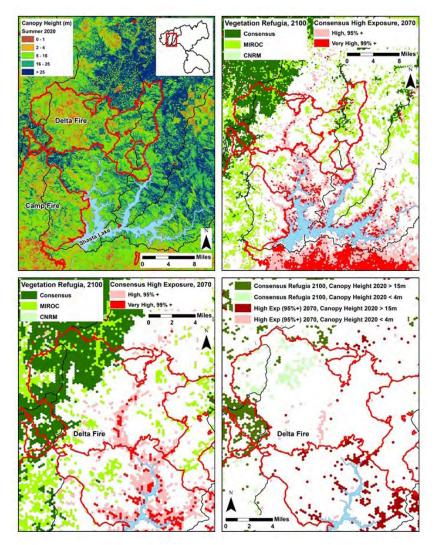
in various sequences to provide context for a range of objectives, examples of which are shown in the diamonds. While conservation planning may seek optimal solutions, in this study we recognized that different groups in the region may have differing objectives, and the flexibility to combine the results in different ways may provide a more accessible framework for general utility. Each of the examples below can be rendered as spatially explicit maps with associated area metrics. However, we show them in graphic form only, for brevity's sake.

Vegetation Structure and Wildfire



Wildfire ignitions and severity are amplified by climate change. In addition to overstocking of forest stands, this has led to communities and agencies trying to reduce risk through forest thinning, prescribed burns and improved land management, and to deploying post-fire recovery strategies that includes modified reforestation methods. Incorporating long-term perspectives of climate risk can help inform selection of strategies for these goals.

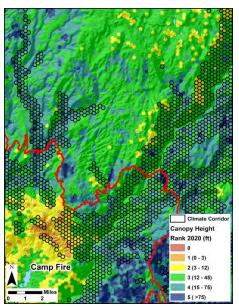
We combined wildfire perimeters with measures of canopy height and climate stress to identify potential areas with different post-wildfire optimal strategies.



The 2018 Delta fire provides an example combining the data to identify different strategies. The upper left map shows the perimeter of the fire with canopy height as measured from summer 2020, using data from the California Forest Observatory (2020). The upper right shows the hexagons that are classes as consensus refugia and high climate stress areas by 2070. By zooming in (lower left) we see the areas within the fire footprint with the same climate exposures. The lower right image shows the climate classes now colorized by seral conditions. Several hexagons appear in dark green within the fire perimeter. These are areas predicted as climate refugia, and that have canopies >15 m. These locations could serve as seed trees or sources of natural reseeding. Areas in pale green are expected to remain climatically suitable for what was there prior to the fire, but that

are in the process of early recovery. These are locations with higher potential for successful reforestation, by these metrics. Areas in bright red have copies > 15 m but are predicted to have climate stress, while areas in pale red have early seral conditions and are expected to have high climate stress, indicating they may be poorer candidates for reforestation.

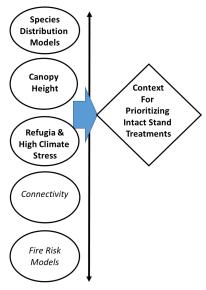




One more example using wildfire perimeters comes from the Camp fire of 2019. In this case the reforestation planning is underway. Here we display vegetation canopy height from 2020, the fire perimeter, and outlined as hollow hexagons, the areas with the highest regional rank for connectivity. Plantings that target forest recovery can use their site locations to additionally consider if a planting will enhance regional connectivity.

Other data that could be used to further define areas includes landscape connectivity and models of potential risk such as the Fire Return Interval Departure (FRID; Safford & Van de Water 2014), models of potential annual tree mortality and, maps of fire severity zones and fire threat, and the locations of areas that have been treated to reduce fuel loads.

Forest Dynamics & Conservation



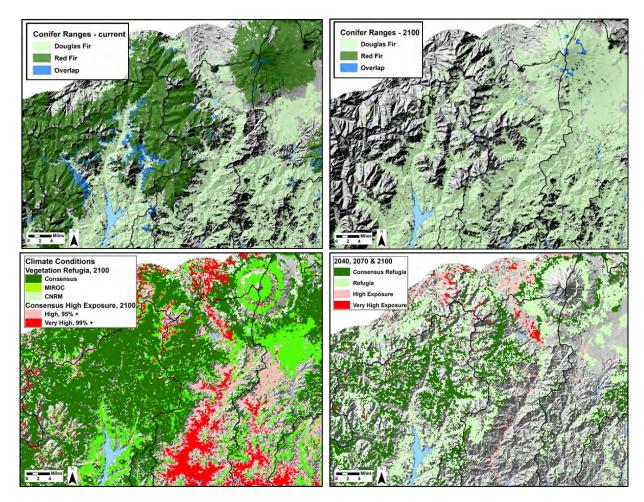
It is impractical to only plan the movement of species and habitats for logistical and other reasons. In addition, preserving existing vegetation, ecosystem functions, and habitats is a major conservation goal.

Forest management at the stand level can promote preservation, particularly when informed by climate change assessments. This use case focuses on two component tree species that make up important conifer forest types in the SRHR: Douglas fir (*Pseudotsuga menziesii*) and red fir (*Abies magnifica*).

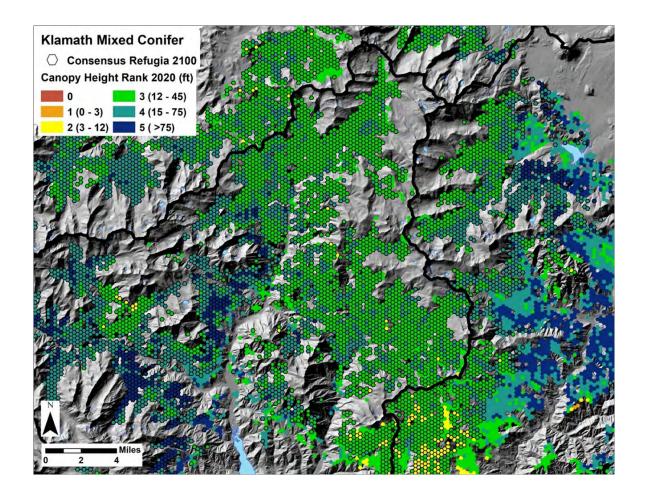
For this example, we used species distribution models, canopy height, and climate exposure to provide spatial context to identify priority areas for forest thinning treatments. The regional connectivity and fire risk models could also be brought into use to further stratify area selections.

The time series of the potential range for Douglas and red fir shows the potential for Douglas fir to move upslope, and the increasing retreat of red fir's current distribution under the hotter and drier GCM tested (upper row, image below).

However, the place-based climate exposure projections (lower row, image below) suggest a large area of consensus refugia in the region. These areas are potential areas where current forests could persist, if protected from stand-replacing disturbances. We can also consider which areas are refugia in each of the three future time periods (lower right panel image).



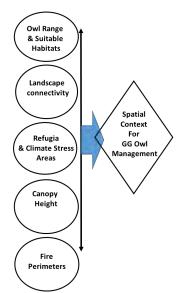
We used canopy height to examine the mixed conifer forest in this region, which includes Douglas fir, considering whether it occurs in consensus refugia areas or not. This map shows the extent of the type, colorized according to canopy height in 2019. Refugia areas are outlined by the 25 acre hexagon boundaries, while non-outlined areas are not refugia. Areas in the tallest height class are possibly areas with less accumulated fuels, if they have late seral structure. Areas in ranks 3 & 4, from 12-75 feet tall, are candidate areas for management to promote late seral condition. Areas in yellow are early seral stands that may be recovering from recent fires. These may be areas in which successful establishment of conifer tree species could offer long-term forest stands.



Focal Species

Planning for conservation or recovery of individual species has long been practice for biologists and is an integral part of the regulatory process for both federal and state agencies. This use case demonstrates how a focal species approach can use the data matrix. We selected the great grey owl (*Strix nebulosi*). This species uses late seral condition coniferous forests and wet meadows. It appears to have short-term resilience to wildfires, as it continued to occupy most meadow sites after the Rim Fire (Siegel et al. 2019). There are between 100-200 pairs in the state.



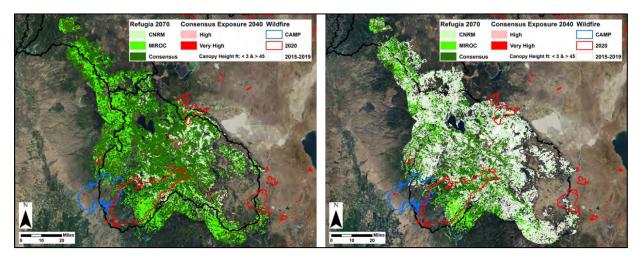


We used the CWHR range map and model to identify the suitable habitats for great grey owl in the SRHR. We examined how the potential range intersected with landscape connectivity, climate refugia, the area of recent wildfires, and measures of canopy height.

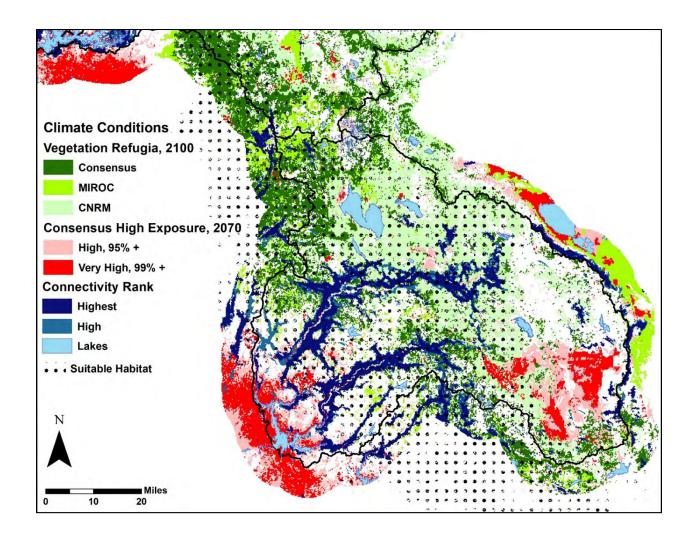
We found suitable habitat in the Feather River watershed, and 816,100 acres of it is in mid-century consensus refugia, decreasing by end century to 230,215 acres. When considering vegetation structure, consensus refugia area within the owl's range with trees over 45 feet tall total 345,775 acres by 2070 decreasing to 80,925 acres by 2100. This analysis excluded younger conifer stands (<45 feet) that could be managed for late seral condition, particularly if they are in consensus refugia areas.

Of those, 2000 acres are remnant stands over 45 feet tall in 2070 consensus refugia, but that decreases to no >45 ft stands by end century. Additionally, within the Feather River watershed consensus refugia for

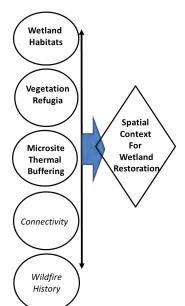
2070, 55,250 acres of canopy >45 ft occurred within the 2020 Claremont-Bear Fire (the largest part of the North Complex Fire). The canopy height data we used predated the North Complex fire, but the analysis could be updated when the next edition of the forest canopy data is released.



We also examined the ranked connectivity for the region. A number of high-ranking corridors pass through the range of the owl. By 2070, considerable climatic stress in the elevations around Lake Oroville suggest that there may be extensive species movement along these corridors. Selecting areas within them to strengthen site resilience may prove to be a good bet.



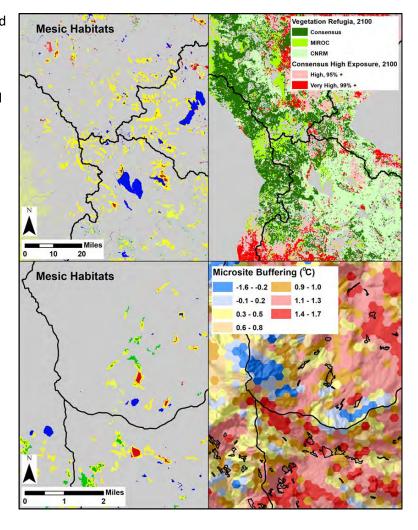
Targeting habitats for water retention



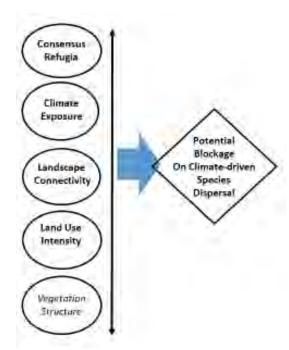
Maintaining hydrological functions is a major issue as climate change progresses, and riparian conservation and restoration is already widely practiced in the SRHR, with the Pacific Forest Trust having conserved 4209 acres in the SRHR region.

However, as snowpack declines with climate change, changes in the hydrology of the SRHR is of increasing concern. Some areas, such as the Modoc National Wildlife Refuge are already incorporating climate change projections into their water management strategies (Esralew et al. 2015). And, the volcanic soils of the Modoc Plateau may be able to provide infiltration functions for ground water for longer in each year before freezing (Thorne et al. 2015).

In this example we look at mapped wet meadows and other mesic habitats. We overlaid them with the consensus refugia maps for the area between the Feather and the Pit rivers. The panel image shows their locations and the corresponding refugia (upper row). We then zoomed in and examined the distribution of the mesic features and how they relate to thermal buffering capacity within each hexagon (lower row).

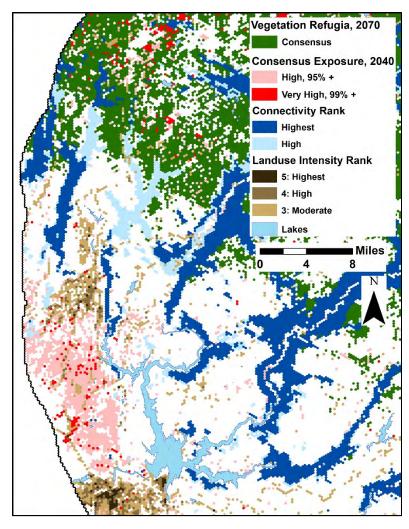


Assessing land use blockages to connectivity



While land use and connectivity are somewhat opposite, and tend not to intersect, land use is a major factor just east and north of the largest area of high climate exposure. In addition, there is a considerable amount of moderate land use shown that is interspersed within the refugia area, and at the terminus of some of the high level connectivity corridors.

Species needs for climate-driven dispersal can be blocked by human land use. This example illustrates how the assembled data can be used to evaluate impediments to movement towards mid-term climate refugia from near-term high climate exposure areas. We use the western boundary of the Feather river watershed and show the 2070 consensus refugia (areas in green) and the 2040 high climate exposure areas (areas in red). We then layered on the two highest connectivity ranks (blue colors). Finally we brought in the three highest levels of land use intensity (brown colors).



Methods

Final Report Model Description: Model description, methods, data, assumptions

The goal of this study was to identify key areas within the region for a variety of climate-adaptive conservation and resilience objectives. Particularly, we were interested in what areas ranked highly as refugia for existing vegetation; critical landscape linkages for species movement; locations of high potential biodiversity; and areas with high potential as climatic microrefugia. We also wanted to consider the current structure of existing vegetation and identify forest areas that could be treated in a climate change-anticipating way, such as managing mid-seral forests for old growth conditions in areas that are climate refugia, and priority post-wildfire areas to restore to maintain landscape connectivity for future biodiversity movement.

To accomplish these goals, we compiled a large collection of geographic data, and considered which components and what sequence of analyses were needed to answer different landscape management objectives. We selected a 25 acre (10 hectare) hexagon as the unit for spatial analyses for two reasons: first, it provides a basis for comparisons across the entire extent of the study; and second, because this level of detail is relevant for land managers considering different treatments such as riparian restoration, forest thinning, conservation easements, etc. We created a hexagon grid layer in GIS consisting of 282,687 hexes in the 5 watersheds (6,985,348 acres) and 408,948 hexes (10,105,325 acres) across the watersheds and including a 6 mile (10 km) buffer.

We sampled different data into the framework. Geographic input data resolution ranged from 10 m topography to 270 m climate data to polygon maps of different resolutions. For five primary data layers, we ranked the hexagons into 5 classes, from low to high, creating weights that could then be combined in various ways, as described below for different objectives. We also used some reference data as overlays, but without incorporating them into the hexes to evaluate or further define some objectives.

This section describes the datasets collected, how they were sampled into the hexagon framework, and the methods for prioritizing areas for the major objectives. Additional information is located in the methods appendix.

INPUT MAPS – ORIGIN AND MANUFACTURE

This section describes the creation of maps that were used in the analysis. The majority of these maps represent a compilation of existing data. Here we provide the source and steps used for the primary and secondary maps. Uses and processing of input reference maps are described in the appendix.

<u>Primary Maps</u> Vegetation Refugia / Climate Exposure	Secondary Maps Land Use Intensity	Input Reference Maps Vegetation Map
Landscape & Climate Connectivity	Vegetation Structure & Wildfire	10 m DEM
Biodiversity /Species Richness	Future Ranges of Selected Species	Land Tenure
Microrefugia		Climate Data
		Fire Return Interval
		Hydroclimatic Model

The list above also is the order in which the map methods are presented below. The following table describes the data that went into each analysis and map, followed by

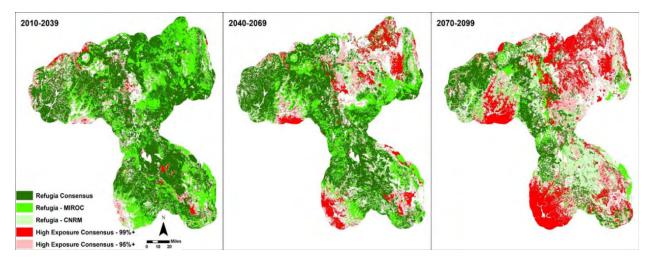
Climate and Hydrology Data	Downscaled Baseline & Future Climate (USGS)	Raster - 270m
FVEG - CalFire (FRAP)	https://frap.fire.ca.gov/mapping/gis-data/	Rasster - 30m
Vegetation and Climate Refugia	Vegetatiave Climate Exposure (UCD Modeling)	Raster - 270m
Landscape	& Climate Connectivity	
California Essential Connecitvity	Caltrans/CDFW	Polygon
Omniscape Climate Connecivity	The Nature Conservancy	90 m
CDFW Land Facet Connectivity	https://wildlife.ca.gov/data/BIOS	Polygons
Biodiver	rsity / Species Richness	
Habitat Suitabiltiy Within Species Range - CDFW rules	UC Davis Modelling	Raster - 30m
Tree Species Distribution Models	UC Davis Modelling - Thorne & Choe	Raster - 270m
California Natural Diversity Database (CNDDB) - CDFW	https://wildlife.ca.gov/Data/CNDDB/Plants-and-Animals	Point & Polyg
	Microrefugia	
National Elevation Dataset	www.usgs.gov/core-science-systems/ngp/tnm-delivery	Raster - 10m
Solar Radiation Model	UCD - Modeling by Hollander	Raster - 25m
Environmental Lapse Rate Model	UCD - Modeling by Boynton	Raster - 10m
Cold Air Pooling	USGS Flint & Flint BCM Model	Rasgter - 270n
Vegetation Stru	ucture, Wildfire, and Recovery	
Canopy Height - SALO Sciences	https://forestobservatory.com/	Raster - 10m
FVEG - CalFire (FRAP)	https://frap.fire.ca.gov/mapping/gis-data/	Raster - 30m
Bulk Density & Number of Canopies - SALO Sciences	https://forestobservatory.com/	Raster - 10m
Forest Tree Mortality Model - SALO Sciences	Not public yet	Raster - 1km
	https://frap.fire.ca.gov/mapping/gis-data/; https://data-	
Fire Perimeters - CALFIRE, Nat'l Interagency Fire Center	nifc.opendata.arcgis.com/datasets/wildfire-perimeters	Polygon
La	nd Use Intensity	
FVEG - CalFire (FRAP)	https://frap.fire.ca.gov/mapping/gis-data/	Raster - 30m
ESRI Roads	Esri	Polyline
Initial Co	nservation Assessment	
California Protected Areas Database (CPAD)	GreenInfo Network	Polygon
Califrnia Conservation Easement Database (CCED)	GreenInfo Network	Polygon
State Refuge Boundaries	California Department of Fish and Wildlife	Polygon
American Indian Reservations/Federally Recognized		
Tribal Entities	Governer's Office of Emergency Services	Polygon
Inpu	ut Reference Maps	
National Elevation Dataset	www.usgs.gov/core-science-systems/ngp/tnm-delivery	Raster - 10m
Landscpae Management Units	Information Center for the Environment - UCD	Raster - 30m
Basin Characterization Model	USGS	Raster - 270m
Fire Return Inteval Departure (FRID)	http://www.fs.usda.gov/main/r5/landmanagement/gis	Raster - 30m
Fire Threat	https://frap.fire.ca.gov/media/9792/fthrt14_2.zip	Raster - 30m
	https://frap.fire.ca.gov/media/9630/calfire_priorityprojets	
CalFire Priority Projects	19 4.zip	Polygon

Primary Maps

Vegetation Refugia / Climate Exposure

We used the CAL FIRE's 2015 vegetation map to calculate what areas of each mapped vegetation type remain in frequently occupied current climate conditions. We mapped vegetation exposure by vegetation type under two GCMs - a hotter and drier (MIROC-ESM) and a warmer and wetter future (CNRMCM), and under two emission scenarios, RCP4.5 and RCP8.5 (Thorne et al. 2017a, b). Areas of vegetation refugia from the two GCMs that intersect are considered consensus vegetative refugia (Thorne et al. 2020). We mapped these areas within the SRHR for three future times 2010-2040; 2040-2070; and 2070-2100. We also mapped areas considered to have high climate stress, defined as the last

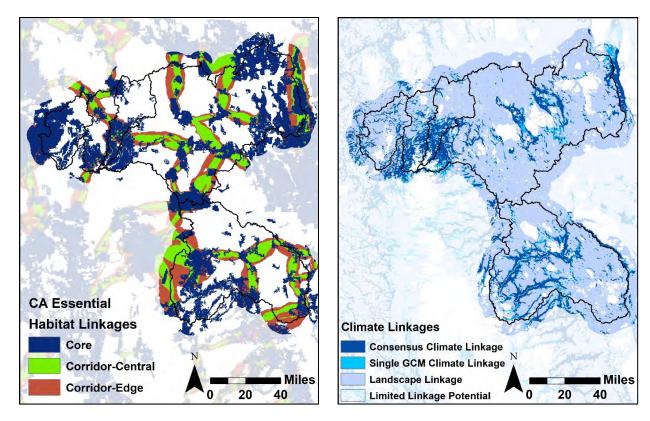
5 and 1% of the climate frequency distribution for each vegetation type (Methods Appendix). These climate exposure data are used in a wide range of analyses described below.



Landscape & Climate Connectivity

We examined 5 maps of connectivity, and found two that systematically covered the entire region: a version of the California Essential Connectivity (CEC) map that had been updated by CDFW; and The Nature Conservancy's climate linkages map. The other connectivity maps considered were a land facet map (CDFW) that focuses on northern Sierra foothills, and models of connectivity for Fisher and Martin.

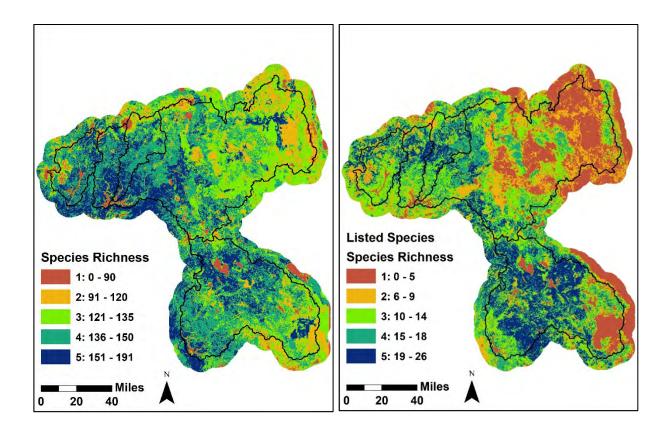
We ranked the CEC maps by core, high-value corridor, peripheral corridor, and not-in-network. We found 13 categories of climate linkages in TNC's maps and classed them into 4 categories: limited regional potential; present-day & intact landscapes; links from current climates to their analogs under a single GCM; and links from current climates to their analogs under projections from the two future climates considered (Methods Appendix).



We then summarized the rank value of each connectivity map in the hexagons, combined the ranks and classed the outputs into 5 levels of connectivity priority.

Biodiversity / Species Richness

California's Wildlife Habitat Relationships model (WHR) identifies what habitats are commonly used by each vertebrate species in the state. The agency uses a statewide map developed in 2015 that provides the spatial pattern of each habitat as a way to map the potential range of each vertebrate species. We identified which vertebrate species have ranges in the study area, and we used the map of the WHRs to identify where in the SVH they may exist. We summarized the potential presence or absence of each of the species in each hexagon. We also identified the listed species and summarized those by hexagon as well. This permits an estimate of the potential vertebrate species richness by hexagon. For the full number of potential species richness (left, below) the rank numbers refer to: 1 = 0.90; 2 = 91.120; 3 = 121.135; 4 = 136.150; 5 = 151.191. For potential species richness of listed species (right, below) the rank numbers refer to: 1 = 0.5; 2 = 6.9; 3 = 10.14; 4 = 15.18; 5 = 19.26.



The species richness maps can be used with the vegetation refugia, as in the example below that shows listed species richness in vegetation refugia and in areas with high future climate exposure.

Microrefugia

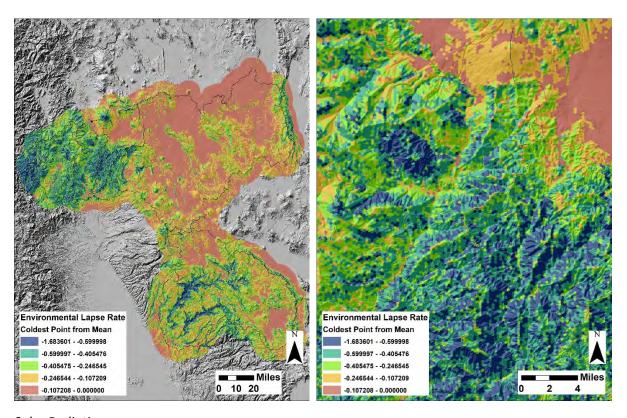
The extent to which management units may retain current climate conditions is of interest for Conservationists. A challenge for calculating the strength, or buffering capacity, of microrefugia is identify the strength of the phenomenon, and then link it to projected climate change. We were able to model two types that are occurring within a 25 acre area, which could be considered true micro-scale refugia. The third, cold air pooling, is active across larger spatial scales, but not across the entire region. We consider cold air pooling to be a meso-scale phenomenon. We mapped the extent of cold air pooling and it's relative strength across the landscape. But we did not summarize the effect into hexagons because it is fundamentally a process-driven metric, is stronger at some times of year than others, and therefore requires dynamic modeling to capture how it will perform under future warming.

We identified two types of physical microrefugia (Dobrowski 2011) that could be mapped and summarized into the hexagon framework, Environmental Lapse Rate and Solar Radiation influence on air. Additionally, cold air pooling (CAP) was observed in the air temperature, but was not quantified for regional modeling because of its temporal (seasonal) variability. Further modeling is necessary to capture the thermal buffering CAP can provide in a warming climate (Methods Appendix).

Environmental Lapse Rate

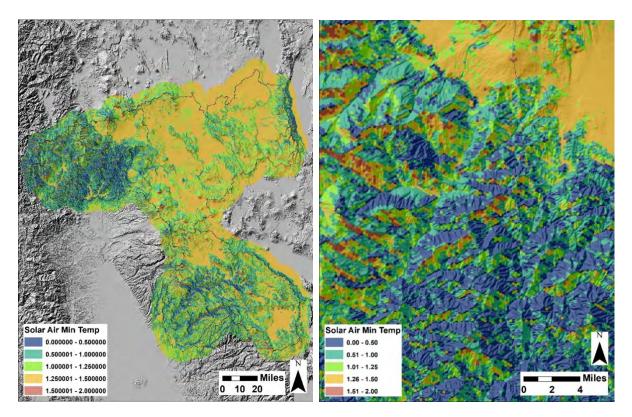
We identified the mean elevation of each hexagon using a 10 m digital elevation model, which provides an average of 976 grid cells per hexagon. We calculated and then assigned the annual mean temperature from our baseline temperature maps of annual mean minimum and maximum temperatures, 1981-2010 (Thorne et al. 2017). We used the range of elevation to identify the highest and lowest points within the hexagon and then applied the environmental lapse rate to calculate the range of temperature values within the hexagon. The highest point is cooler than the mean elevation, based on the lapse rate. That point represents the last location within a hexagon that will retain the mean temperature as climate warms.

Negative effect = (Average Elevation – Maximum Elevation) x 0.00649606Areas with steep topography have the highest buffering capacity.



Solar Radiation

We modeled solar radiation using a 25 m DEM and converted the solar loading from MJ/second to degrees C using a table of conversion values determined in an independent study (Curtis et al. 2014; Methods appendix). Air temperature was never cooled by lack of solar radiation, and values ranged from 0 -2.5 °C. We use the lowest value found in each hexagon to represent the buffering (or lack thereof) from solar loading.



Secondary Maps

Vegetation Structure

Ds David Marvin and Christopher Anderson of SALO Sciences provided an early release of data they also provide via their website, the California Forest Observatory (2020; https://forestobservatory.com/). They provided gridded data at 10 m resolution for five of the metrics that they measure statewide: canopy base height, canopy bulk density, canopy cover, canopy height, and ladder fuels. We used mean canopy height in each hexagon as a rough index for forest seral condition. Bulk density and canopy layers can be used in conjunction with other data to prioritize forest thinning.

Fire Perimeters

We used two sources of data to map fire perimeters. CALFIRE's fire perimeter data was used for all years up to 2019. Fire perimeters for 2020 were downloaded from the National Interagency Fire Center.

Land Use Intensity

We summarized land use intensity in each 25 acre hexagon using the weighted linear extent of 3 types of roads (U.S. Streets – part of StreetMap USA – the "ESRI road layer") and the extent of human-altered landcover types that represent landuse.

We weighted the road types and measured the length of each road type, ranging from dirt roads to divided interstate highways within each hexagon. We classed the 3 road types into three levels of impact. Large roads were given highest impact (1 foot = 1 foot); moderate impact roads were downweighted to 1 foot = 0.5 feet, and dirt roads were weighted to 1 foot = 0.33 feet. We then summed the overall road lengths in each hexagon. We classed the road lengths into 5 levels of road impact (Methods

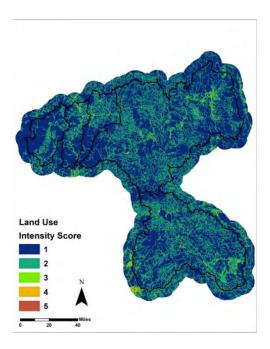
Appendix). From 0-10' length of road we considered to have no impact (weighting of 1; 65.1% of all hexagons), while the highest levels impact level were for hexagons in which road length could completely split a hexagon (weighting 4; 0.1% of all hexagons), or where hexagons could be transected two or more times by the roads within them (weighting 5; 5 hexagons).

We measured the area of landuse in each hexagon, according to the WHR classification of landcover types. We considered Urban (URB) and Eucalyptus (EUC) the most impacting. Ten types that indicate agriculture types were down-weighted to 1 square meter = 0.33 square meter, because these types are useable by some wildlife species. The ten agricultural types are:

Crop (CRP); Dryland Grain Crops (DGR); Irrigated Grain Crops (IGR); Irrigated Hayfield (IRH) Irrigated Row and Field Crops (IRF); Rice (RIC); Orchard - Vineyard (OVN); Deciduous Orchard (DOR); Evergreen Orchard (EOR); Vineyard (VIN)

We summed the area of each type within each hexagon and multiplied it by its weightings. We classed the output values into four levels of impact: No Impact (weight 1; 93.2% of hexagons); 0.1-33% of hexagon occupied (weight 2; 4.5%); 33-65% of hexagon occupied (weight 3; 2.1%) and >65% area occupied (weight 4; 0.2%).

We combined the road and landuse metrics, creating 20 classes that we then simplified to 5 levels ranging from 1 (No Impact; combined scores 11) to 5 (High; combined scores Roads 4 & 5; Landuse 2-4) (Methods Appendix).



Future Ranges of Selected Species

We selected four species; Douglas Fir, Red Fir, Black Oak, and Ponderosa Pine, to examine for potential shifts in range.

Species distribution models for 4 species were obtained from previous work done for CAL FIRE (Thorne et al. 2016b) statewide and clipped to our region.

In the end we only used two species to examine their overlapping range dynamics: Douglas fir, with an expanding upwards range, and red fir with a retreating upslope range.

We compared their ranges in one of the use case graphics.

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Methods Appendix

This appendix is meant to support the methods in the primary report. It provides additional information on data sources, processing, and analyses. It has two sections.

- 1) How we processed material into the hexagon framework
- 2) Description of the input maps and how they were processed.

1) How we processed material into the hexagon framework

We created a hexagon map for the region to summarize a wide variety of data into spatial units that are comparable across the region and also to represent an area that is relevant for site-level plans such as restoration or forest thinning. The hexagon layer has 282,687 hexes within the 5 watersheds, and 408,948 hexes in the 5 watersheds plus the 10 km buffer area.

Integrating data into the hexes

Data from a variety of grid scales including 10, 30, 90, and 270m was added using the sample tool with Hexagon centroids for those at the 270m scale and by using the zonal statistics tool with Hexagon boundaries for the ones with smaller cell sizes.

Some data types, such as vegetation were simply sampled for the majority type found in each hexagon. Other data used for analyses, such as the digital elevation model, were sampled for mean, minimum and maximum values.

The order of data types presented is the same as in the report's main methods section. If there is no additional information, the data type name is still included, but the section is blank.

2) Description of the input maps and how they were processed

This section follows the same organization as presented in the main report's sequence of maps described, with primary, secondary and input maps documented in turn.

Primary Maps

Vegetation Refugia / Climate Exposure

These values were calculated for the mapped extent of each vegetation type found in the region. Exposure was based on the extent of the vegetation types as found in all California, and for two GCMs that bracket precipitation forecasts by +/- about 25% annual precipitation (Thorne et al. 2017).

What were the inputs:

- 1. Vegetation Map (described in Reference map section)
- 2. Climate Exposure data
 - a. GCMs: CNRMCM & MIROC-ESM

b. RCPs: 4.5 & 8.5c. Time periods

i. Current: 1981-2010

ii. Future: 2010-2039 ("2040"), 2040-2069 ("2070"), 2070-2099 ("2100")

d. Data values sampled:

- We analyzed the spatial distribution of each vegetation type from the vegetation map independently, as noted below, and then reassembled the output maps for each type to visualize climate exposure across the entire region.
- ii. For all time periods
 - 1. Continuous climate exposure (21 frequency classes); classified exposure (5 classes) (Thorne et al. 2016; 2017; 2020);
- iii. For Future time periods
 - 1. refugia, high exposure, very high exposure, and moderate exposure; both consensus and single model results (10 classes)

How was each input reclassed

- 1. Original data has climate exposure in 21 frequency classes ranging from 0 to 100 (100 being the most exposed areas) and non-analog
 - a. For all time periods we reclassified this into 5 Exposure Classes:

i. 1: 0-80%: Non-stressful conditions

ii. 2: 80-95%: uncertain

iii. 3: 95-99%: stressful conditions

iv. 4: 99-100%: very stressful conditions

v. 5: Non-Analog: climate conditions not seen within current distribution

How were they combined

b. For future time periods we reclassified this into 10 classes:

CNRM Exposure Class	MIROC Exposure Class	Future Exposure Score	Future Exposure Score Description
1	1	Α	Refugia - Consensus
1	2	D	Refugia - CNRM Only
1	3	D	Refugia - CNRM Only
1	4	D	Refugia - CNRM Only
1	5	D	Refugia - CNRM Only
2	1	E	Refugia - MIROC Only
2	2	Н	Moderate Exposure - Consensus
2	3	1	Moderate Exposure - CNRM Only
2	4	1	Moderate Exposure - CNRM Only
2	5	1	Moderate Exposure - CNRM Only
3	1	E	Refugia - MIROC Only

3	2	J	Moderate Exposure - MIROC Only
3	3	В	High Exposure - Consensus
3	4	G	Very High Exposure - MIROC Only
3	5	G	Very High Exposure - MIROC Only
4	1	E	Refugia - MIROC Only
4	2	J	Moderate Exposure - MIROC Only
4	3	F	Very High Exposure - CNRM Only
4	4	С	Very High Exposure - Consensus
4	5	С	Very High Exposure - Consensus
5	1	E	Refugia - MIROC Only
5	2	J	Moderate Exposure - MIROC Only
5	3	F	Very High Exposure - CNRM Only
5	4	С	Very High Exposure - Consensus
5	5	С	Very High Exposure - Consensus

How were they inputted to the hexagons

Sample tool with Hexagon centroids to select the 270m frequency value from a climate grid, and assign the current and future climate exposure, or risk, to that cell.

Landscape & Climate Connectivity

What were the inputs

- 1. The Nature Conservancy (TNC): Omniscape
- 2. California Essential Habitat Connectivity (CEHC), a map product originally developed by Caltrans, and updated by CDFW.

How was each input reclassed

- 1. Omniscape/TNC
 - a. Received Connectivity rasters from The Nature Conservancy (can also be viewed at https://omniscape.codefornature.org/)
 - i. 90m raster with 13 categories
 - b. Crosswalked the 13 categories to 4 and ranked them 0-3 (3 is high, 1 is low, 0 is limited connectivity)
 - i. Connectivity Score Description
 - ii. 0 Limited regional connectivity potential
 - iii. 1 Intact landscape
 - iv. 2 Climate linkage (HADGEM2-ES) through an intact landscape
 - v. 2 Climate linkage (CNRM_CM5) through an intact landscape
 - vi. 3 Climate linkage (both climate models) through an intact landscape
 - vii. 1 Multiple present-day linkage options

- viii. 2 Climate linkage (HADGEM2-ES) among multiple present-day linkage options
- ix. 2 Climate linkage (CNRM_CM5) among multiple present-day linkage options
- x. 3 Climate linkage (both climate models) among multiple present-day linkage options
- xi. 1 Present-day linkage
- xii. 1 Climate linkage (HADGEM2-ES) within a present-day linkage
- xiii. 1 Climate linkage (CNRM CM5) within a present-day linkage
- xiv. 3 Climate linkage (both climate models) within a present-day linkage

2. CEHC

- a. Used General Natural Landscape Blocks and Essential Connectivity Areas from the 8 layers available.
- b. Core areas were defined as areas within the Natural Landscape Blocks
- c. Corridor areas were defined as areas within the Essential Connectivity Areas
 - i. These areas were split into 2 groups based on permeability
 - 1) Permeable areas identified using layer from CDFW
 - a. Layer name: ds620_EssentialConnectivityAreas_CaliforniaEssentialHabitatConnectivity
 - b. Areas in the top 2 categories (score 0-33 of 100) were classified as "more permeable".
- d. Resulting 4 categories:
 - i. Core Areas
 - ii. Corridor More Permeable
 - iii. Corridor Less Permeable
 - iv. All other Areas

How were they combined

- 1. Combining TNC and CEHC datasets
 - a. Created a Connectivity Ranking scale between 0-5, with 0 being limited connectivity, and areas identified by either input layers getting a score ranging from low (1) to high (5).
 - b. Crosswalk to overall Connectivity Score

				CEHC													
			Other areas	Corridor - Less Permeable	Corridor - More Permeable	core											
I		0	0	1	2		2										
	TNC	1 (low)	1	2	3		3										
	TNC	2	2	3	4		4										
		3 (high)	3	4	5		5										

How were they inputted to the hexagons

Zonal statistics - Majority

Biodiversity / Species Richness

What was the input

1. Received species range maps and the weightings for each species of which habitat types they use. (CDFW). We selected all vertebrates whose ranges intersected with our region.

We scored the WHR types in the 30m raster vegetation map to identify the suitable habitat of each species, within its range in our area.

How was each input reclassed

- 1. Resampled raster to retain only areas where habitat score > 0
 - a. These are areas of suitable habitat within the range of each species

How were they combined

- 1. Summed up the suitable habitat for all species that overlapped with the study area, by 30 m grid cell.
 - b. 261 birds, 105 mammals, 21 amphibians and 31 reptiles
- 2. Used natural breaks to divide the distribution into 5 groups called Biodiversity Rankings, with 1 being low and 5 being high.
 - a. 1 = 0.90
 - b. 2 = 91-120
 - c. 3 = 121-135
 - d. 4 = 136-150
 - e. 5 = 151-191

How were they inputted to the hexagons

3. Performed zonal statistics, used the average number of potential species per hexagon to assign the hexagon a Potential Species Richness (Biodiversity) Score using the table above. For example, a hexagon with an average of 160 species, get a score of 5 (high biodiversity).

Other notes:

- 4. Repeated the previous 3 steps for listed species only
 - a. Listed species = ones from CDFW extraction
 - i. 26 birds, 24 mammals, 11 amphibians and 2 reptiles

Microrefugia

What was the input

10m and 25m DEMs

How was each input reclassed

Solar radiation to Degree C

- 1. We ran a solar radiation model with the 25m DEM (2 days per month x 12 months)
- 2. Solar radiation raster units = Yearly total in watt-hours/m2

Convert yearly watt-hours to daily megajoules

$$\frac{Watt-hours}{year} \times \frac{1 \ year}{365 \ days} \times \frac{3600 \ J}{Watt-hour} \times \frac{1 \ MJ}{10^6 \ J}$$

3. Convert daily MJ to degree C using a conversion table from Curtis et al. (2014).

Daily MJ/sec	Degree C
< 7.5	0
7.5 - 10.5	0.25
10.5 - 12.5	0.5
12.5 - 15	0.75
15 - 17.5	1
17.5 - 20	1.25
20 - 22.5	1.5
22.5 - 25	1.75
25 - 27.5	2
27.5 - 30	2.25
> 30	2.5

Elevation range to Degree C

- 1) Zonal Statistics was performed on 10m DEM for each hex
 - a. Range was used with environmental lapse rate to calculate "buffering capacity" within the Hex

How inputted into hexagons:

- 1. Solar Radiation (25m raster)
 - a. The minimum solar radiation value was used with conversion table to calculate the temperature equivalent of lowest Solar Radiation load within the hex
- 2. Elevation (10m raster)
 - a. Range of elevation within the hex was used with environmental lapse rate to calculate the coldest point within the hex
 - i. (Average Elevation Maximum Elevation) x 0.00649606
- 3. Microsite buffering capacity was calculated by adding the temperature equivalent of lowest Solar Radiation load with the coldest point within the hex

Secondary Maps

Vegetation Structure

Fire Perimeters

Land Use Intensity Score

- 1. Roads
 - a. Used Esri Road Class (0-9) and converted to 3 impact ranks

ESRI Road Class	Road Class Impact Rank	Description
0	1	Major Highway
1	1	Major Highway Connector
2	1	Highway
3	1	Major Road
4	2	Local Road
5	3	Minor Road or Vehicular Trail
		Special Road Features (Roundabouts, Service
6	1	drives)
7	1	Ramps
8	1	Ferries
9	3	Private Road

- b. Summed road feet per hex per impervious road class (1-3)
- c. Calculated Weighted Road Length within each hexagon

- i. Weighted Road Length = 1 x RoadFeet(Impervious Road Class 1) + 0.5 x RoadFeet(Impervious Road Class 2) + 0.33 x RoadFeet(Impervious Road Class 3)
- d. Classified Weighted Road Lengths into 5 weight classes

Road	WeightCls	VeightCls label #										
Weight												
0-10	1	no	266288	65.1%								
10-1300	2	low	134692	32.9%								
1300-	3	med	7581	1.9%								
2600												
2600-	4	high	382	0.1%								
5218												
>5218	5	highest	5	0.0%								

2. Landuse

- a. Have WHR percentage (0-100) by Hex
- b. Calculated Weighted Landcover Percent within each hexagon
 - i. Weighted Landcover Percent =

100% (Urban + Eucalyptus Percent Cover)

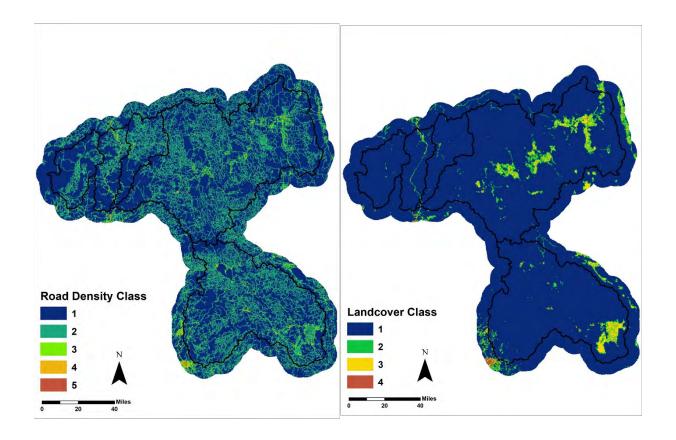
+ 33% (Cropland + Dryland Grain Crop + Deciduous Orchard + Evergreen Orchard + Irrigated Grain Crop + Irrigated Row and Field Crop + Irrigated Hayfield + Pasture + Rice + Vineyard Percent Cover)

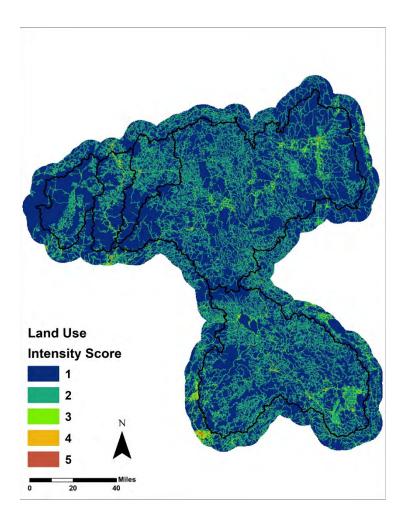
c. Classified Weighted Landcover Percent into 4 weight classes

	Weighted			
Weighted	Landcover			
Landcover Percent	Class		# hexs	
0-0.1 %		1	381207	93.2%
.1-33 %		2	18562	4.5%
33-65 %		3	8418	2.1%
65-100 %		4	761	0.2%

- 3. Combined Roads and Landuse to get Land Use Intensity Score
 - a. Combine Score = 10 x (Weighted Road Class) + (Weighted Landcover Class)

Combine		Weighted	Land Use Intensity		
Score	Weighted Road Class	Landcover Class	Score	# hex	
11	No Roads	Natural Lands	1	252439	61.7%
12	No Roads	Low Human Impact	1	8692	2.1%
13	No Roads	Med Human Impact	2	5127	1.3%
14	No Roads	High Human Impact	2	30	0.0%
21		Natural Lands	2	123305	30.2%
	Low-density Roads				
22	Low-density Roads	Low Human Impact	2	8369	2.0%
23	Low-density Roads	Med Human Impact	3	2751	0.7%
24	Low-density Roads	High Human Impact	3	267	0.1%
	Medium-density				
31	Roads	Natural Lands	3	5373	1.3%
32	Medium-density Roads	Low Human Impact	3	1432	0.4%
	Medium-density	Med Human			
33	Roads	Impact	4	463	0.1%
	Medium-density	High Human			
34	Roads	Impact	4	313	0.1%
41	High-density Roads	Natural Lands	4	90	0.0%
42	High-density Roads	Low Human Impact	5	69	0.0%
43	High-density Roads	Med Human Impact	5	72	0.0%
		High Human			
44	High-density Roads	Impact	5	151	0.0%
51	Highest-density Roads	Natural Lands	n/a	0	0.0%
52	Highest-density Roads	Low Human Impact	n/a	0	0.0%
53	Highest-density Roads	Med Human Impact	5	5	0.0%
54	Highest-density Roads	High Human Impact	n/a	0	0.0%





Canopy Height Score

Received Fall 2019 Canopy Height Raster from Salo Sciences (California Forest Observatory 2020). Performed zonal statistics to get the average canopy height per hexagon. Used natural breaks to classify the heights into 5 classes.

