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Title

Resistance status of the carmine spider mite, *Tetranychus cinnabarinus* and the twospotted spider mite, *Tetranychus urticae* to selected acaricides on strawberries

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Authors

Bi, Jian-Long
Niu, Zi-Mian
Yu, Lu
et al.

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Alphabetical List of Publications 2001

1. A brief review of *Bemisia tabaci*, its occurrence, and resistance to insecticides in southern California and Arizona. 1999. In Proc Regional Consultation on insect. Resistance Management in Cotton, Multan Pakistan.
2. A midge predator of potato aphids on tomatoes. 1986. Calif. Agric. 40(11 & 12)
3. Analysis of organophosphorus and carbamate insecticide resistance in the beet armyworm, *Spodoptera exigua* (Hubner). 1999. Proceedings of the Beltwide Cotton Conference, Orlando, FL. National Cotton Council, Memphis TN
4. Assessment of two bioassay techniques for resistance monitoring of silverleaf whitefly (Homoptera: Aleyrodidae) in California. 1996. J. Econ. Entomol. 89(4)
5. *Bemisia argentifolii* (Homoptera: Aleyrodidae) action thresholds and cotton photosynthesis. 1996. Environ. Entomol. 25(6)
6. *Bemisia argentifolii* (Homoptera: Aleyrodidae) development and honeydew production as a function of cotton nitrogen status. 1994. Environ. Entomol. 23(2)
7. *Bemisia* spp. (Homoptera: Aleyrodidae) in the United States history, pest status, and management. 1998. Recent Res. Devel. In Entomol., 2
8. Bush tomatoes show very low levels of pesticide residues. 1992. Calif. Agric., Sept. - Oct.
9. Cabbage looper control on seedling lettuce. 1975. Calif. Agric., Aug.
10. Characterization of naphthyl esterase and acetylcholinesterase enzymes systems in *lygus hesperus*. 2001. Proceedings of the Beltwide Cotton Conference, Orlando, FL. National Cotton Council, Memphis TN

PUBLICATION LIST 2001

11. Comparative effects of selected natural insecticides on *Heliothis virescens* (Lepidoptera: Noctuidae) larvae. 1994. J. Econ. Entomol. 87(2)
12. Comparison of a nuclear polyhedrosis virus and chemical insecticides for control of the beet armyworm (Lepidoptera: Noctuidae) on head lettuce. 1986. J. Econ. Entomol. 79
13. Comparison of Neem, Urea, and Amitraz as oviposition suppressants and larvicides against *Bemisia argentifolii* (Homoptera: Aleyrodidae). 1999. J. Econ. Entomol. 92(1)
14. Comparisons of adult whitefly sampling techniques in cotton with whitefly adult populations from whole plant samples. 1995. Southwestern Entomol. 20(1)
15. Controlling tomato pinworm by mating disruption. 1988. Calif. Agric., 42(6)
16. Correlations of seasonal trap counts of *Bemisia tabaci* (Homoptera: Aleyrodidae) in Southeastern California. 1986. J. Econ. Entomol. 79
17. Cotton yield and quality loss caused by various levels of stink bug infestations. 1976. J. Econ. Entomol. 69
18. Degradation of methyl parathion to p-nitrophenol on cotton and lettuce leaves and its effects on plant growth. 1989. J. Econ. Entomol. 82(5)
19. Determining an action threshold to prevent *Bemisia* outbreaks in cotton. 1996. Taxonomy, biology, damage, control and management (book)
20. Development and reproduction of *Euschistus conspersus* at different temperatures. 1976. Ann. of Entomol. Soc. Am. 69(5)
21. Diel activity patterns of tobacco budworm, *Heliothis virescens* (F.), and cabbage looper, *Trichoplusia ni* (Hubner) larvae. 1987. Environ. Entomol. 16
22. Dispersal of *Euschistus conspersus* from alfalfa grown for seed to adjacent crops. 1976. J. Econ. Entomol 69(1)

PUBLICATION LIST 2001

23. Diurnal field patterns of honeydew sugar secretions by *Bemisia argentifolii* (Homoptera: Aleyrodidae) nymphs on cotton. 1996. Environ. Entomol. 25(4)
24. Ecological considerations in assessing the status of insecticide resistance in *Bemisia tabaci* from California. 2000. European Whitefly Symposium, Ragusa (Sicily, Italy) Feb. 27 - Mar. 3 2001
25. Effect of *aspergillus flavus* mycotoxin on culex mosquito larvae. 1972. J. Invert. Path. 22
26. Effect of cotton nitrogen fertilization on *Bemisia argentifolii* populations and honeydew production. 2001. Entomol. Exper. Et Appl. 99
27. Effect of cotton planting date and nitrogen fertilization on *Bemisia argentifolii* populations. 2001. Proceedings of the Beltwide Cotton Conference, Orlando, FL. National Cotton Council, Memphis TN
28. Effect of crop rotations on emergence of overwintered pink bollworm populations in the Imperial Valley, California. 1973. J. Econ. Entomol. 67(2)
29. Effect of nitrogen fertility on cotton-whitefly interactions. 2000. Proceedings of the Beltwide Cotton Conference, Orlando, FL. National Cotton Council, Memphis TN
30. Effect of synergists on organophosphate and permethrin resistance in sweetpotato whitfly (Homoptera: Aleyrodidae). 1988. J. Econ. Entomol. 81(1)
31. Effect of tomato cultivar and fertilizer regime on the survival of *Liriomyza trifolii* (Diptera: Agromyzidae). 1987. J. Econ. Entomol. 80
32. Effect of various pesticides on lettuce physiology and yield. 1982. J. Econ. Entomol. 75
33. Effects of antibacterial materials on *Bemisia argentifolii* (Homoptera: Aleyrodidae) oviposition, growth, survival, and sex ratio. 1997. J. Econ. Entomol. 90
34. Effects of different infestation levels of the twospotted spider mite on strawberry yield in winter plantings in Southern California. 1982. J. Econ. Entomol. 75