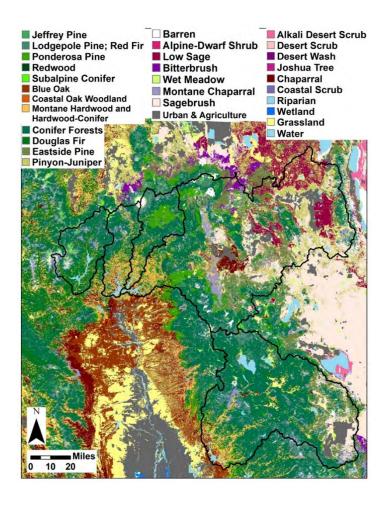
Future Ranges of Selected Species

Received the species range maps and habitat models for all vertebrate species in California from CDFW. For the xxx vertebrate species that overlapped with our study area, we selected just the suitable habitats within their range (defining suitable as having a WHR based landcover score greater than 0), then spatially added them.

Input Reference Maps

Vegetation Map

- 1. FVEG (30m raster) converted to polygon and unionized to Hex grid to calculate:
 - a. Percentage of each WHR type within each Hexagon (0-100)
 - b. The WHR type that had the majority coverage within each Hexagon



10 m DEM

Zonal statistics were performed on a 10m DEM to get the average and range of elevation within each hexagon. These statistics were used when examining the microrefugia characteristics (section XX)

Land Tenure

- 1. Tribal land
 - a. Source: https://gis-calema.opendata.arcgis.com/datasets/23348a6fb3e44322a0c0a862aba62a24_0
 - b. Description: The American Indian Reservations / Federally Recognized Tribal Entities dataset depicts feature location, selected demographics and other associated data for the 561 Federally Recognized Tribal entities in the contiguous U.S. and Alaska.

Categories included are: American Indian Reservations (AIR), Federally Recognized Tribal Entities (FRTE) and Alaska Native Villages (ANV).

2. Public Land

a. CPAD

i. Version: 2020a

ii. Source: https://www.calands.org/cpad/

iii. Description: The California Protected Areas Database (CPAD) is a GIS dataset depicting lands that are owned in fee and protected for open space purposes by over 1,000 public agencies or non-profit organizations. CPAD depicts the wide diversity of parks and open spaces in California, ranging from our largest National Forests and Parks to neighborhood pocket parks.

3. Easements

a. CCED

i. Version: 2020a

ii. Source: https://www.calands.org/cced/

iii. Description: CCED is a GIS database defining easements and deed-based restrictions on private land. These restrictions limit land uses to those compatible with maintaining it as open space. Lands under easement may be actively farmed, grazed, forested, or held as nature reserves. Easements are typically held on private lands with no public access. CCED represents California in the National Conservation Easement Database (NCED), a national inventory of lands conserved as easements. NCED is managed by a consortium of nongovernmental organizations including: Ducks Unlimited, the Trust for Public Land, Defenders of Wildlife, Conservation Biology Institute, and NatureServe.

4. State Refuges

a. Publication date: 8/21/20 by CDFW

b. Source: https://wildlife.ca.gov/Data/GIS/Clearinghouse

c. Description: Boundaries of California State Fish and Game Refuges, Fish Refuges, Game Refuges, Waterfowl Refuges, Quail Refuges, Marine Life Refuges, and Burro Santuary as defined in the Fish and Game Code Division 7 Chapter 2. Special rules of take and possession apply to the areas designated (see Division 7 Chapter 1).

Goal: Classify the study area into 3 Land Ownership classes: Public, Private, and Tribal

Processing steps:

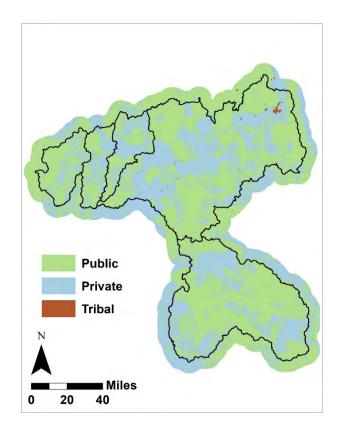
- 1. CPAD and State Refuge areas were added as Public
- 2. Easements were added as Private
- 3. Tribal Land was added as Tribal

Result:

PubLandCode	PubLandDesc	area_acres
1	Public	6214007
2	Private	3877791
3	Tribal	13635

Result by watershed (acres)

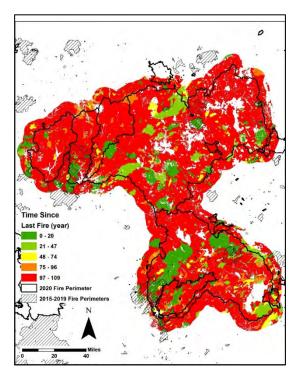
	Public	Private	Tribal
Feather	1515860	790184	427
McCloud	233924	201805	0
Pit	2085733	1307449	11004
Upper			
Sacramento	216298	162603	3
Upper Trinity	331909	128022	0
Buffer	1830283	1287729	2201



Climate Data

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Fire Return Interval Departure



We used the Fire Return Interval Departure (FRID; Safford & Van de Water 2014) to evaluate seral condition and fire risk in some of the use cases.

Hydroclimatic Model (Basin Characterization Model)

We used the outputs from the Basin Characterization Model (BCM). The model uses downscale PRISM climate data (Tmax, Tmin, PPT) at 270 m grid scale for historical data. It then uses bias-corrected future projections also downscaled to 270 m to output a series of variables including April 1st snowpack, Runoff, Recharge, Potential Evapotranspiration, Actual Evapotranspiration, and Climatic Water Deficit (Flint & Flint 2012, Flint et al. 2013, Thorne et al. 2015). We used 30-year summaries of annual values to assess change from a baseline period of 1981-2010.

Results Table Appendices

This section is comprised of 4 Excel tables that are zipped and available as a separate download.

The values were derived in the following manner:

We converted all rasters of different grid scale to 270m and use the Combine tool.

Exported the raster value attribute tables (VAT) to MS Access to perform crosstab queries that summarize the count of cells in each category. The cell count was then converted to area using a conversion factor of:

18.013982 acres per 270m grid cell.

The results were formatted in Excel.

GIS Appendices

This section is comprised of 2 geodatabases that are available as a separate download.

The first geodatabase, "Hexagon Data", contains the values we embedded in the hexagons.

The second geodatabase, "Input Data" contains input and contextual data.

These are the final extents of the climate exposure analysis

There are 2 tabs

SumByRefugiaAndConsensusHighExp SummariesBy5ExposureClasses Refugia (both consensus and by GCM) & Consensus High Exposure Summary by the 5 Exposure Classes

		RCP8.5										RCP4.5									
			High	Very High				High	Very High				High	Very High				High	Very High		
		Refugia -	Exposure -	Exposure -	Refugia -	Refugia -	Refugia -	Exposure -	Exposure -	Refugia -	Refugia -	Refugia	Exposure -	Exposure -	Refugia -	Refugia -	Refugia -	Exposure -	Exposure -	Refugia -	Refugia -
	Total	Consensus	Consensus	Consensus	CNRM Only	MIROC Only	Consensus	Consensus	Consensus	CNRM Only	MIROC Only	Consensu	Consensus	Consensus	CNRM Only	MIROC Only	Consensus	Consensus	Consensus	CNRM Only	MIROC Only
				2100 - acres					2100 - percent	00 - percent				2100 - acres					2100 - percent		
Statewide	100,937,908	12,442,311	11,589,818	36,782,029	7,997,397	14,945,030	12%	11%	36%	8%	15%	31,626,19		15,128,466	10,209,388	16,491,783	31%	10%	15%	10%	16%
Study Area	9,945,808	1,879,723	1,765,803	2,205,236	1,255,466	845,432	19%	18%	22%	13%	9%	3,280,63	1,061,168	1,046,648	818,105	1,903,519	33%	11%	11%	8%	19%
5 Watersheds	6,862,048	1,273,372	1,321,290	1,416,692	982,248	527,035	19%	19%	21%	14%	8%	2,351,20	754,768	664,284	623,914	1,237,633	34%	11%	10%	9%	18%
Pit	3,374,433	489,818	754,642	803,406	350,264	222,581	15%	22%	24%	10%	7%	845,234	478,740	452,079	343,761	530,458	25%	14%	13%	10%	16%
Feather	2,248,271	303,554	423,833	483,838	600,244	98,807	14%	19%	22%	27%	4%	866,238	212,529	176,195	249,890	385,733	39%	9%	8%	11%	17%
McCloud	431,507	144,562	50,835	34,046	16,339	87,728	34%	12%	8%	4%	20%	188,967	15,168	11,295	5,927	163,045	44%	4%	3%	1%	38%
Upper Trinity	442,171	255,690	22,644	6,413	12,177	69,210	58%	5%	1%	3%	16%	320,757	8,593	2,342	23,742	50,385	73%	2%	1%	5%	11%
Upper Sacramento	365,666	79,748	69,336	88,989	3,225	48,710	22%	19%	24%	1%	13%	130,007	39,739	22,373	594	108,012	36%	11%	6%	0%	30%
		2070 - acres 2070 - percent						2070 - acres 2070					2070 - percent	percent							
Statewide	100.937.908	35.243.293	9.767.739	13,515,657	10.831.375	14,414,356	35%	10%	13%	11%	14%	43.726.50	8.647.810	7,319,333	9.796.760	13.758.701	43%	9%	7%	10%	14%
Study Area	9,945,808	3.673.267	933.250	859.339	784.383	1.892.675	37%	9%	9%	8%	19%	4,363,11	749.418	532,367	592.390	2.022.015	44%	8%	5%	6%	20%
5 Watersheds	6,862,048	2,634,635	682,730	533,214	598,947	1,218,826	38%	10%	8%	9%	18%	3,133,40		306,472	443.234	1,323,884	46%	7%	4%	6%	19%
	.,,	,		,								., ., .	,	,	-, -						
Pit	3,374,433	985,581	425,292	377,069	335,204	541,068	29%	13%	11%	10%	16%	1,232,28	281,342	221,230	343,346	599,920	37%	8%	7%	10%	18%
Feather	2,248,271	945,302	204,783	132,024	233,840	389,859	42%	9%	6%	10%	17%	1,144,32	187,490	64,850	68,111	490,359	51%	8%	3%	3%	22%
McCloud	431,507	214,420	12,123	9,025	3,963	152,128	50%	3%	2%	1%	35%	246,539	9,637	8,485	522	121,252	57%	2%	2%	0%	28%
Upper Trinity	442,171	332,160	8,953	2,324	25,418	36,046	75%	2%	1%	6%	8%	319,910	8,971	2,936	30,552	31,488	72%	2%	1%	7%	7%
Upper Sacramento	365,666	157,172	31,579	12,772	522	99,725	43%	9%	3%	0%	27%	190,354	23,040	8,971	703	80,865	52%	6%	2%	0%	22%
				2040 - acres					2040 - percent					2040 - acres					2040 - percent		
Statewide	100,937,908	51,284,852	5,902,227	2,702,241	5,525,321	18,926,967	51%	6%	3%	5%	19%	55,102,24		3,213,568	4,293,002	13,959,467	55%	6%	3%	4%	14%
Study Area	9,945,808	4,870,332	486,504	228,417	160,703	2,795,013	49%	5%	2%	2%	28%	5,516,56		298,582	113,542	1,874,139	55%	6%	3%	1%	19%
5 Watersheds	6,862,048	3,483,508	274,389	140,473	86,089	1,952,734	51%	4%	2%	1%	28%	3,931,49	346,535	174,303	63,788	1,318,786	57%	5%	3%	1%	19%
Pit	3,374,433	1,642,371	97,546	43,864	38,730	1,115,372	49%	3%	1%	1%	33%	2,024,08	144,094	62,977	28,516	630,489	60%	4%	2%	1%	19%
Feather	2,248,271	1,185,338	116,550	64,940	11,205	603,270	53%	5%	3%	0%	27%	1,212,66		79,027	14,411	488,071	54%	6%	4%	1%	22%
McCloud	431,507	220,779	13,420	10,592	3,639	106,589	51%	3%	2%	1%	25%	225,445	13,961	11,475	6,773	93,114	52%	3%	3%	2%	22%
Upper Trinity	442,171	258,465	25,021	10,754	25,688	34,100	58%	6%	2%	6%	8%	275,920	25,940	10,250	7,998	33,578	62%	6%	2%	2%	8%
Upper Sacramento	365,666	176,555	21,851	10,322	6,827	93,402	48%	6%	3%	2%	26%	193,380	23,040	10,574	6,089	73,533	53%	6%	3%	2%	20%

	RCPA.S																					RCP 4	s																		
						CNRM										MIROC	MROC								OVE						MIR										
			Moderate	High '	Very High			derste High		ry High			Moderate		Fery High		Mod	lerate High	Ve	y High			Moderate	High	Very High			foderate i		Very High			Moderate		Very High		Mo	decate High	Very	High	
			Exposure				Refugia Exp					Refugia (0-	Exposure	Exposure I	Exposure 1	ion I	befugia Expo			ocure No					Exposure 1		Refugia E			Exposure N					Exposure			ocure Expo		sure Non-	
	Total Areas	01-04953			199.49993 A	Louine	ER-80%3 IBS			LEADERS AN	nine	66903	190.6543		99.10013	instru	n.ems sen.			1000G An	ndow.	99%3			299.488N3 I	Analos	55.665G N			799-1885G A	maker	60%3			899,49993	Annine St.	LERNO DES	90%) RC-1		MANAGE ANNA	ne .
				1100 - acres					- percent					100 - 20'46				2100	percent					1100 - acres				21	100 - percen					2100 - acres				2100			
Statewide	100,937,908						20%	16%	13%	46%	5%	27,387,341				174,970	27%	18%	13%	42%		41,835,582					41%	22%	14%					12,989,090			48%	21%		19% 0	
Study Area			1,531,477				32%	15%	12%		8%	2,725,155				1,171	27%	23%	22%	27%					1,758,777		41%	25%	15%		2%			1,290,504			52%	24%		11% 0	
S Watersheds	6,862,048	2,255,621	1,078,047	764,788	2,308,438	475,155	33%	16%	11%	34%	7%	1,800,407	1,576,656	1,672,310	1,811,504	1,171	26%	23%	24%	26%	0%	2,975,117	1,652,405	960,289	1,200,848	73,389	43%	24%	14%	17%	1%	2,588,836	1,630,067	921,775	721,370		52%	24%	13%	11% 0	0%
Pit			519,271				25%	15%	10%		2%		754,480				21%	22%	25%	31%			912,090	547,823		5,674	35%	27%	16%	21%	0%	1,375,692			491,620		41%	27%	18%	15% 0	
Feather					\$73,277		40%	13%	10%		11%		\$51,444		621,212		18%	25%	20%		0%	1,116,128		274,983		40,982	50%	20%	12%		2%	1,251,972					56%	25%	11%	9% 0	
McCloud				76,397	60,833	50,295	37%	19%	18%		12%		105,634	58,059	35,524		54%	24%	13%		0%	194,893	134,294	57,537		5,909	45%	31%	13%		1%	352,011					82%	12%	4%	2% 0	
Upper Trinity	442.171	267,868	115,992	24.911	23,400		61%	26%	8%	5%	0%	324,900	86,593	24.265	6.412		72%	20%	5%	1%	0%	344.499	64.184	26.336	6.989	162	78%	15%	6%	2%	0%	371.142	59,446	9.187	2.396		94%	13%	2%	1% 0	0%
Lipper Sacramento	365,666	92,972	61,067	49,124	63,788	109,714	23%	17%	13%	17%	30%	128,458	78,505	69,660	87,872	1,171	35%	21%	19%	24%	0%	130,601	103,472	53,600	\$7,320	20,662	36%	28%	15%	16%	6%	238,019	64,940	60,297	22,409		65%	18%	11%	6% 0	0%
				1979 - acres					- percent					070 - acres					percent					2070 - acres					370 - percen					2070 - acres				2070			
Statewide	100,937,908						46%	22%	12%	20%		49,657,649					49%	20%	13%	17%		53,523,269				3,351	53%	23%	12%					11,611,597			57%			11% 0	
Study Area			2,298,814				45%	24%	14%		2%	5,565,942					56%	24%	11%	9%		4,955,502				3,351	50%	27%	12%					786,202			64%	21%	8%	7% 0	
S Watersheds	6,862,048	3,233,582	1,598,453	943,004	1,051,036	25,884	47%	23%	14%	15%	2%	3,853,461	1,649,612	800,019	558,956		56%	24%	12%	8%	0%	3,576,640	1,794,139	842,514	647,170	1,585	52%	26%	12%	9%	0%	4,457,290	1,460,826	540,870	403,063		65%	21%	8%	6% 0	0%
Pit				553,732	624,887	2,044	29%	26%	16%		0%	1,526,649		\$11,939	391,516		45%	28%	15%	12%		1,575,629					47%	30%	13%	11%		1,832,202					54%	27%	9%	9% 0	
Feather			444,945			24,643	52%	20%	12%		1%	1,335,160		233,840	143,049		59%	24%	10%		0%			302,043		54		22%	13%		0%	1,634,679					73%	16%	9%	2% 0	
McCloud			127,935	50,367		2,459	51%	30%	12%		1%		43,486	12,412	9,061		85%	10%	2%	2%			128,896	37,865		991	57%	30%	9%			367,791					85%	11%	2%	2% 0	
Upper Trinity			54,564	23,652	6,377		81%	12%	5%	196	0%		61,896	9,692	2,378		83%	54%	2%	1%		350,462	67,084	17,383			79%	15%	4%		0%	351,399					79%	18%	2%	1% 0	
Upper Sacramento	365,666	157,694	99,022	50,299	53,411	4,728	43%	27%	14%	15%	1%	256,897	63,629	32,137	12,952		70%	17%	9%	4%	0%	191,056	99,131	\$1,502	23,436	540	52%	27%	14%	6%	0%	271,219	61,932	23,148	9,367		74%	17%	6%	2% 0	0%
				2040 - acres					- percent					040 - acres					percent					2040 - acres					340 - percen					2543 - acres				2040			
Statewide	100,937,908					4,522	56%	24%	11%		0%	70,211,819 1					70%	20%	7%	2%		59,295,251				4,522	59%	23%	10%		0%			7,659,601			68%	20%	2%	4% 0	
Study Area			3,094,730			4,503	51%	32%	10%		0%	7,665,346					77%	15%	5%	2%		5,630,108		921,866		4,503	57%	27%	9%					613,718			74%	16%	6%	2% 0	0%
S Watersheds	6,862,048	2,569,597	2,115,706	704,617	469,841	2,288	52%	32%	10%	7%	0%	5,436,241	959,829	207,192	158,775		79%	14%	4%	2%	0%	3,995,285	1,835,048	638,470	288,086	2,360	58%	27%	9%	6%	0%	5,250,283	1,071,490	358,550	181,725		77%	16%	\$96	2% 0	0%
Pit			1,190,060				50%	25%	9%		0%	2,757,742			54,871		82%	13%	2%	2%				279;937			61%	27%	8%		0%	2,654,576			68,291		79%	15%	\$96	2% 0	
Feather			563,603		219,636		53%	25%	12%		0%	1,788,608			68,795		90%	12%	5%	2%				240,685			\$5%	26%	11%		0%	1,700,726					76%	15%	6%	4% 0	
McCloud			141,067			1,423	52%	22%	11%	4%	0%	327,368		14,177	11,709		76%	18%	2%	2%			139,752	41,234		1,641	54%	32%	10%	4%	0%	318,559					74%	20%	2%	2% 0	
Upper Trinity				31,092	12,808		64%	26%	7%		0%		104,607		12,412		66%	24%	7%	2%				34,443			64%	25%	8%			309,498					70%	21%	6%	2% 0	
Upper Sacramento	265,666	193,392	116,857	46,890	17,672	865	50%	32%	13%	5%	0%	269,958	362,92	25,184	10,989		74%	16%	7%	2%	0%	199,469	107,099	42,171	16,068	919	\$5%	29%	12%	4%	0%	266,913	63,896	23,995	10,862		73%	17%	7%	2% 0	0%
				1010 - acres					- percent					010 - acres					percent					2010 - acres					310 - percen					2000 - acres					percent		
Statewide	100,937,908						80%	15%	4%		0%	80,754,141			974,989		80%	15%	4%	1%		80,754,141					80%	15%	4%						974,989		90%	15%	4%	1% 0	
Study Area			2,007,118			15,582	72%	20%	6%		0%	7,142,346				15,582	72%	20%	606	2%		7,142,346				15,582	72%	20%	6%					602,081			72%	20%	6%	2% 0	
S Watersheds	6,862,048	4,987,297	1,374,016	273,088	119,709	7,944	73%	20%	5%	2%	0%	4,987,297	1,374,016	272,088	119,703	7,944	73%	20%	506	2%	0%	4,987,297	1,374,016	272,088	119,702	7,944	72%	20%	\$16	2%	ON.	4,987,297	1,374,016	373,088	119,703	7,944	73%	20%	5%	2% 0	0%
								18%			666			119.361					4%		0%		con coo								m								4%		
Pit Easther			590,588	119,361	38,290	1,297	78%		4%	1%		2,624,907			38,290	1,297	78%	18%	2%		0%	2,624,907		119,361		1,297	78%	18%	4%			2,624,907				1,297	78%	18%	2%	1% 0	
			445,144	165,999	52,132	1,135	70%	20%	7%	2%	0%	1,583,861		165,999	52,132	1,135	70%	20%	2%			1,583,861	445,544	165,999	52,132	1,135	70%	20%	7%		0%	1,583,861				1,135	70%	20%		2% 0	
McCloud		247,710 323,009	134,799	34,893 23,364	11,043 5.764	3,062	57% 73%	31% 20%	8% 5%	2% 1%	1%	247,710 323,009	90,034	34,893	11,043 5,764	3,062	57% 73%	31% 20%	8% 5%	2% 1%		247,710 323,009	134,799 90,094	23,364	11,043 5,764	3,062	57% 73%	31% 20%	8% 5%		2%	247,710			11,043 5.764	3,062	57% 73%	31% 20%	8% 5%	2% 1 1% 0	
Upper Trinity			90,034	29,364		2.450	73% 53%	20%	5%	2%	1%		113,452	23,364	17,494	2.450	73% 52%	20%	9%		1%		90,094			2.450	72% 57%	20% 31%	9%		1%		90,034			2,450	73% 57%	20%	9%	2% 1	
Upper Sacramento	265,666	207,809	114,452	29,471	12,484	2,450	57%	42%	8%	4%	1%	207,809	114,452	29,671	12,484	2,490	37%	41%	306	4%	1%	217,809	114,452	29,471	12,684	2,450	57%	31%	8%	2%	1%	207,809	113,452	29,471	12,484	2,650	37%	41%	876	an I	1%

These are the final land cover tables. They show climate exposure of the vegetation by land cover (WHR) type.

There are 6 tabs: 2 main tables and 5 appendix tabs.

Main1_WHR_ConsensusRefHighExp Consensus Refugia & High Exposure: Summaries

Main2_WHR_ConsensusModExp Consensus Moderate Exposure: Summaries

Apy1_WHR_ConPositionExp_EWatshd Consensus Refugia & High Exposure: By Watersho

Apx1_WHR_ConRefHighExp_5Watshd Consensus Refugia & High Exposure: By Watershed Apx2_WHR_ConModExp_5Watshd Consensus Moderate Exposure: By Watershed

Apx3_WHR_RefHighExp Single Model Refugia & High Exposure: Summaries and by Watershed Apx4_WHR_ModExp Single Model Moderate Exposure: Summaries and by Watershed

Apx5_WHR_AreaByRank Total Area by WHR Type

RCP8.5	area = acres										RCP8.	5 area = acres									
	Land Cover Type (WHR)	Refugia - Public				ure - Cons Private T		Cor	h Exposur Isensus Private			Land Cover Type (WHR)	Refugia - Public				ure - Cons rivate T		Co	gh Exposu nsensus Private	
	ALKALI DESERT SCRUB							522	8,917			ALPINE DWARF-SHRUB							288	36	
	ALPINE DWARF-SHRUB ANNUAL GRASSLAND	306	324		15.042	15,006		594 7,764	36 56,330	54		ANNUAL GRASSLAND ASPEN	306	324		11,403 3,387	9,169 252		3,080 252	6,431 450	36
	ASPEN				4,540	504		360	594			BARREN				1,387	1,909		2,000	1,027	
	BARREN BITTERBRUSH	36	18		1,603 18	2,270		2,576 72,038	4,107 19,869	144		BITTERBRUSH BLUE OAK WOODLAND	54						26,120 973	3,495 4,684	
	BLUE OAK WOODLAND	54			10			3,441	70,237	144		BLUE OAK-FOOTHILL PINE	1,117	919		18			7,242	15,186	18
	BLUE OAK-FOOTHILL PINE	1,135	1,153		18			13,024	55,681	18		CLOSED-CONE PINE-CYPRESS	5,350	180		36			793	162	
	CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS	5,404	234		36			685 1,135	811 522			COASTAL OAK WOODLAND CROPLAND				1,117	24,265		54	18 1,549	
	COASTAL OAK WOODLAND	3,404	254		50			54	126			DOUGLAS FIR	30,354	24,949		883	72		40,946	34,353	
	COASTAL SCRUB				4 474	20.012		120	72			DRYLAND GRAIN CROPS EASTSIDE PINE				4,540	54		144	6,665	324
	CROPLAND DECIDUOUS ORCHARD				1,171	28,912		126	19,329 180			EVERGREEN ORCHARD				4,540	630		232,651	36	324
	DOUGLAS FIR	56,942	32,317		1,946	2,216		50,079	47,197			FRESH EMERGENT WETLAND							72	108	
	DRYLAND GRAIN CROPS EASTSIDE PINE				9,692	54 2,486		144 320,217	7,836 139.734	324		IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD				18	973		2,828	865 65,175	180
	EUCALYPTUS				-,	-,		,	36			IRRIGATED ROW AND FIELD CROPS							_,===	396	
	EVERGREEN ORCHARD FRESH EMERGENT WETLAND							18 72	757 558			JEFFREY PINE JUNIPER	6,575	4,467		72 7.368	36 2.234		901 16.213	90 2.954	54
	IRRIGATED GRAIN CROPS							/2	883			KLAMATH MIXED CONIFER	117,307	56,420		17,780	20,482		8,286	5,458	54
	IRRIGATED HAYFIELD				18	973		2,828	94,465	180	2100	LACUSTRINE	7,440	4,522		18	36		14,573	360	
	IRRIGATED ROW AND FIELD CROPS JEFFREY PINE	13,456	7,980		72	36		955	414 90			LODGEPOLE PINE LOW SAGE				1,783			10,448 230,525	2,306 57,609	360
2100	JUNIPER	13,430	7,500		11,709	7,458		17,167	4,720	54		MIXED CHAPARRAL	30,318	17,780		162	72		10,934	6,539	500
	KLAMATH MIXED CONIFER LACUSTRINE	191,813	73,101 14,483		20,320 18	21,869 90		8,737	6,053 793			MONTANE CHAPARRAL MONTANE HARDWOOD	195,073 25,346	53,754 15.096	36	6,269	1,711 18		4,233 48,710	2,720 45,251	72
	LODGEPOLE PINE	9,007	14,483		6,539	288		15,870 15,474	4,900			MONTANE HARDWOOD-CONIFER	25,346	16,915	30	54	18		32,551	22,788	/2
	LOW SAGE							331,944	67,697	1,225		MONTANE RIPARIAN	11,781	6,575							
	MIXED CHAPARRAL MONTANE CHAPARRAL	30,318 280,027	17,798 74,037		775 6,773	847 2,828		17,383 6,017	29,435 3,567			PASTURE PERENNIAL GRASSLAND	8,917	1,207 1,819			973				
	MONTANE HARDWOOD	32,858	21,112	72	108	126		56,582	77,514	72		PONDEROSA PINE	79,478	54,312	18					12,808	36
	MONTANE HARDWOOD-CONIFER MONTANE RIPARIAN	31,741 14,195	24,751 8,070	18	126	54		34,947	32,443			RED FIR RICE	2,864	90		15,870	1,351		12,772	1,225 360	
	PASTURE		1,333		162	1,639			4,990			RIVERINE		18					180	108	
	PERENNIAL GRASSLAND	13,114	4,107					40.000				SAGEBRUSH	22			40.00-	10.00-	_	70,110	30,047	36
	PONDEROSA PINE RED FIR	104,769 5,728	74,146 649	18	21,959	558 3,477		16,609 27,039	37,289 3,206	36		SIERRAN MIXED CONIFER SUBALPINE CONIFER	234,776	167,314		19,996 685	10,808	54	53,249 14,195	42,117 18	
	RICE	-,			,	-,			360			URBAN				54	360		504	2,882	
	RIVERINE SAGEBRUSH		18					486 81,765	486 32,353	36		VALLEY FOOTHILL RIPARIAN VALLEY OAK WOODLAND							108	144 36	
	SIERRAN MIXED CONIFER	362,910	265,022		23,436	15,330	54	70,453	61,212	30		VINEYARD								36	
	SUBALPINE CONIFER				1,351	54		27,003	306	00		WET MEADOW WHITE FIR	594	18		3,909	16,357	252	108	865	
	URBAN VALLEY FOOTHILL RIPARIAN				72	558		811 288	23,670 1,819	90		WHITE FIR Total:	50,583 829,976	16,429 443,108	54 1	6,053 L 02,860	1,567 93,330	306	56,438 914,948	9,764 500,681	1,117
	VALLEY OAK WOODLAND							72	1,261					.,		,	,			,	•
	VINEYARD WET MEADOW	865	126		4,107	22,373	252	108	90 865												
	WHITE FIR	83,261	20,518		7,890	2,180		62,274	11,511												
	Total:	1,237,939	641,298	108 1	139,500	132,187	306 1	,267,662	935,322	2,234											
								Very Hig	h Exposur	re -									Very Hig	gh Exposu	re -
	Land Cover Type (WHR)	Refugia - Public				ure - Cons Private T	ensus ribal Pu		rivate	Telbal		Land Cover Type (WHR)	Refugia - Public				ure - Cons rivate T			nsensus Private	Tella al
	ALKALI DESERT SCRUB	rubiic	riivate ii	IDAI P	ublic r	rivate i	iibai Pi	667	10,628	IIIVai		ALPINE DWARF-SHRUB	Public	riivate i	iibai Pi	36	iivate i	iibai r	36	rivate	IIDai
																			4.864	8,665	18
	ALPINE DWARF-SHRUB				90			90				ANNUAL GRASSLAND				6,305	17,293	54	,		
	ANNUAL GRASSLAND				7,530 432	23,472 216	54	90 10,268 144	43,053 252	18		ASPEN	594			6,305 288 1,621	17,293 108 3.657	54	126 594	252	
	ANNUAL GRASSLAND ASPEN BARREN	883	18		7,530 432 1,927	216 4,251	54	10,268 144 757	252 1,531	18		ASPEN BARREN BITTERBRUSH	594 198	36		288 1,621 5,080	108 3,657 1,045	54	126 594 811	252 234 342	
	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH	883 270	18 54		7,530 432 1,927 5,080	216 4,251 1,117	54	10,268 144 757 1,459	252 1,531 4,594	18		ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND		36		288 1,621 5,080 18	108 3,657 1,045 90	54	126 594 811 1,117	252 234 342 4,089	
	ANNUAL GRASSLAND ASPEN BARREN				7,530 432 1,927	216 4,251	54	10,268 144 757	252 1,531	18		ASPEN BARREN BITTERBRUSH		36		288 1,621 5,080	108 3,657 1,045	54	126 594 811	252 234 342	
	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL	270 144	54		7,530 432 1,927 5,080 18 1,189	216 4,251 1,117 90 612	54	10,268 144 757 1,459 2,864 7,980	252 1,531 4,594 64,166	18		ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND		36		288 1,621 5,080 18 1,081 468	108 3,657 1,045 90 540 396		126 594 811 1,117 5,260 18	252 234 342 4,089 10,502	
	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE	270			7,530 432 1,927 5,080 18	216 4,251 1,117 90	54	10,268 144 757 1,459 2,864 7,980 90 36	252 1,531 4,594 64,166 44,639	18		ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS				288 1,621 5,080 18 1,081	108 3,657 1,045 90 540 396 44,711	54	126 594 811 1,117 5,260 18	252 234 342 4,089 10,502	216
	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB	270 144	54 378		7,530 432 1,927 5,080 18 1,189 486	216 4,251 1,117 90 612 396		10,268 144 757 1,459 2,864 7,980 90 36 54	252 1,531 4,594 64,166 44,639 72 108			ASPEN BARREN BUTTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS	198 65,157	55,951		288 1,621 5,080 18 1,081 468 3,116 1,063	108 3,657 1,045 90 540 396 44,711 432		126 594 811 1,117 5,260 18 1,513 6,701	252 234 342 4,089 10,502 18 82,252 2,576 7,440	216
	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CIOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND	270 144	54		7,530 432 1,927 5,080 18 1,189	216 4,251 1,117 90 612	54	10,268 144 757 1,459 2,864 7,980 90 36 54	252 1,531 4,594 64,166 44,639 72 108	18		ASPEN BARREN BUTTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE	198			288 1,621 5,080 18 1,081 468 3,116 1,063	108 3,657 1,045 90 540 396 44,711		126 594 811 1,117 5,260 18 1,513 6,701	252 234 342 4,089 10,502 18 82,252 2,576 7,440 19,978	
	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BILLE OAK WOODLAND BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL COSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDUOUS ORCHARD DOUGLAS FIR	270 144	54 378	108	7,530 432 1,927 5,080 18 1,189 486	216 4,251 1,117 90 612 396		10,268 144 757 1,459 2,864 7,980 90 36 54 1,567	252 1,531 4,594 64,166 44,639 72 108 106,499 180 3,351			ASPEN BARREN BILTERBRUSH BILUE OAK WOODLAND BILUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND	198 65,157	55,951		288 1,621 5,080 18 1,081 468 3,116 1,063	108 3,657 1,045 90 540 396 44,711 432		126 594 811 1,117 5,260 18 1,513 6,701	252 234 342 4,089 10,502 18 82,252 2,576 7,440 19,978 36 126	216
	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BILLE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDIOUS ORCHARD DOUGLAS FIR BYLYAND GRAIN CROPS	270 144 288 106,120	378 36 72,776		7,530 432 1,927 5,080 18 1,189 486 3,927 2,918	216 4,251 1,117 90 612 396 54,168 1,225		10,268 144 757 1,459 2,864 7,980 90 36 54 1,567 7,728 180	252 1,531 4,594 64,166 44,639 72 108 106,499 180 3,351 9,151	216		ASPEN BARREN BUTE DAK WOODLAND BUE OAK WOODLAND BUE OAK WOODLAND CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND FRIEIGHTE GRAIN CROPS	198 65,157	55,951		288 1,621 5,080 18 1,081 468 3,116 1,063 69,696	108 3,657 1,045 90 540 396 44,711 432 22,247	504	126 594 811 1,117 5,260 18 1,513 6,701 180 20,662	252 234 342 4,089 10,502 18 82,252 2,576 7,440 19,978 36 126 901	216
	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BILLE OAK WOODLAND BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL COSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDUOUS ORCHARD DOUGLAS FIR	270 144 288	378 36		7,530 432 1,927 5,080 18 1,189 486	216 4,251 1,117 90 612 396		10,268 144 757 1,459 2,864 7,980 90 36 54 1,567	252 1,531 4,594 64,166 44,639 72 108 106,499 180 3,351			ASPEN BARREN BILTERBRUSH BILUE OAK WOODLAND BILUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND	198 65,157 36,514	55,951		288 1,621 5,080 18 1,081 468 3,116 1,063	108 3,657 1,045 90 540 396 44,711 432		126 594 811 1,117 5,260 18 1,513 6,701 180 20,662	252 234 342 4,089 10,502 18 82,252 2,576 7,440 19,978 36 126	216
	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRU CROPLAND DECIDIOUS ORCHARD DOUGLAS FIR DEVILAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EUCREPEN ORCHARD	270 144 288 106,120	378 36 72,776		7,530 432 1,927 5,080 18 1,189 486 3,927 2,918	216 4,251 1,117 90 612 396 54,168 1,225		10,268 144 757 1,459 2,864 7,980 90 36 54 1,567 7,728 180 22,734	252 1,531 4,594 64,166 44,639 72 108 106,499 180 3,351 9,151 22,391 36 757	216		ASPEN BARREN BUTTERBRUSH BLUE OAK WOODLAND BLUE OAK FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED ROW AND FIELD CROPS IFFREY PINE	198 65,157 36,514 18,302	55,951 12,304 10,394		288 1,621 5,080 18 1,081 468 3,116 1,063 69,696	108 3,657 1,045 90 540 396 44,711 432 22,247	504	126 594 811 1,117 5,260 18 1,513 6,701 180 20,662 72 18	252 234 342 4,089 10,502 18 82,252 2,576 7,440 19,978 36 126 901 15,132 396	216 198
	ANNUAL GRASSLAND ASPEN BARNEN BITTERBUSH BULE OAK WOODLAND BULE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL ASK WOODLAND DECIDUOUS ORCHARD DOUGLAS FIR DEVILAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS	270 144 288 106,120	378 36 72,776		7,530 432 1,927 5,080 18 1,189 486 3,927 2,918	216 4,251 1,117 90 612 396 54,168 1,225		10,268 144 757 1,459 2,864 7,980 90 36 54 1,567 7,728 180 22,734	252 1,531 4,594 64,166 44,639 72 108 106,499 180 3,351 9,151 22,391 36	216		ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD RIRIGATED GRAIN CROPS IRRIGATED HAYFIELD RIRIGATED HAYFIELD RIRIGATED GROW AND FIELD CROPS	198 65,157 36,514	55,951 12,304		288 1,621 5,080 18 1,081 468 3,116 1,063 69,696	108 3,657 1,045 90 540 396 44,711 432 22,247	504	126 594 811 1,117 5,260 18 1,513 6,701 180 20,662 72	252 234 342 4,089 10,502 18 82,252 2,576 7,440 19,978 36 126 901 15,132	216
	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BIUTE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL COSED-COME PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDIOUS ORCHARD DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREEN ORCHARD FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS	270 144 288 106,120 49,863	378 36 72,776		7,530 432 1,927 5,080 18 1,189 486 3,927 2,918	216 4,251 1,117 90 612 396 54,168 1,225		10,268 144 757 1,459 2,864 7,980 90 36 54 1,567 7,728 180 22,734	252 1,531 4,594 64,166 44,639 72 108 106,499 180 3,351 9,151 22,391 36 757 576 919 23,076	216	2070	ASPEN BARREN BUTTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD ILRIGATED ROW AND FIELD CROPS IFFEREY PINE JUNIPER KLAMATH MIXED CONIFER KLAMATH MIXED CONIFER	198 65,157 36,514 18,302 8,881 154,758 2,918	55,951 12,304 10,394 2,864 120,459 2,450		288 1,621 5,080 1,081 468 3,116 1,063 69,696 432 126 955 4,467	108 3,657 1,045 90 540 396 44,711 432 22,247 34,947 18 414	504	126 594 81,117 5,260 18 1,513 6,701 180 20,662 72 18 36 1,711 811 36	252 234 342 4,089 10,502 18 82,252 2,576 7,440 19,978 36 126 901 15,132 396	216 198
	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BILLE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL COSED-COME PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDIOUS ORCHARD DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREEN ORCHARD FRESH EMERGENT WETLAND IRRIGATED HAYFIELD IRRIGATED HAYFIELD IRRIGATED HAYFIELD IRRIGATED ROW AND FIELD CROPS IEFREY PINE	270 144 288 106,120 49,863	378 36 72,776		7,530 432 1,927 5,080 18 1,189 486 3,927 2,918 87,530	216 4,251 1,117 90 612 396 54,168 1,225 36,046	504	10,268 144 757 1,459 2,864 7,980 90 36 54 1,567 7,728 180 22,734	252 1,531 4,594 64,166 44,639 72 108 106,499 180 3,351 9,151 22,391 36 757 576 919	216	2070	ASPEN BARREN BUTTERBRUSH BLUE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRIESH EMERGENT WETLAND RIRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GROW AND FIELD CROPS JEFFREY PINE JUNIPER KLAMATH MIKED CONIFER	198 65,157 36,514 18,302 8,881 154,758	55,951 12,304 10,394 2,864 120,459		288 1,621 5,080 18 1,081 468 3,116 1,063 69,696	108 3,657 1,045 90 540 396 44,711 432 22,247 34,947 18	504	126 594 811 1,117 5,260 18 1,513 6,701 180 20,662 72 18 36 1,711 811	252 234 342 4,089 10,502 18 82,252 2,576 7,440 19,978 36 126 901 15,132 396	216 198
2070	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BILLE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDIOUS ORCHARD DOUGLAS FIR BYLVAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EUCALYPTUS EUCALYPTUS EVERGREN ORCHARD IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED ROW AND FIELD CROPS JEFFREY PINE JUNIPER	270 144 288 106,120 49,863	378 36 72,776 21,851		7,530 432 1,927 5,080 18 1,189 486 3,927 2,918 87,530	216 4,251 1,117 90 612 396 54,168 1,225 36,046	504	10,268 144 757 1,459 2,864 7,980 90 36 54 1,567 7,728 180 22,734 18 72 18	252 1,531 4,594 64,166 44,639 72 108 106,499 180 3,351 9,151 22,391 36 757 576 919 23,076 414 1,153	216	2070	ASPEN BARREN BUTERBRUSH BLUE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRIESDE PINE BRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GROW AND FIELD CROPS JEFFREY PINE JUNIPER KLAMATH MIKED CONIFER LACUSTRINE LOW SAGE MIKED CHAPARRAL	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801	55,951 12,304 10,394 2,864 120,459 2,450 36		288 1,621 5,080 18 1,081 468 3,116 1,063 69,696 432 126 955 4,467 2,864 4,063	108 3,657 1,045 90 540 396 44,711 432 22,247 34,947 18 414 144 901	504	126 594 811 1,117 5,260 18 1,513 6,701 180 20,662 72 18 36 1,711 811 36 54 219,825 2,738	252 234 342 4,089 10,502 18 82,252 2,576 7,440 19,978 36 126 901 15,132 396 793 126 55,879 901	216 198
2070	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BILLE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL COSED-COME PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDIOUS ORCHARD DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREEN ORCHARD FRESH EMERGENT WETLAND IRRIGATED HAYFIELD IRRIGATED HAYFIELD IRRIGATED HAYFIELD IRRIGATED ROW AND FIELD CROPS IEFREY PINE	270 144 288 106,120 49,863	378 36 72,776 21,851		7,530 432 1,927 5,080 18 1,189 486 3,927 2,918 87,530	216 4,251 1,117 90 612 396 54,168 1,225 36,046	504	10,268 144 757 1,459 2,864 7,980 90 36 54 1,567 7,728 180 22,734 18 72	252 1,531 4,594 64,166 44,639 72 108 106,499 180 3,351 9,151 22,391 36 757 576 919 23,076 414	216	2070	ASPEN BARREN BUTTERBRUSH BLUE OAK WOODLAND BLUE OAK FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR BOYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND IRRIGATED HAYFIELD IRRIGATED HAYFIELD IRRIGATED HAYFIELD JUNIPER KLAMATH MIXED CONIFER LACUSTRINE LOUGEPOLE PINE LOUGSEPOLE LOUGSEPOLE LOUGSEPOLE LOUGSEPOLE LOUGSEPOLE LOUGSEPOLE LOUGSEPOLE	198 65,157 36,514 18,302 8,881 154,758 2,918	55,951 12,304 10,394 2,864 120,459 2,450	72 18	288 1,621 5,080 18 1,081 468 3,116 1,063 69,696 432 126 955 4,467 2,864 216	108 3,657 1,045 90 540 396 44,711 432 22,247 34,947 18 414 144 901	504	126 594 811 1,117 5,260 18 1,513 6,701 180 20,662 72 18 36 1,711 811 36 54 219,825	252 234 342 4,089 10,502 18 82,252 2,576 7,440 19,978 36 126 901 15,132 396 793 126	216 198
2070	ANNUAL GRASSLAND ASPEN BARREN BHTERBRUSH BULE OAK WOODLAND BULE OAK FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDIOUS ORCHARD DOUGLAS FIR BYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREEN ORCHARD FRESH EMERGENT WETLAND FREISH EMERGENT WETLAND FREISH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GROW AND FIELD CROPS JEFFREY PINE JUNIPER KLAMATH MIXED CONIFER LACUSTRINE LOOGEPOLE PINE	270 144 288 106,120 49,863 33,416 28,804 216,510 5,476 1,946	378 36 72,776 21,851 15,924 10,286 138,059 16,465 36		7,530 432 1,927 5,080 18 1,189 486 3,927 2,918 87,530 432 126 1,567 4,612 2,990	216 4,251 1,117 90 612 396 54,168 1,225 36,046 46,944 18 1,009 144 919	504	10,268 144 757 1,459 2,864 7,980 90 36 54 1,567 7,728 180 22,734 18 72 18 36 1,765 829 36	252 1,531 4,594 64,166 44,639 72 108 106,499 180 3,351 9,151 22,391 36 757 576 919 23,076 414 1,153 126 829	216 198	2070	ASPEN BARREN BUTTERBRUSH BLUE OAK WOODLAND BLUE OAK FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRIESTE MERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED RASPILLO IRRIGATED ROW AND FIELD CROPS IRRIGATED HOW FILL OF THE LOW SAGE MIXED CHAPARRAL MONTANE CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD—CONIFER	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 29,579 49,232	55,951 12,304 10,394 2,864 120,459 2,450 36 82,234 17,636 34,425	72	288 1,621 5,080 18 1,081 468 3,116 1,063 69,696 432 126 955 4,467 2,864 216 1,063 1,819	108 3,657 1,045 90 540 396 44,711 432 22,247 34,947 18 414 144 901 1,477 558	504	126 594 811 1,117 5,260 18 1,513 6,701 180 20,662 72 18 36 1,711 811 36 54 219,825 2,738	252 234 342 4,089 10,502 18 82,252 2,576 7,440 19,978 36 126 901 15,132 396 793 126 55,879 901 1,225	216 198 54
2070	ANNUAL GRASSLAND ASPEN BARREN BITTERBUSH BULE OAK WOODLAND BULE OAK WOODLAND BULE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL ASK WOODLAND CCASTAL SCRUB CROPLAND DECIDUOUS ORCHARD DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREN ORCHARD IRRIGATED FARIN CROPS IRRIGATED FARIN WETLAND IRRIGATED GRAIN CROPS IRRIGATED ROW AND FIELD CROPS JUNIPER KLAMATH MIXED CONIFER LACUSTRINE LOUSTRINE LOUS FARE	270 144 288 106,120 49,863 33,416 28,804 216,510 5,476 1,946 360	378 36 72,776 21,851 15,924 10,286 138,059 16,465 36 54		7,530 432 1,927 5,080 18 1,189 486 3,927 2,918 87,530 432 126 1,567 4,612 2,990 378	216 4,251 1,117 90 612 396 54,168 1,225 36,046 46,944 18 1,009 144 919 72	504	10,268 144 757 1,459 2,864 7,980 90 36 54 1,567 7,728 180 22,734 18 72 18 36 1,765 829 36 22,707	252 1,531 4,594 64,166 44,639 72 108 106,499 180 3,351 9,151 22,391 36 757 576 919 23,076 414 1,153 126 829 63,247	216 198	2070	ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND BLUE OAK FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR BYLLAND GRAIN CROPS EASTSIDE PINE EVERGREN ORCHARD FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED FORW AND FIELD CROPS JEFFREY PINE JUNIPER KLAMATH MIXED CONIFER KLAMATH MIXED CONIFER LACUSTRINE LODGEPOLE PINE LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD CONIFER	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 295,79	55,951 12,304 10,394 2,864 120,459 2,450 36 82,234 17,636	72	288 1,621 5,080 18 1,081 468 3,116 1,063 69,696 432 126 955 4,467 2,864 216 1,063 1,819 1,117 594	108 3,657 1,045 90 540 396 44,711 432 22,247 34,947 18 414 144 901 1,477 558 847 342	504	126 594 811 1,117 5,260 18 1,513 6,701 180 20,662 72 18 36 1,711 811 36 4 219,825 2,738 1,027 4,233	252 234 342 4,089 10,502 18 82,252 2,576 7,440 19,978 36 126 901 15,132 396 793 126 55,879 901 1,225 3,279	216 198 54
2070	ANNUAL GRASSLAND ASPEN BARREN BHTERBRUSH BULE OAK WOODLAND BULE OAK FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDIOUS ORCHARD DOUGLAS FIR BYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREEN ORCHARD FRESH EMERGENT WETLAND FREISH EMERGENT WETLAND FREISH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GROW AND FIELD CROPS JEFFREY PINE JUNIPER KLAMATH MIXED CONIFER LACUSTRINE LOOGEPOLE PINE	270 144 288 106,120 49,863 33,416 28,804 216,510 5,476 1,946	378 36 72,776 21,851 15,924 10,286 138,059 16,465 36		7,530 432 1,927 5,080 18 1,189 486 3,927 2,918 87,530 432 126 1,567 4,612 2,990	216 4,251 1,117 90 612 396 54,168 1,225 36,046 46,944 18 1,009 144 919	504	10,268 144 757 1,459 2,864 7,980 90 36 54 1,567 7,728 180 22,734 18 72 18 36 1,765 829 36	252 1,531 4,594 64,166 44,639 72 108 106,499 180 3,351 9,151 22,391 36 757 576 919 23,076 414 1,153 126 829	216 198	2070	ASPEN BARREN BUTTERBRUSH BLUE OAK WOODLAND BLUE OAK FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRIESTE MERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED RASPILLO IRRIGATED ROW AND FIELD CROPS IRRIGATED HOW FILL OF THE LOW SAGE MIXED CHAPARRAL MONTANE CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD—CONIFER	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 29,579 49,232	55,951 12,304 10,394 2,864 120,459 2,450 36 82,234 17,636 34,425	72	288 1,621 5,080 18 1,081 468 3,116 1,063 69,696 432 126 955 4,467 2,864 216 1,063 1,819 1,117	108 3,657 1,045 90 540 390 44,711 432 22,247 34,947 18 414 144 901 1,477 558 847	504	126 594 811 1,117 5,260 18 1,513 6,701 180 20,662 72 18 36 1,711 811 36 4 219,825 2,738 1,027 4,233	252 234 342 4,089 10,502 18 82,252 2,576 7,440 19,978 36 126 901 15,132 396 793 126 55,879 901 1,225 3,279	216 198 54
2070	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BULE OAK WOODLAND BULE OAK WOODLAND BULE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDUOUS ORCHARD DOUGLAS FIR BYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREN ORCHARD PRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED ROW AND FIELD CROPS IRRIGATED BOW AND FIELD CROPS JEFFREY PINE JUNIPER KLAMATH MIXED CONIFER KLAMATH MIXED CONIFER LACUSTRINE LOOGEPOLE PINE LOOW SAGE MIXED CHAPARRAL MONTANE CHAPARRAL MONTANE CHAPARRAL MONTANE CHAPARRAL	270 144 288 106,120 49,863 33,416 28,804 216,510 5,476 1,946 3600 18 391,516 43,990	54 378 36 72,776 21,851 15,924 10,286 138,059 16,465 36 54 109,435 32,173 32,173	72 54	7,530 432 1,927 5,080 18 3,927 2,918 87,530 432 126 1,567 4,612 2,990 3,747 2,144 1,1657	216 4,251 1,117 90 612 396 54,168 1,225 36,046 46,944 18 1,009 144 919 72 3,819 829 1,207	504	10,268 144 757 1,459 2,864 7,980 90 36 54 1,567 7,728 180 22,734 18 36 1,765 829 36 22,707 72 3170 2,421 4,413	252 1,531 4,594 64,166 44,639 7 2 108 180 3,351 9,151 22,391 36 757 576 919 23,076 414 1,153 126 63,247 2,594 1,549 66,737	216 198	2070	ASPEN BARREN BUTTERBRUSH BLUE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRIESH EMERGENT WETLAND RIRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD RIRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED FOOW AND FIELD CROPS JEFFREY PINE LAUSTRINE LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD MO	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 29,579 49,232 6,737 41,937 70,471	10,394 2,864 120,459 2,450 36 82,234 17,636 34,425 6,287 23,670 65,571	72 18	288 1,621 1,081 1,081 468 3,116 1,063 69,696 432 126 955 4,467 2,864 1,063 1,117 594 72 216	108 3,657 1,045 90 540 44,711 432 22,247 18 414 144 901 1,477 558 847 34,947 1,369	504	126 594 811 1,117 5,260 18 1,513 6,701 180 20,662 72 18 36 1,711 36 54 219,825 2,738 414	252 234 342 4,089 10,502 18 82,252 2,576 7,440 19,978 36 126 901 15,132 396 793 126 55,879 901 1,225 3,279	216 198 54
2070	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BULE OAK WOODLAND BULE OAK WOODLAND BULE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRU CROPLAND DECIDIOUS ORCHARD DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREEN ORCHARD FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED CRIPTER PINE JUNIPER KLAMATH MIXED CONIFER LACUSTRINE LOOGEPOLE PINE LOW SAGE MIXED CHAPARRAL	270 144 288 106,120 49,863 33,416 28,804 216,510 5,476 1,946 360 18 391,516 43,990 58,726	378 36 72,776 21,851 15,924 10,286 138,059 16,465 36 54 18 109,435	72	7,530 432 1,927 5,080 18 1,189 486 3,927 2,918 87,530 432 126 4,612 4,612 4,612 4,612 4,612 4,747 2,144	216 4,251 1,117 90 612 396 54,168 1,225 36,046 46,944 18 1,009 144 919 72 3,819 829	504	10,268 144 757 1,459 2,864 7,980 90 36 54 1,567 7,728 180 22,734 18 72 18 36 1,765 829 36 52,707 3,170 2,432	252 1,531 4,594 64,166 44,639 72 108 106,499 180 3,351 9,151 22,391 414 1,153 126 829 63,247 2,594 1,549	216 198 54	2070	ASPEN BARREN BUTTERBRUSH BLUE OAK WOODLAND BLUE OAK FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND IRRIGATED HAYFIELD IRRIGATED HAYFIELD IRRIGATED HAYFIELD JUNIPER KLAMATH MIXED CONIFER LACUSTRINE LODGEPOLE PINE LOW SAGE MIXED CHAPARRAL MONTANE CHAPABRAL MONTANE HARDWOOD-CONIFER MONTANE PERENNIAL GRASSLAND	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 29,579 49,232 6,737 41,937	10,394 2,864 120,450 36 82,234 17,636 34,425 6,287 23,670	72 18	288 1,621 1,081 1,081 468 3,116 1,063 69,696 432 126 955 4,467 2,864 216 1,063 1,819 1,117 594	108 3,657 1,045 90 540 39,540 44,711 432 22,247 34,947 18 414 414 901 1,477 558 847 1,369	504	126 594 811 1,117 5,260 180 20,662 72 18 36 1,711 811 136 54 219,825 2,738 1,027 4,233 414	252 234 4,089 10,502 2,576 7,440 19,978 36 126 901 15,132 396 793 126 55,879 901 1,225 3,279 234	216 198 54 360
2070	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BULE OAK WOODLAND BULE OAK FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDIOUS ORCHARD DOUGLAS FIR BYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREEN ORCHARD PRESH EMERGENT WETLAND FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED FROM AND FIELD CROPS JEFFREY PINE JUNIPER KLAMATH MIXED CONIFER LACUSTRINE LOOGEPOLE PINE LOW SAGE MIXED CHAPARRAL MONTANE CHAPARRAL MONTANE CHAPARRAL MONTANE CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD-CONIFER MONTANE RIPARIAN PASTURE	270 144 288 106,120 49,863 33,416 28,804 216,510 5,476 1,946 360 18 391,516 43,990 58,726 7,530	378 36 72,776 21,851 15,924 10,286 138,059 16,465 36 54 18 109,435 32,173 44,711 6,989	72 54 18	7,530 432 1,927 5,080 18 3,927 2,918 87,530 432 126 1,567 4,612 2,990 3,747 2,144 1,1657	216 4,251 1,117 90 612 396 54,168 1,225 36,046 46,944 18 1,009 144 919 72 3,819 829 1,207	504	10,268 144 757 1,459 2,864 7,980 90 36 54 1,567 7,728 180 22,734 18 36 1,765 829 36 22,707 72 3170 2,421 4,413	252 1,531 4,594 64,166 44,639 7 2 108 180 3,351 9,151 22,391 36 757 576 919 23,076 414 1,153 126 63,247 2,594 1,549 66,737	216 198 54	2070	ASPEN BARREN BUTTERBRUSH BLUE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND RRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED RGAIN CROPS IRRIGATED ROW AND FIELD CROPS IRRIGATED HAYFIELD JUNIPER KLAMATH MIXED CONIFER LACUSTRINE LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE RIPARIAN PASTURE PERENNIAL GRASSLAND PONDEROSA PINE RED FIR RICE RIVERINE	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 29,79 49,232 6,737 41,937 70,471 105,958	10,394 2,864 12,450 36 82,234 17,636 34,425 6,287 23,670 65,571 12,646	72 18 54 342	288 1,621 5,080 18 8 1,081 468 3,116 1,063 69,696 432 126 216 1,063 1,819 1,117 594 72 216 144	108 3,657 90 90 90 91 1,432 22,247 18 414 144 991 1,477 558 847 342 1,369 90 54 36	504	126 594 811 1,117 5,260 18 1,513 6,701 180 20,662 72 18 36 1,711 811 36 54 21,721 4,233 4,144 1,765 721	252 234 4,089 10,502 2,576 36 126 901 15,132 396 793 126 36 55,901 1,225 3,279 234	216 198 54 360 18
2070	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BULE OAK WOODLAND BULE OAK WOODLAND BULE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL ASK WOODLAND DECIDUOUS ORCHARD DOUGLAS FIR BYLYAND GRAIN CROPS EASTSIDE PINE EUCAL/PTUS EVERGREN ORCHARD DRIVLAND GRAIN CROPS RESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED HAYFELD INDIPER KLAMATH MIXED CONIFER KLAMATH MIXED CONIFER LAUSTRINE LODGEPOLE PINE LOW SAGE MIXED CHAPARRAL MONTANE CHAPARRAL MONTANE CHAPARRAL MONTANE CHAPARRAL MONTANE HARDWOOD PERENNIAL GRASSLAND	270 144 288 106,120 49,863 33,416 28,804 216,510 5,476 1,946 360 18 391,516 43,990 58,726 7,7530	378 36 72,776 21,851 15,924 10,286 138,059 16,465 36 54 18 109,435 32,173 44,711 6,989	72 54 18	7,530 432 1,927 5,080 486 3,927 2,918 87,530 432 126 1,567 4,612 2,144 1,657 1,333 72	21.6 4,251 1,117 90 612 396 54,168 1,225 36,046 46,944 18 1,009 144 919 72 3,819 91,207 703 1,909	504	10,268 144 757 1,459 90 90 36 54 1,567 7,728 18 72 18 36 1,765 829 36 36 36 37 302,707 3,170 3,170 3,174 4,413 649	252 4,594 64,166 44,639 72 108 106,499 180 22,391 23,076 414 1,153 126 63,247 2,594 6,737 396 4,990	216 198 54 1,225	2070	ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK SCOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED FORW AND FIELD CROPS JEFFREY PINE JUNIPER KLAMATH MIKED CONIFER LACUSTRINE LOW SAGE MIKED CHAPARRAL MONTANE HARDWOOD PERENNIAL GRASSLAND PONDEROSA PINE RED FIR RICE RIVERINE SAGEBRUSH	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 29,579 49,232 6,737 70,471 105,958	10,394 2,864 10,459 2,459 36 82,234 17,636 34,425 6,287 23,670 65,571 12,646	72 18 54 342	288 1,621 1,081 468 3,116 1,063 49,696 432 126 4,467 2,864 2,16 1,063 72 2,864 4,467 2,16 1,063 1,117 594 72 216 1,44 13,024	108 3,657 90 0 540 396 44,711 432 22,247 18 4144 901 1,477 342 1,369 90 54 20,932	504	1266 594 811 1,117 5,260 18 1,513 6,701 1180 20,662 72 18 36 1,711 811 36 4,711 811 36 20,42 21,925 2,738 414 1,765 721	252 234 4,089 10,502 18 82,252 2,576 6 126 126 126 126 127 139 126 127 127 128 129 129 129 129 129 129 129 129 129 129	216 198 54 360
2070	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BULE OAK WOODLAND BULE OAK FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDIOUS ORCHARD DOUGLAS FIR BYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREEN ORCHARD PRESH EMERGENT WETLAND FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED FROM AND FIELD CROPS JEFFREY PINE JUNIPER KLAMATH MIXED CONIFER LACUSTRINE LOOGEPOLE PINE LOW SAGE MIXED CHAPARRAL MONTANE CHAPARRAL MONTANE CHAPARRAL MONTANE CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD-CONIFER MONTANE RIPARIAN PASTURE	270 144 288 106,120 49,863 33,416 28,804 216,510 5,476 1,946 360 18 391,516 43,990 58,726 7,530	378 36 72,776 21,851 15,924 10,286 138,059 16,465 36 54 18 109,435 32,173 44,711 6,989	72 54 18	7,530 432 5,080 1,189 486 3,927 2,918 87,530 432 126 1,567 4,612 2,990 378 1,747 1,747 1,141 1,657 1,333	21.6 4,251 1,117 90 612 396 54,168 1,225 36,046 46,944 18 1,009 144 919 72 3,819 92 1,207 703	504	10,268 144 757 1,459 2,864 7,980 90 36 54 1,567 7,728 180 22,734 18 36 1,765 829 36 22,707 72 3170 2,421 4,413	252 1,531 4,594 64,166 44,639 72 108 106,499 180 3,351 22,391 36 757 57 57 9,151 1,23 126 41 41 41,153 126 63,247 2,594 63,247 2,594 63,737 396	216 198 54	2070	ASPEN BARREN BUTERBRUSH BUUE OAK WOODLAND BUUE OAK WOODLAND BUUE OAK FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND RRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED RGAIN CROPS IRRIGATED HAYFIELD JUNIPER KLAMATH MIXED CONIFER LACUSTRINE LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE RIPARIAN PASTURE PERENNIAL GRASSLAND PONDEROSA PINE RED FIR RICE RIVERINE	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 29,79 49,232 6,737 41,937 70,471 105,958	10,394 2,864 12,450 36 82,234 17,636 34,425 6,287 23,670 65,571 12,646	72 18 54 342	288 1,621 5,080 18 8 1,081 468 3,116 1,063 69,696 432 126 216 1,063 1,819 1,117 594 72 216 144	108 3,657 90 90 90 91 1,432 22,247 18 414 144 991 1,477 558 847 342 1,369 90 54 36	504	126 594 811 1,117 5,260 18 1,513 6,701 180 20,662 72 18 36 1,711 811 36 54 21,721 4,233 4,144 1,765 721	252 234 4,089 10,502 2,576 36 126 901 15,132 396 793 126 36 55,901 1,225 3,279 234	216 198 54 360 18
2070	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BULE OAK WOODLAND BULE OAK WOODLAND BULE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL ASK WOODLAND DOUGLAS FIR BYLIAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREN ORCHARD PREVLAND GRAIN CROPS IRRIGATED BOK AND FIELD CROPS IRRIGATED GRAIN CROPS IRRIGATED CONTER LAUSTRINE LODGEPOLE PINE LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD-CONIFER MONTANE	270 144 288 106,120 49,863 33,416 28,804 216,510 5,476 1,946 360 18,436 43,990 58,726 7,530 61,428 98,446	378 36 72,776 21,851 15,924 10,286 138,059 16,465 36 54 18 109,435 32,173 32,173 44,711 6,989 28,930 104,175	72 54 18	7,530 432 5,080 3,927 2,918 87,530 432 2,918 87,530 432 126 1,567 4,612 2,990 378 1,747 2,144 1,657 1,333 72	216 4,251 1,117 90 612 396 54,168 1,225 36,046 46,944 18 1,009 144 919 919 7,703 1,909 1,207 703 1,909 1,279 54	504	10,268 144 757 1,459 9 9 36 54 1,567 7,728 180 22,734 18 36 6 1,765 829 30,277 3,170 2,432 4,413 4,413 649	252 1,531 4,594 64,166 44,639 72 108 106,499 180 36 757 576 576 919 23,076 414 1,153 126 83,247 2,594 1,549 4,990 3,044 4,990	216 198 54 1,225	2070	ASPEN BARREN BURE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRIESTE MERGENT WETLAND RRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD RIRIGATED GRAIN CROPS IRRIGATED HAYFIELD LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD REED FIR RICE RIVERINE SAGEBRUSH SIERRAN MIXED CONIFER SUBALPINE CONIFER SUBALPINE CONIFER URBAN	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 29,579 49,232 6,737 70,471 105,958	10,394 2,864 10,459 2,459 36 82,234 17,636 34,425 6,287 23,670 65,571 12,646	72 18 54 342	288 1,621 5,080 18 8 1,081 468 3,116 1,063 69,696 432 126 1,063 1,819 72 216 1,44 13,024 3,387	108 3,657 1,045 90 0 540 396 44,711 432 22,247 18 414 144 901 1,477 558 847 7 342 1,369 90 54 36 20,932 1,549	504	1266 594 811 1,117 5,260 18 11,117 18 11 36 61 1,711 811 36 54 1,711 811 36 67 72 1 1,765 721 11,889 9,836 216 450 450	252 234 342 4,089 10,502 18 82,252 2,576 7,440 19,978 36 126 901 15,132 396 55,879 901 1,225 3,279 234 883 360 2,756 2,756	216 198 54 360 18
2070	ANNUAL GRASSLAND ASPEN BARREN BHTERBRUSH BULE OAK WOODLAND BULE OAK WOODLAND BULE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDIOUS ORCHARD DUGLAS FIR BYLYAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS LUCALYPTUS LUCALYPTUS LUCALYPTUS EUCALYPTUS EUCAL	270 144 288 106,120 49,863 33,416 28,804 216,510 5,476 1,946 360 18,436 43,990 58,726 7,530 61,428 98,446	378 36 72,776 21,851 15,924 10,286 138,059 16,465 36 54 18 109,435 32,173 32,173 44,711 6,989 28,930 104,175	72 54 18 144 342	7,530 432 5,080 3,927 2,918 87,530 432 2,918 87,530 432 126 1,567 4,612 2,990 378 1,747 2,144 1,657 1,333 72	216 4,251 1,117 90 612 396 54,168 1,225 36,046 46,944 18 1,009 1,44 919 1,207 703 1,909 1,279	504	10,268 144 757 1,459 9 9 36 54 1,567 7,728 18 72 18 36 1,765 72 302,707 2,432 4,413 649 2,000	252 1,531 4,594 64,166 44,639 72 180 180 3,351 9,151 22,391 414 1,153 126 6,327 1,549 6,327 3,64 4,990 3,044	216 198 54 1,225	2070	ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED HAYFIELD IRRIGATED HAYFIELD IRRIGATED FOOW AND FIELD CROPS JEFFREY PINE JUNIPER KLAMATH MIKED CONIFER KLAMATH MIKED CONIFER LACUSTRINE LODGEPOLE PINE LOW SAGE MIKED CHAPARRAL MONTANE HARDWOOD MONTANE HARDW	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 29,579 49,232 6,737 70,471 105,958	10,394 2,864 10,459 2,459 36 82,234 17,636 34,425 6,287 23,670 65,571 12,646	72 18 54 342	288 1,621 5,080 18 8 1,081 468 3,116 1,063 69,696 432 126 1,063 1,819 72 216 1,44 13,024 3,387	108 3,657 90 540 396 44,711 432 22,247 18 414 414 901 1,477 342 1,369 90 54 36 20,932 1,549	504	1266 594 811 1,117 5,260 18 11,513 6,701 18 20,662 72 18 36 1,711 36 54 1,711 36 54 1,712 11,765 721 11,889 9,836 216 216	252 234 4,089 10,502 18 82,252 2,576 6 901 15,132 396 793 126 6 55,879 901 1,225 3,279 234	216 198 54 360 18
2070	ANNUAL GRASSLAND ASPEN BARREN BUTETERBRUSH BULE OAK WOODLAND BULE OAK FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND DCOASTAL SCRUB CROPLAND DECIDIOUS ORCHARD DOUGLAS FIR BYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREEN ORCHARD PRESSHEEMERGENT WETLAND RIRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED FOR WAND FIELD CROPS JEFFREY PINE JUNIPER KLAMATH MIXED CONIFER LACUSTRINE LOOGEPOLE PINE LOW SAGE MIXED CHAPARRAL MONTANE CHAPARRAL MONTANE HARDWOOD MON	270 144 288 106,120 49,863 33,416 28,804 216,510 5,476 1,946 360 18 391,516 43,990 58,726 7,530 61,428 98,446 180,068	378 36 72,776 21,851 15,924 10,286 138,059 16,465 36 18 19,435 32,173 44,175 6,989 28,930 104,175 26,823	72 54 18 144 342	7,530 432 1,927 5,080 18 1,189 486 3,927 2,918 87,530 432 126 1,567 4,612 2,990 378 1,747 2,144 1,657 72 378 144 13,042 3,585	21.6 4,251 1,117 90 612 396 54,168 1,225 36,046 46,944 18 1,009 144 91 97 23,819 829 1,207 707 36 1,279 54	504	10,268 144 757 1,459 90 36 54 1,567 7,228 180 22,734 18 72 18 36 1,765 829 36 72 302,707 2,432 4,413 649 2,000 721 18 14,952 2,730	252 1,531 4,944 64,166 44,639 72 108 106,499 180 3,351 9,151 1366 757 576 6757 576 414 1,153 126 829 63,247 2,594 1,549 6,737 3,66 4,990 3,044	216 198 54 1,225 18	2070	ASPEN BARREN BURE OAK WOODLAND BULE OAK WOODLAND BULE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DEVILAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND RIRIGATED GRAIN CROPS IRRIGATED REGAIN CROPS IRRIGATED HAYFIELD IRRIGATED REGAIN CROPS IRRIGATED HAYFIELD JUNIPER KLAMATH MIXED CONIFER LACUSTRINE LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD PONDEROSA PINE RICE RICE RICE RICE RICE RICE RICE SIERRAN MIXED CONIFER SAGEBRUSH SIERRAN MIXED CONIFER SUBALIPINE CONIFER SUBALIP	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 29,579 49,232 6,737 41,937 70,471 105,958 2,162 635,047	10,394 2,864 10,459 2,450 36 82,234 17,636 34,425 6,287 23,670 65,571 12,646 429,796	72 18 54 342	288 25 26 26 26 26 26 26 26 26 26 26 26 26 26	108 3,657 1,045 90 0 540 396 44,711 432 22,247 18 414 144 901 1,369 54 20,932 1,549 18 144	504	1266 594 811 1,117 5,260 811 1,117 5,260 18 18 1,513 36 70 18 36 1,711 18 811 36 54 1,711 36 54 1,712 1,765 721 11,889 9,836 2,16 450 108	252 234 4,089 10,502 2,576 7,440 19,978 36 126 126 126 137 139 126 127 137 127 147 147 147 147 147 147 147 147 147 14	216 198 54 360 18
2070	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BITTERBRUSH BULE OAK WOODLAND BULE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL ASK WOODLAND COASTAL SCRUB CROPLAND DUGLAS FIR BYLLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREN ORCHARD DUGLAS FIR BYLLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREN ORCHARD IRRIGATED RAIN CROPS IRRIGATED ROW AND FIELD CROPS IRRIGATED ROW AND FIELD CROPS IEFFREY PINE JUNIPER KLAMATH MIXED CONIFER KLAMATH MIXED CONIFER KLAMATH MIXED CONIFER MIXED CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD-CONIFER MONTANE HARDWOOD-CONIFER MONTANE HARDWOOD-CONIFER ROW SAGE MIXED CHAPARRAL MONTANE HARDWOOD-CONIFER MONTANE HARDWOOD-CONIFER ROWNAME PERENNIAL GRASSLAND PONDEROSA PINE RED FIR RICE RIVER INE SAGEBRUSH SIERRAN MIXED CONIFER SUBBALPINE CONIFER	270 144 288 106,120 49,863 33,416 28,804 216,510 5,476 360 1,946 360 1,946 391,516 43,990 58,726 7,530 61,428 98,446 180,068	378 36 72,776 21,851 15,924 10,286 138,059 16,465 36 54 109,435 32,173 44,711 6,989 28,930 104,175 26,823 18,014	72 54 18 144 342	7,530 432 1,927 5,080 18 1,189 486 3,927 2,918 87,530 432 126 1,567 378 4,612 2,990 378 1,747 2,1447 1,333 72 378 144	21.6 4,251 1,117 90 612 396 54,168 1,225 36,046 46,944 18 1,009 144 919 703 1,207 703 1,909 1,279 54 36 21,581 3,098	504	10,268 144 757 1,459 2,864 7,980 36 54 1,567 7,728 18 72 18 72 18 36 1,765 829 36 22,734 23 30,707 3,170 2,432 2,432 2,000 21 18 14,952 12,736 306 306	252 1,531 4,594 64,166 44,639 72 108 106,499 180 3,351 9,151 22,391 414 1,153 126 83,247 2,594 4,990 3,044 369 3,044 369 3,693 6,899	216 198 54 1,225 18	2070	ASPEN BARREN BUTTERBRUSH BLUE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRIEST EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED FOOW AND FIELD CROPS JEFFREY PINE JUNIPER KLAMATH MIKED CONIFER LACUSTRINE LOW SAGE MIKED CHAPARRAL MONTANE HARDWOOD MONTA	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 29,579 49,232 6,737 70,471 105,958 2,162 635,047	10,394 2,864 120,459 2,450 36 34,425 6,287 23,670 12,646 1,946 429,796	72 18 54 342	288 281 1,621 5,080 18	108 3,657 1,045 90 44,711 432 22,247 18 414 144 1901 1,477 558 547 342 1,369 90 54 62,932 1,549 114 685	504	1266 594 811 1,117 5,260 18 11,513 36 6,701 180 20,662 72 18 816 54 1,711 811 36 54 121,825 57 1,027 4,223 414 11,765 721 11,889 9,836 6,450 108 90	252 234 4,089 10,502 18 82,252 2,576 7,440 19,978 36 126 901 15,132 396 55,879 901 1,225 3,279 2,34 883 360 2,756 2,756 2,756 8,593 396	216 198 54 360 18
2070	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BULE OAK WOODLAND BULE OAK WOODLAND BULE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DUGLAS FIR BYLVAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREN ORCHARD DURIAGE PINE CHAPARD IRRIGATED HAYFELD INDIPER KLAMATH MIXED CONIFER KLAMATH MIXED CONIFER LOW SAGE MIXED CHAPARRAL MONTANE CHAPARRAL MONTANE CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD PERENNIAL GRASSLAND PONDEROSA PINE RED FIR RICE RIVERINE SAGEBRUSH SIERRAN MIXED CONIFER SUBALPINE CONIFER SUBALPINE CONIFER SUBALPINE CONIFER SUBALPINE CONIFER URBAN	270 144 288 106,120 49,863 33,416 28,804 216,510 5,476 360 1,946 360 1,946 391,516 43,990 58,726 7,530 61,428 98,446 180,068	378 36 72,776 21,851 15,924 10,286 138,059 16,465 36 54 109,435 32,173 44,711 6,989 28,930 104,175 26,823 18,014	72 54 18 144 342	7,530 432 1,927 5,080 18 1,189 486 3,927 2,918 87,530 432 126 1,567 4,612 2,990 378 1,747 2,144 1,657 72 378 144 13,042 3,585	21.6 4,251 1,117 90 612 396 54,168 1,225 36,046 46,944 18 1,009 144 91 97 23,819 829 1,207 707 36 1,279 54	504	10,268 144 757 1,459 90 36 54 1,567 7,228 180 22,734 18 72 18 36 1,765 829 36 72 302,707 2,432 4,413 649 2,000 721 18 14,952 2,730	252 1,531 4,594 64,166 44,639 72 108 106,499 1800 757 576 414 1,153 126 63,247 2,594 4,990 3,044 36,093 6,989 16,573 3,693 6,989	216 198 54 1,225 18	2070	ASPEN BARREN BURE OAK WOODLAND BULE OAK WOODLAND BULE OAK WOODLAND BULE OAK WOODLAND CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND RRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED FOOW AND FIELD CROPS JEFFREY PINE JUNIPER LACUSTRINE LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD FRENNIAL GRASSLAND PONDEROSA PINE RICE RICE RICE RICE RICE RICE RICE RIC	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 29,579 49,232 6,737 41,937 70,471 105,958 2,162 635,047	10,394 2,864 10,459 2,450 36 82,234 17,636 34,425 6,287 23,670 65,571 12,646 429,796	72 18 54 342	288 25 26 26 26 26 26 26 26 26 26 26 26 26 26	108 3,657 1,045 90 0 540 396 44,711 432 22,247 18 414 144 901 1,477 558 847 7 342 1,369 90 54 86 20,932 1,549 18 144 685 1,891	504	1266 594 811 1,117 5,260 811 1,117 5,260 18 18 1,513 36 70 18 36 1,711 18 811 36 54 1,711 36 54 1,712 1,765 721 11,889 9,836 2,16 450 108	252 234 4,089 10,502 10,502 2,576 7,440 19,978 396 126 36 126 36 127 396 127 396 127 396 36 277 234 883 360 2,756 8,593 360 2,756 8,593 396	216 198 54 360 18
2070	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BULE OAK WOODLAND COASTAL OAK WOODLAND COASTAL OAK WOODLAND COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDUOUS ORCHARD DOUGLAS FIR BYLLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREN ORCHARD FRESH EMBERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED DAYFIELD INNIPER KLAMATH MIXED CONIFER LAULSTRINE LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD—CONIFER MONTANE HARDWOOD—CONIFER MONTANE HARDWOOD—CONIFER MONTANE HARDWOOD—CONIFER MONTANE HARDWOOD—CONIFER RICE RIVERINE SAGEBRUSH SIERRAN MIXED CONIFER SAGEBRUSH SIERRAN MIXED CONIFER SUBALPINE CONIFER URBAN VALLEY FOOTHILL RIPARIAN	270 144 288 106,120 49,863 33,416 28,804 216,510 5,476 360 1,946 360 1,946 391,516 43,990 58,726 7,530 61,428 98,446 180,068	378 36 72,776 21,851 15,924 10,286 138,059 16,465 36 54 109,435 32,173 44,711 6,989 28,930 104,175 26,823 18,014	72 54 18 144 342	7,530 432 1,927 5,080 18 1,189 486 3,927 2,918 87,530 432 126 1,567 4,612 2,990 378 1,747 2,144 1,657 72 378 144 13,042 3,585	21.6 4,251 1,117 90 612 396 54,168 1,225 36,046 46,944 18 1,009 144 919 703 1,207 703 1,909 1,279 54 36 21,581 3,098	504	10,268 144 757 1,459 9 36 54 1,567 7,728 18 72 18 36 1,765 829 36 67 702,432 4,413 3649 2,000 721 18,95 12,736	252 1,531 4,594 44,639 72 108 106,499 180 3,351 9,151 36 757 576 69 19 23,076 414 1,153 1126 829 63,247 4,254 4,549 6,737 396 4,737 396 396 396 396 396 396 396 396 396 396	216 198 54 1,225 18	2070	ASPEN BARREN BURE OAK WOODLAND BULE OAK WOODLAND BULE OAK WOODLAND BULE OAK WOODLAND CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND RRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED FOOW AND FIELD CROPS JEFFREY PINE JUNIPER LACUSTRINE LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD FRENNIAL GRASSLAND PONDEROSA PINE RICE RICE RICE RICE RICE RICE RICE RIC	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 29,579 49,232 6,737 41,937 70,471 105,958 2,162 635,047	10,394 2,864 12,450 36 82,234 17,636 34,425 6,287 23,670 65,571 12,646 1,946 429,796	72 18 54 342	288 26 26 26 26 26 26 26 26 26 26 26 26 26	108 3,657 1,045 90 0 540 396 44,711 432 22,247 18 414 144 901 1,477 558 847 7 342 1,369 90 54 86 20,932 1,549 18 144 685 1,891	504	1266 594 811 1,117 5,260 18 11 1,117 5,260 18 1,513 36 6,701 180 20,662 72 18 36 1,711 136 54 1,711 1,765 721 11,889 9,836 216 6 450 108	252 234 4,089 10,502 10,502 2,576 7,440 19,978 396 126 36 126 36 127 396 127 396 127 396 36 277 234 883 360 2,756 8,593 360 2,756 8,593 396	216 198 54 360 18 36
2070	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BULE OAK WOODLAND BULE OAK WOODLAND BULE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DUGLAS FIR BYLVAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREN ORCHARD DURIAGE PINE CHAPARD IRRIGATED HAYFELD INDIPER KLAMATH MIXED CONIFER KLAMATH MIXED CONIFER LOW SAGE MIXED CHAPARRAL MONTANE CHAPARRAL MONTANE CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD PERENNIAL GRASSLAND PONDEROSA PINE RED FIR RICE RIVERINE SAGEBRUSH SIERRAN MIXED CONIFER SUBALPINE CONIFER SUBALPINE CONIFER SUBALPINE CONIFER SUBALPINE CONIFER URBAN	270 144 288 106,120 49,863 33,416 28,804 216,510 5,476 360 1,946 360 1,946 391,516 43,990 58,726 7,530 61,428 98,446 180,068	378 36 72,776 21,851 15,924 10,286 138,059 16,465 36 54 109,435 32,173 44,711 6,989 28,930 104,175 26,823 18,014	72 54 18 144 342	7,530 432 1,927 5,080 18 1,189 486 3,927 2,918 87,530 432 126 1,567 4,612 2,990 378 1,747 2,144 1,657 72 378 144 13,042 3,585	21.6 4,251 1,117 90 612 396 54,168 1,225 36,046 46,944 18 1,009 144 919 703 1,207 703 1,909 1,279 54 36 21,581 3,098	504	10,268 144 757 1,459 9 36 54 1,567 7,728 18 72 18 36 1,765 829 36 67 702,432 4,413 3649 2,000 721 18,95 12,736	252 1,531 4,594 64,166 44,639 72 108 106,499 1800 757 576 414 1,153 126 63,247 2,594 4,990 3,044 36,093 6,989 16,573 3,693 6,989	216 198 54 1,225 18	2070	ASPEN BARREN BURE OAK WOODLAND BULE OAK WOODLAND BULE OAK WOODLAND BULE OAK WOODLAND CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND RRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED FOOW AND FIELD CROPS JEFFREY PINE JUNIPER LACUSTRINE LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD FRENNIAL GRASSLAND PONDEROSA PINE RICE RICE RICE RICE RICE RICE RICE RIC	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 29,579 49,232 6,737 41,937 70,471 105,958 2,162 635,047	10,394 2,864 12,450 36 82,234 17,636 34,425 6,287 23,670 65,571 12,646 1,946 429,796	72 18 54 342	288 26 26 26 26 26 26 26 26 26 26 26 26 26	108 3,657 1,045 90 0 540 396 44,711 432 22,247 18 414 144 901 1,477 558 847 7 342 1,369 90 54 86 20,932 1,549 18 144 685 1,891	504	1266 594 811 1,117 5,260 18 11 1,117 5,260 18 1,513 36 6,701 180 20,662 72 18 36 1,711 136 54 1,711 1,765 721 11,889 9,836 216 6 450 108	252 234 4,089 10,502 10,502 2,576 7,440 19,978 396 126 36 126 36 127 396 127 396 127 396 36 277 234 883 360 2,756 8,593 360 2,756 8,593 396	216 198 54 360 18 36
2070	ANNUAL GRASSLAND ASPEN BARREN BITTERBUSH BULE OAK WOODLAND BULE OAK WOODLAND BULE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CCASTAL SCRUB CROPLAND DECIDUOUS ORCHARD DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREN ORCHARD DECIDUOUS ORCHARD DIVILAND GRAIN CROPS IEASTSIDE PINE EUCALYPTUS EVERGREN ORCHARD IRRIGATED RAIN CROPS IRRIGATED RAIN CROPS IRRIGATED HAYFELD IRRIGATED RAIN CROPS IRRIGATED HAYFELD LOUGEPOLE PINE LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD STEPENNIAL GRASSLAND PONDEROSA PINE RED FIR RICE RIVERINE SAGEBRUSH SIERRAN MIXED CONIFER SUBALIPINE CONIFER SUBALIPINE CONIFER SUBALIPINE CONIFER SUBRAIN WICED OKNER URBAN VALLEY FOOTHILL RIPARIAN VALLEY FOO	270 144 288 106,120 49,863 33,416 28,804 216,510 5,476 1,946 43,990 58,726 7,530 61,428 98,446 180,068 37,127 804,000	378 36 72,776 21,851 15,924 10,285 16,465 36 36 36 36 31 18,09 104,175 26,823 18,014 545,175	72 54 18 144 342	7,530 432 1,927 5,080 18 1,189 486 3,927 2,918 87,530 432 126 4,612 2,990 378 1,747 4,612 2,990 378 1,747 4,612 3,585 14,195	21.6 4,251 1,117 90 396 54,168 1,225 36,046 46,944 18 1,009 144 19 919 12,27 3,819 42,180 1,279 54 1,279 54 1,279 54 1,279 54 1,44 1,44 1,44 1,44 1,44 1,44 1,44 1	144	10,268 144 757 1,459 90 36 54 1,567 7,728 180 22,734 18 36 1,765 829 302,707 3,170 2,000 721 18 14,952 12,736 14,952 12,736 90 90 2,360	252 1,531 4,944 64,166 44,639 72 108 106,499 180 3,351 9,151 1366 757 576 6757 576 414 1,153 126 829 63,247 2,594 1,549 6,737 3,044 3,063 3,044 3,063 3,044 3,063 3,044 3,063 3,044 3,063 3,044 3,063 3,044 3,063 3,044 3,063 3,044 3,063	216 198 54 1,225 18 36	2070	ASPEN BARREN BURE OAK WOODLAND BULE OAK WOODLAND BULE OAK WOODLAND BULE OAK WOODLAND CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND RRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED FOOW AND FIELD CROPS JEFFREY PINE JUNIPER LACUSTRINE LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD FRENNIAL GRASSLAND PONDEROSA PINE RICE RICE RICE RICE RICE RICE RICE RIC	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 29,579 49,232 6,737 41,937 70,471 105,958 2,162 635,047	10,394 2,864 12,450 36 82,234 17,636 34,425 6,287 23,670 65,571 12,646 1,946 429,796	72 18 54 342	288 26 26 26 26 26 26 26 26 26 26 26 26 26	108 3,657 1,045 90 0 540 396 44,711 432 22,247 18 414 144 901 1,477 558 847 7 342 1,369 90 54 86 20,932 1,549 18 144 685 1,891	504	1266 594 811 1,117 5,260 18 11 1,117 5,260 18 1,513 36 6,701 180 20,662 72 18 36 1,711 136 54 1,711 1,765 721 11,889 9,836 216 6 450 108	252 234 4,089 10,502 10,502 2,576 7,440 19,978 396 126 36 126 36 127 396 127 396 127 396 36 277 234 883 360 2,756 8,593 360 2,756 8,593 396	216 198 54 360 18 36
2070	ANNUAL GRASSLAND ASPEN BARREN BITTERBUSH BULE OAK WOODLAND BULE OAK WOODLAND BULE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CCASTAL SCRUB CROPLAND DECIDUOUS ORCHARD DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREN ORCHARD DECIDUOUS ORCHARD DIVILAND GRAIN CROPS IEASTSIDE PINE EUCALYPTUS EVERGREN ORCHARD IRRIGATED RAIN CROPS IRRIGATED RAIN CROPS IRRIGATED HAYFELD IRRIGATED RAIN CROPS IRRIGATED HAYFELD LOUGEPOLE PINE LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD STEPENNIAL GRASSLAND PONDEROSA PINE RED FIR RICE RIVERINE SAGEBRUSH SIERRAN MIXED CONIFER SUBALIPINE CONIFER SUBALIPINE CONIFER SUBALIPINE CONIFER SUBRAIN WICED OKNER URBAN VALLEY FOOTHILL RIPARIAN VALLEY FOO	270 144 288 106,120 49,863 33,416 28,804 216,510 5,476 1,946 360 15,476 43,990 58,726 7,530 61,428 98,446 180,068 37,127 804,000	378 36 72,776 21,851 15,924 10,285 16,465 36 36 36 36 31 18,09 104,175 26,823 18,014 545,175	72 54 18 144 342	7,530 432 1,927 5,080 18 1,189 486 3,927 2,918 87,530 432 126 1,567 378 144 13,042 3,585 14,195	21.6 4,251 1,117 90 396 54,168 1,225 36,046 46,944 18 1,009 144 19 919 12,27 3,819 42,180 1,279 54 1,279 54 1,279 54 1,279 54 1,44 1,44 1,44 1,44 1,44 1,44 1,44 1	504	10,268 144 757 1,459 90 96 36 54 1,567 7,728 18 72 18 36 67 7,228 22,734 18 22,734 4413 4,413 4,649 2,000 721 14,952 12,736 306 306 757 108	252 1,531 4,944 64,166 44,639 72 108 106,499 180 3,351 9,151 1366 757 576 6757 576 414 1,153 126 829 63,247 2,594 1,549 6,737 3,044 3,063 3,044 3,063 3,044 3,063 3,044 3,063 3,044 3,063 3,044 3,063 3,044 3,063 3,044 3,063 3,044 3,063	216 198 54 1,225 18 36	2070	ASPEN BARREN BURE OAK WOODLAND BULE OAK WOODLAND BULE OAK WOODLAND BULE OAK WOODLAND CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND RRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED FOOW AND FIELD CROPS JEFFREY PINE JUNIPER LACUSTRINE LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD FRENNIAL GRASSLAND PONDEROSA PINE RICE RICE RICE RICE RICE RICE RICE RIC	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 29,579 49,232 6,737 41,937 70,471 105,958 2,162 635,047	10,394 2,864 12,450 36 82,234 17,636 34,425 6,287 23,670 65,571 12,646 1,946 429,796	72 18 54 342	288 26 26 26 26 26 26 26 26 26 26 26 26 26	108 3,657 1,045 90 0 540 396 44,711 432 22,247 18 414 144 901 1,477 558 847 7 342 1,369 90 54 86 20,932 1,549 18 144 685 1,891	504	1266 594 811 1,117 5,260 18 11 1,117 5,260 18 1,513 36 6,701 180 20,662 72 18 36 1,711 136 54 1,711 1,765 721 11,889 9,836 216 6 450 108	252 234 4,089 10,502 10,502 2,576 7,440 19,978 396 126 36 126 36 127 396 127 396 127 396 36 277 234 883 360 2,756 8,593 360 2,756 8,593 396	216 198 54 360 18 36
2070	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BILLE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK FOOTHILL PINE CHAMIES-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDIOUS ORCHARD DOUGLAS FIR BYLLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREN ORCHARD DRIVLAND GRAIN CROPS IRRIGATED FOR CHARD IRRIGATED FOR STATE OR CROPS IRRIGATED WORDLAND IRRIGATED GRAIN CROPS IRRIGATED WORDLAND IRRIGATED WORDLAND IRRIGATED CONTER KLAMATH MIXED CONIFER KLAMATH MIXED CONIFER LAUSTRINE LODGEPOLE PINE LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD-CONIFER MONTANE HARDWOOD-CONIFER MONTANE HARDWOOD-CONIFER ROMOTANE HARDWOOD-CONIFER RICE RIVERINE SAGEBRUSH SIERRAN MIXED CONIFER SUBALPINE CONIFER SUBALPINE CONIFER SUBALPINE CONIFER URBAN VALLEY FOOTHILL RIPARIAN VALLEY OAK WOODLAND VINEYARD WET MEADOW WHITE FIR	270 144 288 106,120 49,863 33,416 28,804 216,510 19,466 360 19,576 43,990 58,726 43,990 58,726 43,990 58,726 7,530 61,428 98,446 180,068 37,127 804,000	54 378 36 72,776 21,851 15,924 10,286 138,059 16,465 36 54 18 109,435 32,173 44,711 6,989 28,930 104,175 26,823 18,014 545,175	72 54 18 144 342 216	7,530 432 1,927 5,080 18 1,189 486 3,927 2,918 87,530 432 126 1,567 4,612 2,990 378 1,747 2,144 1,657 1,333 72 378 144 13,042 3,585 14,195	21.6 4,251 1,117 90 612 396 54,168 1,225 36,046 46,944 18 1,009 144 919 72 3,819 72 1,207 703 1,909 1,279 54 36 21,581 3,098 21,274 46,985 2,180 685 2,180 208,350	504 144	10,268 144 757 1,459 90 36 64 1,567 82 99 36 64 7,080 36 90 00 721 18 14,952 12,734 649 2,000 721 18 14,952 12,736 90 90 90 90 90 90 90 90 90 90 90 90 90	252 1,531 4,594 64,166 44,639 72 108 106,499 1800 757 576 6757 576 414 1,153 126 63,247 2,594 4,990 3,044 3,693 6,737 396 6,747 4,990 3,747 4,990 4,900	216 198 54 1,225 18 36 36	2070	ASPEN BARREN BUTTERBRUSH BULE OAK WOODLAND BULE OAK WOODLAND BULE OAK WOODLAND BULE OAK WOODLAND CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRIEST EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED FROW AND FIELD CROPS IRRIGATED HAYFIELD IRRIGATED FROW AND FIELD CROPS IRRIGATED RAPPER LACUSTRINE LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD MONT	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 29,579 49,232 6,737 70,471 105,958 2,162 635,047 5,764 161,639 1,696,034	10,394 2,864 120,459 2,450 36 34,425 6,287 23,670 12,646 1,946 429,796	72 18 54 342 216	288 288 18 1692 1,081 468 3,116 69,696 432 126 94,677 2,864 216 144 72 216 72 216	108 3,657 1,045 90 44,711 432 22,247 18 414 144 901 1,477 558 847 342 1,549 90 54 1,549 114 144 685 1,891 156,938	703	1266 594 811 1,117 5,260 18 811 1,513 36 6,701 180 20,662 72 18 811 36 54 1,711 811 36 54 1,711 811 1,765 721 11,889 9,836 450 108 90 2,234 300,167	252 234 342 4,089 10,502 18 82,252 2,576 7,440 19,978 36 126 6 901 15,132 396 55,879 901 1,225 5,767 93 1,226 234 883 360 2,756 2,756 2,756 2,756 2,756 3,279 3,279 3,279 4,275 6,27	216 198 54 360 18 36
2070	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BULE OAK WOODLAND COASTAL OAK WOODLAND COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDUOUS ORCHARD DOUGLAS FIR BYLLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREN ORCHARD PREVLAND FRESH EMBERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED FOR WAND FIELD CROPS JEFFREY PINE JUNIPER KLAMATH MIXED CONIFER LACUSTRINE LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD—CONIFER MONTANE HARDWOOD—CONIFER MONTANE HARDWOOD—CONIFER MONTANE HARDWOOD—CONIFER RICE RIVERINE SAGEBRUSH SIERRAN MIXED CONIFER SUBALPINE CONIFER SUBALPINE CONIFER URBAN VALLEY FOOTHILL RIPARIAN VALLEY FOOTHILL RIPARI	270 144 288 106,120 49,863 33,416 28,804 216,510 5,476 1,946 360 43,990 58,726 7,530 61,428 98,446 180,068 37,127 804,000	378 36 72,776 21,851 15,924 10,286 138,059 16,465 36 54 18 199,435 32,173 32,173 44,711 6,989 28,930 104,175 26,823 18,014 545,175 26,823 18,014 545,175	72 54 18 144 342 216	7,530 432 1,927 5,080 18 1,189 486 3,927 2,918 87,530 432 126 1,567 2,990 378 14,47 2,144 13,042 3,585 14,195	21.6 4.251 1,117 90 612 396 54,168 1,225 36,046 46,944 18 1,009 1,44 4919 72 3,819 829 1,207 703 1,909 1,279 54 3,098 1,26 1,44 685 2,180 208,350	703 ensus	10,268 144 757 1,459 90 36 54 1,567 7,728 18 72 18 36 61,765 829 30,707 721 18 3669 2,2,34 4,413 649 2,000 721 1,936 3,170 2,432 4,413 3649 4,413 4,41	252 1,531 4,594 44,639 72 108 106,499 180 3,351 9,151 36 6757 576 69 92 23,076 414 1,153 1126 829 63,247 4,594 4,549 4,990 3,044 4,549 4,990 3,044 4,639 4,990 3,044 4,639 4,990 4,990 5,409 5,4	216 198 54 1,225 18 36 36	2070	ASPEN BARREN BURE OAK WOODLAND BULE OAK WOODLAND BULE OAK WOODLAND BULE OAK WOODLAND CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND RRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED FOOW AND FIELD CROPS JEFFREY PINE JUNIPER LACUSTRINE LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD FRENNIAL GRASSLAND PONDEROSA PINE RICE RICE RICE RICE RICE RICE RICE RIC	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 29,579 49,232 6,737 41,937 70,471 105,958 2,162 635,047 5,764 161,639 1,696,034 Refugia -	10,394 2,864 120,459 2,450 36 82,234 17,635 34,425 6,287 23,670 65,571 12,646 1,946 429,796	72 18 54 342 216 703 1	288 28 1,621 5,080 18 3,116 69,696 432 126 955 4,467 72 216 144 13,024 3,387 6,809 54 6,665 3,32,799 118 118 119 118 118 118 118 118 118 1	108 3,657 1,045 90 396 44,711 432 22,247 18 414 144 901 1,477 558 847 34,947 1,369 90 54 1,369 18 144 685 1,891 156,938	703	126 594 811 1,117 5,260 18 811 1,117 5,260 18 1,513 36 1,711 36 54 1,711 36 54 1,711 36 54 1,715 1,765 721 11,889 9,836 216 450 108 90 2,234 300,167	252 234 4,089 10,502 18 82,252 2,576 7,440 19,778 36 126 55,879 901 15,132 3,966 2,756 2,756 8,593 3,96 36 62 2,756 649 232,110	216 198 54 360 18 36 36
2070	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BULE OAK WOODLAND BULE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND DOLGLAS FIR DECIDUOUS ORCHARD DOUGLAS FIR BYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREN ORCHARD IRRIGATED GRAIN CROPS IRRIGATED DAYFIELD INDIPER KLAMATH MIXED CONIFER LAUSTRINE LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD-CONIFER MONTANE HARDWOOD-CONIFER MONTANE HARDWOOD MONTANE HARDWOOD-CONIFER MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD FRENDIAL GRASSLAND PONDEROSA PINE RED FIR RICE RIVERINE SAGEBRUSH SIERRAN MIXED CONIFER SUBALPINE CONIFER SUBALPINE CONIFER SUBALPINE CONIFER SUBALPINE CONIFER URBAN VALLEY FOOTHILL RIPARIAN VALLEY FOOTHILL RI	270 144 288 106,120 49,863 33,416 28,804 216,510 5,476 1,946 360 43,990 58,726 7,530 61,428 98,446 180,068 37,127 804,000	378 36 72,776 21,851 15,924 10,286 138,059 16,465 36 54 18 199,435 32,173 32,173 44,711 6,989 28,930 104,175 26,823 18,014 545,175 26,823 18,014 545,175	72 54 18 144 342 216	7,530 432 1,927 5,080 18 1,189 486 3,927 2,918 87,530 432 126 1,567 1,367 378 144 13,042 3,585 14,195 54 7,368 166,954	21.6 4,251 1,117 90 612 396 54,168 1,225 36,046 46,944 18 1,009 1,44 1,009 1,44 1,909 1,207 703 1,909 1,207 703 1,909 1,279 54 3,098 1,26 21,581 3,098 1,26 685 2,180 208,350	703 ensus	10,268 144 757 1,459 90 36 54 1,567 7,728 18 72 18 36 61,765 829 30,707 721 18 3669 2,2,34 4,413 649 2,000 721 1,936 3,170 2,432 4,413 3649 4,413 4,41	252 1,531 4,594 64,166 44,639 72 108 106,499 1800 757 576 6757 576 414 1,153 126 63,247 2,594 4,990 3,044 3,693 6,737 396 6,747 4,990 3,747 4,990 4,900	216 198 54 1,225 18 36 36	2070	ASPEN BARREN BUTTERBRUSH BULE OAK WOODLAND BULE OAK WOODLAND BULE OAK WOODLAND CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND RRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD MONTANE RIPARIAN PERENNIAL GRASSLAND PONDEROSA PINE RED FIR RICE RIVERINE SAGEBRUSH SIERRAN MIXED CONIFER SUBALPINE S	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 29,579 49,232 6,737 41,937 70,471 105,958 2,162 635,047 5,764 161,639 1,696,034 Refugia -	10,394 2,864 120,459 2,450 36 82,234 17,635 34,425 6,287 23,670 65,571 12,646 1,946 429,796	72 18 54 342 216 703 1	288 286 1,081 468 3,116 1,081 468 432 126 4,467 72 216 144 13,024 3,387 6,809 54 6,665 332,799 1 11gh Expos	108 3,657 1,045 90 0 540 396 44,711 432 22,247 18 414 144 901 1,477 558 847 342 1,369 90 54 620,932 1,549 18 144 1456,938 1456,93	703	1266 594 811 1,117 5,260 18 811 1,117 6,70 18 18 1,513 36 1,71 18 11 36 6 1,71 1,11 1,11 1,765 721 11,889 9,836 216 450 108 90 2,234 300,167 Very Hill Co	252 234 4,089 10,502 18 82,252 2,576 7,440 19,573 396 126 55,879 231 12,255 3,279 234 883 360 2,756 2,756 8,593 396 270 649 232,110	216 198 54 360 18 36 36
2070	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BULE OAK WOODLAND BULE OAK WOODLAND BULE OAK FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDUOUS ORCHARD DOUGLAS FIR BYLYAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREN ORCHARD BYLYAND GRAIN CROPS IRRIGATED HAYFELD IRRIGATED GRAIN CROPS IRRIGATED HAYFELD IRRIGATED ROW AND FIELD CROPS JEFFREY PINE JUNIPER KLAMATH MIXED CONIFER LAUSTRINE LODGEPOLE PINE LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD PERENNIAL GRASSLAND PONDEROSA PINE RED FIR RICE RIVERINE SAGEBRUSH SERRAN MIXED CONIFER SUBALPINE TOTALE TOTAL LAND COVET TYPE (WHR) ALKALL DESERT SCRUB ALKALL DESERT	270 144 288 106,120 49,863 33,416 28,804 216,510 5,476 1,946 360 43,990 58,726 7,530 61,428 98,446 180,068 37,127 804,000	378 36 72,776 21,851 15,924 10,286 138,059 16,465 36 54 18 199,435 32,173 32,173 44,711 6,989 28,930 104,175 26,823 18,014 545,175 26,823 18,014 545,175	72 54 18 144 342 216	7,530 432 1,927 5,080 18 1,189 486 3,927 2,918 87,530 432 126 4,612 2,990 378 1,747 1,657 1,333 72 378 434 1,657 1,347 3,585 14,195 54 7,368 166,954	216 4,251 1,117 90 612 396 54,168 1,225 36,046 46,944 18 1,009 1,44 919 72 3,819 1,209 1,279 54 36 1,269 1,279 54 36 1,279 54 46,944 46,944 18 1,009 1,279 54 36 685 2,180 208,350 urre - Cons	703 ensus Pt	10,268 144 757 1,459 2,864 7,980 36 54 1,567 7,728 180 22,734 18 36 1,765 829 302,734 23 302,734 18 18 14,952 12,736 14,932 4,413 649 2,000 721 18 14,952 12,736 306 757 108 20,360 406,882 Very Hig	252 1,531 4,944 64,166 44,639 72 108 106,499 3,351 3,96 757 576 6757 576 414 1,153 126 829 63,247 2,594 1,549 6,737 3,044 36,033 3,044 36,369 3,044 3,693 3,044 3,693 3,044 3,693 3,044 3,693 3,044 3,693 3,044 3,693 3,044 3,693 3,044 3,693 3,044 3,693 3,	216 198 54 1,225 18 36 36 1,801 re -	2070	ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK WOODLAND CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED HAYFIELD IRRIGATED GROW AND FIELD CROPS JEFFREY PINE LOW SAGE KLAMATH MIKED CONIFER LACUSTRINE LOW SAGE MIKED CHAPARRAL MONTANE HARDWOOD—CONIFER MONTANE HARDWOOD—CONIFER MONTANE HARDWOOD—CONIFER MONTANE HARDWOOD—CONIFER RICE RIVERINE FRENNIAL GRASSLAND PONDEROSA PINE RED FIR RICE RIVERINE SAGEBRUSH SIERRAN MIKED CONIFER SUBALPINE CONIFER URBAN VALLEY FOOTHILL RIPARIAN VALLEY OAK WOODLAND VINEYARD WET MEADOW WHITE FIR Total: Land Cover Type (WHR) ALPINE DWARF-SHRUB ANNUAL GRASSLAND	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 29,579 49,232 6,737 70,471 105,958 2,162 635,047 5,764 161,639 1,696,034 Refugia - Public	10,394 2,864 120,459 2,450 36 82,234 17,636 34,425 6,287 23,670 65,571 12,646 429,796	72 18 54 342 216 703 1	288 28 1,621 5,080 18 3,116 69,696 432 126 69,696 11,081 1,063 1,819 72 216 144 13,024 3,387 6,809 54 6,665 32,799 11,117 594 13,024 3,387 6,809 11,117 594 13,024 3,387 6,809 11,117 594 13,024 3,387 6,809 11,117 594 13,024 3,387 6,809 11,117 594 13,024 3,387 6,809 11,117 594 13,024 3,387 6,809 11,117 594 11	108 3,657 1,045 90 0 396 44,711 432 22,247 18 414 144 991 1,477 558 847 342 1,369 90 54 1,891 1,56,938 1,891 1,56,938	703	1266 594 811 1,117 5,260 18 811 1,117 61 6,701 180 20,662 72 18 81 1,513 36 54 6,701 180 190 190 190 190 190 190 190 190 190 19	252 234 342 4,089 10,502 18 82,252 2,576 7,440 901 15,132 36 36 36 36 36 36 36 27 32 34 36 27,56 27,56 27,56 36 27,56 27,56 36 27,56 27,56 36 27,56 36 27,56 36 27,56 36 27,56 36 27,56 36 27,56 36 36 36 36 36 36 36 36 36 37,29 37	216 198 54 360 18 36 36
2070	ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BULE OAK WOODLAND BULE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND DOLGLAS FIR DECIDUOUS ORCHARD DOUGLAS FIR BYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREN ORCHARD IRRIGATED GRAIN CROPS IRRIGATED DAYFIELD INDIPER KLAMATH MIXED CONIFER LAUSTRINE LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD-CONIFER MONTANE HARDWOOD-CONIFER MONTANE HARDWOOD MONTANE HARDWOOD-CONIFER MONTANE HARDWOOD MONTANE HARDWOOD MONTANE HARDWOOD FRENDIAL GRASSLAND PONDEROSA PINE RED FIR RICE RIVERINE SAGEBRUSH SIERRAN MIXED CONIFER SUBALPINE CONIFER SUBALPINE CONIFER SUBALPINE CONIFER SUBALPINE CONIFER URBAN VALLEY FOOTHILL RIPARIAN VALLEY FOOTHILL RI	270 144 288 106,120 49,863 33,416 28,804 216,510 5,476 1,946 360 43,990 58,726 7,530 61,428 98,446 180,068 37,127 804,000	378 36 72,776 21,851 15,924 10,286 138,059 16,465 36 54 18 199,435 32,173 32,173 44,711 6,989 28,930 104,175 26,823 18,014 545,175 26,823 18,014 545,175	72 54 18 144 342 216	7,530 432 1,927 5,080 18 1,189 486 3,927 2,918 87,530 432 126 1,567 1,367 378 144 13,042 3,585 14,195 54 7,368 166,954	21.6 4,251 1,117 90 612 396 54,168 1,225 36,046 46,944 18 1,009 1,44 1,009 1,44 1,909 1,207 703 1,909 1,207 703 1,909 1,279 54 3,098 1,26 21,581 3,098 1,26 685 2,180 208,350	703 ensus	10,268 144 757 1,459 90 36 6 1,765 829 36 7,728 180 12,734 649 2,000 721 18 14,952 12,736 406,882 Very Hig Control of the cont	252 1,531 4,944 64,166 44,639 72 108 106,499 13,351 13,66 757 576 919 23,076 414 1,153 126 63,247 2,594 4,990 3,044 36,933 6,989 3,044 36,933 6,939 16,573 540 342 90 270 270 270 270 270 270 270 270 270 27	216 198 54 1,225 18 36 36	2070	ASPEN BARREN BUTTERBRUSH BULE OAK WOODLAND BULE OAK WOODLAND BULE OAK WOODLAND CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND RRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD LOW SAGE MIXED CHAPARRAL MONTANE HARDWOOD MONTANE RIPARIAN PERENNIAL GRASSLAND PONDEROSA PINE RED FIR RICE RIVERINE SAGEBRUSH SIERRAN MIXED CONIFER SUBALPINE S	198 65,157 36,514 18,302 8,881 154,758 2,918 1,801 298,384 29,579 49,232 6,737 41,937 70,471 105,958 2,162 635,047 5,764 161,639 1,696,034 Refugia -	10,394 2,864 120,459 2,450 36 82,234 17,635 34,425 6,287 23,670 65,571 12,646 1,946 429,796	72 18 54 342 216 703 1	288 286 1,081 468 3,116 1,081 468 432 126 4,467 72 216 144 13,024 3,387 6,809 54 6,665 332,799 1 11gh Expos	108 3,657 1,045 90 0 540 396 44,711 432 22,247 18 414 144 901 1,477 558 847 342 1,369 90 54 620,932 1,549 18 144 1456,938 1456,93	703	1266 594 811 1,117 5,260 18 811 1,117 6,70 18 18 1,513 36 1,71 18 11 36 6 1,71 1,11 1,11 1,765 721 11,889 9,836 216 450 108 90 2,234 300,167 Very Hill Co	252 234 4,089 10,502 18 82,252 2,576 7,440 19,573 396 126 55,879 231 12,255 3,279 234 883 360 2,756 2,756 8,593 396 270 649 232,110	216 198 54 360 18 36 36

	BARREN	28,894	1,405		4,485	7,224			
	BITTERBRUSH	28,822	3,585	18	1,495	793	6,413	1,171	
	BLUE OAK WOODLAND						432	2,720	
	BLUE OAK-FOOTHILL PINE	919	1,099		901	1,351	2,954	198	
	CHAMISE-REDSHANK CHAPARRAL					72		18	
	CLOSED-CONE PINE-CYPRESS	937	504		937	198	667	522	
	COASTAL OAK WOODLAND								
	COASTAL SCRUB								
	CROPLAND	180	15,132				414	19,311	
	DECIDUOUS ORCHARD							180	
	DOUGLAS FIR	113,182	98,987	180	18,861	5,440	7,836	4,359	
	DRYLAND GRAIN CROPS					36	162	5,386	
	EASTSIDE PINE	318,199	91,907	54	19,149	8,106	9,439	4,702	
	EUCALYPTUS							18	
	EVERGREEN ORCHARD						18	757	
	FRESH EMERGENT WETLAND						72	594	
	IRRIGATED GRAIN CROPS							919	
	IRRIGATED HAYFIELD				18	7,278	18	6,863	
	IRRIGATED ROW AND FIELD CROPS							414	
2040	JEFFREY PINE	33,506	20,104		54	18			
2040	JUNIPER	169,349	66,291	3,801	18		1,693	1,297	
	KLAMATH MIXED CONIFER	150,129	123,486		11,349	2,846	1,549	378	
	LACUSTRINE	10,322	42,081		1,369	1,027	486	594	
	LODGEPOLE PINE	31,254	1,783				18	54	
	LOW SAGE	1,387	198		1,315	18	4,540	504	
	MIXED CHAPARRAL	18	18		7,944	10,196	7,818	6,809	18
	MONTANE CHAPARRAL	395,479	115,992	90	1,783	1,279	198	54	
	MONTANE HARDWOOD	46,170	45,882	36	18,735	9,151	10,646	5,674	
	MONTANE HARDWOOD-CONIFER	64,508	55,717	54	17,239	10,214	6,395	2,486	
	MONTANE RIPARIAN	4,431	4,323						
	PASTURE				90	2,936	54	2,882	
	PERENNIAL GRASSLAND	68,885	34,659	144	252	234			
	PONDEROSA PINE	74,578	121,648	360	3,441	2,612	3,513	1,351	
	RED FIR	257,924	42,621		324	36			
	RICE							360	
	RIVERINE	36	18		18		36	162	
	SAGEBRUSH	139,698	100,320	18			10,844	4,359	36
	SIERRAN MIXED CONIFER	795,696	585,526	360	7,242	234	180	198	
	SUBALPINE CONIFER	6,053			126				
	URBAN				36	450	901	16,537	
	VALLEY FOOTHILL RIPARIAN					72	144	594	
	VALLEY OAK WOODLAND								
	VINEYARD							36	
	WET MEADOW	20,176	39,018	252	360	540	90	90	
	WHITE FIR	400,577	87,872		180	54	72		
	Total:	3,164,318	1,700,358	5,368	127,269	85,206	36 92,105	136,240	72

		Refugia		<	High Expo		95		igh Exposu	ire
	Land Cover Type (WHR)		80%			99%			> 99%	
		Public	Private	Tribal	Public	Private	Tribal	Public		Tribal
	ALKALI DESERT SCRUB				288	4,792			342	
	ALPINE DWARF-SHRUB	72			504	36		90		
	ANNUAL GRASSLAND	576	16,879	18	24,139	51,322	72	14,267	18,176	
	ASPEN	4,918	468		198	306		270	126	
	BARREN	29,327	6,845	18	17,762	12,087		16,879	3,369	
	BITTERBRUSH	64,994	13,637	144	2,936	1,063		739	90	
	BLUE OAK WOODLAND	486	13,060		594	14,429		919	6,827	
	BLUE OAK-FOOTHILL PINE	4,990	30,606		9,872	6,431		3,423	2,108	
	CHAMISE-REDSHANK CHAPARRAL				378	396		180	324	
	CLOSED-CONE PINE-CYPRESS	1.495	721		2.036	1.117		198	108	
	COASTAL OAK WOODLAND	,			36	36			72	
	COASTAL SCRUB					54				
	CROPLAND	9.367	176.159	1.441	378	7.764		18	3.098	
	DECIDUOUS ORCHARD	3,307	1,0,133	2,1	370	72		20	108	
	DOUGLAS FIR	167.800	136.204	180	7.404	3,999		1.946	667	
	DRYLAND GRAIN CROPS	107,000	54	100	72	5,530		108	3.098	
	FASTSIDE PINE	549,372	183.022	54	14.898	11.547	108	5,278	2,540	
	EUCALYPTUS	349,372	105,022	34	14,030	36	100	3,270	2,340	
	EVERGREEN ORCHARD					18		18	739	
	FRESH EMERGENT WETLAND					198		18 72	396	
						198		12		
	IRRIGATED GRAIN CROPS					2450			919	
	IRRIGATED HAYFIELD		198		18	7,152			2,180	
	IRRIGATED ROW AND FIELD CROPS								414	
2010	JEFFREY PINE	39,108	22,175		3,170	721		288	36	
2010	JUNIPER	282,063	110,083	5,620	1,459	793		540	162	
	KLAMATH MIXED CONIFER	230,885	144,238		11,277	3,999		1,387	468	
	LACUSTRINE	20,104	45,629		4,071	1,495		1,946	793	
	LODGEPOLE PINE	49,971	5,566		3,134	1,783		1,171	414	
	LOW SAGE	304,959	58,654	1,225	4,197	432		558	324	
	MIXED CHAPARRAL	3,080	4,738		23,796	30,984	36	7,368	3,927	
	MONTANE CHAPARRAL	355,470	106,048	90	15,204	5,296		883	108	
	MONTANE HARDWOOD	66,670	83,495	198	19,257	10,971		5,566	3,675	
	MONTANE HARDWOOD-CONIFER	94,285	85,837	90	11,547	4,864		3,369	919	
	MONTANE RIPARIAN	8,052	6,647		2,486	883		414	18	
	PASTURE				270	9,457		54	1,387	
	PERENNIAL GRASSLAND	78,685	47,359	144	4,035	1,423		216	90	
	PONDEROSA PINE	141,049	167,710	378	15,600	18,050	54	3,711	2,936	
	RED FIR	216,168	39,252		15,258	1,351		3,333	234	
	RICE								360	
	RIVERINE	216	252		180	432		144	324	
	SAGEBRUSH	390,957	289,935	1,855	40,153	5,314	36	4,431	1,675	
	SIERRAN MIXED CONIFER	984,068	668,301	288	58,744	28,588		24,427	7,170	
	SUBALPINE CONIFER	23,923	1,027		9,367	54		1,982		
	URBAN		90		324	11,421		973	12,304	
	VALLEY FOOTHILL RIPARIAN	126	757		18	432		162	667	
	VALLEY OAK WOODLAND	72	594			306			90	
	VINEYARD								90	
	WET MEADOW	21,923	53,988	252	1,729	2,162		919	540	
	WHITE FIR	383,193	80,955		4,053	1,279		1,603	18	
			2,601,183	11,997			306	109,849	84,432	0
		,,	,,	,	,	.,		,	. , ,-	

				BITTERBRUSH	4,377	342		198			288		
413	1,171			BLUE OAK WOODLAND							396	108	
432	2,720			BLUE OAK-FOOTHILL PINE				162	144		2,720	180	
954	198			CLOSED-CONE PINE-CYPRESS	126	18		757	198		414	522	
	18			COASTAL OAK WOODLAND									
667	522			CROPLAND	54	2,918					414	18,771	
				DOUGLAS FIR	76,866	66,183	72	7,061	4,071		3,999	2,468	
				DRYLAND GRAIN CROPS							162	4,467	
414	19,311			EASTSIDE PINE	206,981	65,121	54	18,536	7,152		3,729	3,459	
	180			EVERGREEN ORCHARD								36	
836	4,359			FRESH EMERGENT WETLAND							72	144	
162	5,386			IRRIGATED GRAIN CROPS								901	
439	4,702			IRRIGATED HAYFIELD				18	4,774		18	5,242	
	18			IRRIGATED ROW AND FIELD CROPS	6							396	
18	757			JEFFREY PINE	17,942	13,943		18					
72	594			JUNIPER	110,083	52,295	3,531				721	72	
	919			KLAMATH MIXED CONIFER	132,241	114,479		5,963	1,603		324	18	
18	6,863		2040	LACUSTRINE	7,260	4,053		1,009	937		468	594	
	414			LODGEPOLE PINE	16,231	396					18	36	
				LOW SAGE	54	36		432			2,828	342	
693	1,297			MIXED CHAPARRAL				5,764	4,071		6,017	2,522	18
549	378			MONTANE CHAPARRAL	303,428	87,080	90	1,171	1,135				
486	594			MONTANE HARDWOOD	31,128	21,545	18	13,042	7,224		4,449	3,080	
18	54			MONTANE HARDWOOD-CONIFER	55,789	43,162	36	12,358	8,016		2,288	919	
540	504			MONTANE RIPARIAN	2,954	3,405							
818	6,809	18		PASTURE					2,162		54	36	
198	54			PERENNIAL GRASSLAND	44,819	27,255	54		180				
646	5,674			PONDEROSA PINE	62,725	79,856	360	2,540	2,378		558	486	
395	2,486			RED FIR	155,821	19,978		72					
				RICE								360	
54	2,882			RIVERINE	36	18		18			18	108	
				SAGEBRUSH	56,078	27,381	18				8,503	3,693	36
513	1,351			SIERRAN MIXED CONIFER	663,887	489,674	360	2,468	36		54	36	
				SUBALPINE CONIFER	2,144			72					
	360			URBAN					72		649	9,043	
36	162			VALLEY FOOTHILL RIPARIAN							144	594	
844	4,359	36		VALLEY OAK WOODLAND									
180	198			VINEYARD								36	
				WET MEADOW	9,349	20,266	252	144	108		90	90	
901	16,537			WHITE FIR	289,575	69,912		18	36		72		
144	594			Total:	2,268,843	1,209,945	4,846	82,900	59,536	36	50,511	89,926	54
	26												

Public P		gh Expos > 99%	ure		Land Cover Type (WHR)	Refugia	80%	<	High Exp	osure 99%	95	· Very I	High Expo: > 99%	sure
190		Private	Tribal			Public	Private	Tribal	Public	Private	Tribal	Public	Private	Triba
1267 18,176 ASPEN 3,477 234 198 270 224 126		342			ALPINE DWARF-SHRUB				270	36		90		
126 BARREN 12,358 1,369 11,925 7,007 9,349 2,864	90				ANNUAL GRASSLAND				20,572	32,515	54	11,223	12,484	
BITTERBRUSH 25,652 2,954 180 18 234 180 19 18 234 180 19 180 18 234 180 19 180	267	18,176			ASPEN	3,477	234		198	270		234	126	
Section Sect	270	126			BARREN	12,358	1,369		11,925	7,007		9,349	2,864	
Summary Summ	879	3,369			BITTERBRUSH	25,652	2,954		180	18		234		
12,108 CLOSED-COME PINE-CYPRESS 180 18	739	90			BLUE OAK WOODLAND				180	1,585		432	901	
180 324 COASTAL OAK WOODLAND 8,485 145,481 1,441 378 5.78 1.8 2,216 1.98 1.98 1.98 1.98 1.98 1.98 1.97 1.98 1.97 1.98 1.97 1.98 1.97 1.98 1.98 1.97 1.98 1.97 1.98 1.97 1.98 1.98 1.98 1.98 1.97 1.98 1.9	919	6,827			BLUE OAK-FOOTHILL PINE	3,152	6,557		5,332	1,837		2,720	991	
198 CROPLAND 8,485	423	2,108			CLOSED-CONE PINE-CYPRESS	180	18		1,837	1,027		180	108	
Total	180	324			COASTAL OAK WOODLAND					18				
DRYLAND GRAIN CROPS 39.80 17.2 4.936 10.8 2.036	198	108			CROPLAND	8,485	145,481	1,441	378	5,278		18	2,216	
18		72			DOUGLAS FIR	97,888	90,736	72	5,008	3,513		1,351	558	
108					DRYLAND GRAIN CROPS				72	4,936		108	2,036	
PRESH EMERGENT WETLAND	18	3,098			EASTSIDE PINE	392,867	140,437	54	10,736	9,890	108	2,000	991	
RRIGATED GRAIN CROPS RRIGATED GRAIN CROPS 18 2,018 18 2,01		108			EVERGREEN ORCHARD								36	
1,855 1,85	946	667			FRESH EMERGENT WETLAND							72	144	
RESIGNATE DOW AND FIELD CROPS 18	108	3,098			IRRIGATED GRAIN CROPS								901	
18 18 18 18 18 18 18 18	278	2,540			IRRIGATED HAYFIELD				18	2,018			1,855	
1995 LIUNIPER 204,026 92,646 5,314 955 180 486 888 180 1					IRRIGATED ROW AND FIELD CRO	PS							396	
1919 MAMATH MIXED CONIFER 16,0811 124,080 7,242 3,243 829 288	18	739			JEFFREY PINE	22,319	14,988		2,162	198		252	36	
2,180 2010 LCUSTRINE 16,195 8,503 3,297 1,261 1,477 721	72	396			JUNIPER	204,026	92,646	5,314	955	180		486		
414 2010 LODGEPOLE PINE 24,463 2,072 2,270 144 865 108		919			KLAMATH MIXED CONIFER	160.811	124.080		7.242	3,243		829	288	
144 LIDGEPOLE PINE 24,463 2,072 2,270 144 865 108		2,180		2010	LACUSTRINE	16,195	8,503		3,297	1,261		1,477	721	
162 MIXED CHAPARRAL 3,026 4,630 14,789 8,917 36 6,269 3,279		414		2010	LODGEPOLE PINE	24,463	2,072		2,270	144		865	108	
A A A A B A A A A A	288	36			LOW SAGE	214,907	51,322	360	2,000	324		126	270	
MONTANE HARDWOOD	540	162			MIXED CHAPARRAL	3,026	4,630		14,789	8,917	36	6,269	3,279	
171 414 MONTANE HARDWOOD-CONIFER 80,162 65,175 72 7,602 3,423 1,819 540	387	468			MONTANE CHAPARRAL	271,687	77,226	90	12,340	4,918		450	54	
Section Sect	946	793			MONTANE HARDWOOD	48,602	46,026	162	10,394	6,989		3,243	3,225	
PASTURE PASTURE 18 4.251 54 144	171	414			MONTANE HARDWOOD-CONIFER	80,162	65,175	72	7,602	3,423		1,819	540	
108 PERNNIAL GRASSLAND 50,619 36,532 54 306 721 36 36	558	324			MONTANE RIPARIAN	5.945	5,404		1.801	649		234	18	
11,074 107,471 378 12,358 13,565 54 2,198 2,738 23,699 919 REDFIR 111,074 107,471 378 12,358 13,565 54 2,198 2,738 23,699 919 REDFIR 127,737 18,014 8 8 8 8 8 8 8 8 8	368	3,927			PASTURE				18	4,251		54	144	
RED FIR 127,737 18,014 8,467 1,225 2,126 216 141 18 RICE 360 143,716 1,837 14 360 90 126 154 1,387 RIVERINE 254 36 1,437 18,014 360 90 126 156 90 SAGEBRUSH 770,62 143,716 1,837 27,525 4,918 36 2,306 883 151 2,936 SIERRAN MIXED CONIFER 770,62 519,415 288 83,202 83,004 18,140 6,899 333 234 SUBALPINE CONIFER 13,204 5,458 83,202 83,004 18,140 6,899 360 URBAN 13,204 5,458 4,197 703 7,764 144 324 VALLEY FOOTHILL RIPARIAN 16,75 14,197 36 144 630 157 VALLEY OAK WOODLAND 10,340 34,371 252 991 5,94 5,04 324 257 7,170 VINEYARD 10,340 34,371 252 991 5,94 5,04 324 362 WET MEADOW 10,340 34,371 252 991 5,94 5,04 324 363 364 365	883	108			PERENNIAL GRASSLAND	50,619	36,532	54	306	721		36	36	
1414 18 RICE 360 360 360 360 361 3		3,675			PONDEROSA PINE	111,074	107,471	378	12,358	13,565	54	2,198	2,738	
Second Process Seco	369	919			RED FIR	127,737	18,014		8,467	1,225		2,126	216	
216 90 SAGEBRUSH 2.26,490 1.43,716 1.837 2.7,255 4,918 36 2,306 883 711 2,936 SIERRAN MIXED CONIFER 770,620 519,415 288 38,208 23,004 18,140 6,899 333 234 SUBALIPINE CONIFER 13,204 5,458 937 7664 444 324 VALLEY FOOTHILL RIPARIAN 180 4,197 703 7,764 444 324 VALLEY FOOTHILL RIPARIAN 16,75 444 630 43,71 445 450 43,71 446 43,71 447 43,71 447 448 44	414	18			RICE								360	
	54	1,387			RIVERINE	54	36		144	360		90	126	
333 234 SUBALPINE CONIFER 13,204 5,458 937 7,764 360 URBAN 180 4,197 703 7,764 144 630 360 URBAN 366 144 630 361 361 361 362 361 362 361 362 361 362 361 361 361 361 361 361 361 361 361 361	216	90			SAGEBRUSH	226,490	143,716	1,837	27,525	4,918	36	2,306	883	
144 360 URBAN 180 4,197 703 7,764 144 324 VALLEY FOOTHILL RIPARIAN 36 144 630 1457 7,170 VINEYARD 36 36 36 27 7,170 VINEYARD 36 36 382 WET MEADOW 10,340 34,371 252 991 594 504 324 3793 12,304 WHITE FIR 267,832 63,229 3,333 1,189 1,027 18 162 667 Total: 3,174,172 1,802,641 10,376 218,546 154,254 288 72,326 55,357 28 72,326 55,357 36 36 36 36 36 36 36 3	711	2,936			SIERRAN MIXED CONIFER	770,620	519,415	288	38,208	23,004		18,140	6,899	
1.44 3.24 VALLEY FOOTHILL RIPARIAN 36 1.44 630 1.31 1,675 VALLEY OAK WOODLAND 36 277 7,170 VINEYARG 36 382 WET MEADOW 10,340 34,371 252 991 594 504 324 373 12,304 WHITE FIR 267,832 63,229 3,333 1,189 1,027 18 162 667 Total: 3,174,172 1,802,641 10,376 218,546 154,254 288 72,326 55,357	333	234			SUBALPINE CONIFER	13,204			5,458			937		
431 1,675 VALLEY OAK WOODLAND 36 427 7,170 VINEYARD 36 382 WET MEADOW 10,340 34,371 25 991 54 504 324 973 12,304 WHITE RIR 267,832 63,229 3,333 1,189 1,027 18 162 667 Total: 3,174,172 1,802,641 10,376 218,546 154,254 288 72,236 55,357		360			URBAN	., .			180	4,197		703	7,764	
431 1,675 VALLEY OAK WOODLAND 36 427 7,170 VINEYARD 36 382 WET MEADOW 10,340 34,371 25 991 54 504 324 973 12,304 WHITE RIR 267,832 63,229 3,333 1,189 1,027 18 162 667 Total: 3,174,172 1,802,641 10,376 218,546 154,254 288 72,236 55,357	144	324			VALLEY FOOTHILL RIPARIAN					36		144	630	
427 7,170 VINEYARD 10,340 34,371 252 991 594 504 324 993 12,304 WHITE FIR 267,832 63,229 3,333 1,189 1,027 18 162 667 Total: 3,174,172 1,802,641 10,376 218,546 154,254 288 72,326 55,357														
973 12,304 WHITE FIR 267,832 63,229 3,333 1,189 1,027 18 162 667 Total: 3,174,172 1,802,641 10,376 218,546 154,254 288 72,326 55,357														
973 12,304 WHITE FIR 267,832 63,229 3,333 1,189 1,027 18 162 667 Total: 3,174,172 1,802,641 10,376 218,546 154,254 288 72,326 55,357		,				10.340	34.371	252	991	594		504		
162 667 Total: 3,174,172 1,802,641 10,376 218,546 154,254 288 72,326 55,357		12.304												
								10.376			288			
						-, ,	,,	.,	.,	. ,		,	,	

This is the Moderate Exposure by land cover (WHR) type table for use in main text. Moderate exposure by watershed tables are in appendix 2, single climate model tables are in appendix 4.

Extent = Entire Study Area (5-Watersheds plus 10km buffer) Extent = 5-Watersheds

RCP8.5 area = acres

Moderate Exposure - Moderate Exposure - Moderate Exposure -

Land Cover Type (WHR)			Modera	te Exposu	ıre -			Mod	erate Expo	sure -	
ALIXALI DESERT SCRUB ALIYAM DARF-SHRUB ALIYAM DA		Land Cover Type (WHR)	Co	nsensus			Land Cover Type (WHR)		Consensus	;	
ANDUAL GRASSLAND 8,016 33,97 18 ASPEN ANNUAL GRASSLAND 8,016 33,97 18 BARREN 35,614 6,737 BARREN 65,949 13,186 18 BITTERBRUSH 18 BITTERBRUSH 18 18 BITTERBRUSH 73 18 BILLE OAK WOODLAND 36 18 BILLE OAK WOODLAND 36 18 BILLE OAK WOODLAND 36 18 18 BITTERBRUSH 73 18 BILLE OAK WOODLAND 36 18 18 BITTERBRUSH 73 18 BILLE OAK WOODLAND 36 18 18 BITTERBRUSH 74 18 18 18 18 18 18 18 18 18 18 18 18 18			Public	Private	Tribal			Public	Private	Tribal	
AAPEN 5,949 13,186 18 BITTERBRUSH 18 18 BITTERBRUSH 18 18 BITTERBRUSH 18 BITTERBRUSH 18 BIUE OAK WOODLAND 36 18 18 18 18 18 18 18 18 18 18 18 18 18		ALKALI DESERT SCRUB					ALPINE DWARF-SHRUB				
BARREN 65,949 13,186 18 BITTERBRUSH 18 BITTERBRUSH 18 BITTERBRUSH 18 BIUE OAK WOODLAND 36 BIUE OAK WOODLAND 36 BIUE OAK WOODLAND 36 BIUE OAK-POOTHILI PINE 72 CLOSEPL-COME PINE-CYPRESS 558 90 POOLED POOLED PINE PINE PINE 20 CLOSTAL OAK WOODLAND 14,447 COASTAL OAK W		ALPINE DWARF-SHRUB					ANNUAL GRASSLAND	7,206	28,318		18
BARREN 65,949 13,186 18 BITTERBRUSH 13 8 BILE OAK WOODLAND 36 5 100 BILE OAK WOODLAND 36 6 100 COATMOOTHIL PINE 97 162 100SED-CONE PINE-CYPRESS 58 90 100 COATMOOTHIL PINE 97 162 100SED-CONE PINE-CYPRESS 58 90 100 COATMOOTHIL PINE 97 162 100SED-CONE PINE-CYPRESS 75 324 100SED-CONE PINE-		ANNUAL GRASSLAND	8,016	33,974	18		ASPEN				
BITTERBRUSH BLUE OAK WOODLAND 36 BLUE OAK WOODLAND 36 BLUE OAK WOODLAND 36 BLUE OAK FOOTHILL PINE 937 162 CLOSED-CONE PINE-CYPRESS 558 90 CASTAL OAK WOODLAND CLOSED-CONE PINE-CYPRESS 558 PO CROPLAND 14,447 COASTAL OAK WOODLAND COASTAL SKRUB CROPLAND 14,934 BELUE OAK-FOOTHILL PINE CROPLAND 14,447 COASTAL OAK WOODLAND COASTAL OAK WOODLA		ASPEN					BARREN	35,614	6,737		
BLUE OAK-POOTHILL PINE 937 162 CLOSED-CONE PINE-CYPERSS 775 324 CCOASTAL OAK WOODLAND COASTAL SKRUB COASTAL OAK WOODLAND COASTAL SKRUB		BARREN	65,949	13,186	18		BITTERBRUSH	18			
BILE OAK-FOOTHILL PINE		BITTERBRUSH	18				BLUE OAK WOODLAND	36			
CHAMISE-REDIANN CHAPARRAL CLOSED-CONE PINE-CYPRES COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDIOUGS ORCHARD DECIDIOUGS ORCHARD DECIDIOUGS ORCHARD DOUGLAS FIR DECIDIOUGS ORCHARD DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EUCALYPTUS EVERGREEN ORCHARD DRYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREEN ORCHARD DRYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREEN ORCHARD DRYLAND GRAIN CROPS IRRIGATED ROW AND FIELD CROPS IRRIGATED MAYFIELD IRRIGATED ROW AND FIELD CROPS IRRIGAT		BLUE OAK WOODLAND	36				BLUE OAK-FOOTHILL PINE	721			
CLOSED-CONE PINE-CYPRESS		BLUE OAK-FOOTHILL PINE	937	162			CLOSED-CONE PINE-CYPRESS	558	90		
COASTAL OAK WOODLAND COASTAL SCRUB COASTAL SCRUB COASTAL SCRUB CROPLAND D 14,934 DECIDUOUS ORCHARD DOUGLAS FIR PERSEN MERGERY FIRESH EMBERGENT WETLAND IRRIGATED GRAIN CROPS LIRRIGATED GRAIN CROPS LIRRIGATED GRAIN CROPS LIRRIGATED GRAIN CROPS LIRRIGATED GWAND FIELD CROPS LIRRIGATED ROW AND FIELD CROPS LIRRIGATED RO		CHAMISE-REDSHANK CHAPARRAL					COASTAL OAK WOODLAND				
COASTAL SCRUB 14,934		CLOSED-CONE PINE-CYPRESS	775	324			CROPLAND		14,447		
CROPLAND 14,934 EASTSIDE PINE EVERGREN ORCHARD ERISENTED PINE 360 90 IRRIGATED GRAIN CROPS IRRIGATED HAVFIELD EVERGREN ORCHARD EVERGREN ORCHA		COASTAL OAK WOODLAND					DOUGLAS FIR	7,692	2,270		
DECIDUOUS ORCHARD 13,45 10,754 10,754 10,754 10,755 10,754 10,755		COASTAL SCRUB					DRYLAND GRAIN CROPS				
DOUGLAS FIR 13,456 10,754 FRESH EMERGENT WETLAND RRIGATED GRAIN CROPS RRIGATED HAYPIELD RRIGATED GRAIN CROPS JEFREY PINE 216 90 PRESH EMERGENT WETLAND JUNIPER 6,773 2,378 2,378 RRIGATED GRAIN CROPS JUNIPER 6,773 2,378 2,378 RRIGATED GRAIN CROPS LOUSTRINE A,918 2,270 TUNIPER A,918		CROPLAND		14,934			EASTSIDE PINE				
DRYLAND GRAIN CROPS		DECIDUOUS ORCHARD					EVERGREEN ORCHARD				
RASTSIDE PINE 360 90 IRRIGATED HAYFIELD IRRIGATED ROW AND FIELD CROPS EVERGEEN ORCHARD 1		DOUGLAS FIR	13,456	10,754			FRESH EMERGENT WETLAND				
BUCALYPTUS FURRIGREN ORCHARD FURRIGREN ORCHARD FURRIGREN WETLAND FURRIGREN WETLAND WETLAND FURRIGREN FURRIGREN WETLAND FURRIGREN		DRYLAND GRAIN CROPS	-				IRRIGATED GRAIN CROPS				
EVERGREEN ORCHARD		EASTSIDE PINE	360	90			IRRIGATED HAYFIELD				
EVERGREEN ORCHARD		EUCALYPTUS					IRRIGATED ROW AND FIELD CROPS	i			
FRESH EMERGENT WETLAND 1									90		
IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED HAYFIELD IRRIGATED HAYFIELD IRRIGATED ROW AND FIELD CROPS JEFFREY PINE 378 336 LOUGEPOLE PINE LOW SAGE JUNIPER 20,464 5,152 MIXED CHAPARRAL 3,170 1,405 7,228 72 MONTANE CHAPARRAL 12,177 5,728 72 MONTANE HARDWOOD 486 630 MONTANE HARDWOOD								6.773	2.378		
IRRIGATED HAYFIELD IRRIGATED ROW AND FIELD CROPS IRRIGATED ROW AND FIELD							KLAMATH MIXED CONIFER				
IRRIGATED ROW AND FIELD CROPS JEFFREY PINE 378 396 LOW SAGE LOW S											
JEFFREY PINE 378 396 LOW SAGE LOW						2100		.,	-,		
21.00 JUNIPER			378	396							
KLAMATH MIXED CONIFER 31,885 31,092 MONTANE CHAPARRAL 12,177 5,728 72	2100							3.170	1.405		
LACUSTRINE		KLAMATH MIXED CONIFER									72
LODGEPOLE PINE LOW SAGE MONTANE HARDWOOD-CONIFER MONTANE IPARIAN MATE MATE MONTANE RIPARIAN MATE MATE MONTANE RIPARIAN MATE MATE MONTANE RIPARIAN MATE MAT				,							
LOW SAGE MIXED CHAPARRAL 3,333 1,513 PASTURE 72		LODGEPOLE PINE	-,	, -				1.045			
MONTANE CHAPARRAL 13,763 7,404 72 PERENNIAL GRASSLAND 32,533 24,481 54 MONTANE HARDWOOD 3,225 1,441 PONDEROSA PINE 34,515 1,171		LOW SAGE					MONTANE RIPARIAN		54		
MONTANE CHAPARRAL 13,763 7,404 72 PERENNIAL GRASSLAND 32,533 24,481 54 MONTANE HARDWOOD 3,225 1,441 PONDEROSA PINE 34,515 1,171		MIXED CHAPARRAL	3.333	1.513			PASTURE		72		
MONTANE HARDWOOD		MONTANE CHAPARRAL		,	72		PERENNIAL GRASSLAND	32.533	24.481		54
MONTANE HARDWOOD-CONIFER 2,810 955 RED FIR 34,515 1,171 MONTANE RIPARIAN 1,909 162 RICE RICE RICE RICE RIVERINE 18 PERENNIAL GRASSLAND 48,944 29,399 144 SAGEBRUSH SIERRAN MIXED CONIFER 21,833 9,890 RED FIR 58,617 4,269 SUBALPINE CONIFER URBAN 54 VALLEY FOOTHILL RIPARIAN SAGEBRUSH VALLEY FOOTHILL RIPARIAN VALLEY FOOTHILL RIPARIAN SIERRAN MIXED CONIFER VALLEY FOOTHILL RIPARIAN VAL		MONTANE HARDWOOD		,			PONDEROSA PINE	,	, -		
MONTANE RIPARIAN 1,909 162 RICE RICE RIVERINE 18 PASTURE 522 RIVERINE 18 PERENNIAL GRASSLAND 48,944 29,399 144 SAGEBRUSH SIERRAN MIXED CONIFER 21,833 9,890 PONDEROSA PINE 18 SIERRAN MIXED CONIFER URBAN 54 PONDEROSA PINE 18 VALLEY FOOTHILL RIPARIAN 54 PONDEROSA PINE PON							RED FIR	34.515	1.171		
PASTURE 522 RIVERINE 18 PERENNIAL GRASSLAND 48,944 29,399 144 SAGEBRUSH 21,833 9,890 PONDEROSA PINE 18 SIERRAN MIXED CONIFER 21,833 9,890 RED FIR 58,617 4,269 SUBALPINE CONIFER 54 RICE URBAN 54 SUBALPINE CONIFER 54 RIVERINE 18 VALLEY FOOTHILL RIPARIAN 54 SAGEBRUSH VALLEY OAK WOODLAND 1,855 811 SUBALPINE CONIFER WEY MEADOW 1,855 811 URBAN 54 WHITE FIR 15,366 9,962 VALLEY FOOTHILL RIPARIAN VALLEY OAK WOODLAND 1,855 811 VINEYARD VALLEY OAK WOODLAND 1,40,239 144		MONTANE RIPARIAN		162			RICE	- ,-	,		
PERENNIAL GRASSLAND 48,944 29,399 144 SAGEBRUSH PONDEROSA PINE 18 SIERRAN MIXED CONIFER 21,833 9,890 RED FIR 58,617 4,269 SUBALPINE CONIFER 54 RICE URBAN 54 54 RIVERINE 18 VALLEY FOOTHILL RIPARIAN 54 SAGEBRUSH VALLEY OAK WOODLAND 1,855 811 SUBALPINE CONIFER WET MEADOW 1,855 811 URBAN 54 WHITE FIR 15,366 9,962 VALLEY FOOTHILL RIPARIAN WHITE FIR 15,366 9,962 VALLEY FOOTHILL RIPARIAN Total: 214,763 140,239 144 VALLEY OAK WOODLAND VINEYARD VINEYARD 22,391 14,359 WHITE FIR 22,391 12,231 4,359 4,359			,	522			RIVERINE		18		
PONDEROSA PINE 18			48.944		144						
RED FIR 58,617 4,269 SUBALPINE CONIFER RICE URBAN 54 RIVERINE 18 VALLEY FOOTHILL RIPARIAN SAGEBRUSH VALLEY OAK WOODLAND SIERRAN MIXED CONIFER 31,092 21,761 VINEYARD SUBALPINE CONIFER WET MEADOW 1,855 811 URBAN 54 WHITE FIR 15,366 9,962 VALLEY FOOTHILL RIPARIAN Total: 214,763 140,239 144 VALLEY OAK WOODLAND VINEYARD VINEYARD WET MEADOW 5,891 4,359 WHITE FIR 22,391 12,231 14,359			,	-,				21.833	9.890		
RICE URBAN 54 RIVERINE 18 VALLEY FOOTHILL RIPARIAN SAGEBRUSH VALLEY OAK WOODLAND SIERRAN MIXED CONIFER 31,092 21,761 VINEYARD SUBALPINE CONIFER WET MEADOW 1,855 811 URBAN 54 WHITE FIR 15,366 9,962 VALLEY FOOTHILL RIPARIAN Total: 214,763 140,239 144 VALLEY OAK WOODLAND VINEYARD VINEYARD 4,359 4,359 WHITE FIR 22,391 12,231			58.617					,	-,		
RIVERINE 18		RICE	,-	,			URBAN		54		
SAGEBRUSH VALLEY OAK WOODLAND				18							
SUBALPINE CONIFER WET MEADOW 1,855 811 URBAN 54 WHITE FIR 15,366 9,962 VALLEY FOOTHILL RIPARIAN Total: 214,763 140,239 144 VALLEY OAK WOODLAND VINEYARD VINEYARD WET MEADOW 5,891 4,359 WHITE FIR 22,391 12,231 12,231		SAGEBRUSH									
URBAN 54 WHITE FIR 15,366 9,962 VALLEY FOOTHILL RIPARIAN Total: 214,763 140,239 144 VALLEY OAK WOODLAND VINEYARD VINEYARD WET MEADOW 5,891 4,359 WHITE FIR 22,391 12,231		SIERRAN MIXED CONIFER	31.092	21.761			VINEYARD				
URBAN 54 WHITE FIR 15,366 9,962 VALLEY FOOTHILL RIPARIAN Total: 214,763 140,239 144 VALLEY OAK WOODLAND VINEYARD VINEYARD WET MEADOW 5,891 4,359 WHITE FIR 22,391 12,231			- ,	,				1,855	811		
VALLEY FOOTHILL RIPARIAN Total: 214,763 140,239 144 VALLEY OAK WOODLAND VINEYARD WET MEADOW 5,891 4,359 WHITE FIR 22,391 12,231				54							
VALLEY OAK WOODLAND VINEYARD WET MEADOW 5,891 4,359 WHITE FIR 22,391 12,231									-,		144
VINEYARD WET MEADOW 5,891 4,359 WHITE FIR 22,391 12,231								,. 00	, _ 0 0		
WET MEADOW 5,891 4,359 WHITE FIR 22,391 12,231											
WHITE FIR 22,391 12,231			5,891	4,359							
				,							
			,	, -	252						

		Modera	ate Exposu	ıre -			Mod	erate Expo	sure -
	Land Cover Type (WHR)	Co	nsensus			Land Cover Type (WHR)		Consensu	S
		Public	Private	Tribal			Public	Private	Tribal
	ALKALI DESERT SCRUB					ALPINE DWARF-SHRUB			
	ALPINE DWARF-SHRUB					ANNUAL GRASSLAND	3,098	10,610	
	ANNUAL GRASSLAND	4,089	13,601			ASPEN	2,342	198	
	ASPEN	3,423	378			BARREN	52,745	8,701	18
	BARREN	83,621	16,537	36		BITTERBRUSH	324	54	
	BITTERBRUSH	3,873	2,630	126		BLUE OAK WOODLAND			
	BLUE OAK WOODLAND					BLUE OAK-FOOTHILL PINE	36	198	
	BLUE OAK-FOOTHILL PINE	685	540			CLOSED-CONE PINE-CYPRESS	2,990	288	
	CHAMISE-REDSHANK CHAPARRAL					COASTAL OAK WOODLAND			
	CLOSED-CONE PINE-CYPRESS	4,107	522			CROPLAND		108	
	COASTAL OAK WOODLAND					DOUGLAS FIR	2,198	1,964	
	COASTAL SCRUB					DRYLAND GRAIN CROPS			
	CROPLAND	36	2,792			EASTSIDE PINE	72,110	13,222	54
	DECIDUOUS ORCHARD					EVERGREEN ORCHARD			
	DOUGLAS FIR	12,610	5,512			FRESH EMERGENT WETLAND			
	DRYLAND GRAIN CROPS					IRRIGATED GRAIN CROPS			
	EASTSIDE PINE	126,728	17,221	54		IRRIGATED HAYFIELD		1,873	
	EUCALYPTUS					IRRIGATED ROW AND FIELD CROPS			
	EVERGREEN ORCHARD					JEFFREY PINE	1,207	234	
	FRESH EMERGENT WETLAND					JUNIPER	79,946	65,661	5,242
	IRRIGATED GRAIN CROPS					KLAMATH MIXED CONIFER	15,978	8,485	
	IRRIGATED HAYFIELD		2,756		2070	LACUSTRINE	4,341	7,548	
	IRRIGATED ROW AND FIELD CROPS					LODGEPOLE PINE	6,125	180	
	JEFFREY PINE	1,261	775			LOW SAGE	180	36	
2070	JUNIPER	101,058	71,173	5,440		MIXED CHAPARRAL	33,470	19,635	
	KLAMATH MIXED CONIFER	22,373	10,953			MONTANE CHAPARRAL	4,143	1,477	
	LACUSTRINE	5,728	8,160			MONTANE HARDWOOD	2,270	2,756	
	LODGEPOLE PINE	12,322	955			MONTANE HARDWOOD-CONIFER	3,243	1,765	
	LOW SAGE	1,513	558			MONTANE RIPARIAN	4,377	1,081	

MIXED CHAPARRAL	33,614	19,851			PASTURE		1,225	
MONTANE CHAPARRAL	4,810	2,360			PERENNIAL GRASSLAND	1,333	4,540	
MONTANE HARDWOOD	3,152	,			PONDEROSA PINE	739	775	
MONTANE HARDWOOD-CONIFER	6,611	3,206			RED FIR	8,232	883	
MONTANE RIPARIAN	6,251				RICE			
PASTURE	54	2,090			RIVERINE	36	36	
PERENNIAL GRASSLAND	5,314	6,431			SAGEBRUSH	6,359	1,982	
PONDEROSA PINE	811	829			SIERRAN MIXED CONIFER	8,214	7,170	
RED FIR	17,311	2,792			SUBALPINE CONIFER	5,296	,	
RICE	,-	, -			URBAN	-,		
RIVERINE	36	36			VALLEY FOOTHILL RIPARIAN			
SAGEBRUSH	11,547	2,504			VALLEY OAK WOODLAND			
SIERRAN MIXED CONIFER	8,791				VINEYARD			
SUBALPINE CONIFER	7,980	306			WET MEADOW	306	2,900	
URBAN	.,500	550			WHITE FIR	15,870	2,648	
VALLEY FOOTHILL RIPARIAN						al: 337,510		5,31
VALLEY OAK WOODLAND						557,510	100,200	3,31
VINEYARD								
WET MEADOW	360	4,323						
WHITE FIR	18,410	3,170						
while rik Total:		218,365	5 656					
Total.	300,461	210,303	3,030					
		ate Exposu	ıre -				erate Expo	
Land Cover Type (WHR)		nsensus			Land Cover Type (WHR)		Consensus	
	Public	Private	Tribal			Public	Private	Tribal
ALKALI DESERT SCRUB					ALPINE DWARF-SHRUB			
ALPINE DWARF-SHRUB					ANNUAL GRASSLAND	703	1,693	1
ANNUAL GRASSLAND	1,459	5,945	18		ASPEN	72		
ASPEN	90							
					BARREN	37,415	10,610	3
BARKEN	54,276	12,826	36		BARREN BITTERBRUSH		10,610 198	3
	54,276 216	12,826 198	36			37,415		3
BITTERBRUSH		,	36		BITTERBRUSH	37,415		3
BITTERBRUSH BLUE OAK WOODLAND		198	36		BITTERBRUSH BLUE OAK WOODLAND	37,415 216	198	3
BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE	216	198	36		BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE	37,415 216 811	198	3
BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL	216	198 15,114	36		BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS	37,415 216 811	198	3
BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS	3,008	198 15,114	36		BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND	37,415 216 811	198 1,009 216	3
BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND	3,008	198 15,114	36		BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND	37,415 216 811 4,558	198 1,009 216 685	3
BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB	3,008	198 15,114	36		BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR	37,415 216 811 4,558	198 1,009 216 685	3
BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND	216 3,008	198 15,114 270	36		BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS	37,415 216 811 4,558 13,943	198 1,009 216 685 13,204	3
BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDUOUS ORCHARD	216 3,008	198 15,114 270	36		BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE	37,415 216 811 4,558 13,943	198 1,009 216 685 13,204	3
BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDUOUS ORCHARD DOUGLAS FIR	3,008 4,612	198 15,114 270 1,441	36		BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND	37,415 216 811 4,558 13,943	198 1,009 216 685 13,204	3
BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDUOUS ORCHARD DOUGLAS FIR DRYLAND GRAIN CROPS	216 3,008 4,612 22,229	198 15,114 270 1,441 14,249	36		BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS	37,415 216 811 4,558 13,943 6,521	198 1,009 216 685 13,204 1,117	
BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDUOUS ORCHARD DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE	3,008 4,612	198 15,114 270 1,441 14,249	36		BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD	37,415 216 811 4,558 13,943 6,521	198 1,009 216 685 13,204	
BITTERBRUSH BIUE OAK WOODLAND BIUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDUOUS ORCHARD DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS	216 3,008 4,612 22,229	198 15,114 270 1,441 14,249	36		BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED HAYFIELD IRRIGATED ROW AND FIELD CRO	37,415 216 811 4,558 13,943 6,521	1,009 216 685 13,204 1,117	
BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDUOUS ORCHARD DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREEN ORCHARD	216 3,008 4,612 22,229	198 15,114 270 1,441 14,249	36		BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED ROW AND FIELD CRO JEFFREY PINE	37,415 216 811 4,558 13,943 6,521 378 PS 2,486	1,009 216 685 13,204 1,117 38,262	
BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDUOUS ORCHARD DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREEN ORCHARD FRESH EMERGENT WETLAND	216 3,008 4,612 22,229	198 15,114 270 1,441 14,249	36		BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED ROW AND FIELD CRO JEFFREY PINE JUNIPER	37,415 216 811 4,558 13,943 6,521 378 PS 2,486 3,819	1,009 216 685 13,204 1,117 38,262 306 216	
BARREN BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDUOUS ORCHARD DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREEN ORCHARD FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS	216 3,008 4,612 22,229 7,890	198 15,114 270 1,441 14,249 2,990		2040	BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED HAYFIELD IRRIGATED ROW AND FIELD CRO JEFFREY PINE JUNIPER KLAMATH MIXED CONIFER	37,415 216 811 4,558 13,943 6,521 378 PS 2,486 3,819 32,569	198 1,009 216 685 13,204 1,117 38,262 306 216 11,691	18
BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-POOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDUOUS ORCHARD DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EUCALYPTUS EVERGREEN ORCHARD FRESH EMERGENT WETLAND	216 3,008 4,612 22,229 7,890	198 15,114 270 1,441 14,249 2,990	36	2040	BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND CROPLAND DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EVERGREEN ORCHARD FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD IRRIGATED ROW AND FIELD CRO JEFFREY PINE JUNIPER	37,415 216 811 4,558 13,943 6,521 378 PS 2,486 3,819	1,009 216 685 13,204 1,117 38,262 306 216	

	ANNUAL GRASSLAND	1,459	5,945	18		ASPEN	72		
	ASPEN	90				BARREN	37,415	10,610	36
	BARREN	54,276	12,826	36		BITTERBRUSH	216	198	
	BITTERBRUSH	216	198			BLUE OAK WOODLAND			
	BLUE OAK WOODLAND					BLUE OAK-FOOTHILL PINE	811	1,009	
	BLUE OAK-FOOTHILL PINE	3,008	15,114			CLOSED-CONE PINE-CYPRESS	4,558	216	
	CHAMISE-REDSHANK CHAPARRAL					COASTAL OAK WOODLAND			
	CLOSED-CONE PINE-CYPRESS	4,612	270			CROPLAND		685	
	COASTAL OAK WOODLAND					DOUGLAS FIR	13,943	13,204	
	COASTAL SCRUB					DRYLAND GRAIN CROPS			
	CROPLAND		1,441			EASTSIDE PINE	6,521	1,117	
	DECIDUOUS ORCHARD					EVERGREEN ORCHARD			
	DOUGLAS FIR	22,229	14,249			FRESH EMERGENT WETLAND			
	DRYLAND GRAIN CROPS					IRRIGATED GRAIN CROPS			
	EASTSIDE PINE	7,890	2,990			IRRIGATED HAYFIELD	378	38,262	180
	EUCALYPTUS					IRRIGATED ROW AND FIELD CROPS			
	EVERGREEN ORCHARD					JEFFREY PINE	2,486	306	
	FRESH EMERGENT WETLAND					JUNIPER	3,819	216	
	IRRIGATED GRAIN CROPS					KLAMATH MIXED CONIFER	32,569	11,691	
	IRRIGATED HAYFIELD	378	65,247	180	2040	LACUSTRINE	18,572	4,503	
	IRRIGATED ROW AND FIELD CROPS					LODGEPOLE PINE	4,107	306	
	JEFFREY PINE	2,882	1,675			LOW SAGE	1,081	378	
2040	JUNIPER	3,873	252			MIXED CHAPARRAL	24,391	10,376	
	KLAMATH MIXED CONIFER	50,043	15,618			MONTANE CHAPARRAL	3,279	1,063	
	LACUSTRINE	21,184	5,116			MONTANE HARDWOOD	8,034	4,936	
	LODGEPOLE PINE	4,377	324			MONTANE HARDWOOD-CONIFER	7,908	7,242	36
	LOW SAGE	3,008	757			MONTANE RIPARIAN	4,648	2,234	
	MIXED CHAPARRAL	26,138	12,916			PASTURE		36	
	MONTANE CHAPARRAL	4,576	1,765			PERENNIAL GRASSLAND	1,081	3,639	
	MONTANE HARDWOOD	8,881	5,782			PONDEROSA PINE	42,711	27,796	
	MONTANE HARDWOOD-CONIFER	10,394	9,007	36		RED FIR	1,027	144	
	MONTANE RIPARIAN	5,332	2,468			RICE			
	PASTURE		36			RIVERINE	72		
	PERENNIAL GRASSLAND	2,738	5,188			SAGEBRUSH	7,098	342	
	PONDEROSA PINE	56,960	37,397			SIERRAN MIXED CONIFER	56,456	25,526	
	RED FIR	2,126	252			SUBALPINE CONIFER	7,944	18	
	RICE					URBAN			
	RIVERINE	72	36			VALLEY FOOTHILL RIPARIAN			
	SAGEBRUSH	12,610	396			VALLEY OAK WOODLAND			
	SIERRAN MIXED CONIFER	98,302	39,739			VINEYARD			
	SUBALPINE CONIFER	10,484	54			WET MEADOW	450	1,946	
	URBAN					WHITE FIR	11,169	2,756	
	VALLEY FOOTHILL RIPARIAN					Total:	303,518	172,448	270
	VALLEY OAK WOODLAND								
	VINEYARD								
	WET MEADOW	522	2,684						
	WHITE FIR	17,257	3,405						
	Total:	435,920	263,148	270					

	Total:	435,920	263,148	270				
	_	Moderate E	•	80-		Mod	derate Expo	sure
Land Cover Type (WHR	()		95%		Land Cover Type (WHR)		80-95%	
		Public	Private	Tribal		Public	Private	Tribal
ALKALI DESERT SCRUB		1,873	11,853		ALPINE DWARF-SHRUB			
ALPINE DWARF-SHRUB					ANNUAL GRASSLAND	6,863	26,354	36
ANNUAL GRASSLAND		12,250	56,888	36	ASPEN	162	72	
ASPEN		342	198		BARREN	51,772	14,483	36
BARREN		74,308	18,464	36	BITTERBRUSH	1,351	667	
BITTERBRUSH		6,323	5,638		BLUE OAK WOODLAND	757	2,306	
BLUE OAK WOODLAND		1,837	36,154		BLUE OAK-FOOTHILL PINE	1,855	7,476	18
BLUE OAK-FOOTHILL PINE		4,233	22,680	18	CLOSED-CONE PINE-CYPRESS	8,485	306	

	CHAMISE-REDSHANK CHAPARRAL	144	216			COASTAL OAK WOODLAND			
	CLOSED-CONE PINE-CYPRESS	9,529	685			CROPLAND	108	21,545	
	COASTAL OAK WOODLAND	18	18			DOUGLAS FIR	39,973	28,264	
	COASTAL SCRUB		18			DRYLAND GRAIN CROPS		468	
	CROPLAND	252	42,657			EASTSIDE PINE	73,947	25,544	162
	DECIDUOUS ORCHARD					EVERGREEN ORCHARD			
	DOUGLAS FIR	50,529	34,875			FRESH EMERGENT WETLAND			
	DRYLAND GRAIN CROPS		468			IRRIGATED GRAIN CROPS			
	EASTSIDE PINE	96,951	35,127	162		IRRIGATED HAYFIELD	2,828	69,660	180
	EUCALYPTUS					IRRIGATED ROW AND FIELD CROPS			
	EVERGREEN ORCHARD					JEFFREY PINE	3,783	216	
	FRESH EMERGENT WETLAND					JUNIPER	19,617	5,368	18
	IRRIGATED GRAIN CROPS					KLAMATH MIXED CONIFER	41,919	24,895	
	IRRIGATED HAYFIELD	2,828	98,915	180	2010	LACUSTRINE	17,708	8,737	
	IRRIGATED ROW AND FIELD CROPS				2010	LODGEPOLE PINE	12,123	2,126	
	JEFFREY PINE	5,837	2,522			LOW SAGE	14,717	5,692	
2010	JUNIPER	31,380	9,331	18		MIXED CHAPARRAL	37,073	18,699	18
	KLAMATH MIXED CONIFER	54,006	28,336			MONTANE CHAPARRAL	40,712	13,150	
	LACUSTRINE	23,418	10,808			MONTANE HARDWOOD	67,606	40,712	36
	LODGEPOLE PINE	16,537	4,143			MONTANE HARDWOOD-CONIFER	34,929	22,535	18
	LOW SAGE	25,598	8,340			MONTANE RIPARIAN	5,656	1,927	
	MIXED CHAPARRAL	41,955	36,334	18		PASTURE	18	2,774	
	MONTANE CHAPARRAL	54,042	15,942			PERENNIAL GRASSLAND	2,270	5,242	
	MONTANE HARDWOOD	78,505	57,501	36		PONDEROSA PINE	51,106	44,278	
	MONTANE HARDWOOD-CONIFER	41,342	29,147	18		RED FIR	27,075	1,495	
	MONTANE RIPARIAN	6,665	2,468			RICE			
	PASTURE	18	4,828			RIVERINE	270	126	
	PERENNIAL GRASSLAND	4,359	8,340			SAGEBRUSH	79,352	15,546	
	PONDEROSA PINE	70,128	58,185			SIERRAN MIXED CONIFER	136,294	104,355	72
	RED FIR	43,089	4,485			SUBALPINE CONIFER	10,916	36	
	RICE					URBAN			
	RIVERINE	360	144			VALLEY FOOTHILL RIPARIAN			
	SAGEBRUSH	109,669	20,050			VALLEY OAK WOODLAND			
	SIERRAN MIXED CONIFER	202,081	151,065	72		VINEYARD			
	SUBALPINE CONIFER	23,995	522			WET MEADOW	1,387	3,603	
	URBAN	72	11,295	90		WHITE FIR	49,574	12,592	
	VALLEY FOOTHILL RIPARIAN	18	486			Total:	842,208	531,250	594
	VALLEY OAK WOODLAND		306				•	•	
	VINEYARD								
	WET MEADOW	2,306	5,746						
	WHITE FIR	60,275	14,087						
		1,157,074		685					
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TOTAL MANAGEMENT		Related a Marrier Military Material and	Fotod - William Workshold	Poland - Union Surprised Widowshed
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March Marc	County C	Transfer	CONTRACTOR CONTRA	DOCULAR PR 8,535 12,666 508 503 503 708 DEVLAND GRANK-CEPS RATINGE PARI RACKET FUR RECKET FUR REC
March Marc	County C	Transfer	CONTRACTOR CONTRA	DOCULAR PR 8,535 12,666 508 503 503 708 DEVLAND GRANK-CEPS RATINGE PARI RACKET FUR RECKET FUR REC
March Marc	County C	Transfer	CONTRACTOR CONTRA	DOCULAR PR 8,535 12,666 508 503 503 708 DEVLAND GRANK-CEPS RATINGE PARI RACKET FUR RECKET FUR REC
March Marc	County C	Transfer	CONTRACTOR CONTRA	DOCULAR PR 8,535 12,666 508 503 503 708 DEVLAND GRANK-CEPS RATINGE PARI RACKET FUR RECKET FUR REC
March Marc	County C	Transfer	CONTRACTOR CONTRA	DOCULAR PR 8,535 12,666 508 503 503 708 DEVLAND GRANK-CEPS RATINGE PARI RACKET FUR RECKET FUR REC
March Marc	County C	Transfer	CONTRACTOR CONTRA	DOCULAR PR 8,535 12,666 508 503 503 708 DEVLAND GRANK-CEPS RATINGE PARI RACKET FUR RECKET FUR REC
March Marc	County C	Transfer	CONTRACTOR CONTRA	DOUGLAMPS 0,539 12,666 536 563 553 758 DEVLAND GRANICEPS BATTERE PAIN BACKET FUR BACKE
March Marc	County C	Transfer	CONTRACTOR CONTRA	DOCULAR PR 8,535 12,666 508 503 503 708 DEVLAND GRANK-CEPS RATINGE PARI RACKET FUR RECKET FUR REC
March Marc	County C	Transfer	CONTRACTOR CONTRA	DOCULAR PR 8,535 12,666 508 503 503 708 DEVLAND GRANK-CEPS RATINGE PARI RACKET FUR RECKET FUR REC
March Marc	County C	Transfer	CONTRACTOR CONTRA	DOCULAR PR 8,535 12,666 508 503 503 708 DEVLAND GRANK-CEPS RATINGE PARI RACKET FUR RECKET FUR REC
1	Company	The second sec	CONTRACTOR CONTRA	1968 1968 1969
March Marc	County C	Transfer	CONTROL CONTRO	DOCULAR PR 8,535 12,666 508 503 503 708 DEVLAND GRANK-CEPS RATINGE PARI RACKET FUR RECKET FUR REC

tent = Pit Watershed IP8.5 area = acres	Moderate Exposure -	areas of consensus moderate exposure in each Extent = Feather Watershed RCP8.5 area = acres		rate Exposure -		Upper Trinity Watershed area = acres	Moderate E	xposure.		Extent = McCloud Watershed RCP8.5	area = acre Moderate			Extent = Upper Sacramento Water RCP8.5	shed area = acre Moderate i	
Land Cover Type (WHR		Land Cover Type (WHR)		onsensus rivate Tribal		Land Cover Type (WHR)	- Cons	ensus rivate		Land Cover Type (WHR)	- Con	sensus Private		Land Cover Type (WHR)	- Con:	sensus Private
ALKALI DESERT SCRUB ALPINE DWARF-SHRUB		ALKALI DESERT SCRUB ALPINE DWARF-SHRUB				ALKALI DESERT SCRUB ALPINE DWARF-SHRUB				ALKALI DESERT SCRUB ALPINE DWARF-SHRUB				ALKALI DESERT SCRUB ALPINE DWARF-SHRUB		
ANNUAL GRASSLAND ASPEN BARREN	3,098 6,449 18 21.599 5.710	ANNUAL GRASSLAND ASPEN BARREN	4,053 5.981	20,932		ANNUAL GRASSLAND ASPEN BARREN	18 8.034	234 162		ANNUAL GRASSLAND ASPEN BARREN		342 18		ANNUAL GRASSLAND ASPEN BARREN	36	360
BARREN BITTERBRUSH BLUE OAK WOODLAND	21,599 5,710 18 36	BARREN BITTERBRUSH BLUE OAK WOODLAND	5,981	847		BITTERBRUSH BLUE OAK WOODLAND	8,034	162		BARREN BITTERBRUSH BLUE OAK WOODLAND		18		BITTERBRUSH BLUE OAK WOODLAND		
BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPA	721	BLUE OAK WOODDAWD BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL				BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL				BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL				BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL		
CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND		CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND				CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND				CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND	234	90		CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND		
COASTAL SCRUB CROPLAND	9,385	COASTAL SCRUB CROPLAND		5,062		COASTAL SCRUB CROPLAND				COASTAL SCRUB CROPLAND				COASTAL SCRUB CROPLAND		
DECIDUOUS ORCHARD DOUGLAS FIR	72	DECIDUOUS ORCHARD DOUGLAS FIR		18		DECIDUOUS ORCHARD DOUGLAS FIR	7,602	2,180		DECIDUOUS ORCHARD DOUGLAS FIR				DECIDUOUS ORCHARD DOUGLAS FIR	90	
DRYLAND GRAIN CROPS EASTSIDE PINE		DRYLAND GRAIN CROPS EASTSIDE PINE				DRYLAND GRAIN CROPS EASTSIDE PINE				DRYLAND GRAIN CROPS EASTSIDE PINE				DRYLAND GRAIN CROPS EASTSIDE PINE		
EUCALYPTUS EVERGREEN ORCHARD FRESH EMERGENT WETLAND	,	EUCALYPTUS EVERGREEN ORCHARD FRESH EMERGENT WETLAND				EUCALYPTUS EVERGREEN ORCHARD FRESH EMERGENT WETLAND				EUCALYPTUS EVERGREEN ORCHARD FRESH EMERGENT WETLAND				EUCALYPTUS EVERGREEN ORCHARD FRESH EMERGENT WETLAND		
IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD	,	IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD				IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD				IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD				IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD		
IRRIGATED ROW AND FIELD	CROPS	IRRIGATED ROW AND FIELD CROPS JEFFREY PINE	54	72		IRRIGATED ROW AND FIELD CROPS JEFFREY PINE	144	18		IRRIGATED ROW AND FIELD CROP JEFFREY PINE	•			IRRIGATED ROW AND FIELD CROPS JEFFREY PINE	18	
100 JUNIPER KLAMATH MIXED CONIFER	6,773 2,378 2,810 1,549	2100 JUNIPER KLAMATH MIXED CONIFER			2100	JUNIPER KLAMATH MIXED CONIFER	6,431	6,305	2100	JUNIPER KLAMATH MIXED CONIFER	9,818	8,647	2100	JUNIPER KLAMATH MIXED CONIFER		12,610
LACUSTRINE LODGEPOLE PINE	1,585 216	LACUSTRINE LODGEPOLE PINE	1,351	1,711		LACUSTRINE LODGEPOLE PINE	1,982			LACUSTRINE LODGEPOLE PINE				LACUSTRINE LODGEPOLE PINE		342
LOW SAGE MIXED CHAPARRAL	2,198 1,405	LOW SAGE MIXED CHAPARRAL	883			LOW SAGE MIXED CHAPARRAL	90			LOW SAGE MIXED CHAPARRAL				LOW SAGE MIXED CHAPARRAL		
MONTANE CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD-COI	5,170 2,018 72 432 540 NIFER 739 216	MONTANE CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD-CONIFER	4,702 288	522 18		MONTANE CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD-CONIFER	450 54 18	522 18		MONTANE CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD-CONIFER	991	234 90		MONTANE CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD-CONIFER	865	2,432
MONTANE HARDWOOD-COI MONTANE RIPARIAN PASTURE	NIFER 739 216 72	MONTANE HARDWOOD-CONIFER MONTANE RIPARIAN PASTURE	90	18		MONTANE HARDWOOD-CONIFER MONTANE RIPARIAN PASTURE	649	54		MONTANE HARDWOOD-CONIFER MONTANE RIPARIAN PASTURE	36			MONTANE HARDWOOD-CONIFER MONTANE RIPARIAN PASTURE		
PERENNIAL GRASSLAND PONDEROSA PINE	32,407 24,373 54	PERENNIAL GRASSLAND PONDEROSA PINE	72			PERENNIAL GRASSLAND PONDEROSA PINE		54		PERENNIAL GRASSLAND PONDEROSA PINE	36	54		PERENNIAL GRASSLAND PONDEROSA PINE	18	
RED FIR RICE	15,816 126	RED FIR RICE	4,017			RED FIR RICE	12,970	414		RED FIR RICE	558	540		RED FIR RICE	1,153	90
RIVERINE SAGEBRUSH		RIVERINE SAGEBRUSH		18		RIVERINE SAGEBRUSH				RIVERINE SAGEBRUSH				RIVERINE SAGEBRUSH		
SIERRAN MIXED CONIFER SUBALPINE CONIFER	2,792 4,179	SIERRAN MIXED CONIFER SUBALPINE CONIFER	18,969	5,620		SIERRAN MIXED CONIFER SUBALPINE CONIFER				SIERRAN MIXED CONIFER SUBALPINE CONIFER	72	90		SIERRAN MIXED CONIFER SUBALPINE CONIFER		
URBAN VALLEY FOOTHILL RIPARIAN	36	URBAN VALLEY FOOTHILL RIPARIAN		18		URBAN VALLEY FOOTHILL RIPARIAN				VALLEY FOOTHILL RIPARIAN				VALLEY FOOTHILL RIPARIAN		
VALLEY OAK WOODLAND VINEYARD WET MEADOW	1,387 594	VALLEY OAK WOODLAND VINEYARD WET MEADOW	468	216		VALLEY OAK WOODLAND VINEYARD WET MEADOW				VALLEY OAK WOODLAND VINEYARD WET MEADOW				VALLEY OAK WOODLAND VINEYARD WET MEADOW		
WHITE FIR	1,387 594 3,297 3,711 Total: 101,275 63,031 144	WET MEADOW WHITE FIR Total:	5,837 46,764	1,351	0	WHITE FIR Total:	270 38,712	54 10,016		WET MEADOW WHITE FIR Total	4,089 15,834	4,341 14,447		WHITE FIR Total:	1,873 12,177	504 16,339
	Moderate Exposure -		Mode	rate Exposure -			Moderate I				Moderate				Moderate I	
Land Cover Type (WHR	t) Consensus Public Private Tribal	Land Cover Type (WHR)		onsensus rivate Tribal		Land Cover Type (WHR)		ensus rivate		Land Cover Type (WHR)		sensus Private		Land Cover Type (WHR)		sensus Private
ALKALI DESERT SCRUB ALPINE DWARF-SHRUB ANNUAL GRASSLAND	775 7,440	ALKALI DESERT SCRUB ALPINE DWARF-SHRUB ANNUAL GRASSLAND	2,180	1,837		ALKALI DESERT SCRUB ALPINE DWARF-SHRUB ANNUAL GRASSLAND	90	829		ALKALI DESERT SCRUB ALPINE DWARF-SHRUB ANNUAL GRASSLAND		270		ALKALI DESERT SCRUB ALPINE DWARF-SHRUB ANNUAL GRASSLAND	54	234
ANNUAL GRASSLAND ASPEN BARREN	2,342 198 39,379 6,485 18	ANNUAL GRASSLAND ASPEN BARREN	8,989	1,675		ANNUAL GRASSLAND ASPEN BARREN	3,945	216		ASPEN BARREN	216	324		ASPEN BARREN	216	234
BITTERBRUSH BLUE OAK WOODLAND	324 54	BITTERBRUSH BLUE OAK WOODLAND	0,505	1,075		BITTERBRUSH BLUE OAK WOODLAND	3,543	210		BITTERBRUSH BLUE OAK WOODLAND	210	324		BITTERBRUSH BLUE OAK WOODLAND	210	
BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPA	162 ARRAL	BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL				BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL	36	36		BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL				BLUE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL		
CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND	5 2,648 162	CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND				CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND				CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND	18	90		CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND	324	36
COASTAL SCRUB CROPLAND	108	COASTAL SCRUB CROPLAND				COASTAL SCRUB CROPLAND				COASTAL SCRUB CROPLAND				COASTAL SCRUB CROPLAND		
DECIDUOUS ORCHARD DOUGLAS FIR	594 793	DECIDUOUS ORCHARD DOUGLAS FIR	162	378		DECIDUOUS ORCHARD DOUGLAS FIR	919	324		DECIDUOUS ORCHARD DOUGLAS FIR	108	90		DECIDUOUS ORCHARD DOUGLAS FIR	414	378
DRYLAND GRAIN CROPS EASTSIDE PINE	49,971 9,079 54	DRYLAND GRAIN CROPS EASTSIDE PINE	22,139	4,143		DRYLAND GRAIN CROPS EASTSIDE PINE				DRYLAND GRAIN CROPS EASTSIDE PINE				DRYLAND GRAIN CROPS EASTSIDE PINE		
EUCALYPTUS EVERGREEN ORCHARD FRESH EMERGENT WETLAND		EUCALYPTUS EVERGREEN ORCHARD FRESH EMERGENT WETLAND				EVERGREEN ORCHARD				EVERGREEN ORCHARD				EVERGREEN ORCHARD		
IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD	1,873	IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD				FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD				FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD				FRESH EMERGENT WETLAND IRRIGATED GRAIN CROPS IRRIGATED HAYFIELD		
IRRIGATED ROW AND FIELD	CROPS	IRRIGATED ROW AND FIELD CROPS	973	144		IRRIGATED ROW AND FIELD CROPS JEFFREY PINE	36	36		IRRIGATED ROW AND FIELD CROP JEFFREY PINE				IRRIGATED ROW AND FIELD CROPS JEFFREY PINE	198	54
070 JUNIPER KLAMATH MIXED CONIFER	79,892 65,643 #### 2,504 883	2070 JUNIPER KLAMATH MIXED CONIFER	54	18	2070	JUNIPER KLAMATH MIXED CONIFER	3,981	1,117	2070	JUNIPER KLAMATH MIXED CONIFER	4,107	811	2070	JUNIPER KLAMATH MIXED CONIFER	5,386	5,674
LACUSTRINE LODGEPOLE PINE	1,621 2,504 1,297 72	LACUSTRINE LODGEPOLE PINE	955 4,828	4,918 108		LACUSTRINE LODGEPOLE PINE	1,387			LACUSTRINE LODGEPOLE PINE	72	90		LACUSTRINE LODGEPOLE PINE	306	36
LOW SAGE MIXED CHAPARRAL	180 36 33,434 19,635	LOW SAGE MIXED CHAPARRAL				LOW SAGE MIXED CHAPARRAL	36			LOW SAGE MIXED CHAPARRAL				LOW SAGE MIXED CHAPARRAL		
MONTANE CHAPARRAL MONTANE HARDWOOD MONTANE HARDWOOD-COI	90 1,225 1,567	MONTANE CHAPARRAL MONTANE HARDWOOD	2,738 486	685 324		MONTANE CHAPARRAL MONTANE HARDWOOD	126 180	180 90		MONTANE CHAPARRAL MONTANE HARDWOOD	108 288	126 144		MONTANE CHAPARRAL MONTANE HARDWOOD	1,171 90	396 630
MONTANE HARDWOOD-COI MONTANE RIPARIAN PASTURE	NIFER 937 937 54 90 1.225	MONTANE HARDWOOD-CONIFER MONTANE RIPARIAN PASTURE	937 3,747	90 739		MONTANE HARDWOOD-CONIFER MONTANE RIPARIAN PASTURE	486 504	162 54		MONTANE HARDWOOD-CONIFER MONTANE RIPARIAN PASTURE	576 72	396 180		MONTANE HARDWOOD-CONIFER MONTANE RIPARIAN PASTURE	306	180 18
PASTURE PERENNIAL GRASSLAND PONDEROSA PINE	1,225 1,297 4,395 18	PASTURE PERENNIAL GRASSLAND PONDEROSA PINE	18 18	108 198		PASTURE PERENNIAL GRASSLAND PONDEROSA PINE	18 270	72		PASTURE PERENNIAL GRASSLAND PONDEROSA PINE	306	36 486		PASTURE PERENNIAL GRASSLAND PONDEROSA PINE	144	
RED FIR RICE	216	RED FIR RICE	8,070	216		RED FIR RICE	90	12		RED FIR RICE	36	450		RED FIR RICE	36	
RIVERINE SAGEBRUSH	18 18 4,738 1,891	RIVERINE SAGEBRUSH	18 1,621	18 90		RIVERINE SAGEBRUSH				RIVERINE SAGEBRUSH				RIVERINE SAGEBRUSH		
SIERRAN MIXED CONIFER SUBALPINE CONIFER	54 504	SIERRAN MIXED CONIFER SUBALPINE CONIFER	8,214 18	7,116		SIERRAN MIXED CONIFER SUBALPINE CONIFER	4,558			SIERRAN MIXED CONIFER SUBALPINE CONIFER	54			SIERRAN MIXED CONIFER SUBALPINE CONIFER	162	
URBAN VALLEY FOOTHILL RIPARIAN		URBAN VALLEY FOOTHILL RIPARIAN				URBAN VALLEY FOOTHILL RIPARIAN				URBAN VALLEY FOOTHILL RIPARIAN				URBAN VALLEY FOOTHILL RIPARIAN		
VALLEY OAK WOODLAND VINEYARD WET MEADOW	234 1,153	VALLEY OAK WOODLAND VINEYARD WET MEADOW	54	1,747		VALLEY OAK WOODLAND VINEYARD WET MEADOW	18			VALLEY OAK WOODLAND VINEYARD WET MEADOW				VALLEY OAK WOODLAND VINEYARD WET MEADOW		
WHITE FIR	234 1,153 594 Total: 224,562 ###### ####	WET MEADOW WHITE FIR Total:	15,276	2,648	0	WET MEADOW WHITE FIR Total:		3,116		WET MEADOW WHITE FIR Total	5.963	3,495		WET MEADOW WHITE FIR Total:	8.809	7,638
	Moderate Exposure -			ate Exposure -	•		Moderate E				Moderate				Moderate i	
Land Cover Type (WHR		Land Cover Type (WHR)	c	onsensus rivate Tribal		Land Cover Type (WHR)	- Cons	ensus rivate		Land Cover Type (WHR)	- Con	sensus Private		Land Cover Type (WHR)	- Con:	sensus Private
ALKALI DESERT SCRUB	Consensus Public Private Tribal									ALKALI DESERT SCRUB				ALKALI DESERT SCRUB ALPINE DWARF-SHRUB		
ALPINE DWARF-SHRUB	Public Private Tribal	ALKALI DESERT SCRUB ALPINE DWARF-SHRUB				ALKALI DESERT SCRUB ALPINE DWARF-SHRUB				ALPINE DWARF-SHRUB						36 18
ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN	Public Private Tribal 468 1,315 18 36	ALKALI DESERT SCRUB ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN	54 36	108		ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN	180	162		ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN		72		ANNUAL GRASSLAND ASPEN		
ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH	Public Private Tribal 468 1,315 18	ALKALI DESERT SCRUB ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH	54	108 2,450		ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH	180 396	162 54		ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH	108	72 721		ASPEN BARREN BITTERBRUSH	108	18
ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE	Public Private Tribal 468 1,315 18 36 27,363 7,368 36 216 198	ALKALI DESERT SCRUB ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN BAREN BITTERBRUSH BLUE OAK WOODLAND BLUE OAK FOOTHLIL PINE	54 36			ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE				ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE	108			ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-FOOTHILL PINE	108	18
ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND	Public Private Tribal 468 1,315 18 36 27,363 7,368 36 216 198	ALKALI DESERT SCRUB ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND	54 36 9,439	2,450		ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND				ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND	108			ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND	108	
ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND BLUE OAK FOOTHILL PINE CHAMISE-REDSHANK CHAPA CLOSED-CONE PINE-CYPRES COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND	Public Private Tribal 468 1,315 18 36 27,363 7,368 36 216 198	ALMALI DESERT SCRUB ALFINE DWARF-SPRUB ANNUAL GRASSLAND BAREEN BITTERBRUSH BLUE GAK WOODLAND BLUE GAK WOODLAND CLOSED COME PINE CYPRISS COME PINE CYPRISS COASTA SCRUB CROPALA	54 36 9,439	2,450		ALPINE DWARF-SHRUB ANNUAL GRASSIAND ASPEN BARREN BITTERBRUSH BLUE OAK FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRES COASTAL OAK WOODLAND COASTAL SKUB COASTAL OAK WOODLAND COASTAL SKUB CROPLAND	396			ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN BARREN BUTTERBRUSH BULE OAK WOODLAND BULE OAK WOODLAND COASTAL CAW WOODLAND		721		ASPEN BARREN BUTTERBRUSH BULLE OAK WOODLAND BULLE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND		18
ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND BLUE OAK-POOTHILL PINE CLOSED-CORE PINE-CYPRES' COASTAL OAK WOODLAND COASTAL SCRUB CROPLAND DECIDIOUS ORCHARD	Public Private Tribal 468 1,315 18 36 27,363 7,368 36 216 198 ARRAL 5 4,323 180	ALMALI DESERT SCRUB ALFINE DWARF-SPRUB ANNUAL GRASSIAND ASPEN BARRERBUSH BULLE GAAL WOODLAND BULLE GAAL FOOTHELL PINE CHAMIS-SEDSHAMIC CHAPARAL CLOSED-COME PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB	54 36 9,439	2,450		ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN BITTERBRUSH BILLE DAK WOODLAND BILLE DAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL COSED-CORE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB	396			ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN BERREN BITTERBRUSH BILLE OAK WOODLAND BILLE OAK WOODLAND CHAMBS-REDSHANK CHAPARRAL COSED-CONE PINE-CYPRESS COASTAL CAK WOODLAND COASTAL SCRU		721		ASPEN BARREN BITTERBRUSH BILLE OAK WOODLAND BILLE OAK-FOOTHILL PINE CHAMISE-REDSHANK CHAPARRAL CLOSED-CONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRUB		18
ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN BARENN BITTERRUSH BITTERRUSH BULE OAK WOODLAND BULE OAK WOODLAND CLOSED-CONE PINE-C-PREST COASTAL OAK WOODLAND COASTAL ASK WOODLAND DECIDUOUS ORCHARD DECIDUOUS ORCHARD DUGLAS FR	Public Private Tribal 468 1,315 18 468 1,315 18 468 1,315 18 47 234 36 36 48 4,323 180 68 5 84 7 23 4	ALMALI DESERT SCRUB ALFINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN BUTTERBRUSH BULE GAK WOODLAND BULE GAK WOODLAND BULE GAK WOODLAND COMENTAL COMEN CHAPPER CHAMISS-REDISHANC CHAPPARIA CLOSED-COME PINE-CYPRESS COASTAL GAK WOODLAND COASTAL SCRUB COLOURS CROCHARD DOUGLAS FIR DRYLAND GRAIN CROPS	54 36 9,439 811	2,450 991 2,720		ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN BARREN BITTERBRUSH BLUE OAK WOODLAND BLUE OAK FOOTHILL PINE BLUE OAK WOODLAND COAK-FOOTHILL PINE COPRESS COASTAL OAK WOODLAND COASTAL SKUB COASTAL OAK WOODLAND DECIDIOUS ORCHARD DUGUAS PIR DRYLAND GRAIN CROPS	396	54		ALPINE DWARF-SHRUB ANNUAL GRASSAND ASPEN BERREN BITTERBRUSH BRUE OAK WOODLAND BLUE OAK FOOTHILL PINE CHAMIST-REDSHANK CHAPARRAL LOSED-COME PINE-CYPESS COASTAL OAK WOODLAND DICCUDUOUS ORCHARD DOUGLAS FIR DOUGLAS FIR	126	721		ASPEN BARREN BITTERBRUSH BITTERBRUSH BILLE DAK WOODLAND BILLE DAK-FOOTHILLE PINE CLAMIES-REDSHAW CHAPARRAL CLOSED-COINE PINE-CYPRESA CLOSED-CONE PINE-CYPRESA CLOSED-CONE PINE-CYPRESA COASTAL OSK WOODLAND CCASTAL SCRUB CROPLAND DECIDIOUS ORCHARD DOUGLAS FIR DRYLAND GRAIN CROPS	72	18 18
ALPINE DWARF-SHRUB ANNILLG (RASSLAND ASPEN BARREN BITTERRUH BILLE DAM WOODLAND BULE DAM WOODLAND GOODLAND CLOSED-ONE PINE-CYPRESS COASTAL OAK WOODLAND COASTAL SCRIB CKOPLAND DUCLAS FIR DUCLAS FIR DYNAMO GRANN CROPS EASTSIDE PINE EASTSIDE PINE EUCLYPTUS	Public Private Tribal 468 1,315 18 36 36 27,363 7,368 36 216 198 ARRAL 5 4,323 180 685	ALEALI DESERT SCRUB ALFINE DWARF-SFRUB ALFINE DWARF-SFRUB ASPEN ASPEN BARREN BUTTERBRUSH BULLE DAK WOODLAND BULLE DAK WOODLAND BULLE DAK WOODLAND COMMENT ADDRESS COMSTAL CROUB COMMENT ADDRESS COMSTAL CROUB COMSTAL SCRUB DOUGLAS FIR BUTLAND GRANN CROPS FACTOR PRIVE BUTLAND GRANN CROPS FACTOR PRIVE BUCALTYPUS	54 36 9,439 811	2,450 991		ALPHIE DWARF-SHRUB ANNUAL GRASSLAND ASPEN ASPEN ASPEN BRASEN BELLE OAK WOODLAND BLIE OAK WOODLAND COMMENT ASPEN ASPEND ASPEND ASPEND ASPENDANCE ASPENDANCE ASPENDANCE ASPENDANCE ASPENDANCE ASPENDANCE ASPENDANCE	396	54		ALPINE DWARF-SHIUB ANNIAL GRASSLAND ASPEN ASPEN BELT DAM WOODLAND BELT DAM WOODLAND CHARLE RUDSHAND CHARLE CHAR	126	721		ASPEN BARREN BITTERRUSH BITTERRUSH BITTE OAK FOOTHILL PINE CHAMISE-REDSHAW COMPAREAL CLOSED-CONE PINE-CYPRESZ COASTAL CAK WOODLAND CCASTAL SCRUB CROPLAND DECIDIOUS ORCHARD DOUGLAS FIR DRYLAND GRAIN CROPS EASTSIDE PINE EUCLLYPTUS	72	18 18
ALPRIE DWARF-SHRUB ANNUAL GRASIAND ASFEN BARREN BITTERRUUH BULE DAM WOODLAND BULE DAM WOODLAND BULE DAM WOODLAND COSED-ONE-ONE-ONE-ONE-ONE-ONE-ONE-ONE-ONE-ONE	Public Private Tribal 468 1.315 18 36 27.363 7.364 36 216 198 36 4.323 180 685 4.323 180 685 3847 224 3.779 450	ALKALI DESERT SCRUB ALFINE DWARE-SPRUB ALFINE DWARE-SPRUB ASPRE BERGASSAND BERGASSAND BUTTERBRUSH BULE DAK WOODLIND COMPANY	54 36 9,439 811	2,450 991 2,720		ALPINE DWARF-SHRUB ANNUAL GRASSLAND ASPEN ASPEN ASPEN BRASEN BITTURRUSHOULD BRASEN BITTURRUSHOULD BRASEN BITTURRUSHOULD BRASEN B	396	54		ALPINE DWARF-SHRUB ANNIAL GRASSLAND ASPEN ASPEN BELL OAK WOODLAND BULL OAK WOODLAND BULL OAK WOODLAND CHARK-REDSHANK CHAPARPAL (COSTO CASE HOUSE AND	126	721		ASPEN BERRENSH BITTERBRUSH BILLE DAK WOODLAND BILLE DAK WOODLAND BILLE DAK WOODLAND BILLE DAK WOODLAND COMMISS RE DISHORT COMPAREAL COMMISS RE DISHORT CONSTAL SCRIBE CORSTAL OAK WOODLAND CORTAL SCRIBE CORSTAL SCRIBE	72	18 18
ALPINE DWARF-SHRUB ANNUAL GRASLAND ASPAN ASPAN BUE DAK WOODAND BUE DAK FOOTHIL PINE CHAMISE REDSHANK CHAPS CUSILCOME PINE CYPIESS COSTAL SCRUB DOUGLAS THE CYPIESS COSTAL SCRUB DOUGLAS THE CONTROL ENGURS DEVLAND GRANN CROPS ENGURS DEVLAND GRANN CROPS EVALUTFUS VERGREEN DOUGLAS BUSINESS ENGURS ENG	Public Private Tribal 468 1,315 18 56 23,363 7,368 36 22,163 7,368 36 23,432 3180 685 4,323 180 685 887 234 3,729 450	ALMALI DESERT SCRUB ALFINE DWARF-SPRUB ASPINE GRASSLAND ASPINE GRASSLAND ASPINE GRASSLAND ASPINE GRASSLAND BUTTERBRUSH BULL GAAK WOODLAND BULL GAAK WOODLAND BULL GAAK WOODLAND COLOST AND ASPINE CYPRESS COASTAL CASE WOODLAND COASTAL SCRUB COOPTAAL	\$4 36 9,439 811 2,054 2,792	2,450 991 2,720		ALPINE DWARF-SHRUB ANNUAL GIRASADO ASPEN IN ANNUAL GIRASADO ASPENDANTINO ASPENDANTINO ANNUAL GIRASADO ASPENDANTINO ASP	396	54		ALPINE DWARF-SHRUB ANNIAL GRASSAND ASPEN ASPEN BETTEBRUSH BLUE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK WOODLAND COSTOLOM FROM CHEEN COSTOLOM FROM COSTOLOM COSTOL	126 54	721		ASPEN BERREN BITTERRINGH BILL DAW WOODLAND BILL DAW WOODLAND BILL DAW WOODLAND BILL DAW FOOTHILL PINE CHAMISE REIDSHAND CHAMBER ALL DAW WOODLAND CONTAIN DECEMBER OF THE CONTA	72 612	18 18
ALPRIE DWARF-SHRUB ANNIULA GRASIANO ASPEN BULLO AM WOODLAND BULLO AM FOOTBILL INNE CHARLES OF THE CHARLES CONTINUED ON TH	Public Private Tribal 468 1,315 18 56 27,368 7,368 36 216 198 36 4,323 180 685 887 234 3,729 450	ALMALI DESERT SCRUB ALPINE DWARF-SPRUB ANNUAL GRASSLAND ANNUAL GRASSLAND BARREN BUTTERBRUSH BULE GAK WOODLAND BULE GAK WOODLAND BULE GAK WOODLAND COMMISS-REDSHAND CHAPPARRAL COMSTAL CAS WOODLAND COMSTAL SCRUB GOPLAND DECIDUOUS GRCHARD DUGGAS FIR DRYLAND GRAND CROPS EATSIDE PINE EUCALYPTUS EVERGREEN ORCHARD FRESH EMERGENT WETLAND RRIGHTED GRAND CROPS BRIGATED HAYERS BRIGATED HAYERS BRIGATED HAYERS BRIGATED HAYERS BRIGATED GRAND RRIGHTED G	\$4 36 9,439 811 2,054 2,792	2,450 991 2,720 667	2040	ALPINE DWARF-SHRUB ANNULA GRASSLAND ASPENI AS ANNULA GRASSLAND ASPENI AS ASPENI	396	54	2040	ALPINE DWARF-SHIUB ANNIAL GRASSAND ASPEN ASPEN BUL GAK WOODLAND BULL GAK WOODLAND BULL GAK WOODLAND BULL GAK WOODLAND COSTO CONTROL FROM THE PARE CHANGE REDSHANK CHAPAREA COSTO CAN THE WOODLAND DOUGLAS FIR DUILLAND GRANK CHAPAREA DUILLAND GRANK GRAP DUILLAND GRANK GRAP BULL GAK WOODLAND FROM THE STATE OF THE STATE O	126 54	721	2040	ASPEN BERRENS BETTERBRUSH BERRENS BETTERBRUSH BUIL OAK WOODLIND BUIL OAK WOODLIND BETTERBRUSH CHARRISE FEDSHAME CHARRISE FEDSHAME CHARRISE CONSTAL CASE WOODLIND CONGTAL SCOULD CONGTAL COURS DOUGH BUILDED BUILDE	72 612	18 18
ALPINE OWARF-SHRUB ANNUAL GRASSLAND ASPEN BARREN BARREN BRUE OAK WOODLAND BULE OAK FOOTBILL PINE CHAMISE-REDSHANK CHAPS CLOSED CORE PINE-CYPRESS COASTAL OAK WOODLAND DICTOLOUSS ORCHARD DICTOLOUSS ORCHARD DICTOLOUSS ORCHARD DICTOLOUSS ORCHARD DICTOLOUSS ORCHARD PINE-CYPRESS EVERGREEN ORCHARD FRESH DEREGRITY WETLAND RISINGATED GRANN CROPS URBOATTD HAVFELD URBOATTD ON AND FELD 1990 HERGATTD ON AND FELD 1991 HERCATTD ON AND FELD 1991 HERCATTD ON AND FELD 1991	Public Private Tribal 468 1,315 18 56 27,368 7,368 36 273,68 73,68 36 685 4322 180 685 4322 180 685 5847 224 3,779 450 600 378 34,100 180 600 188 54	ALMALI DESERT SCRUB ALPINE DWARF-SPRUB ANNUAL GRASSIAND BARREN BUTTERBRUSH BULE GAK WOODLAND BULE GAK WOODLAND BULE GAK WOODLAND COMPANIES CONTROLLED COMMISS-REDSHAND CHAPPARIAL COMPANIES CONTROLLED COMPANIES CONTROLLED COMPANIES CONTROLLED CONTROLLED CONTROLLED CONTROLLED FACTSOR PRE DRYLAND GRAND CROPS FACTSOR PRE LUCALYPTUS VERROBERO ORCHARD FRESH EMERGENT WETLAND REGISTED GRAND CROPS REGISTED HAVE BUT STREET AND THE STREET REGISTED GRAND CROPS REGISTED HAVE BUT STREET REGISTED GRAND CROPS REGISTED HAVE BUT DEL CROPS REGISTED H	54 36 9,439 811 2,054 2,792	2,450 991 2,720 667 4,161 198	2040	ALPINE DWARF-SHRUB ANNIULA GRASSLAND ASPEN A MANUAL GRASSLAND ASPEN	396 36 10,376	9,782	2040	ALPINE DWARF-SHRUB ANNIAL GRASSAND ASPEN BARGEN BLUE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK WOODLAND COSTO, CONTROL OF THE CHARLES PROSENSE COASTAL OAK WOODLAND COSTO, CONTROL OAK WOODLAND COSTO, CONTROL OAK WOODLAND COSTO, CONTROL OAK WOODLAND DOUGLAS FIRE DOUGLAS FIRE BUCALTURE EUGALTURE EUGA	126	180	2040	ASPEN BERRENSH BITTERBRUSH BIT	72 612 612 7,962	18 18 468 72 2,558
ALPINE DWARF-SHRUB ANNILLA GRASIANO ASSEN BARREN BA	Public Private Tribal 448 1,315 18 36 27,363 7,568 36 27,363 7,568 36 4,323 180 685 847 234 3,729 450 7 378 34,100 180 CROPS 3,819 216 3,819 216 3,739 2	ALEALI DESERT SCRUB ALFINE DIVARES SPRUB ALFINE DIVARES SPRUB ASPEN ASPEN BARREN BUTTERBRUSH BULLE DAK WOODLAND BULLE DAK WOODLAND BULLE DAK WOODLAND BULLE DAK WOODLAND COMMISSE REDISHANK CHAPARRAL CLOSED-COME PIRE CYPRES COASTAL CACUB COMMISSE COMMISSE DESERVANT COASTAL SCRUB DECEMBOOLS ORCHARD DOUGLAS FIR DIVILAND GRAMA CODE FACTSOR PIRE BULLAUFFUS EVERGEREN ORCHARD FRESH ENGENTAND BUSTELLOS GRAMA BUSTELLOS BUS	54 36 9,439 811 2,054 2,792	2,450 991 2,720 667	2040	ALPINE DWARF-SHRUB ANNUAL GRASSADO ASPEN ANNUAL GRASSADO ASPEN ANNUAL GRASSADO ASPEN ASPENDA ASPEN ASPENDA ASPEN ASPENDA ASPEN ASPENDA	396 36 10,376	9,782	2040	ALPINE DWARF-SHRUB ANNIAL GRASSAND ASPEN BARNIAL GRASSAND ASPEN BLUE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK WOODLAND COSTO, COS	126 54	721	2040	ASPEN BERRENSH BITTERBINSH BIT	72 612 6	18 18 468
ALPINE DWARF-SHRUB ANNUAL GRASIAND ASPEN BUE OAK WOODAND BUE OAK FOOTHEIL PINE CHAMIS-RED SHANK CHAPS COLORLO CHE PINE CHAMIS-RED SHANK CHAPS COLORLO CHE PINE CHAMIS-RED SHANK CHAPS COLORLO CHE PINE CHAPS COLORLO CHE CHAPS COLORLO CHAPS DEVLAND GRANN CROPS DEVLAND GRANN CROPS EASTISIC PINE EUGLYPTUS VERGREEN ONCHARD UNGLANT BUS VERGREEN ONCHARD UNGLANT BUS UNGLANT UNGLAND UNGLANT WITHIN BISCATTO HAVEELD BISCATT	Public Private Tribal 468 1,315 18 56 23,63 73,88 36 23,64 73,88 36 685 847 234 1,729 450 0 378 34,100 180 CROPS 3,819 216 18 54 7,926 2,738	ALMALI DESERT SCRUB ALFINE DWARF-SPRUB ASPINE GRASSLAND ASPINE GRASSLAND ASPINE GRASSLAND ASPINE GRASSLAND BUTTERBRUSH BULL GAAK WOODLAND BULL GAAK WOODLAND BULL GAAK WOODLAND COLOSED COMP PINE CYPRESS COASTAL GAE WOODLAND COASTAL SCRUB COOPLAND DECEDIOLISS ORCHARD DECEDIOLISS ORCHARD DECEDIOLISS ORCHARD DECEDIOLISS ORCHARD EVERGREE GREEN WEITLAND BUTTLAND GRAIN CROPS EASTSIDE PINE EUCALIFYTUS EVERGREEN GERT WEITLAND BRIGGATED GRASSLAND BRIGG	54 36 9,439 811 2,054 2,792	2,450 991 2,720 667 4,161 198 1,585	2040	ALPINE DWARF-SHUB ANNUAL GIRASALAD ASPEN ANNUAL GIRASALAD GIRASA	396 36 10,376	9,782	2040	ALPINE DWARF-SHRUB ANNIAL GRASSAND ASPEN ASPEN BETTEBRUSH BLUE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK WOODLAND COSTOCOM IF PINE CHAMISE REDSHAND CHAPAREA COSTOCOM IF PINE CHAMISE REDSHAND CONTACT CHAPA	126 54 18 1,315	721 18 180 180	2040	ASPEN BARREN BITTERBRUSH BILLE OAK WOODLAND BILLE OAK FOOTHILL POWN BILLE OAK WOODLAND BILLE OAK FOOTHILL POWN BILLE OAK WOODLAND COASTAL SCRUE CASTAL SCRUE CASTAL SCRUE CASTAL SCRUE CROPAND DOUGLASF RR DOVLAND DOUGLASF RR DOVLAND DOUGLASF RR DOVLAND BERNEL ENGLAND BERNEL ENGLAND BERNEL ENGLAND BERNEL	72 612 612 7,962	18 18 468 72 2,558
ALPINE DWARF-SHRUB ANNUAL GRASLAND ASSEN BARREN BARREN BARREN BRUE DAK WOODLAND BRUE DAK FOODLAND BRUE DAK FOODLAND BRUE DAK FOODLAND BRUE DAK FOODLAND COMBETCH STREET COASTAL OAK WOODLAND COASTAL SCRIP DRICTAL OAK WOODLAND COASTAL SCRIP DRICTAL OAK WOODLAND DCCOUGLAS FOR DRICTAL OAK WOODLAND DCCASTAL SCRIP DRICTAL OAK WOODLAND FRISTED DCCASTAL SCRIP BROATED OAW AND FELD STREET FINE UN SAGE KAAMATH MIKED COMPETE LOUS FAGE WIELD COMPETE LOUS FAGE WIELD COMPETE LOUS FAGE WIELD COMPETE LOUS FAGE MIKED CHAPARRAL MIK	Public Private Tribal 4.68 1,315 18 5.6 27,363 7,568 36 27,363 7,568 36 27,363 7,368 36 27,373 180 685 847 234 3,729 450 378 34,100 180 CROPS 3,819 216 3	ALEALI DESERT SCRUB ALFINE DIVARES SPRUB ALFINE DIVARES SPRUB ASPEN ASPEN BARREN BUTTERBRUSH BULLE DAR WOODLAND BULLE DAR WOODLAND BULLE DAR WOODLAND BULLE DAR WOODLAND COMMITTER BUSHAND COMMITTER BUSHAND COMMITTER BUSHAND COMMITTER COMMITTER BULLED BULL	54 36 9,439 811 2,054 2,792 5 2,162 1,549 36 955 1,099 3,351	2,450 991 2,720 667 4,161 198 1,585 18 216 126 126 1289	2040	ALPINE DWARF-SHRUB ANNULA GRASSLAND ASPEN ANNULA GRASSLAND ASPEN BARRINA GRASSLAND BARRINA BARRINA GRASSLAND BARRINA GRASSLAND BARRINA BARRINA GRASSLAND BARRINA BARRI	396 36 10,376 108 24,571 4,017 54 757 198 829	9,782 36 8,899	2040	ALPINE DWARF-SHRUB ANNILLA GRASSAND ASPEN BANGILA GRASSAND ASPEN BUL OAK WOODLAND BULL OAK WOODLAND BULL OAK WOODLAND BULL OAK WOODLAND COMMENT OF THE CHARMS FEDSHAME CHAPAREA COMMENT OF THE CHARMS FEDSHAME CHAPAREA DOUGLAS FIRE DRYLAND GRANN CHAPAREA DRYLAND GRANN CHOPS LEXTINGE PINE LEXTINGE LEXT	126 54 18 1,315 342 234 612 576	721 18 180 18 270 288 324 721	2040	ASPEN BERRENSH BITTERBRUSH BITTERBRUSH BITTERBRUSH BITTERBRUSH BITTERBRUSH BITTERBRUSH BITTERBRUSH CHAMISE REDSHAME CHAPRES CHAMISE REDSHAME CHAPRES COASTAL AGE WOODLAND COOKTAL SCRUE CONTALA OR WOODLAND COOKTAL COASTAL SCRUE DEVLAND GRAIN CROPS EASTESS PIPE EUCLAYPTUS EUCLAYPTUS BERGATTE GRAIN CROPS BISGIATE DE ROW AND FIELD CROPS BISGIATED BORN AND FIELD CROPS BISGIATED BORN AND FIELD CROPS BISGIATED BORN AND FIELD CROPS LIFEREY PIPE LOUSTABLE LOUSTBRUE LOUSTB	72 612 216 7,962 3,765	18 18 468 72 2,558 162
ALPINE OWARF-SHRUB ANNUAL GRASLAND ASSEN BARRIN BRIGATTO GRAN CODIE BRIGATTO HAVFELD BRIGATTO BARRIN BRIGATO BRIGA	Public Private Tribal 468 1,315 18 56 23,363 7,368 36 2316 198 36 685 4,323 180 685 4,323 180 685 5 847 234 50 3,729 450 50 3889 216 18 54 2,389 216 18 54 2,389 216 18 54 2,389 216 18 54 2,389 216 18 54 2,389 216 18 54 2,389 216 18 54 2,389 216 18 54 2,389 216 2,389 216 2,389 216 2,389 216 2,389 216 2,389 216 2,389 2107 2,589 2,789 2,789 2,389 2,789 2,789 2,389 2,789 2,789 2,899 2,789 2,789 2,899 2,789 2,789 2,899 2,789 2,789 2,899 2,789 2,789 2,899 2,789 2,789 2,899 2,789 2,789 2,899 2,789 2,789 2,899 2,799 2,799 2,799 2,899 2,799 2,799 2,799 2,899 2,799 2,799 2,799 2,799 2,899 2,799 2,799 2,799 2,799 2,899 2,799 2,799 2,799 2,799 2,799 2,799 2,799 2,799 2,799 2,799 2,799 2,799 2,799 2,799 2,799 2,799 2,799 2,799 2	ALKALI DESERT SCRUB ALFINE DWARF-SPRUB ALFINE DWARF-SPRUB ASPINE ASPINE BUTTERBRUSH CODET COMPETER COMPATAL COUNTY COMPATAL SCRUB BUTTERBRUSH COMPATAL SCRUB BUTTERBRUSH BUTTE	54 36 9,439 811 2,054 2,792 1,549 36 955 1,099 3,351 4,485	2,450 991 2,720 667 4,161 198 1,585 18 216 126 1,369 1,495		ALPINE DWARF-SHRUB A ANNUAL GRASSADO ASPEN A SANUAL GRASSADO ASPEN BARRINA ASPEN A SANUAL GRASSADO ASPEN BARRINA ASPEN A SANUAL GRASSADO ASPEN BARRINA ASPENDA	396 36 10,376 108 24,571 4,017 54 757 198	9,782 9,782 36 8,899 198 1,009	2040	ALPINE DWARF-SHRUB ANNIAL GRASSAND ASPEN BARNIAL GRASSAND ASPEN BLUE OAK WOODLAND BLUE OAK WOODLAND BLUE OAK WOODLAND CHARLE OAK WOODLAND COME COME COME COME COME COME COME COME	126 54 18 1,315 342 234 612 576 54	721 18 180 18 270 288 324 721 288	2040	ASPEN BERRENSH BITTERBINSH BIT	72 612 216 7,962 3,765	18 18 468 72 2,558 162
ALPINE DWARF-SHRUB ANNULA (BASSLAND ASPEN ASPEN BUE OAK WOODLAND COASTAL OAK WOODLAND COASTAL OAK WOODLAND COASTAL SCRUB ENPELAND ENPELAND DICTURE OF THE STATE OF THE STATE BUE OAK WOODLAND ENPELAND ENPELA	Public Private Tribal 468 1,315 18 56 23,363 7,368 36 23,63 7,368 36 685 685 847 234 3,729 450 378 34,100 180 CROPS 381 54 7,936 2,738 3,729 18 1,081 3,78 9,18 1,081 3,78 9	ALKALI DESERT SCRUB ALFINE DWARF-SPRUB ALFINE DWARF-SPRUB ASPINE BUTTERBRUSH BUTTERBRUSH BULE DAK WOODLAND BULL DAK WOODLAND CONSTANT SCRUB BULL DAK WOODLAND CONSTANT SCRUB BULL DAK WOODLAND CONSTANT SCRUB BUTTANA ORAN CONSTANT BUTTANA CONSTANT BUTTANA CHAPARBAL MONTANE HARDWOOD CONIFER MONTANE HARDWOOD C	54 36 9,439 811 2,054 2,792 5 2,162 1,549 36 955 1,099 3,351	2,450 991 2,720 667 4,161 198 1,585 18 216 126 126 1289		ALPINE DWARF-SHRUB ANNULA GIRASAND ASPEN ANNULA GIRASAND ASPEN BUL OAK WOODLAND CHARLES CHOMMAN CHAPARSAL COASTAL OAK WOODLAND COASTAL OAK COASTAL	396 36 10,376 108 24,571 4,017 54 757 71 98 829 72	36 8,899 198 1,009	2040	ALPINE DWARF-SHRUB ANNIAL GRASSAND ASPEN ASPEN BUL GAK WOODLAND BUL GAK WOODLAND BUL GAK WOODLAND BUL GAK WOODLAND GRASSAND GRASS	126 54 18 1,315 342 234 612 576 54 90 19,978	721 18 18 18 270 288 324 721 288 36 7,278	2040	ASPEN BERRENUSH BILLE DAM WOODLAND COURSE CONSTRUCTION OF THE CHAPPASS COASTAL CAS WOODLAND COOKSTAL SCRUE DOWN DOWN DOWN DOWN DOWN DOWN DOWN DOWN	72 612 216 7,962 3,765 1,333 847 612	18 18 468 72 2,558 162 360 793 1,891
ALPINE DWARF-SHRUB ANNULA (BASSLAND ASPEN) ASPEN BUE OAK WOODAND COMPANY COMPA	Public Private Tribal 468 1.315 18 56 22,363 7386 36 2216 198 36 2363 7386 36 2378 34.00 180 CROPS 378 34.00 180 CROPS 3819 216 382 223 3729 18 1,081 278 2,137 10,76 2,137 10,76 2,137 138 1,081 278 2,137 10,76 2,137 10,77 2,137 1	ALMALI DESERT SCRUB ALPINE DWARF-SPRUB ALPINE DWARF-SPRUB ASPINE ASPINE ASPINE BUTTERBRUSH BULE GAK WOODLAND BULE GAK WOODLAND BULE GAK WOODLAND BULE GAK WOODLAND COLOR OF COLOR OF COLOR COSTAL SCRUB COOPTAL GAK COOPTAL GAK COOPTAL GAK DOUGLAS ORCHARD DUGUS ORCHARD DUGUS ORCHARD DUGUS ORCHARD DUGUS ORCHARD EUCALPTUS EVERGREE GERT WETLAND BRIGGATE GROW AND PELD CROPS BRIGGATE GROW AND PELD CROPS BRIGGATE ORWAND AND PELD CROPS BRIGG	54 36 9,439 811 2,054 2,792 1,549 36 9,55 1,099 3,351 1,485 2,70 2,70 2,70 2,566	2,450 991 2,720 667 4,161 198 1,585 18 216 1,169 1,495 667		ALPINE DWARF-SHRUB ANNIULA GIRASJAND ASPENI MANIULA GIRASJAND APPENINULA GIRASJAND APPE	396 36 10,376 108 24,571 4,017 54 757 198 829 72	9,782 9,782 36 8,899 198 1,009	2040	ALPINE DWARF-SHRUB ANNIAL GRASSAND ASPEN ASPEN BUL GAK WOODLAND COSTOL COST IPPN BUL GAKNO COSTAL SCRUB COMPAND DOUGLAS FIR BUL GAKNO	126 54 18 1,315 342 234 612 576 54	721 18 18 18 270 288 324 721 288 36	2040	ASPEN BERREN HERREN HER	72 612 216 7,962 3,765 1,333 847 612	18 18 468 72 2,558 162 360 793 1,891
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DEVLANDORAN CROPE BACTROP PARE 4.606 705 98.700 17.700	DIFFLORO CRAIN CROPE SACREGOPINE 2.107 WY	MAN 22.33	DEFLUND GRAIN CROPS EASTING PRINT	204 18 1000 14707	DEPLAND DAME CROPS SHENDS PANE	2.000 234	16411 7386	DEFLUE CAME CACHE	DM DM	DEVLAND CRAIN CROPS SACTION PINE	1313 1,666	DRYLAND GRUN CROPS EASTEDS PINE	1,00
	ENCHAPTOR EVENORIES OSCURS		ENCAUPTUS EVENDREEN CROMAND		EVENUE OROMAN			EUCHLAPTUS EVENOMEN CHOMAD	-	EVENOVEN ORDINAD		EVENOMEN GROWING	
MEEN EMBRORY WITLING MINISTER CROPE	PRIOR EMERCINY WITHARD BRIGHTID-DAMN CROPK		PRESIDENCE OF WITH AND		PRICE IMPRODIT WITLEND IMPORTO DIAM CHOPE			REGISTER CAN CHOPE		MISSAND GRAN CHOPS		MINISTER CALIF CACHE	
MINICATED ROW AND PILLD CHOPA MINICATED ROW AND PILLD CHOPA MINICATED ROME THE PROPERTY PROPERTY AND THE PROPERTY PRO	MINISTED IN A,CTE MINISTED NOW AND PELO CHOPE APPEND PINE	48 18	MINIGATIO NAVINELD MINIGATIO NOW AND FIELD CROPE JETTED PORE	(CN 2,078 11,007 NI	MINICATED NEATHERD CHO MINICATED NOW AND FIELD CHO AUTHOR POME	4	88	MINISTED NAMED INC. ON A PERSON OF THE PROPERTY AND THE P	N 18	MREATE HEYTED MREATE NOW AND PELCON ATTREY POST	ors.	MRGATIO HAVRILD MRGATIO NOW AND FILE CHOP STREET PRICE	24
1	BETTELEVISION 2,004 23 ENTERENT COURSE PRISO REMEMBERS WITHOUT SET 12 ENTERENT REMEMBERS WITHOUT SET 12 ENTE	2,379 11,189 10 480 10 10 1,211 1,000 1,211 1,000 1,212 1,000 1,213 1,000 1,213 1,000 1,213 1,000 1,214 1,000 1,214 1,000 1,214 1,000 1,214 1,000 1,214 1,000 1,214 1,000	2070 JAMPEN BLAMATH MINIS COMPIN	1	SUPPLE STANFOR		122 144	2070 AMPER KLAMATY MINES CONVER		2019 AUGUSTA MAND COMPEN	1,043 198 88 124 125 126 127 128 128 128 128 128 128 128 128 128 128	A CONTRACTOR OF THE PARTY OF TH	2,000 2,000
LECUSTRINE 31,000 11,000 8,617 4,000 10,000	LECUTIONS LOGGEPOLE PARE 0,610 213	10,111 1,000 4,121 1,000	LODGIPOLE PINE	6,791 126 2,616 144	LECUSTRINS LOGGEFOLE PINE	2,600 126	4,860 2,862 1,817 979	LECUTRALE LEGISTROLE PARE	612 18 72	LACUSTRIANS LOGGEROUS PINS	865 536 3,065 979	LOCKEROUS LOCKEROLE PINE	2,040 SER
MAND CHAPTER 1,000 10 10,000 11,000 14	MARIE CHARACTER 1,015 50	1,622 AME 11,665 7,516 54	MANAGE CHARACTER CONTRACTOR CONTRA	1,815 NO 4,387 1,627 NO	WASO CHAMMAT		1,000 1,007 18	MAKE CHIPARKII	252 906	MAKED CHARACTERS	649 136	MORE CHARACT.	2,890 919
MONTENE HARDWOOD 2,146 504 34,505 30,705 54 MONTENE HARDWOOD COMPER 54 36 34,409 30,706	MONTANE HANDWOOD CONFER	10,007 10,004 54 20,072 14,213	MONTAN HARDWOOD COMPEN	4,481 3,774 8,012 3,684	MONTANE HARDWOOD COMM		7,512 10,758 54 6,653 6,253	MONTANI HARDWOOD COMPI	288 90 991 108	MONTANE HARDWOOD CONF	2,668 1,609 188 1,607 617	MONTANE MAROWOOD CONFER	4,107 3,113 3,149 4,211
MONTONI EPHRAN 100 1,075 1,076	MONTANI RIPURINI PARTANI	90 70 1,000	MONTANE REPAREM	1,000 3,000	MONTANI REMINANI PARTURI		90 54 18	MONTANE RIPURANI PARTURE	_	MONTHME RPANIAN PARTANE		MONTANE REPARKS	
PRESIDENCE CREEKLAND 36 342 3,009 3,167 POACERODA PARE 256 122 14,285 13,000 PARENTE STATE STA	MODIFICATION CONTROL AND ADMINISTRATION OF THE ADMINISTRATION OF T	410 594 5,096 5,000	PORCHAGO PINE PONDEROSA PINE	294 64 1,881 906	POWDINGS ON PAGE	100 100	108 18 1,675 3,513	PORDINGE GREELAND PORDINGEA PINE	18 146 14 14	PONDEROIL PINE	54 578 6377 1,695	PORTOGRAPHI PONDEROGRAPHI	36 811 690
BCX NA 100 100 100 100 100 100 100 100 100 10	NO.	270 126	NCI BASINI		NO NOTAN		279 126	ACI MATERIAL	-	ACC SACRONE		RGI BYESINE	~
MACHINERY SANS 14,662 16,676 12,663	SERVICE CONTR. 2,618 13,611	180,860 73,380 1,867 10,329 6,965	SERVICE CONFEE	6,775 13,696 18 18 126	EMPARA MINED COMPIN	865 234	12,861 21,891 11,305 6,305	SERMA MINID CONFIR		SACREMON SERVIN MINES CONVER		SACREMAN MOSTO COMPER	
MANAPARI 2,288 20,835 741 MANAPARI 28 90 7,624 54	SUBMEPOR COMPER 126 URBAN 18	11,945 18 36 560	MANAPONI CONFER	18 1,783 18 140	SUBALIPAGE COMPER URBAN		36	SUBSECTION CONSTRU	208 7,314 26	SUBJECTION COMPEN	1,061	SUBSECUTIVE CONFER	1,667
WALLEY DAY WOODLAND	VALLEY CON WOODLING		PRINTEN ON MODOFFIND PRINTEN LOG LINET BENNING		VALLEY FORTWOODLAND			ANTITAL ORK MODDITUD ANTITAL LOCURITY BENNEYA		VALUEY DOS WOODLAND		PRINTED ONE MODOLING PRINTED COLUMN BANKING	
MARKET M	WET MEEDOW 100 540 WHITE FM 10,000 2700	1,610 8,506	WIT MEADOW WHITE FIR	136 540 266 2(12) 4(10) 1(47)	WIT MINDOW WHITE PR	1945 1945	101 4,860 18	WITHEADOW WHILE PA	522 90	WIT MELOOW WHITE RE		WIT MINDOW WHITE RE	108 118
Tomas TI, SAN SI, AND O SAN	Tree 16,761 16,071	0 168,512 294,676 2,880	Team .	30,373 34,607 0 190,365 186,636 1,907	to the	11,013 10,013 0	113,731 81,810 73	146	e 216 UN 13,114 3,549	Test.	A 100 100 1000 10,000	100	144 594 25,508 21,384
	National Content	10,00 18 10 18 10 18 10 18 10 18 18 10 18 18 10 18 18 10 18 18 10 18 18 10 18	Land Cover Type (MARI)	MINOCONY MINOCONY Public Private Tribal Public Private Televi	Land Green Type (WHR)	MARIOC Grey Public Private 2-8-4	MRDC Dely Public Private Dribe'	Land Cover Type (MWII)	123 103 104	Land Court Type (WHE)	1,055 M M M M Moderate Moderate Representation (M) Moderate Moderate Representation (M) Moderate Representation (Land Cover Type (WWI)	108 108 20,000 20,000 108 108 108 108 108 20,000 20,000 109 109 109 109 109 109 109 109 109
Market	AUXILI DESIRE SCRUB AUPRIC DISSIPE SPRUB	214	AUCHU DESERT SCRUB AUPINE DINIAN GHILB		AURIALI DESIRT SCRUB AURIAL DASIRT SHRUB		Patric Polani 1,400 0,1411 18 164 16 2,166 2,790 721 4,349 1,419 2,648 18 18 125 2,968	ALVALI DESIRE SCHUR ALPRE DISERP SHILIR		ALABA DESIRE SOSIA ALPRIE DALAR DRICK	142	ALKALI DESERT SCHUM ALFRAS DAVARE CHRUM	14
ANNUAL CRUSTAND 955 6,517 5,512 44,747 54 APPEN 18 306 148	ANNUAL GRANDLAND 707 A,964 ASPEN 18	3,325 34,565 34 234 60	ANNUAL CREATERING	667 4,149 1,739 10,013 18 18 72 54	ANNUAL CRASSLAND APPIN	144	1,410 4,143 18	ANNUAL GRADLAND	36 360 18 18	ARMIN CREEK AND	18 219 18	ANNUAL CRASS LIND	36 36 38 362
### 1778 ###################################	BUT DAY WOODLAND	600 100 700 6207	STEERING STEERING	226 1,551 649 198 18 19	BUTSHBUSH BLUE GAS WOODLEAN		TI 4249	STEERING WOODLAND	MA 136	BUILDING WOODLY	1,900 1.96	BUT DAY WOODLAND	1,400 607
BUT OLE FOOTHEL FINE 610 730 5,400 13,500 18 CHARGE RESPONSE CHAPARIES	BLUE GAS FOOTHEL PINE 200 104 CHAMBE REDRIAN CHAMBAL	4,017 3,419 18	BLIE CAN POOTHEL PARE OHIMIE RECHAN CHIPARIA	270 134 960 16	BLUE CASE POOTHEL PINE CHAMINE RESIDENCE CHAPARM		1,819 2,618 18	BLUE GAS POOTHIS PARE CHISMES REDUNAN CHISPANNI		BLUE CAS FOOTHEL PINE CHEANIE RESIDENCE CHEFURE	486 146	BUS OSS FOOTHEL PASE CHEMIS RESEARCH CHEMISTRE	1,811 680
GOND CONFINICOVANIS 1,018 18 1,711 10 CONTRAC GAS WOODLAND 10 10	CLOSED-COME PARE CHARGE 2,018 18 COMETAL GRAY WOODSLAND	1,625 146 18	CONTRA COM MAN CHARGE	1,767 279	CLONED COM PART OFFICE CONTINUOUS MOCOLAND		14	CLOWD-COMPANI CHMISS CONTIN. DISK WOODLIND	108 18	CLOSED COM PINE CYPRES COACTAL CAR WOODLAND	73 665 70	CLOSED COME PINE CHPRESS COMETINE CHIS WOODS AND	398 38 388 54
COCASO IN 14,411	CROMAND CROMAND	170 4,795	CONTRACTOR CONTRACTOR	795	CONTANT NOW		174 7,998	CONTINUE CROSS***		CROPLING CROPLING	994 296 29 39	COSTANO COSTANO COSTANO	
DOUGLASHIN S,AND 2,022 8,367 4,758 DEVLANDOSMAN CROPS	DOUBLASTM 1,327 2,388 DEFLAND DAWN CROPS	8,210 1,999	DOUGLAS PIR DEFLUND GRAIN CROPS	18 162 3,626 906	DOUGLAS PR DRYLAND DAME CROPS	492 1,765	1,675 1,000	DOUGLASTIN DRYLAND DRAIN CROPS	667 256 757 725	DOUGLAS PIR DEVLAND GRAIN CROPS	904 296	DOUGLAS FIR DRYLAND GRAIN CROPS	144 2,310 1,335
BACKSOF PINE 1,516 1,516 10,121 21,510 10 BACKSOFFIE	ENTROPINE 3,505 1,507 ESCALAPTOR	44,711 21,707 90	ENETIDE PINE ENCAMPTIN	2,668 270 26,750 10,006 90	EMPLOY PARE ENGLAPTUS	1,117 997	15,888 8,611	ENTROCPINE ENCHAPTUS		SACTION PINE SUCKLEPTION	19 19	EASTEDS PINE ELECTRIPINE	18
PATRONINO DECIMO MILES EMPRODES METAJANO MILES PATRONINO DE PATRONINO	PATRONING CHOMAND PRESS DARROWS WITHOUT		PRESIDENCE ORDINAL AND		PURCHEN OROMAD PRICE IMPRODIT WITLEND			PARTICIPATION OR CHARGO		PARTICIPATION OF THE PARTICIPAT		PRODUCTION OF THE PARTY OF THE	
MINISTERNATURED 2,000 2,000 12,004 MINISTERNATURED CHOPS	MINISTED NAVINGO MINISTED NOW AND THEO CHOPS	2,860 21,665	MINIGATIO HANNELD MINIGATIO NOW AND PILLO CROPE	1,666 296 24,700 10,000 0	MINGLED NOW AND FILLD CHO	4	1,008	MRGATIO NAVIVELO MRGATIO NOW AND FELO CHO	N.	MRGATIO NEVYTELO MRGATIO NOW AND PELOCIN	ors.	MARCATIO HON AND FILE CHOP	
2000 ATTEXY PAGE 1,001 1,002 10.0 ANNUAL 9,205 1,549 14	2048 APPEN	540 18 5,060 1,051 54	2000 JAPES	8,967 5,355 64	2000 AMPEN PINE		104 18 144 18	2040 AMPER POR	36	2000 AMPREY POLE		2000 SAMPER	
200 100	KLEMETH MINES CONFER 6,707 2,255 LACOUTINE 72 56	120 MB 8,858 4,730	SEAMETH MIXED CONFIRE EACUSTRINE	224 54 56 18 1,531 180	ELEGATINE LECUTINE	16 18	4,009 4,125	KLAMATH MINES CONVER LACUSTRAIS	1,279 1,879 36 36 1,549 36	KLAMATH MINIO COMPEN LACASTRINE	18 108 640 278 18 666 192 72 72 216 28 226 288 279 160 18 60 396 18 18 7,79 6,306	SLAMATH MAKED-COMPAN LACUTERIN	1,567 560 212 266 649 16
MANUSCHAMMAL 1,800 2,000 23,600 18 MINO CHAMMAL 1,800 2,000 23,600 27,600 18	SUMMAPOLE PINE 18 14 LOW-LACE 16 MIXED CHEMINAL 2,716 1,261	1,607 1,000 1,600 4,007 17,600 10,799 18	LODGIPOLE PINE LOW MACE MIXED CHAPMING	16 1,605 166 16 5,648 4,179 2,686 1,207 16,846 6,079 18	LOW SACE MINES CHIMMANA	34	614 18 1,600 1,619	LOW SACE MINES CHEMINAL	72 N W	LODGINGLE PINE LOW SACE MISED CHAPARRAL	16 684 622 72	LOGGIPOLE PRIE LOW SECE MISES ONLPARKEL	4,413 829
MONTENE CHAPANNIA 54 2,414 1,339 MONTENE PAROMODO 6,645 5,423 6,007 8,323 34	MONTANE CHAPARRAL NI MONTANE HARDWOOD LINE 1,001	1,891 847 1,622 3,156 18	MONTANI CHIPARINA MONTANI HARDWOOD	246 250 250 250 10 10 10 10 10 10 10 10 10 10 10 10 10	MONTANE ON PURSUITANIA	1,000 560	1,081 118 2,684 1,288	MONTANI CHAPARRAL MONTANI HARDWOOD	18 208 270	MONTHNE CHARACTERS MONTHNE CONTROLS CON	703 214 360 54	MONTANI CALPARRIA. MONTANI MAROWOOD	18 578 279 414 558 2,524 490
MONTENNE HARDWOOD-COMPER 4,615 1,680 1,080 1,085 1,085 MONTENNE REPARKAN 1,08 1,08	MONTANE HARDWOOD COMPER 1,185 2,613 MONTANE REPUBLISH	1,000 K29 90 70	MONTANI HARDWOOD COMPEN MONTANI RIPARMIN	1,043 540 468 108	MONTANT HUNDWOOD CONFE MONTANT REPUBLIN	1,729 975	690 270 90 72	MONTANI HARDWOOD COMPI MONTANI RIPARAN	16 166 198 19	MONTHS SPANIA	256 268 378 162	MONTANI MAROWOOD CONIPER MONTANI RIPARMA	126 486 336 266
PRETABLE NE A,337 739 PRESENCE CRESTAND 3,439 4,943	PARTINE DISTRICTOR	294 594 1,695 71,660 14,575 77	PARTURE PRESIDENT GRANTLING	16 1,927 214 360 214 360	PARTURE PRENING GRADLAND PORTURNAL BASE		72	PARTURE PORTRADA GRAZALAND ROMORROM RIVE	180 799	PERSONAL CRASSLAND	18 60 500 18 18 1130 CT	PARTURE PORTURES GRADILAND	M
ME 18 2,200 169 160 160 160 160 160 160 160 160 160 160	MOTOR NO. 163	- M 144 M	NO FILE	56 14,000 A,000	RED FIRE	-	360 1000 36	ALC HA		NO.	- 11 000 100	BIO FIN	236 366
	BROOKEN STATE OF THE STATE OF T	144 188 17,665 18,960	GOMEON .	16 180 26,697 5,098	ENGENIUS .	14	164 108 10,768 13,294	SACREGES		ENGERGE ENGERGEE		SACRECION .	
MARKET MARKET TO THE TOTAL TO T	SUREMAN MINISTER CONFERN	2,346 24,465 44 45 45 45 45 45 45 45 45 45 45 45 45		5278 18 108	ERRALA MINED COMPER EMALPINE COMPER	407 14	4,447 4,666 72	SERMA MINIO CONFER	1,189	SUBMINIST CONFER	622 797 665	SURBAN MINIO CONFER SUBMINIS CONFER	73 M
VALLEY FOOTHEL REPARKS 50 MIS VALLEY COST MOCOLAND 507	VALLEY FOODSLL SPANIAN		PRITTIA COR MODOLFIND PRITTIA LOGGISET SINTERS		ANTILA LOGGART MANUAL			ATTEN ADDORFT SENTEN		VALLEY FOOTHEL REPERSON VALLEY CASE WOODLAND		ARTER COLUMN BANKING	
1	WITHEADOW	1,307 4,509	SAME CONTROL SAME PART OF THE SAME SAME SAME SAME SAME SAME SAME SAM	14 14,00 4,000 16 140 24,007 4,000 10 2,007 4,000 10 10 10 10 10 10 10 10 10 10 10 10 10 1	WIT MILLDOW		430 3,909	WITHEADOW	188 80	WIT MELDOW		MINISTER CONTROL STATE OF THE	108 775
	West PR 16	0 201.002 100.003 270	MARTINE THE	11,875 11,600 0 114,601 70,600 100	WHEN PAR	U10 4023 0	79,380 73,381 73	WHITE FIE.	e 6,285 2,972 4,973 2,890	WHITE REA	e 1,007 811 14,010 13,000	WHITE PAR.	2340 (481 1647 (471
Tende 60,545 33,666 0 516 425 505 139 306													

							Upper
WHR Description	Study Area	5-Watersheds	Pit	Feather	Upper Trinity	McCloud	Sacramento
ALKALI DESERT SCRUB	19,149						
ALPINE DWARF-SHRUB	703	396				252	144
ANNUAL GRASSLAND	194,623	110,101	30,282	67,661	4,684	4,431	3,044
ASPEN	6,827	4,774	4,017	721		36	
BARREN	179,095	111,164	54,078	24,895	13,150	10,124	8,917
BITTERBRUSH	95,564	31,056	30,822			234	
BLUE OAK WOODLAND	74,308	6,161	540	5,620	252	2.5	2.555
BLUE OAK-FOOTHILL PINE	84,359	29,939	6,665	19,491	252	865	2,666
CHAMISE-REDSHANK CHAPARRAL	1,639	42.444	7.250		775	2.640	4 260
CLOSED-CONE PINE-CYPRESS	15,888	12,141	7,350	40	775	2,648	1,369
COASTAL SCRUP	180	18		18			
COASTAL SCRUB	72	104.050	111271	70.564			10
CROPLAND	241,135	184,950	114,371	70,561			18
DECIDUOUS ORCHARD	180 403,603	267.264	41.072	20 172	115 506	25.004	46 520
DOUGLAS FIR DRYLAND GRAIN CROPS	9,331	267,364 7,620	41,072 7,242	38,172 378	115,596	25,994	46,530
EASTSIDE PINE	899,060	656,736	452,241	196,803	360	3,567	3,765
EUCALYPTUS	36	030,730	452,241	190,803	300	3,307	3,703
EVERGREEN ORCHARD	775	36	18	18			
FRESH EMERGENT WETLAND	667	216	144	72			
IRRIGATED GRAIN CROPS	919	901	901	72			
IRRIGATED HAYFIELD	111.471	76,559	66,832	9,674			54
IRRIGATED ROW AND FIELD CROPS	414	70,339 396	396	3,074			34
JEFFREY PINE	73,857	43,954	21,923	21,275	414		342
JUNIPER	441,451	328,611	327,818	793	717		342
KLAMATH MIXED CONIFER	474,596	363,306	27,760	, 33	140,743	78,289	116,514
LACUSTRINE	108,264	57,897	26,733	17,383	5,909	2,306	5,566
LODGEPOLE PINE	82,720	44,170	25,472	14,105	90	4,503	3,300
LOW SAGE	404,288	289,719	289,016	703		.,	
MIXED CHAPARRAL	152,236	96,735	72,344	13,006	1,333	1,837	8,214
MONTANE CHAPARRAL	553,083	420,626	197,848	124,657	51,070	20,968	26,084
MONTANE HARDWOOD	325,873	226,994	71,479	79,442	4,035	25,886	46,152
MONTANE HARDWOOD-CONIFER	271,417	216,276	59,842	75,875	11,061	24,535	44,963
MONTANE RIPARIAN	27,633	21,635	5,530	14,051	937	1,081	36
PASTURE	16,014	7,260	7,043	90		90	36
PERENNIAL GRASSLAND	144,652	95,816	89,529	2,936	1,964	1,081	306
PONDEROSA PINE	477,803	345,220	212,061	54,132	2,504	70,273	6,251
RED FIR	323,171	186,355	47,701	66,724	33,614	29,219	9,097
RICE	360	360	360				
RIVERINE	2,054	1,207	396	811			
SAGEBRUSH	864,077	502,608	376,186	126,350	18	54	
SIERRAN MIXED CONIFER	2,124,803	1,617,295	567,080	957,155		79,478	13,583
SUBALPINE CONIFER	60,869	30,552	8,899	1,549	16,032	1,351	2,720
URBAN	36,568	12,844	2,378	6,881	198	558	2,828
VALLEY FOOTHILL RIPARIAN	2,666	811	234	252		54	270
VALLEY OAK WOODLAND	1,369	36	18	18			
VINEYARD	90	36	18		18		
WET MEADOW	89,566	52,367	30,606	19,113	1,153	414	1,081
WHITE FIR	545,463	398,794	89,457	217,086	35,812	41,288	15,150
Total:	9,944,943	6,862,012	3,374,703	2,248,469	441,721	431,417	365,702

These are the final connectivity tables. They cross rank connectivity with climate exposure of the vegetation.

There are 6 tabs: 2 main tables and 5 appendix tabs.

Main1_Conn_ConsensusRefHighExp Consensus Refugia & High Exposure: Summaries

Main2_Conn_ConsensusModExp Consensus Moderate Exposure: Summaries

April Consensus Refugia & High Exposure: Summaries

Apx1_Conn_ConRefHighExp_5Watshd Consensus Refugia & High Exposure: By Watershed Apx2_Conn_ConModExp_5Watshd Consensus Moderate Exposure: By Watershed

Apx3_Conn_RefHighExp Single Model Refugia & High Exposure: Summaries and by Watershed Apx4_Conn_ModExp Single Model Moderate Exposure: Summaries and by Watershed

Apx5_Conn_AreaByRank Total Area by Connectivity Rank

This is the Consensus Refugia & High Exposure by Connectivity Ranking table for use in the main text. Refugia & High Exposure by watershed tables are in appendix 1, single climate model tables are in appendix 3. Extent = Entire Study Area (5-Watersheds plus 10km buffer)

RCP8.5	area = acres										RCP8.5	area = acres									
	Connectivity							Very H	gh Exposu	re -		Connectivity							Very H	igh Exposi	ure -
	Ranking	Refugia -	Co	nsensus	High Expo	sure - Cor	nsensus	Co	nsensus			Ranking	Refugia -	C	Consensus	High Exp	osure - Con	sensus	c	onsensus	
	Nanking	Public	Private	Tribal	Public	Private	Tribal	Public	Private	Tribal		Nanking	Public	Private	Tribal	Public	Private	Tribal	Public	Private	Tribal
	5: High	109,345	13,727		21,365	3,621		133,069	42,063	18		5: High	66,291	10,448	В	17,744	2,450		107,850	31,651	
	4	41,864	7,368		6,251	2,234		41,666	25,310			4	27,507	5,620	0	5,134	1,765		34,839	17,726	
2100	3	503,022	106,571		47,863	25,868	54	568,035	191,218	1,243	2100	3	345,977	71,642	2	36,172	13,601	54	382,761	110,678	360
	2	162,450	74,073		18,374	19,383	36	171,079	144,652	126	2100	2	116,424	44,026	6	14,988	14,105	36	129,232	71,281	126
	1: Low	389,534	375,826	54	42,639	51,502	54	323,729	285,468	432		1: Low	249,494	267,976	6	26,607	38,874	54	241,712	157,712	324
	0: Not Selected	31,723	63,733	54	3,008	29,579	162	30,083	246,611	414		0: Not Selected	24,283	43,396	6 54	2,216	22,535	162	18,554	111,633	306
	Total:	1,237,939	641,298	108	139,500	132,187	306	1,267,662	935,322	2,234		Total:	829,976	443,10	8 54	102,860	93,330	306	914,948	500,681	1,117
	Connectivity					_			gh Exposu	re -		Connectivity					_			igh Exposi	ure -
	Ranking	Refugia -		nsensus		sure - Cor			nsensus			Ranking	Refugia -		consensus		osure - Con			onsensus	
		Public		Tribal			Tribal	Public		Tribal			Public	Private	Tribal	Public		Tribal	Public		Tribal
	5: High	259,041	46,260		14,483	4,828		14,862	6,125	18		5: High	189,831	34,064		10,898	3,765		11,205	4,197	
	4	101,779	26,913	36	5,368	3,243		5,620	4,395			4	76,289	21,40		,	2,090		4,576	2,288	
2070	3	917,740	242,612	144	49,899	17,005		256,069	89,638	1,081	2070	3	645,009	147,913		,	13,042		184,445	46,818	342
	2	304,400	161,657	18	26,066	19,419		43,936	-,	126		2	237,334	120,96		23,256	14,663		33,560	36,262	126
	1: Low	759,001	681,127	432	63,860	64,382		75,262	,	360		1: Low	509,525	527,738		,-	40,351	234	58,023	58,185	252
	0: Not Selected	54,042	117,145	324	7,278	99,473	468	11,133		216		0: Not Selected	38,046	85,656		5,116	83,026	468	8,358	84,359	216
	Total:	2,396,004	1,275,714	955	166,954	208,350	703	406,882	450,728	1,801		i otai:	1,696,034	937,730	b /03	132,799	156,938	703	300,167	232,110	937
								Very Hi	gh Exposu	re -									Very H	igh Exposi	ure -
	Connectivity	Refugia -	Co	nsensus	High Expo	osure - Cor	nsensus		gh Exposu onsensus	re -		Connectivity	Refugia -	c	Consensus	High Exp	osure - Con	nsensus		igh Exposi	ure -
	Ranking	Refugia - Public		nsensus Tribal			nsensus Tribal	· Co	nsensus	re - Tribal		Connectivity Ranking	Refugia - Public	C Private	Consensus Tribal	High Expo			Ċ	onsensus	ure - Tribal
	Ranking	-						· Co	nsensus				-		Tribal				Ċ	onsensus	
	Ranking	Public	Private	Tribal	Public	Private		Public	onsensus Private			Ranking	Public	Private	Tribal	Public	Private		C Public	onsensus Private	
2040	Ranking 5: High	Public 352,065	Private 84,972	Tribal 90	Public 24,391	Private 3,999		Public 9,583	onsensus Private 1,315		2040	Ranking 5: High	Public 271,993	Private 66,27	Tribal 3 4 54	Public 14,249 4,215	Private 3,243		Public 4,972	onsensus Private 991	
2040	Ranking 5: High 4	Public 352,065 139,338	Private 84,972 49,953	Tribal 90 54	Public 24,391 6,647	Private 3,999 1,585		Public 9,583 3,513	Private 1,315 937	Tribal	2040	Ranking 5: High 4	Public 271,993 111,092	Private 66,273 40,604	Tribal 3 4 54 1 775	Public 14,249 4,215 24,175	Private 3,243 1,243		Public 4,972 2,198	onsensus Private 991 486	Tribal
2040	Ranking 5: High 4	Public 352,065 139,338 1,260,546 388,183 958,092	Private 84,972 49,953 360,784	Tribal 90 54 1,045	Public 24,391 6,647 44,927	3,999 1,585 15,024		Public 9,583 3,513 32,785	nsensus Private 1,315 937 17,239	Tribal	2040	Ranking 5: High 4 3	Public 271,993 111,092 871,120	Private 66,273 40,604 218,313	Tribal 3 4 54 1 775 7 432	Public 14,249 4,215 24,175 12,069	3,243 1,243 11,403		Public 4,972 2,198 18,014	onsensus Private 991 486 9,457	Tribal
2040	Ranking 5: High 4 3	Public 352,065 139,338 1,260,546 388,183	Private 84,972 49,953 360,784 211,016	Tribal 90 54 1,045 450	Public 24,391 6,647 44,927 16,447	3,999 1,585 15,024 11,511		Public 9,583 3,513 32,785 15,096	private 1,315 937 17,239 18,212	Tribal 36 36	2040	Ranking 5: High 4 3 2	Public 271,993 111,092 871,120 310,363	Private 66,273 40,604 218,313 150,413	Tribal 3 4 54 1 775 7 432 5 2,270	Public 14,249 4,215 24,175 12,069	97.00 Private 3,243 1,243 11,403 7,818		Public 4,972 2,198 18,014 8,467 14,123 2,738	onsensus Private 991 486 9,457 11,061	Tribal 36 18
2040	Ranking 5: High 4 3 2 1: Low 0: Not Selected	Public 352,065 139,338 1,260,546 388,183 958,092	84,972 49,953 360,784 211,016 806,342 187,291	90 54 1,045 450 2,414 1,315	Public 24,391 6,647 44,927 16,447 31,759	3,999 1,585 15,024 11,511 30,119	Tribal	9,583 3,513 32,785 15,096 27,633 3,495	Private 1,315 937 17,239 18,212 38,604	Tribal	2040	Ranking 5: High 4 3 2 1: Low	Public 271,993 111,092 871,120 310,363 658,501 45,774	Private 66,273 40,604 218,313 150,413 627,899 106,443	Tribal 3 4 54 1 775 7 432 5 2,270 5 1,315	Public 14,249 4,215 24,175 12,069 25,778 2,414	3,243 1,243 11,403 7,818 20,698	Tribal	Public 4,972 2,198 18,014 8,467 14,123	onsensus Private 991 486 9,457 11,061 23,094	Tribal 36
2040	Ranking 5: High 4 3 2 1: Low 0: Not Selected	Public 352,065 139,338 1,260,546 388,183 958,092 66,093 3,164,318	84,972 49,953 360,784 211,016 806,342 187,291	90 54 1,045 450 2,414 1,315 5,368	Public 24,391 6,647 44,927 16,447 31,759 3,098 127,269	9799 1,585 15,024 11,511 30,119 22,968 85,206	36 36	9,583 3,513 32,785 15,096 27,633 3,495 92,105	nsensus Private 1,315 937 17,239 18,212 38,604 59,933 136,240	36 36 72	2040	Ranking 5: High 4 3 2 1: Low 0: Not Selected	Public 271,993 111,092 871,120 310,363 658,501 45,774 2,268,843	Private 66,273 40,604 218,313 150,413 627,899 106,443	Tribal 3 4 54 1 775 7 432 5 2,270 5 1,315 5 4,846	Public 14,249 4,215 24,175 12,069 25,778 2,414 82,900	Private 3,243 1,243 11,403 7,818 20,698 15,132 59,536	36 36	Public 4,972 2,198 18,014 8,467 14,123 2,738 50,511	onsensus Private 991 486 9,457 11,061 23,094 44,837 89,926	36 18 54
2040	Ranking 5: High 4 3 2 1: Low 0: Not Selected Total:	Public 352,065 139,338 1,260,546 388,183 958,092 66,093	Private 84,972 49,953 360,784 211,016 806,342 187,291 1,700,358	90 54 1,045 450 2,414 1,315 5,368	Public 24,391 6,647 44,927 16,447 31,759 3,098	Private 3,999 1,585 15,024 11,511 30,119 22,968 85,206	Tribal	Public 9,583 3,513 32,785 15,096 27,633 3,495 92,105 Very H	Private 1,315 937 17,239 18,212 38,604 59,933 136,240 igh Exposu	36 36 72	2040	Ranking 5: High 4 3 2 1: Low 0: Not Selected Total:	Public 271,993 111,092 871,120 310,363 658,501 45,774	Private 66,27: 40,604 218,31: 150,41: 627,89: 106,44: 1,209,94:	Tribal 3 4 54 1 775 7 432 5 2,270 5 1,315 5 4,846	Public 14,249 4,215 24,175 12,069 25,778 2,414	Private 3,243 1,243 11,403 7,818 20,698 15,132 59,536	Tribal	Public 4,972 2,198 18,014 8,467 14,123 2,738 50,511	onsensus Private 991 486 9,457 11,061 23,094 44,837 89,926 High Expos	36 18 54
2040	Ranking 5: High 4 3 2 1: Low 0: Not Selected Total: Connectivity Ranking	Public 352,065 139,338 1,260,546 388,183 958,092 66,093 3,164,318 Refugia	Private 84,972 49,953 360,784 211,016 806,342 187,291 1,700,358	77ibal 90 54 1,045 450 2,414 1,315 5,368	Public 24,391 6,647 44,927 16,447 31,759 3,098 127,269	Private 3,999 1,585 15,024 11,511 30,119 22,968 85,206 osure 99%	36 36 95-	Public 9,583 3,513 32,785 15,096 27,633 3,495 92,105 Very H	Private 1,315 937 17,239 18,212 38,604 59,933 136,240 igh Exposu > 99%	36 36 72	2040	Ranking 5: High 4 3 2 1: Low 0: Not Selected Total:	Public 271,993 111,092 871,120 310,363 658,501 45,774 2,268,843 Refugia	Private 66,273 40,604 218,313 150,413 627,899 106,444 1,209,948	Tribal 3 4 54 1 775 7 432 5 2,270 5 1,315 5 4,846	Public 14,249 4,215 24,175 12,069 25,778 2,414 82,900 High Expo	Private 3,243 1,243 11,403 7,818 20,698 15,132 59,536 Dosure 99%	36 36 95-	Public 4,972 2,198 18,014 8,467 14,123 2,738 50,511 Very I	onsensus Private 991 486 9,457 11,061 23,094 44,837 89,926 High Expos > 99%	18 54 sure
2040	Ranking 5: High 4 3 2 1: Low 0: Not Selected Total: Connectivity Ranking	Public 352,065 139,338 1,260,546 388,183 958,092 66,093 3,164,318 Refugia	Private 84,972 49,953 360,784 211,016 806,342 17,00,358 80% Private	Tribal 90 54 1,045 450 2,414 1,315 5,368 <	Public 24,391 6,647 44,927 16,447 31,759 3,098 127,269 High Expo	Private 3,999 1,585 15,024 11,511 30,119 22,968 85,206 Desure 99% Private	36 36	Public 9,583 3,513 32,785 15,096 27,633 3,495 92,105 Very H	Private 1,315 937 17,239 18,212 38,604 59,933 136,240 igh Exposu > 99% Private	36 36 72	2040	Ranking 5: High 4 3 2 1: Low 0: Not Selected Total: Connectivity Ranking	Public 271,993 111,092 871,120 310,363 658,501 45,774 2,268,843 Refugia	Private 66,273 40,604 218,313 150,413 627,899 106,444 1,209,948 80% Private	Tribal 3 4 54 1 775 7 432 5 2,270 5 1,315 5 4,846 < Tribal	Public 14,249 4,215 24,175 12,069 25,778 2,414 82,900 High Expe	Private 3,243 1,243 11,403 7,818 20,698 15,132 59,536 Description 99% Private	36 36 95-	Public 4,972 2,198 18,014 8,467 14,123 2,738 50,511 Very I	onsensus Private 991 486 9,457 11,061 23,094 44,837 89,926 High Expos > 99% Private	36 18 54
2040	Ranking 5: High 4 3 2 1: Low 0: Not Selected Total: Connectivity Ranking	Public 352,065 139,338 1,260,546 388,183 958,092 66,093 3,164,318 Refugia	Private 84,972 49,953 360,784 211,016 806,342 187,291 1,700,358	77ibal 90 54 1,045 450 2,414 1,315 5,368	Public 24,391 6,647 44,927 16,447 31,759 3,098 127,269	Private 3,999 1,585 15,024 11,511 30,119 22,968 85,206 osure 99%	36 36 95-	Public 9,583 3,513 32,785 15,096 27,633 3,495 92,105 Very H	Private 1,315 937 17,239 18,212 38,604 59,933 136,240 igh Exposu > 99%	36 36 72	2040	Ranking 5: High 4 3 2 1: Low 0: Not Selected Total:	Public 271,993 111,092 871,120 310,363 658,501 45,774 2,268,843 Refugia	Private 66,273 40,604 218,313 150,413 627,899 106,444 1,209,948	Tribal 3 4 54 1 775 7 432 5 2,270 5 1,315 5 4,846 < Tribal 1	Public 14,249 4,215 24,175 12,069 25,778 2,414 82,900 High Expu Public 32,191	Private 3,243 1,243 11,403 7,818 20,698 15,132 59,536 Dosure 99%	36 36 95-	Public 4,972 2,198 18,014 8,467 14,123 2,738 50,511 Very I	onsensus Private 991 486 9,457 11,061 23,094 44,837 89,926 High Expos > 99%	18 54 sure
	Ranking 5: High 4 3 2 1: Low 0: Not Selected Total: Connectivity Ranking 5: High	Public 352,065 139,338 1,260,546 388,183 958,092 66,093 3,164,318 Refugia Public 420,915	Private 84,972 49,953 360,784 211,016 806,342 187,291 1,700,358 80% Private 99,978	Tribal 90 54 1,045 450 2,414 1,315 5,368 < Tribal 162	Public 24,391 6,647 44,927 16,447 31,759 3,098 127,269 High Expc 56,942	Private 3,999 1,585 15,024 11,511 30,119 22,968 85,206 sure 99% Private 9,313	36 36 95-	Public 9,583 3,513 32,785 15,096 27,633 3,495 92,105 Very H	Private 1,315 937 17,239 18,212 38,604 59,933 136,240 igh Expost > 99% Private 3,333	36 36 72		Ranking 5: High 4 3 2 1: Low 0: Not Selected Total: Connectivity Ranking 5: High	Public 271,993 111,092 871,120 310,363 658,501 45,774 2,268,843 Refugia Public 302,671	Private 66,273 40,604 218,313 150,413 627,899 106,444 1,209,948 80% Private 76,453	Tribal 3 4 54 1 775 7 432 5 2,270 5 1,315 5 4,846 Tribal 1 2 72	Public 14,249 4,215 24,175 12,069 25,778 2,414 82,900 High Expu Public 32,191 10,700	Private 3,243 1,243 11,403 7,818 20,698 15,132 59,536 Dosure 99% Private 6,053	36 36 95-	Public 4,972 2,198 18,014 8,467 14,123 2,738 50,511 Very I	onsensus Private 991 486 9,457 11,061 23,094 44,837 89,926 High Expos >> 99% Private 2,108	18 54 sure
2040	Ranking 5: High 4 3 2 1: Low 0: Not Selected Total: Connectivity Ranking 5: High 4	Public 352,065 139,338 1,260,546 388,183 958,092 66,093 3,164,318 Refugia Public 420,915 164,233	Private 84,972 49,953 360,784 211,016 806,342 187,291 1,700,358 80% Private 99,978 59,680	Tribal 90 54 1,045 450 2,414 1,315 5,368 < Tribal 162 72	Public 24,391 6,647 44,927 16,447 31,759 3,098 127,269 High Expc 56,942 18,194	Private 3,999 1,585 15,024 11,511 30,119 22,968 85,206 sure 99% Private 9,313 5,476	36 36 36 95- Tribal	Public 9,583 3,513 32,785 15,096 27,633 3,495 92,105 Very H	Private 1,315 937 17,239 18,212 38,604 59,933 136,240 igh Expost > 99% Private 3,333 1,711	36 36 72	2040	Ranking 5: High 4 3 2 1: Low 0: Not Selected Total: Connectivity Ranking 5: High 4	Public 271,993 111,092 871,120 310,363 658,501 45,774 2,268,843 Refugia Public 302,671 129,214	Private 66,27: 40,604 218,31: 150,41: 627,89: 106,44: 1,209,94: 80% Private 76,45: 48,33:	Tribal 3 4 54 1 775 7 432 5 2,270 5 1,315 5 4,846 Tribal 1 2 72 5 1,333	Public 14,249 4,215 24,175 12,069 25,778 2,414 82,900 High Expo Public 32,191 10,700 97,960	Private 3,243 1,243 11,403 7,818 20,698 15,132 59,536 District 99% Private 6,053 3,747	36 36 36 95- Tribal	Public 4,972 2,198 18,014 8,467 14,123 2,738 50,511 Very I Public 11,709 3,243	onsensus Private 991 486 9,457 11,061 23,094 44,837 89,926 High Expos > 99% Private 2,108 757	18 54 sure
	Ranking 5: High 4 3 2 1: Low 0: Not Selected Total: Connectivity Ranking 5: High 4 3	Public 352,065 139,338 1,260,546 388,183 958,092 66,093 3,164,318 Refugia Public 420,915 164,233 1,857,980	Private 84,972 49,953 360,784 211,016 806,342 187,291 1,700,358 80% Private 99,978 59,680 544,779 321,910	Tribal 90 54 1,045 450 2,414 1,315 5,368 < Tribal 162 72 2,486	Public 24,391 6,647 44,927 16,447 31,759 3,098 127,269 High Expc 56,942 18,194 146,111	Private 3,999 1,585 15,024 11,511 30,119 22,968 85,206 sure 99% Private 9,313 5,476 52,277	36 36 95- Tribal	Public 9,583 3,513 32,785 15,096 27,633 3,495 92,105 Very H Public 20,194 5,530 50,547	Private 1,315 937 17,239 18,212 38,604 59,933 136,240 igh Expost > 99% Private 3,333 1,711 15,150	36 36 72		Ranking 5: High 4 3 2 1: Low 0: Not Selected Total: Connectivity Ranking 5: High 4 3	Public 271,993 111,092 871,120 310,363 658,501 45,774 2,268,843 Refugia Public 302,671 129,214 1,281,785	Private 66,27: 40,604 218,31: 150,41: 627,89! 106,44! 1,209,94! 80% Private 76,45: 48,33: 338,28!	Tribal 3 4 54 1 775 7 432 5 2,270 5 1,315 5 4,846 < Tribal 1 2 72 5 1,333 1 811	Public 14,249 4,215 24,175 12,069 25,778 2,414 82,900 High Expu Public 32,191 10,700 97,960 30,372	Private 3,243 1,243 11,403 7,818 20,698 15,132 59,536 Disure 99% Private 6,053 3,747 30,660	36 36 35 95- Tribal	Public 4,972 2,198 18,014 8,467 14,123 2,738 50,511 Very I	onsensus Private 991 486 9,457 11,061 123,094 44,837 89,926 High Expos > 99% Private 2,108 757 9,295	18 54 sure
	Ranking 5: High 4 3 2 1: Low 0: Not Selected Total: Connectivity Ranking 5: High 4 3 2	Public 352,065 139,338 1,260,546 388,183 958,092 66,093 3,164,318 Refugia Public 420,915 164,233 1,857,980 567,512	Private 84,972 49,953 360,784 211,016 806,342 187,291 1,700,358 80% Private 99,978 59,680 544,779 321,910	7771bal 90 54 1,045 450 2,414 1,315 5,368 \$\$ 7771bal 162 72 2,486 829	Public 24,391 6,647 44,927 16,447 31,759 3,098 127,269 High Expc 56,942 18,194 146,111 43,216	Private 3,999 1,585 15,024 11,511 30,119 22,968 85,206 ssure 99% Private 9,313 5,476 52,277 40,387	36 36 95- Tribal	Public 9,583 3,513 32,785 15,096 27,633 3,495 92,105 Very H Public 20,194 5,530 50,547 13,997	nsensus Private 1,315 937 17,239 18,212 38,604 59,933 136,240 ligh Exposus > 99% Private 3,333 1,711 15,150 12,250	36 36 72		Ranking 5: High 4 3 2 1: Low 0: Not Selected Total: Connectivity Ranking 5: High 4 3 2	Public 271,993 111,092 871,120 310,363 658,501 45,774 2,268,843 Refugia Public 302,671 129,214 1,281,785 442,946	Private 66,27: 40,604 218,31: 150,41: 627,892: 106,444 1,209,94: 80% Private 76,45: 48,33: 338,28: 215,50:	Tribal 3 4 54 1 775 7 432 5 2,270 5 1,315 5 4,846 < Tribal 1 2 72 5 1,333 1 811 0 4,954	Public 14,249 4,215 24,175 12,069 25,778 2,414 82,900 High Expo Public 32,191 10,700 97,960	Private 3,243 1,243 11,403 7,818 20,698 15,132 59,536 Soure 99% Private 6,053 3,747 30,660 22,265	36 36 35 95- Tribal	Public 4,972 2,198 18,014 8,467 14,123 2,738 50,511 Very I Public 11,709 3,243 32,407 10,016	991 486 9,457 11,061 23,094 44,837 89,926 High Expos > 99% Private 2,108 757 9,295 6,953	18 54 sure
	Ranking 5: High 4 3 2 1: Low 0: Not Selected Total: Connectivity Ranking 5: High 4 3 2 1: Low	Public 352,065 139,338 1,260,546 388,183 958,092 66,093 3,164,318 Refugia Public 420,915 164,233 1,857,980 567,512 1,409,000 108,786	Private 84,972 49,953 360,784 211,016 806,342 187,291 1,700,358 80% Private 99,978 59,680 544,779 321,910 1,158,155 416,681	Tribal 90 54 1,045 450 2,414 1,315 5,368 Tribal 162 72 2,486 829 5,224 3,225	Public 24,391 6,647 44,927 16,447 31,759 3,098 127,269 High Expc 56,942 18,194 146,111 43,216 60,437 5,945	Private 3,999 1,585 15,024 11,511 30,119 22,968 85,206 sture 99% Private 9,313 5,476 52,277 40,387 84,053 79,370	36 36 95- Tribal 126 54 54 72	Public 9,583 3,513 32,785 15,096 27,633 3,495 92,105 Very H Public 20,194 5,530 50,547 13,997 17,780	nsensus Private 1,315 937 17,239 18,212 38,604 5,933 136,240 igh Expost > 99% Private 3,333 1,711 15,150 12,250 27,129 24,859	36 36 72		Ranking 5: High 4 3 2 1: Low 0: Not Selected Total: Connectivity Ranking 5: High 4 3 2 1: Low	Public 271,993 111,092 871,120 310,363 658,501 45,774 2,268,843 Refugia Public 302,671 129,214 1,281,785 442,946 942,005 75,551	Private 66,27: 40,60: 218,31: 150,41: 627,89: 106,44: 1,209,94: 80% Private 76,45: 48,33: 338,28: 215,50: 847,900 276,17:	Tribal 3 4 54 54 775 7 432 5 2,270 5 1,315 5 4,846 Tribal 1 2 72 5 1,333 1 811 0 4,954 2 3,206	Public 14,249 4,215 24,175 12,069 25,778 2,414 82,900 High Expu Public 32,191 10,700 97,960 30,372 43,360 3,963	Private 3,243 1,243 11,403 7,818 20,698 15,132 59,536 Distre 99% Private 6,053 3,747 30,660 22,265 51,268	36 36 36 95- Tribal	Public 4,972 2,198 18,014 8,467 14,123 2,738 50,511 Very I Public 11,709 3,243 3,243 10,016 13,583	991 486 9,457 11,061 23,094 44,837 89,926 High Expos > 99% Private 2,108 757 9,295 6,953 19,851	18 54 sure

This is the Moderate Exposure by Connectivity Ranking table for use in main text. Moderate exposure by watershed tables are in appendix 2, single climate model tables are in appendix 4.

Extent = Entire Study Area (5-Watersheds plus 10km buffer) Extent = 5-Watersheds

Extent	= Entire Study Area	(5-watersne	as bius 10i	km buπer)	Extent	= 5-watersneds						
RCP8.5	area = acres				RCP8.5	area = acres						
	Connectivity Ranking		ate Exposi onsensus	ıre -		Connectivity Ranking	Moderate Exposure Consensus					
	Natiking	Public	Private	Tribal		Nanking	Public	Private	Tribal			
	5: High	43,071	6,287	18		5: High	23,382	4,774				
	4	12,051	2,954	36		4	8,521	2,360	36			
2100	3	164,233	42,009	144	2100	3	105,022	24,049	72			
2100	2	38,424	27,940	18	2100	2	26,553	20,860				
	1: Low	68,165	70,579	36		1: Low	42,117	50,475	36			
	0: Not Selected	16,465	47,197			0: Not Selected	9,169	37,721				
	Total:	342,410	196,965	252		Total:	214,763	140,239	144			
	Connectivity Ranking		ate Exposu onsensus	ıre -		Connectivity		Moderate Exposure - Consensus				
	nanking	Public	Private	Tribal		Ranking	Public	Private	Tribal			

	Connectivity	Modera	ate Exposu	ire -		Connectivity	Mode	rate Expos	ure -		
	Ranking	Co	onsensus			Ranking	Consensus				
	Nullking	Public	Private	Tribal		nunning		Private	Tribal		
	5: High	59,122	12,610	144		5: High	35,397	9,655			
	4	17,402	6,575	18		4	13,943	5,224	18		
2070	3	253,871	57,807	1,063	2070	3	165,999	43,035	865		
2070	2	56,762	29,939	594	2070	2	41,738	22,572	594		
	1: Low	111,326	66,273	2,810		1: Low	72,470	49,863	2,810		
	0: Not Selected	9,998	45,161	45,161 1,027		0: Not Selected	7,962	37,883	1,027		
	Total	l: 508,481	218,365	5,656		Total:	337,510	168,233	5,314		

	Connectivity Ranking		ate Exposu onsensus	ire -		Connectivity	Moderate Exposure - Consensus			
	Kanking	Public	Private	Tribal		Ranking		Private	Tribal	
	5: High	41,558	5,746			5: High	22,121	4,485		
	4	15,438	2,612			4	9,619	1,747		
2040	3	190,912	41,919	18	2040	3	137,915	25,562	18	
2040	2	56,384	29,453		2040	2	41,324	16,519		
	1: Low	115,289	111,344	108		1: Low	80,000	72,740	108	
	0: Not Selected	16,339	72,074	144		0: Not Selected	12,538	51,394	144	
	Total:	435,920	263.148	270		Total:	303.518	172,448	270	

	Connectivity Ranking	Moderate E	xposure 95% Private	80- Tribal		Connectivity Ranking		rate Expos 80-95% Private	sure Tribal
	5: High	175,006	40,117			5: High	127,449	33,794	
	4	50,998	16,861			4	38,190	13,330	
2010	3	474,578	158,523	108	2010	3	351,074	96,159	108
2010	2	150,345	120,045		2010	2	111,903	68,849	
	1: Low	277,884	312,254	234		1: Low	194,641	200,279	234
	0: Not Selected	28,264	201,468	342		0: Not Selected	18,951	118,838	252
	Total:	1,157,074	849,269	685		Total:	842,208	531,250	594

tent = Pit Watershed PBS area = acres						- 1	Extent = Feather Waters RCPS.1 area = acres								Extent = Upper Trinity Wat RCPRS area = acres						Extent = McCloud Watersh RCPR.5 area = acres	ed						Extent = Upper Sacram RCPS.1 area = acres						
Connectivity Ranking	Refugia - Consensus Public Private	Tribal Bubli	Eigh Exposure - Consensus Private T	Ver	Y High Exposur Consensus Private 1		Connectivity Ranking	Co	efugia - esensus Private	DOME DANG	igh Exposure Consensus Private	- Ver	Y High Exposu Consensus Private		Connectivity Ranking	Refug Conser Public F	nsus	High Exposure Consensus Public Privat	Con	Exposure - sensus Private	Connectivity Ranking	Refu Conse Public	ensus	Consei		Consen		Connectivit Ranking		Refugis - Consensus lic Private	Con	nsensus	Very High Ex Conser	
S: High	16.141 4.854	133		37.10			S- Mark	21,671	955	12.2		45.0			S: Hirb	21.419	2.000	306 6		10	S: High	3.729		2.566	414	0.683	A071	S: High		1222 57			15.528	3.00
4	6,755 2,996	55		18.00	0 5314		4	12.024	1.063	3.2		11.94	9 367		4	3,351	450		167		A.	1.405	422	901	700	2.036	1.001	A.		1977 73	30 450	0 450	2.630	1.11
100 2	115.470 25.488	15.17		54 273.88		342	2100 3	96,645	10.160	15.1		84.33	7 51,304	18	2100 3	101,653	15.024	2.198 50	4.017	72	2100 2	7,548		1.909	937	4.828	1.495	2100 3	26	1661 4.93	36 1.765	5 1.711	15,654	22.41
2	53,790 23,418	6.90	9 2.918	36 70.97	5 30,696	108	2	41.126	11.907	6.0	9 8,773	44.31	0 33.164	18	2	5,674	3.549	558 19	g 225		2	1.091	1.441	198	965	3.152	937	2	14	1752 3.71	11 1.157	3 1.351	10.376	6.40
1: Low	79.424 120.874	7.11	6 10,070	54 146.88	6 81.856	306	1: Low	63,697	32.101	16.1	7 16.915	84.90	6 60,869	18	1: Low	46,224	44.386	1477 198	2 450	206	1: Low	48,674	60.293	739	5.764	4.269	1.909	1:Low	11	1475 10.32	22 1.099	9 4.143	5.170	12.77
0: Not Selected	8,467 22,049	54 80	5 5,710	108 11,88	9 68,381	216	0: Not Selected	5,368	5,873	1,0	9 12,466	54 5,40	38,658	90	0: Not Selected	5,278	6,431	252 80	5 5	144	0: Not Selected	4,684	7,224	18	1,927	306	450	Q: Not Selected	.d	486 1,81	19 72	2 1,567	901	3,99
Total:	280,045 209,719	54 31,99	24,642	252 558,90	243,567	972	Tet	nt: 241,531	62,058	0 53,5	45,035	54 276,60	13 207,071	144	Total:	183,599	71,860	4,792 3,63	9 5,890	540	Total:	67,120	77,288	5,909	10,196	23,274	10,754	T	Total: \$7,	,681 22,10	03 6,251	1 9,818	50,259	29,36
Connectivity	Refugia -		ligh Exposure -	Ver	y High Exposur		Connectivity		efugia -		igh Exposure	- Ver	y High Exposu		Connectivity	Refug		High Exposure		Exposure -	Connectivity	Refu		High Expo		ry High Ex		Connectivit		Refugia -			Very High E	
Ranking	Consensus	Tribal Public	Consensus	and more	Consensus		Ranking		esensus		Consensus		Consensus		Ranking	Conser		Consensus		Sensus	Ranking	Consu		Conse		Consen		Ranking		Consensus		DESCRIPT	Conser	
		Tribal Public			Private 1	ribal	© Web		Private 1	Tribul Public		Tribal Public	Private 1	ribal				Public Privat		Private	-		Private	Public R	rivate Pu	asa P	rivate		Publi			Private P	1063 F	Private
S: High	36,586 20,538 19,978 7,517	36 7.00		5,00			a: regh	92,448	7,854 5.764	1,6		4,41			S: High	25,111	3,152	540 I	a 210	. 26	S: High	21,869	7,512	362	72 54	360 234	54	S: High		LR17 5,00			1,063	- 2
4	19,978 7,512 244,630 70,417	36 2,80 72 21,09		2,64		224	4	29,054 207,539		102		1,40		10	4	130,601	775 23.094	226 1	8 6 1000	72	4	7,188 25,256		162 306	144	234 667	100	4		1,629 4,99 1,983 14,01			1765	5
70 2	104,035 49,755	15.58		24.67		100	2070 2		47,089		12 A,711 18 3,837	60		18	2070 2	15,330	7.368		4 130	10	2070 3	3,621		504	100	558	108	2070 2		1446 10.91			2,108	1.6
1: Low	177.052 234.562	220 45.72		234 43.90		224	t low	260,234		5,1		951		18	1: low	49.016	53.007	220 9		432	1: Low	35 307			1153	2 422	2018	1:10m		1916 2678			775	
1: LOW 0: Not Selected	15,888 29,075	236 3.96		468 6.61		199	1: LOW 0: Net Selected	10,628	25,706		7 14321	121		18	1: LOW 0: Not Salarted	7,638	12 168	108 36			1: LOW 0: Not Selected	3.152		166	252	298	1.153	1: LOW 0: Not Salartes		729 5.92			126	
Total					2 124.206		Test				04 22.083		7 97,041	72		221 127		3,675 1.80			Total		117,992		1 693	S 494	2.531			539 67.64			6.125	
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Connectivity	Refugia -		ligh Exposure -	Ver	y High Exposur		Connectivity		efugia -		igh Exposure	- Ver	y High Exposu		Connectivity	Refug		High Exposure		Exposure -	Connectivity	Refu		High Expo		ry High Ex		Connectivit		Refugia -			Very High E	
Ranking	Consensus	Tribal Public	Consensus Oriuma T	and prote	Consensus Private 1	vibul.	Ranking		cocosus	DOME BUNG	Consensus		Consensus	ribal	Ranking	Conse		Consensus Nebile Privat	Con w. Duhlir	SECULE	Ranking			Consei		Consen		Ranking		Consensus Ir Drivate		arecent	Conser	Private
S: High	Public Private 75.154 31.074	Tribal Public		Shal Public 1.37		ribal	S: High			fribal Public 6.4		Tribal Public 1.11		ribal	S: High	Public F 22.121	2.324	Public Privat 2.072 14		Private	S: High	23 974		Public 8	rivate Pui	blic P	rivate 162	S: High	Publi	lic Private 1.499 9.60			tublic F	Private
s: regn	64.296 18.158	SA 80		57			2 High	47,179		2.1		7,11			a: High	3,026	432	2072 14			a: High	9,313		378	162	342	90	S: High		1,499 9,60 1,278 7,44			270	
en 3	435 794 179 791	775 5.00		791			2040 Z	263,202		97		4.72			2040 3	109.057	16 015	6503 170			2040 3	26.941	12,622	947	414	722	414	2040 3		1,278 7,66 1226 1281			1.135	
40 4	155,479 69,282	432 5.64		4.90		26	2040 2	123,612		42		2.64			2040 2	13,258	6,343	983 30		1,064	2040 2	4.035		162	234	26	414 77	2040 2		1979 13.15			594	
1:1ow				420			1: tow	307.264		105		5.00			1: low	33,128	25 224	3927 374			1:1cm	34 353			1711	3.036	3.036	1:1mm		1133 2929			612	
0: Not Selected	23,778 54,600	1.171 72		36 61			O: Net Selected				1 3.765	131		10	0: Not Salarted	5,855	22,360	450 93		540	Q: Not Selected	2,792		180	685	342	1,695	0: Not Salartes		594 5.58			108	
	1,007,126 630,742	4,702 23,25		36 19,61		26	Tot				9 16,879	0 15,63		18	Total:			14,231 7,00	1 6,590	4,179	Total:		109,417		2,585	5,332	5,260	T		209 84,88			3,225	
Connectivity	Refugia		High Exposure	Ve	y High Exposu	re	Connectivity		tefugla		igh Exposure	. Ve	ry High Exposu	10	Connectivity	Refug		High Exposur		h Exposure	Connectivity	Refu		High Exp		ery High E		Connectivit	tv	Refugis			Very High D	
Ranking	< 80%		95-99%		> 99%		Ranking		< 90%		95-99%		> 99%		Ranking	< 92		95-99%		99%	Ranking		10%	95-99		> 995		Ranking		< 92%		5-99%	>92	
		Tribal Public		shal Public	Private 1	ribal				Inibal Public		Tribal Public		ribal					e Public	Private					rivate Pui		rivate	-	Publi					Private
S: High	86,503 34,875	10,50		2,81			S: High			9,8		3,21			S: High	22,645		2,738 23	4 663	36	S: High	22,866		4,197	883	2,504	288	S: High		L617 7,98			2,522	53
	56,654 23,112	72 3,80		54			4	52,060	13,637	4,1		1,40			4	3,513	649	540 2	6 90		4	9,079		1,297	360	775	18	4		1,908 6,64			432	12
4	786,004 203,296	1,315 28,29		126 5,87 54 3.77			2000 2				15,204	17,71			2010 2			10,160 1,65			2010 3	25,400		5,746	1,585	2,612	252	2010 3		1,259 19,47			3,927	1,2
10 3		793 11.15	7 8,377				2				11,061	5,00 6,51			2 1: Low	15,420	7,296				2	4,728			306	2 495	198	2		1,905 14,71			703	
2	237,280 110,346																	2.324 3.17			1: Low			7.098				1: Low		1375 35.05		6 3.621	324	
2 1: Low	442,802 428,571	4,936 6,03		54 3,67			1: Low	283,788		18 25,8																								
0: Not Selected		4,936 6,03 2,972 1,04	5 16,321	54 3,67 54 57	2 6,917		1: Low 0: Not Selected	20,716	78,919		7 17,167	0 342	6,521		0: Not Selected	7,800	13,420	216 1,20			0: Not Selected Total	4,558		630	2,504	306	1,009	0: Not Selected		1,045 6,75		4 3,008	18	1,7

	This is supplementa	ary table 2		,,															
	= Pit Watershed				Extent = Feather Waters	hed				= Upper Trinity Wate	ershed			= McCloud Watersh	ed		Extent = Upper Sacrament	Watershed	
RCP8.	area = acres				RCP8.5 area = acres				RCP8.	area = acres			RCP8.	area = acres			RCP8.5 area = acres		
	Connectivity		ate Expos	ure -	Connectivity		rate Expos consensus	ure -		Connectivity	Moderate E Conse			Connectivity	Moderate Conse		Connectivity	Moderate I Conse	
	Ranking	Public	Private	Tribal	Ranking	Public	Private	Tribal		Ranking	Public P	rivate		Ranking	Public	Private	Ranking	Public	Private
	5: High	6.269	1.891		5: High	6.323	216			5: High	5.170	594		5: High	4.035	1,315	5: High	1,585	757
	4	2.234	685	36	4	2,540	180			4	721	36		4	1.891	450	4	1,135	1,009
	2	59.860	12.069	72	•	14.267	5.638			2	21.815	2.000		,	4,540	2.054	,	4,540	2.288
2100	2	14,285	8.340	12	2100 3	5,764	7,170		2100	2	3,639	919	2100	2	775	1.081	2100 3	2,090	3,351
	1: Low	13.853	21.022	36	1: Low	16.375	8,178			1: Low	4,954	5.080		1: Low	4.251	8,791	1: Low	2,684	7,404
	0: Not Selected	4,774	19.023	30	0: Not Selected	1,495	15.024			0: Not Selected	2,414	1,387		0: Not Selected	342	757	0: Not Selected	144	1,531
			63.031			,	36,406	0		o: Not Selected Total:	38.712					14.447			
	Total:	101,275	63,031	144	To	ai: 46,764	36,406	U		iotai:	38,/12	10,016		Total:	15,834	14,447	Total:	12,177	16,339
	Connectivity	Mode	ate Expos	ure -	Connectivity	Mode	rate Expos	ure -		Connectivity	Moderate E	Exposure -		Connectivity	Moderate	Exposure -	Connectivity	Moderate I	xposure -
	Ranking	c	onsensus		Ranking	(onsensus			Ranking	Conse	nsus		Ranking	Conse	nsus	Ranking	Conse	nsus
	Ranking	Public	Private	Tribal	Kanking	Public	Private	Tribal		Ranking	Public P	rivate		Ranking	Public	Private	Ranking	Public	Private
	5: High	17,077	7,728		5: High	10,898	937			5: High	2,504	180		5: High	3,026	270	5: High	1,891	540
	4	8,431	2,972	18	4	3,477	1,585			4	396			4	811	180	4	829	486
2070	3	126,548	35,884	865	2070 3	25,886	4,413		2070	3	9,061	757	2070	3	1,171	342	2070 3	3,333	1,639
2070	2	26,048	15,510	594	2070	12,934	5,296		2070	2	1,369	288	2070	2	162	180	2070	1,225	1,297
	1: Low	41,126	36,604	2,810	1: Low	26,751	7,512			1: Low	2,450	1,387		1: Low	667	1,711	1: Low	1,477	2,648
	0: Not Selected	5.332	28.084	1.027	0: Not Selected	1.549	7.458			0: Not Selected	901	504		0: Not Selected	126	811	0: Not Selected	54	1,027
	Total:	224,562	126,782	5.314	To	al: 81.495	27,201	0		Total:	16,681	3.116		Total:	5,963	3,495	Total:	8,809	7.638
		,	., .				, .				.,	.,			.,	.,		.,	,
		Mode	ate Expos	ure -		Mode	rate Expos	ure -			Moderate E	Exposure -			Moderate	Exposure -		Moderate I	xposure -
	Connectivity	c	onsensus		Connectivity		onsensus			Connectivity	Conse	nsus		Connectivity	Conse	nsus	Connectivity	Conse	nsus
	Ranking	Public	Private	Tribal	Ranking	Public	Private	Tribal		Ranking	Public P	rivate		Ranking	Public	Private	Ranking	Public	Private
	5: High	7.242	2.558		5: High	8.322	630			5: High	4.017	649		5: High	1.009	342	5: High	1,531	306
	4	3,513	991		4	4.035	198			4	775	216		4	234	90	4	1,063	252
	3	70.399	14.159	18	3	36.190	5.458			3	22,770	3,963		3	1.873	685	3	6.683	1,297
2040	2	21,383	10.214		2040 3	8,593	4.612		2040	2	3,693	703	2040	2	919	324	2040 3	6,737	667
	1: Low	26,030	25,886	108	1: Low	14,411	13,817			1: Low	14.357	13,943		1: Low	20.104	14,069	1: Low	5,098	5,026
	0: Not Selected	4.125	37.073	108	0: Not Selected	1.261	6.773	36		0: Not Selected	4.089	2.576		0: Not Selected	2.414	3.855	0: Not Selected	649	1.117
								36			,	22,049		Total:	,	19,365	Total:	21,761	8,665
	Total:		90.881	234	To	al: 72.813	31.488			Total:									.,
		, .	90,881	234	To	al: 72,813	31,488	30		Total:	45,701					,			
		132,691	90,881		To Connectivity		31,488 rate Expo			Total: Connectivity	Moderate			Connectivity	Moderate		Connectivity	Moderate	Exposure
	Total:	132,691 Mode	rate Expo				rate Expo				Moderate			Connectivity Ranking					Exposure Private
	Total: Connectivity	132,691 Mode	rate Expo	sure	Connectivity	Mode	rate Expo	sure		Connectivity	Moderate	Exposure				Exposure	Connectivity		
	Total: Connectivity Ranking	132,691 Mode Public	rate Expo	sure	Connectivity Ranking	Mode Public	rate Expo	sure		Connectivity Ranking	Moderate Public P	Exposure Private		Ranking	Public	Exposure Private	Connectivity Ranking	Public	Private 5,891
	Total: Connectivity Ranking 5: High	Mode Public 46,026 14,591	rate Expo Private 14,916	sure	Connectivity Ranking 5: High 4	Mode Public 38,352 15,150	Private 4,666 3,783	sure		Connectivity Ranking 5: High	Moderate Public P 10,394	Exposure Private 667 126		Ranking 5: High	Public 14,357	Exposure Private 7,656 2,378	Connectivity Ranking 5: High	Public 18,320 3,927	Private 5,891 2,378
2010	Total: Connectivity Ranking 5: High	132,691 Mode Public 46,026	rate Expo Private 14,916 4,666	sure Tribal	Connectivity Ranking 5: High 4	Mode Public 38,352 15,150 113,452	Private 4,666 3,783 28,912	sure	2010	Connectivity Ranking 5: High	Moderate Public P 10,394 1,243	Exposure rivate 667	2010	Ranking 5: High	Public 14,357 3,279 14,303	Exposure Private 7,656 2,378 6,143	Connectivity Ranking	Public 18,320 3,927 19,707	5,891 2,378 14,663
2010	Total: Connectivity Ranking 5: High 4	Mode Public 46,026 14,591 160,937	rate Expo Private 14,916 4,666 43,396	sure Tribal	Connectivity Ranking 5: High 4 2010 3	Mode Public 38,352 15,150	Private 4,666 3,783	sure	2010	Connectivity Ranking 5: High 4	Moderate Public P 10,394 1,243 42,675	Exposure Private 667 126 3,044 739	2010	Ranking 5: High	Public 14,357 3,279	Exposure Private 7,656 2,378	Connectivity Ranking 5: High	Public 18,320 3,927 19,707 9,962	Private 5,891 2,378
2010	Total: Connectivity Ranking 5: High 4 3 2 1: Low	Mode Public 46,026 14,591 160,937 50,709 59,644	rate Expor Private 14,916 4,666 43,396 28,444 80,378	Tribal 108 234	Connectivity Ranking 5: High 4 2010 3 2	Mode Public 38,352 15,150 113,452 43,756 79,081	Private 4,666 3,783 28,912 31,795	sure Tribal	2010	Connectivity Ranking 5: High 4 3 2 1: Low	Moderate Public P 10,394 1,243 42,675 4,341 12,033	Exposure Private 667 126 3,044 739 9,169	2010	Ranking 5: High 4 3 2 1: Low	Public 14,357 3,279 14,303 3,134 33,632	Fivate 7,656 2,378 6,143 1,855 35,361	Connectivity Ranking 5: High 4 2010 3 2 1: Low	Public 18,320 3,927 19,707 9,962 10,250	Private 5,891 2,378 14,663 6,017 17,780
2010	Total: Connectivity Ranking 5: High 4 3	Mode Public 46,026 14,591 160,937 50,709 59,644 5,350	rate Expor Private 14,916 4,666 43,396 28,444 80,378 81,081	sure Tribal	Connectivity Ranking 5: High 4 2010 3 2 1: Low 0: Not Selected	Mode Public 38,352 15,150 113,452 43,756	Private 4,666 3,783 28,912 31,795 57,591 24,121	sure	2010	Connectivity Ranking 5: High 4 3	Moderate Public P 10,394 1,243 42,675 4,341	Exposure Private 667 126 3,044 739	2010	Ranking 5: High 4 3	Public 14,357 3,279 14,303 3,134 33,632 4,251	Exposure Private 7,656 2,378 6,143 1,855	Connectivity Ranking 5: High 4 2010 3 2	Public 18,320 3,927 19,707 9,962	5,891 2,378 14,663 6,017

=	named of the same	Males Park			Total Control	Maring State State	Total State of State	-					THE PERSON NAMED IN		- =	100 NO FOR	THE PART TO SER.	THE PER THE	1000	Miles Miles Miles		Mary Replacement Statements Statements Statements	**************************************	Terretory Terretory	Males Marie Marie Males Marie Marie Males Marie Marie Marie Marie Males Marie Marie Males Marie Marie Marie Males Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie	100 0	name and the	and also	Townson's American	- TOTAL	11 PM F 190	***************************************	Name Print			7170 7700	Terry Registrations (Internal Internal Page Proper		
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							Table 1		·				THE PERSON NAMED IN	-			-	nery major m	Name of Street	1000.00								may report					Regional Address		noip.	Maga.		ney mp	
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				g areas of mod	vate exposure fo	r single climate models																																
Extent - Entire Hody &	rea (5 Wate	sheds plus 1	Dim buffer)			Extent + 5-Watenheds						ext - PitWatenhed						Extent - Neather Watershed						Zyper Trivity Water	shed				Extent - McCloud Watershe	4				Extent + Queer Sacomenta 1	Externied			
RCPES area vacres						RCPEAT area = acres					NO.	MLS area - apres						REPER area - acres					ROPES &	rea racres					ROPES area - agres					RCPEA area viacres				
Connectivi	by Mode	rate Exposur	W-CNRM I	Moderate Expo		Connectivity	Moderate	Exposure - Cf		ecate Exposure		Connectivity	Moderate			de Exposure		Connectivity		ite Exposure -	Maderate			Connectivity	Moderate Exp		Moderate Exp		Connectivity	Moderate De	pocure - M	uderate Expess		Connectivity	Moderate Do		Soderate Exp	
Sanking		Only		MMOCON		Sanking		Owly		MIRDCONY		Sanking		M ONly		MOC ONly		Ranking		IRM Divily		Owly		Sanking	CNEMO		MIROC OI		Senting	CNEMO		MIROC ONly		Senking	CNRMIC		MIROCO	
	Pv90								Bul Public	Private Tri	hal		PANK PA			Private Tr	Bel			Private Triba		ate Tribal			PARK PI	kate N	MK PN	use		Public P	rivate Publi				PARK P	Vivate Publ		
S High	32,			9,389 22,08		5.1666	20,788		11,821			S: High		1,871	17,128	4,301		2.166	13,666	1,088		(829)		High	198	18	1,639	72	2.16(6	18	18		4,211	S High			3,409	3,297
4	28,7			0,368 30,16		4	15,454		15,060		18	4		4,864	5,892	2,756	18		5,879	252		,265			198		236	72	4				1,279	4			1,891	2,680
2300 E	82,			8,328 167,00		2300 3	65,663		201,268				35,652 1		155,154	48,463	863	2133 3		4,467	26,128		2300 E		576	72	33,196	1,679	2500 8	236	236		2,666	2300 E	36	28	8,881	6,609
1	46,			6,063 32,76		1	37,217		87,798		612		18,608		22,267	14,953					9,369 3						1,036	881		18	306		2,888	1	54	-	1,801	3,062
1: time	30,			6,699 122,87		1 Sew	63,063		17,010					7,759	37,487	44,893 3		1 Live			1,141			Live	180	126	1,827	2,900	1 Low	2,090	4,865		11,499	1 time	90	108	1,887	7,079
O. Not Selecte		70 33,50	6 56 2	0,362 63,73	1,518	0. Not beleded	3,549		56 7,360			D. Not Selected		1,223 3		30,480 1		O. Not beleated	3,675	3,829 1	8 1,009	(728	0	. Not Selected	72	18	1,549	1,603	O. Not Selected	180	602		4,269	O. Not Selected	18	18	54	1,801
,	stat. 207,	172,85	2 54 59	0,662 634,68	4,809	THAI	204,152	184,182	54 382,163	235,368 6,	611	Testi	96,177 9	1,88 H	263,216	132,463 6	,465	Totals	304,083	36,186 3	8 66,332 6	,809 0		Total	1,221	234	28,556	7,206	Total	2,022	5,296	34,423	21,220	Total	288	183	22,665	24,319
Connectivi	ly Mode	rate Exposur	W-CMM	Moderate Depo		Connectivity	Maderate	Exposure - Cf		ecate Exposure		Connectivity	Moderate			de Exposure		Connectivity		ite Exposure -	Maderate			Connectivity	Moderate Eq		Moderate Exp		Connectivity	Moderate De		uderate Experi		Connectivity	Moderate Ix		tode site Exp	
Sanking		Only		MMOCON		Sanking		Owly		MIRDCONY		Sanking		M ONLY		MOC ONly		Nanking		IRM Divily	MIRC			Sanking	CNEMO		MIROC OI		Senting	CNEMO		MIROC ONly		Sanking	CNRMIC		MIROCO	
	PVSS	Private	Tribal Pub		Tribal				Bul Public	Private Tri	hal		PANK PI			Private Tr	Bel			Private Triba		rate Stibul			PARK P	lutte Po	MK PN			PARK P	rivate Publi				PARK P	Visite Pub		
S High	10,			X,865 2035		5.1666	4,730		16,780			S: High		4,161	21,199	5,279		2.166	1,567	198		LONG.		High	54		1,698	198	5 Hgh				2,196	S High			9,007	2,256
4	4,			2,882 2023		4	2,596		14,100			4		1,063	8,539	3,825			488	198		LONE.					334	18	4				1,099	4	18	28	1,699	721
2270 1	26,			3,681 83,69		2070 1	21,430		188,962		72 3	370 1		2,304	76,453	23,796	72	2070 1	2,362	630	45,702		2070 1		72	90	8,411	1,099	2070 B		18	3,837	973	2270 1	72	28	8,888	6,539
1	10,0			2,272 68,66		1	6,067		49,963		34	2		2,720	26,811	12,102	54		2,612	998	16,807						883	294	2			1,677	468	1	36	90	1,929	2,972
1 law	36,7			8,619 129,19		1 Sew	9,233		96,800			1/low		8,560	14,480	35,992 1		1 Line	5,080	1,850	85,379 1			Live	90	252	1,405	1,495	Library	162	90		3,459	1: taw	18	306	2,860	7,260
O. Not Selecte				3,654 75,86		0. Not beloated	412		1,471		612	D. Nat Selected		3,709	3,981	27,563		O. Not beleated	126	7,620		URS 72	0	. Not Selected		294	378	100	O. Not Selected	18			3,795	O. Not Selected		390	634	1,477
,	otal 75,	D9 65,68	0 56	R,866 364,58	2,090	TWA	35,766	36,875	0 368,550	238,672 2,	000	TASAS	24,172 2	4,607	183,263	308,626 1	,987	Tetali	11,855	32,993	0 117,721 1	110 72		Total:	236	176	18,134	3,549	Total	280	166	29,906	10,160	Total	366	190	21,106	21,186
Connectivi	ly Mode	rate Exposur	W-CNMM	Moderate Depo		Connectivity	Maderate	Exposure - Cf		ecate Exposure		Connectivity	Moderate			de Exposure		Connectivity		the Exposure -	Maderate			Connectivity	Moderate Exp		Moderate Exp.		Connectivity	Moderate La		udwate Expess		Connectivity	Moderate Ix		Manage Co.	
Kanking		Chilly	204 24	MMOCO»		Ranking		Owly		MIRDCONY Briefly 70		Ranking	DAY B	M ONly		ROC ONly		Ranking				Owly		Ranking	CVEM O				Ranking	CNEMO		MIROC ONly		Ranking	CNRMIC			
	PVSS				Tribal						and the same of th					Private Tr	the contract of			Private Siba		rate Stibul				hate N					rivate Publi					Vivate Pub		
S High	10			0,509 0,6X 0,176 0,5X		5.1666	1,4%		18,500			S: High	2,486	1,675	1,418	609		2.166	1,567	270	6,667	126		High	634	72	396	162	5 Hgh	630	216	1,875	252 M	S High	278	298	4,368	540 270
				0,176 E,580 7.545 66.540					4,00			4			2,000	17 194				70	2,358				108	18	1 810	176		208	54				72	144	0.057	
2000 1	22,					2080 I	30,612				3	063 I		2,396				2042 I	1,679	454			2000 I			602			2000 1	198	206		176	2000 I		296		1,421
1	4,			8,328 62,80		1	2,630		62,101		36	2		2,802	23,076	9,277	18		306	807		1,000 18			162	268	929	90	2		36	1,189	306	1	680	90	3,747	1,621
1: Law O. Stat Salasta	11,			6,025 102,90		1 tew	6,755		63,966		176	1 low D Not beloned		2,090	33,398	22,968	90	1 Law O Not Salested	1,699	2,108		(260 SE		Low Northelected	2,836	1,800	798	1,185	1 Law O Med Selected	72	90		ERES TARK	1 law 0 ms telested	360	667	937	1,461
		25 1,40					955	5,963	7,960		139		340	4,66			90			602			0					376										176
,	1640 NO,	45 11,50		3,423 304,13	306	TWA	27,201	23,130	0 283,882	386,613	270	TASAS	11,871 1	1,400	114,821	72,688	216	Tetali	5,733	4,121	0 79,280 1	(280 72		Total	6,211	2,972	4,872	2,090	Total	1,687	823	34,212	12,682	Total	2,360	1,600	34,467	5,871

This is supplementary table 5 for biodiversity, showing total area in each biodiversity rank

area = acres

Connectivity							Upper
Ranking	Study Area	5-Watersheds	Pit	Feather	Upper Trinity	McCloud	Sacramento
5: High	825,959	592,426	198,496	217,537	40,207	73,263	62,923
4	322,757	247,584	105,544	91,439	6,197	21,473	22,932
3	3,302,665	2,239,192	1,242,154	610,746	204,152	67,012	115,127
2	1,270,544	909,670	452,349	350,858	29,093	17,293	60,077
1: Low	3,352,204	2,318,129	1,056,196	823,617	133,412	217,717	87,188
0: Not Selected	870,814	555,011	319,964	154,272	28,660	34,659	17,456
Total:	9,944,943	6,862,012	3,374,703	2,248,469	441,721	431,417	365,702

These are the final biodiversity tables. They cross rank biodiversity with climate exposure of the vegetation.

There are 6 tabs: 2 main tables and 5 appendix tabs.

Main1_Bio_ConsensusRefHighExp Consensus Refugia & High Exposure: Summaries

Main2_Bio_ConsensusModExp Consensus Moderate Exposure: Summaries

Apy1_Bio_ConPefHighExp_5Watchd

Consensus Refugia & High Exposure: By Watersho

Apx1_Bio_ConRefHighExp_5Watshd Consensus Refugia & High Exposure: By Watershed Apx2_Bio_ConModExp_5Watshd Consensus Moderate Exposure: By Watershed

Apx3_Bio_RefHighExp Single Model Refugia & High Exposure: Summaries and by Watershed Apx4_Bio_ModExp Single Model Moderate Exposure: Summaries and by Watershed

Apx5_Bio_AreaByRank Total Area by Biodiversity Rank

This is the Consensus Refugia & High Exposure by Biodiversity Ranking table for use in the main text. Refugia & High Exposure by watershed tables are in appendix 1, single climate model tables are in appendix 3.

rent = Entire Study Area (5-Watersheds plus 10km buffer)

Exten	t = Entire Stu						.,					Extent = 5-Watersheds	. , ,	c ciiiiidic iiic			,				
RCP8.	5 area = acre	5										RCP8.5 area = acres									
	Biodivers	itv		Refugia -					Very Hi	gh Exposu	ire -	Biodiversit	,	Refugia -					Very H	ligh Exposu	ure -
	Rankin	,		Consensus		High Exp	osure - Co			nsensus		Ranking		Consensus		High Expo	osure - Coi	nsensus		onsensus	
				Private		Public	Private		Public		Tribal	•	Public	Private	Tribal			Tribal			Tribal
	5: High		322,648	286,945	72	-, -			187,129	246,828	180	5: High	234,812			.,	36,857	270	154,992		180
	4		489,836	233,894	18	.,	,			272,624		4	325,044		18		33,668			127,377	198
2100	3		337,888	86,665	18	.,			228,940	234,506		2100 3	214,222			,	11,979	36	170,088		270
	2		69,120	13,961		44,350			532,746	142,869		2	42,207			28,714	7,314				468
	1: Low		18,446	19,833		6,215			53,249	38,496		1: Low	13,691			4,287	3,513		35,524		
	Т	otal:	1,237,939	641,298	108	139,500	132,187	306	1,267,662	935,322	2,234	Tota	l: 829,976	443,108	54	102,860	93,330	306	914,948	500,681	1,117
				Refugia -						gh Exposu				Refugia -						ligh Exposu	
	Biodivers	ity		consensus		High Evn	osure - Co	ncancus		nsensus	iie -	Biodiversit	,	Consensus		High Evne	osure - Coi	concue		ingii Exposi Consensus	uie-
	Rankin	g		Private	Tribal	Public			Public		Tribal	Ranking	Public	Private	Tribal						Tribal
	5: High		550,742	523.180	667				20.338	176.447	324	5: High	434,695				50.313	486	16,123		324
	4. mgm		913,453	483,964	234	,	,		38,766	92,178		4. mgm	687,215				12.250	36	28,138	33,560	36
2070	3		662,464	187,201	18	, .	,		19.527	57,951		2070 3	431,003			.,.	66,868	180	16,393	34,353	108
	2		242,720	56,348	36	, .	,		322,288	90,917		2	125,954			23,670	20,302	200	235,929	71,029	468
	1: Low		26,625	25.021		20,122			5,963	33,236		1: Low	17.167			12,412	7.206		3,585	11,097	
		otal:	.,	-,-	955	166,954			406,882			Tota	, .	-, -	703	,	,	703	-,		937
			,,							,	,		,,.	,		,					
	Biodivers	:+.,		Refugia -					Very Hi	gh Exposu	ire -	Biodiversit		Refugia -					Very H	ligh Exposi	ure -
	Rankin		(Consensus		High Exp	osure - Co	nsensus	Co	nsensus		Ranking		Consensus		High Expo	osure - Coi	nsensus	c	onsensus	
	Kankin	5	Public	Private	Tribal	Public	Private	Tribal	Public		Tribal	Kanking	Public	Private	Tribal	Public	Private	Tribal			Tribal
	5: High		591,777	542,401	1,027	38,388	25,562	2	14,681	15,960		5: High	482,937		955	24,355	15,762		9,223	9,493	
	4		1,030,796	606,080	468	43,432	19,617	7	25,184	35,271	18	4	806,000	465,932	306	25,562	13,006		11,637	20,824	18
2040	3		1,027,644	378,762	3,116	-,			12,718	18,644	18	2040 3	701,645				17,365	36	6,539	12,195	18
	2		446,098	120,207	757	,			36,208	51,448	36	2	237,785			9,728	4,035		21,094	40,351	18
	1: Low		68,003	52,907		7,152			3,315	14,916		1: Low	40,477			5,062	9,367		2,018	7,061	
	Т	otal:	3,164,318	1,700,358	5,368	127,269	85,206	36	92,105	136,240	72	Tota	l: 2,268,843	1,209,945	4,846	82,900	59,536	36	50,511	89,926	54
			Refugia		<	ui	gh Exposui		Von H	igh Exposi			Refugia		<	ui.	h Exposur		Voru	High Expos	
	Biodivers	ity	Nerugia	80%	•	8	95-99%			> 99%	uic	Biodiversit	Nerugia	80%	`		95-99%		very	> 99%	uic
	Rankin	g	Public	Private	Tribal	Public	Private	Tribal	Public		Tribal	Ranking	Public	Private	Tribal	Public		Tribal	Public		Tribal
	5: High		809,584	883,460					19,869	16,591	IIIDai	5: High	644,234				37.091	126	15,690	9,800	111001
	4		1,340,565	774,817	649		-,		30,426	20,986		4	955,101				42,045	36	20,014	13,979	
2010	3		1,405,055	621.356		. , .			13,979	12,700		2010 3	975.385			,	21,905	72	8,683	8,827	
	2		870,976	248,989	.,		,		22,752	22,229		2	539,411	,	.,	61.157	34,443	54	15,150	15,456	
				-,	,	. ,			, -			=			,	. , .	. , .				
	1: Low		102,247	72,560	36	37,019	35,884		22,824	11,925		1: Low	60,041	21,347	18	24,103	18,771		12,790	7,296	

		-	-	-	ing table for use in main text. Mod	erate exposure b	y watershe	ed tables a	re in app
Extent	= Entire Study Area	(5-Watershe	ds plus 10	km buffe) Extent = 5-Watersheds				
RCP8.5	area = acres				RCP8.5	area = acres			
	Biodiversity		ate Exposu Insensus	ıre -		Biodiversity		ate Expos	ure -
	Ranking	Public		Tribal		Ranking	Public	Private	Tribal
	5: High	48,151	37,865	18		5: High	31,831	21,238	18
	4	99,689	82,756	162		4	72,650	64,760	108
2100	3	54,438	30,083	18	2100	3	38,820	22,752	18
	2	64,706	27,958	36		2	29,831	20,932	10
	1: Low	75,425	18,302			1: Low	41,630	10,556	
	Total:		196,965				214,763	,	144
	Biodiversity	Modera	ate Exposu	ıre -		Biodiversity	Moder	ate Expos	ure -
	Ranking	Co	nsensus			Ranking	C	onsensus	
	Nanking	Public	Private	Tribal		Nanking	Public	Private	Tribal
	5: High	60,545	25,310	36		5: High	47,287	19,563	36
	4	123,882	58,599	180		4	78,505	46,116	180
2070	3	142,941	75,244	4,215	2070	3	107,778	63,211	4,053
	2	81,928	30,912	1,171		2	40,423	21,383	1,009
	1: Low	99,185	28,300	54		1: Low	63,517	17,960	36
	Total:	508,481	218,366	5,656		Total:	337,510	168,233	5,314
	Biodiversity	Modera	ate Exposu	ıre -		Biodiversity	Moder	ate Expos	ure -
	Ranking	Co	nsensus			Ranking		onsensus	
	•	Public	Private				Public	Private	Tribal
	5: High	116,118	85,566	18		5: High	81,315	55,645	18
	4	145,013	64,256			4	97,167	47,305	54
2040		51,610	84,432	162	2040	3	36,010	48,350	162
	2	35,884	8,719			2	24,355	4,684	
	1: Low	87,296	20,176	36		1: Low	64,670	16,465	36
	Total:	435,920	263,148	270		Total:	303,518	172,448	270
	Biodiversity	Moderate I	•	80-		Biodiversity		rate Expo	sure
	Ranking		95%			Ranking		80-95%	
		Public	Private	Tribal			Public		Tribal
	5: High		271,543	72		5: High	,	166,197	72
	4		262,662			4	,	163,891	252
2010		,	195,488	198	2010	3	,-	131,196	198
	2	234,974	66,021	36		2	154,380	39,252	36
	1: Low	131,178	53,556	36		1: Low	85,116	30,714	36
	rotal:	1,157,074	849,269	685		ı otal:	842,208	531,250	594

This is supplement Extent = Pit Watershed RCPES area = acres	starv table 1 for bis	odiversity, showin	areas of cons	nsus refuela & h				ather Watershed a + acres								Extent = Upper Trinity Wit RCPS.5 area = acres	tershed					Extent = McCloud Waters RCPBS area = acres	hed					teet = Upper Sacramen PR.1 area = acres				
Biodiversity Ranking		Consensu Private Triba	Public R	ire - Consensus rivate Tribal	Public	ligh Exposure cosensus Private 1	al		Cor blic	flugia - nsensus Private Trib	al Public I	re - Consensus Private Tribal Pr		ensus vate Tri	bal	Blodiversity Ranking		nus rivate P	High Exposure - Consensus Public Private	Very High Exp Consens Public Pr		Biodiversity Ranking		nous Inkate P	ligh Exposure - Consensus ublic Private	Consensu Public Pris	is iste	Biodiversity Ranking	Refugia - Consensus Public Privat		Consensur e Public Pris	ite
S: High	75,587		18 4,071	7,007 216	89,187		4 5:14	4gh	64,886	33,434	7,530		33,290	58,293	36	S: High		43,540	847 793	54		S: High	12,610	25,346	144 540		4,359	S: High	24,697 9,6			8,194
2100 4	110,192 72,668	26,751	18 9,331 18 6,377	4,900 7,638 36	52,349 100,734	99,833	H 2100 2		75,659 74,758	15,816 10,790		3,225	115,938 67,643	47,053	54 36	2100 4	44,837	5,188	2,954 2,108 180 72	72 198	126 36	2100 3	35,001 18,248	13,655	5,044 7,674 306 847	504		100 3	28,210 10,1 3,711 1,7	115 72 19	g 1,009	6,717 1,639
2	15,438	2,414	10,412	3,595	301,770		0 2		23,364	1,657	17,816		51,502	22,517	18	2	1,657	667	126 36	1,189	306	2	991	721	306 1,117		973	2		90 54 7		1,297
1: Low	6,161	6,829	1,801	1,513	14,862	9,637	1: Lo		2,864	360	1,045	504	8,250	2,144		1: Low	4,089	450	4 292 3 630	4,277	72 540	1: Low	270	306	108 18		144	1: Low		98 649 84		901
Tota	280,045	209,719	54 21,992	24,643 252	558,902	242,567	9	Total:	241,522	62,058	0 53,966	45,035 54	276,623	207,071	144	Tota	183,599	71,840	4,792 1,639	5,891	540	Tota	t 67,120	77,288	5,909 10,190	23,274	10,754	Total	57,681 22,1	03 6,251 9,81	8 50,259 2	8,748
Bodyenty						ligh Exposure		Biodiversity		fugia -			Very High			Biodivenity	Refugi		High Exposure -	Very High Exp		Biodymsty	Refug		ligh Exposure -			Biodiversity	Refugia -	High Exposure		
Ranking	Refugia -	Consensu		ire - Consensus dunta Tribal		Onsensus Oriente 1		Ranking		nsensus Evivate Triff		re - Consensus	Cons	ensus vate Tri		Ranking	Consen		Consensus	Consens		Ranking	Conse		Consensus	Consensu Public Bris		Ranking	Consensus	Consensus a Public Brium	Consessu	
S: High	Public P 102.067	Private Triba	Public 8	ledinT etevin	Public 6755		al (3 S:H0			Private Trib 150.615		Private Tribal Pi 1621		vate Tri 51.124	bal	S: High		dvate P	Public Private	Public Pr	ivate	S: High	Public I	Inluste F	ublic Private		234	S: High	Public Privat 29.237 20.3		e Public Pris	594
s: segn	224.951		14,038	7,656 26	9,475	5.476	S 5: HI	egn	265,472	74.560	9,205		14.177	25.220	46	s: High		36,208	829 162	144	18 54	s: segn	54.186	59 577	234 379		450	2: High	48.872 49.2		6 1,907 4 2,900	2,360
2070 .	204,261		18 33,614	54,060 180	7,440	19 970	2070		138,005	74,560	7,710		7,872	11.331		2070 .		7.242	54 162	190	54	2070 -	19,167	21,329	54 630			070 -		100 1,244 50		2,860
	54.456	12,087	15.312	5.314	226.418		0 2		46,674	4.756	7,755		5.386	8.413	18		12,754	1,459	90 360	1.171	18 576		9,655	6.485	522 324		2,108			60 90 25		1.117
1: Low	7,584	4.954	5,134	2.222	1 072	9 836	1:10		3,963	1909	1 369	955	1,261	955	***	1:1ew	4.648		2 278 965	108	10	1: Low	414	460	937 180		72	1: Low		OA 2594 183		216
Tota				118.406 703	251,962	124,206		Total:	685,756	259.600	90 27 904	32.083 0		97 041	72	Tota			3,675 1,801	1 639	695	Tota	1: 96.393	117 992	2 216 1 693	5 494	3 531	Total	99 529 67 6	43 4 707 2 55	4 6125	6 647
				,		,	-			,				,					.,	-,				,	.,		-,					
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Ranking	Refugia -	Consensu		ire - Consensus		cosensus		Problem		nsecous		re - Consensus	Cons			Ranking	Consen		Consensus	Consens		Ranking	Conse		Consensus	Consensu		Ranking	Consensus	Consensus	Consensu	
-		Private Triba		rivate Tribal		Private 1	al	Pu		Private Titl		Private Tribal Pu		vate Tri	bal				Public Private		Svate				ublic Private			_	Public Privat			
S: High	160,198		29 7,764	6,143	4,522	5,710	5:14	4gh	243,765	157,748 1		1,495	360	1,369		S: High			6,431 3,333	1,609	1,171	S: High	16,213		2,108 1,333		630	S: High	26,445 25,8			612
2010 1	279,406		88 6,521	4,107	2,288	3,585	. 2040 3		340,987	105,652		3,909	4,179	13,492	18	2040 3	67,498		6,539 1,765	3,008	991	2010 1	63,625		1,261 1,045		703	040 3	55,483 54,6 7342 33			2,054
2000 3	416,069	172,898 2,9		9,007 36	2,234	6,305	8 200 3		200,909		10,538 6,791	6,917	2,972	2,036		10m 3		6,521		486	252	2010 3		22,157				, and 3				2,504
2 1: Low	131,340	52,673 6	67 2,054 540	847 3.080	9,565	3,495 5,044	8 2		79,496 6,089	7,962		1 973	7,548 612	1,477		2 1:1ew	13,258	1,153	126 234 486 1.315	1,351	1,675	2 1: Low	11,547	8,935 SAD	324 126 234 253		2,612	2 1: Low		106 432 14 103 486 2,84		1,693
1: Low Tota		630,742 4.7		22,184 26	19,689	24,129	1:10		872,255	313,137 1		1,878		49.250		1: Low Tota			14.231 7.061	6.593	4.179	1: Low Tota			4.233 2.585		5.260	1: Low Total	91.709 84.5			7.098
1013	. 1,007,120	400,742 4,7	24,230	22,100 20	25,000	24,129		IOLE.	872,233	222,227		10,479	10,071	49,230		104	200,000	72,700 2	24,222 7,002	0,255	4,279	1013		209,427			4,200	Tecan	82,709 84,0	. 4,071 4,00	, ,,,,,	7,098
Bodyenity			High Expos	re 95-	Very I	High Exposure		Biodianniby	Po Po	efucia	High Exposu	ne 95-V	ny High Expo	sure	,	Bindiannity	Refugi	ia i	High Exposure	Very High Ex	posure	Bodumby	Refu	ria .	High Exposure	Very High Exp	coure	Sinformity	Refueia	High Exposure	Very High Expo	sure
Ranking	Refueia	< 8	0%	99%		> 99%		Ranking		80%		9%	91	9%		Backlos	< 922		95-99%	> 99%		Booking .	< 80	N.	95-99%	> 99%		Ranking	< 92%	95-99%	> 99%	
Kanking	Public P	Private Triba	Public R	rivate Tribal	Public	Private 1	al	Ranking Pu	blic I	Private Titl	al Public I	Private Tribal Pu	blic Pri	vate Tri	bal	Karacog	Public Pi	rivate P	Public Private	Public Pr	ivate	Kanang	Public	trivate F	ublic Private	Public Pri	ate	Kanking	Public Privat	e Public Privat	e Public Privi	ite
S: High	224,562	274,245 2,1	08 16,195	17,257 126	4,035	4,810	5:14	4gh	297,231	252,970 1	62 15,096	12,304	5,638	2,594		S: High	56,636	56,582	3,855 1,747	757	492	S: High	26,030	32,551	3,405 2,379	2,324	667	S: High	29,775 32,7	31 7,061 3,40		1,297
			96 14.699	15.222 36						155.983			12,340				93,589	36,604	3.513 1.027	1.063	324		62,923	56.114	7.206 7.422	1.207	1.153		60,653 53.6	10 5.602 4.43	1 1,117	1,315
4	337,150																															
2010 2	638,668	306,598 6,1	79 7,566	11,277 72	2,900	4,467	2010 3		254,339	74,200	36 15,456	5,656	4,413	1,531		2010 3		7,818	3,170 721	450	108	2010 2	24,499	22,247	2,108 2,702	522		010 3	8,304 3,1	88 973 1,54		1,909
2	638,668 412,304	306,598 6,1 124,675 1,3	79 7,566 87 18,374	11,277 72 3,585 54	2,900 3,513	4,467 1,855	2		254,339 100,500	74,200 36,857	36 15,456 39,523	5,656 26,174	4,413 8,178	9,439		2	12,105	7,818 1,567	270 1,693	1,261	811	2	24,499 12,033	22,247 8,935	2,108 2,703 2,306 1,603	522 1,641	2,324	2	8,304 3,1 2,468 3	188 973 1,54 H2 685 1,38	7 757	1,027
2010 2 2 1: Low	638,668 412,304 37,991	306,598 6,1 124,675 1,3	79 7,566 87 18,374 18 4,017	11,277 72	2,900	4,467 1,855 3,801	2010 3 2 1: Lo		254,339		36 15,456 39,523 7,512	5,656 26,174 2,990	4,413			2010 3 2 1: Low	12,105 7,242	7,818 1,567 594				2 1: Low	24,499 12,033 1,585	22,247 8,935	2,108 2,703 2,306 1,603 4,702 991	522 1,641 1,513		010 2 2 1: Low	8,304 3,1 2,468 3 5,909 3	188 973 1,54 H2 685 1,38 157 2,090 2,30	7 757 6 2,720	

Extent = Pit Watershe RCP8.5 area = acres	d				= Feather Watersh area = acres	ed			Extent = Upper T RCP8.5 area = ac		ershed		Extent = McCloud War RCP8.5 area = acres	ershed		Extent = Upper Sacram RCP8.5 area = acres	ento Waters	shed
Biodiversit Ranking		erate Expo Consensus Private			Biodiversity Ranking		rate Expos Consensus Private	ıre - Tribal		versity king	Mode Expos Public	sure -	Biodiversit Ranking		derate osure - Private	Biodiversit Ranking	Exp	derate osure - Private
5: High	15.85				5: High	8.953		IIIDai	5: High		4.810	3,891	5: High	721		5: High	1.495	
4	26.44	,			4	14.627	8,503		4		10.484	4.702	4	11.799		4	9,295	,
2100 3	20.17			2100	3	8.845			2100 3		6.485	973	2100 3	2,468		2100 3	847	
2	15.27				2	6.845	16,375		2		6.413	252	2	793	793	2	504	4 324
1: Low	23.52				1: Low	7,494	2.864		1: Low		10,520	198	1: Low	54	108	1: Low	36	6 450
	otal: 101,27				Tota			0		Total:	38,712			otal: 15,834			tal: 12,177	
Biodiversit	, Mod	erate Expo	sure -		Biodiversity	Mode	rate Expos	ıre -	Biodi	versity	Mode	erate	Biodiversit	, Mod	lerate	Biodiversit	, Mo	derate
Ranking	y	Consensus			Ranking	(Consensus			king	Expos		Ranking	Expo	sure -	Ranking	Exp	osure -
Канкив	Public	Private	Tribal		панкть	Public	Private	Tribal	1101	6	Public	Private	панкив	Public	Private		Public	Private
5: High	35,05	5 11,223			5: High	6,233	5,080		5: High		4,107	1,441	5: High	829	649	5: High	1,063	3 1,171
4	40,04				4	25,598	-, -		4		2,000	504	4	4,612	, .	4	6,251	.,
2070 3	83,83				3	22,914			2070 3		594	288	2070 3	108		2070 3	324	
2	22,84	,	,		2	16,843	,		2		180	630	2	36		2	522	
1: Low	42,78				1: Low	9,908	.,		1: Low		9,800	252	1: Low	378		1: Low	649	
Т	otal: 224,56	2 126,782	5,314		Tota	l: 81,495	27,201	0		Total:	16,681	3,116	Т	otal: 5,963	3,495	Te	tal: 8,809	7,638
Biodiversit	y Mod	erate Expo			Biodiversity		rate Expos	ıre -	Biodi	versity	Mode		Biodiversit	v	lerate	Biodiversit	,	derate
Ranking		Consensus			Ranking		Consensus		Ran	king	Expos		Ranking		sure -	Ranking		osure -
5: High	Public 27,61	Private 5 20.536	Tribal 18		5: High	Public 18.662		Tribal	5: High		Public 17.942	Private 13,835	5: High	Public 8.142	Private 6.827	5: High	Public 8,953	
o: nigii	36.31				a. nigii	25,039		36	3: nigii 4		21.365	6.485	o: nigii	8,557	8.322	5: nigii 4	5,891	
2040 3	13.33				3	11.277	8.340	30	2040 3		2.990	1.081	2040 3	7.188	-,-	2040 3	1.225	, .
2040 3	16,10				2	6.287	8,340		2040 3		432	396	2040 3	1,063	,	2040 3	468	
1: Low	39.32				1: Low	11.547			1: Low		6.971	252	1: Low	1,603		1: Low	5.224	
	otal: 132,69				Tota	, ,	, .	36	1.10	Total:				,	19,365		tal: 21,761	
Biodiversit	v Moo	erate Expo	sure		Biodiversity	Mode	erate Expos	ure	Biodi	versity	Mode	erate	Biodiversit	v Mod	lerate	Biodiversit	, Mo	derate
Ranking	Public	Private	Tribal		Ranking	Public	Private	Tribal	Ran	king	Public	Private	Ranking	Public	Private	Ranking	Public	Private
5: High	77,47	8 71,047	72		5: High	42,225	38,982		5: High		17,329	8,449	5: High	22,211	22,896	5: High	29,831	1 24,823
4	84,59	4 58,581	216		4	109,885		36	4		17,510	3,675	4	31,615	27,255	4	25,093	
2010 3	61,77	88,323	198	2010	3	54,961	30,065		2010 3		13,853	1,909	2010 3	11,205	8,737	2010 3	3,152	
2	74,84	8 18,771	18		2	70,705	18,266	18	2		2,432	721	2	4,666	1,153	2	1,729	9 342
1: Low	38,56	8 16,159	36		1: Low	16,393	10,916		1: Low		23,724	396	1: Low	3,261	1,747	1: Low	3,170	1,495
			540				150.867	54				15.150		otal: 72.957	61,788		tal: 62.977	7 50.565

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Thisis	supplement.	ry table & furbio	adiversity, st	howing areas	af maderate exp	acure for single o	limate models																																						
Daland - Daling	Blody Area (- Watersheds pil	lus 10km buf	Sec)		D.	test - bWateshe	di.						St Watershed						Dident + I	eather Watersh	ed.					Extent - Upper T	hinly Waters!	hed					Dalland + MicDon							E + Useer Tagamer	sta Watershed			
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	Sanking	Or O	dy		Oxfy		Sankin		ONly	٧		Delly		Sanking		Owly		Chily			Santone		Oxly		Only			miking	0	Inly		ONly			anking	04	ly .		Dirily		Sanking	Outs	M Only	MMICC Oxly	
		Public Priva	de Tribal	PARK 1	Private Tribal			PW.		204	PARK PR	vate Tribal					reset Public	Private	District		-	PMMK	Private 16		Private Tri	bel		· ,	Public	Private	PARK	Private				Public	Nivite	PARK	Private			Public	Private Po	Mic Physi	
5.16(6		68,630 60,	,760 1	62,368	37,411 1	26	5.16(6)	41,	362 62,79	90 54	31,002 6	0,186 136		High	5,500	20,608	36 1,10	17,690	336		High	33,236	21,959	18 2,290	7,079		Si High		90		m x,	(10)	2,094	5 High		72	180	0 T	EF9 4,179		5.00(6	36		8,481	9,588
4		82,166 62,	410	89,367	89,007 ·	72	4	68,	922 33,90	62	66,123 6	8,950 72	4		22,860	23,358	25,40	21,001	72			44,945	8,629	18,062	12,466		4		799	10	3 I,	(109	1,513	4		212	1,461	1 11,	799 9,670		4	126	136	5,475	11,295
2300 3		79,960 66,	A111	281,306	185,156 5,5	100	1100	62,	725 40,77	12	175,130 5	9,823 3,404	2300 3		20,452	34,461	168,11	87,366	3,404	2300		21,829	3,392	17,690	6,323		2300 1		183		4	1,00.7	1,369	2100		1,765	2,800	0 I,	225 1,262	2300	1			3,117	1,495
1		50.890 22.	400	111.991	16296 9	15	2	28	200 27.60	24	72,507 3	0.000 933			22.139	14.209	33.75	10.736	900	2		6.262	2.102	22.878	16.773		2		226		10 E	1.00X	1.70	2		636	739		377 3.879		2	26	. 16	991	905
1 law		5,892 2,	360	66,366	27,816	14	1 Low	1	288 1,26	90	45,182 3	4,771 14		Sew	1,829	909	22,90	1,823	94		Some	360	306	8,971	5,172		1/low				4	1,608	304	1: Low		28	36		368 2,236		1.5ew			2,450	1,000
	Total	267,237 172,	,002 T	190,662	434,683 6,8	29		2004 220	152 186,10	32 14	382,367 25	8,368 6,633		Tela	96,377	93,805	36 362,23	130,615	6,611		TWG	4: 104,230	26,536	18 64,110	67,809			THEFT	1,225	29	16 16	C154	7,206		7666	2,532	1,296	6 36,	A23 25,220		740	Sel 198	380	22,463	26,129
	dyesite	Moderate Exp	neces - Otto	M Moderate	Exposure - MIR	oc	Disdoes	with Min	decate Expos	Sary - Chillia	Moderate In	posure - MIRDC		Madesalte	Moderate	Exposure	CNEM Mode	ate Exposure	MINOC		Madhanibe	Maderate	Exposure - Cf	NOW Maderal	Exposure - 1	AROC	No.	Describy 1	Moderate Exp	pocure - DESS	M Moderate	is Exposure - 1	MIROC	Min.	diversity	Moderate Day	HAVE - CHEM	A Moderate	Exposure - MIRCO	E .	Endwersty	Moderate	Exposure -	Moderate Expos	are -
	Sanking	Or O	dy		Oxfy		Sankin		ONly	٧		Delly		Sanking		Owly		Chily			Santone		Oxly		Only			miking	0	Inly		ONly			anking	04	ly .		Dirily		Sanking	Outs	M Only	MMICC Oxly	
	-	Public Priva	de Tribal		Private Tribal			PW.		204		vate Tribal			PARK	Nivate 1	reset Public		District		-	PMMK	Private 16		Private Tri	bel		· ,	Public	Private	PARK	Private				Public	Nivite	PARK	Private			Public	Private Po	Mic Physi	
5 Hgh		2,602 3,	312	77,892	61,625	106	5.16(6		,821 95	55		3,298 36		1666	708	799	87,18		36		High	1,081	236	6,935	13,853		SHigh		18				1,171	5 Hgh					2,860		5.00(6				30,822
2070 4		12,102 11,		302,626			1270 4		210 8,0			8,889 54	4		4,632	7,02%	22,42			2072		3,639	1,009	28,876	27,483	34	***** 4					1,657	885	2070 4					230 2,800		. 4			8,778	3,390
200 1		29,130 26,	463	382,409	190,818 1,9	29	1	11,	,439 10,89	100	133,996 8	8,369 1,891	207		7,566	1,612	87,31	86,017	1,873			3,855	BIS.	20,990	18,500	18	A 1		18	29	100	881	90	200 g			18	8 1/	ACS 1,365	,	1		72	378	212
1		24,625 17,				28	2		309 15,21		88,212 1		2		20,936	3,508	35,40			2		8,225	8,775	50,483	26,627		2		72	32		324	79.7	2		144	106	8 1,	en 1,810		2	100	106	486	342
1: Live			,612	58,836		ia.	1 Low		256 1,79			7,285 18		Sew	2,558	1,623	13,01		18		Silver	54	100	10,666	6,797		1/low		106			1,467	667	1: Low		36	18	я 1,	325 1,726		1.6ew		18		1,300
	Total	75,229 65,	,662	0 568,866	364,585 2,0	10		744 II	766 36,83	75 G	368,112 23	6,670 Z,000		Total	34,372	24,627	0 192,30	306,626	1,627		TWG	4 11,855	20,953	0 117,721	99,392	72		Telefic	216	12	N 13,	1,114	3,509		7666	180	144	4 25,	ACS 30,340		Tes	Sell 166	194	21,108	21,180
100	dyesite	Moderate Exp	seems - Dept	M Moderate	Exposure - MIR	DC .	Biodien	nity Mor	decate Expos	Sara - CARDS	Moderate In	posure - MIRDC		Biodivenity	Moderate	Exposure	CNEM Moder	de Especare	MINOC		Bodhersby	Maderate	Exposure - Cf	NOW Maderal	Exposure - 1	AROC	Tief.	hersity 1	Moderate Exp	pocure - DESS	M Moderate	is Exposure - !	MIROC	Ties.	diversity	Moderate Esp	HIMM - CNRM	A Moderate	Exposure - MIRCO	E	Eindhersby	Moderate		Moderate Expos	
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5 Hgh			.797		107,636	14	5.16(6		270 3,90			0,998 36		1666	3,439	1,675	27,80		18		High	1,045	540	8,088	21,668	18	SHigh		2,860	2,10		686	522	5.16(6		807	690	0 1,	A75 6,500		SHigh	1,679	1,171		2,296
2000 4			,890	65,301	66,382 3		4		971 5,30			2,490 108	4		3,891	1,421	26,90		90	2002		1,747	1,297	13,925	13,150	18	4		2,958	32	76	667	558	- Tamp 4		72	34	4 4	376 2,270		. 4	342	360	4,195	2,486
2000 I		8,179 10,			69,336 3				334 6,35			9,382 90	2000 3		2,036	3,729	24,6		72	2000		2,358	1,986	14,880	13,150	18	, and		329	19		378	378	2000 I		36	288	8 1,	JES 2,562		1	126	36	482	342
		3,260 1,		94,825		m	2		202 1,10			1,108 36	2		2,166	376	32,30		18	2		306	008	33,632	16,177	18	2		18	28		292	400	2		26		1,	,677 500		2	198	36	558	366
1: Live		390 4		34,695			1 Low		324 4,30			1,785		Sew	162	4,255	2,90				Silver	54	72	6,755	7,336		1/low		34			1,188	362	1 Low		36	18	8 4	308 1,068		1.6ew	18		3,567	706
	Total	32,145 33,	,106	0 331,623	304,139 3	06		Total: 27,	201 20,11	30 0	211,112 30	6,613 230		Total	11,875	11,400	0 114,82	72,688	288		TWG	4: 1,730	4,323	0 79,280	79,285	72		Telefic	6,233	2,90	70 4,	1,072	2,010		7666	1,037	811	1 14,	,012 12,442		Tes	Salt 2,860	1,600	16,667	1,875

This is supplementary table 5 for biodiversity, showing total area in each biodiversity rank

area = acres

Biodiversity							Upper
Ranking	Study Area	5-Watersheds	Pit	Feather	Upper Trinity	McCloud	Sacramento
5: High	2,386,132	1,759,245	691,935	667,202	145,787	112,461	141,860
4	2,922,588	2,068,690	766,207	776,421	157,604	194,893	173,565
3	2,563,480	1,740,745	1,128,018	440,658	77,604	72,831	21,635
2	1,605,478	1,033,102	659,384	309,660	20,860	34,461	8,737
1: Low	467,265	260,230	129,160	54,528	39,865	16,771	19,905
Total:	9,944,943	6,862,012	3,374,703	2,248,469	441,721	431,417	365,702