PUBLICATION LIST 2001

35. Effects of insecticide applications on *Bemisia argentifolii* (Homoptera: Aleyrodidae) densities and honeydew production. 1998. Environ. Entomol. 27
36. Effects of mulching on the spread of aphid-transmitted watermelon mosaic virus to summer squash. 1979. J. Econ. Entomol. 72
37. Entomology - a major component of pest management at UC in the 21st Century.
38. Evaluation of insecticide rotations and mixtures as resistance management strategies for *Bemisia argentifolii* (Homoptera: Aleyrodidae). 1998. J. Econ. Entomol. 91(4)
39. Evaluation of post-harvest treatments on removal of pesticide residues from fresh market tomatoes. 1992. J. Econ. Entomol.
40. Field & greenhouse performance of mustang 1.5 EW and capture 2EC on immature and adult whitefly.
41. Field evaluation of insecticide rotations as a resistance management strategy for whiteflies.

Field evaluation of novel insecticides against the greenhouse whitefly on summer-planted strawberries. 2001. Calif. Straw. Comm. [The Pink Sheet \(folder\)](#)
[01-06 March](#).

Field evaluation of various insecticides against the greenhouse whitefly on fall-planted strawberries. 2000. Calif. Straw. Comm. [The Pink Sheet \(folder\)](#)
[00-09 October](#).
42. Forecasting pink bollworm emergence by thermal summation. 1977. Environ. Entomol. 6(4)
43. Fumigant action of various insecticides on the egg and first larval stage of *Heliothis zea*. 1988. J. Agric. Entomol. 5(1)
44. Greenhouse and field evaluation of six novel insecticides against the greenhouse whitefly *Trialeurodes vaporariorum* on strawberries. 2001. Crop Protection
45. Herbivore effects on fresh and processing tomato productivity before harvest. 1989. J. Econ. Entomol. 82(3)

PUBLICATION LIST 2001

46. Impact of *Bemisia* whiteflies (Homoptera: Aleyrodidae) on alfalfa growth, forage yield and quality. 2000. J. Econ. Entomol. 93
47. Impact of methamidophos and methomyl on populations of *Liriomyza* species (Diptera: Agromyzidae) and associated parasites in celery. 1983. Can Ent.
48. Implantacion del mip en los cultivos de California. 1990. PHYTOMA Espana - n 22 Octubre
49. Implementation of an integrated pest management program for fresh market tomatoes. 1987. Appl. Agric. Res. 1(5)
50. In vitro acetylcholinesterase inhibition in *Bemisia tabaci* and its relevance to organophosphorus resistance expressed in bioassays. 1999. National Research, Action, and Technology Transfer Plan. Second Annual Review of the Second 5-year Plan Jan. 31 - Feb. 2, 1999 Alb. NM
51. Incidence and persistence of some common pesticide residues on fresh market tomatoes. 1992.
52. Increased insecticide use in cotton may cause secondary pest outbreaks. 1976. Calif. Agric. 30(8)
53. Increases of *Heliothis* spp. in cotton under various insecticide treatment regimes. 1975. Environ. Entomol. 4(6)
54. Insect and nematode recommendations for cotton. 1981. UC Leaflet 2083
55. Insecticides sought to control adult glassy-winged sharpshooter. 2001. Calif. Agric. 55(4)
56. Insecticide applications based on hexalure trap catches versus automatic schedule treatments for pink bollworm moth control. 1974. J. Econ. Entomol. 67(4)
57. Insecticides evaluated for lettuce root aphid control. 1977. Calif. Agric. 31(4)
58. Laboratory evaluations of synthetic and natural insecticides on beet armyworm (Lepidoptera: Noctuidae) damage and survival on lettuce. 1998. J. Econ. Entomol. 91(1)

PUBLICATION LIST 2001

59. Lettuce yield reductions correlated with methyl parathion use. 1983. *J. Econ. Entomol.* 76(6)
60. Levels of organophosphorus and carbamate insecticide resistance conferred by insensitive acetylcholinesterase in the beet armyworm, *Spodoptera exigua* (Hubner). 2000. Proceedings of the Beltwide Cotton Conference, San Antonio, TX. National Cotton Council, Memphis TN
61. Managing whiteflies (*Bemisia tabaci*), strain B in an agricultural system. 1999. International Plant Virus Epidemiology Symposium, Aguadulce (Almeria), Spain, April 11-16, 1999
62. Minimization of pesticide residues on head lettuce: the effect of multiple insecticide treatments. 1992. *J. Econ. Entomol.* 85
63. Modification of feeding behavior of *Myzus persicae* (Homoptera: Aphididae) by selected compounds. 1993. *Environ. Entomol.* 22(5)
64. Modified ultrasonic actograph for monitoring activity of lepidopterous larvae. 1986. Proceedings, Hawaiian Entomological Society, Vol. 27, December
65. Multiple insecticide treatments affect harvest residues of lettuce. 1993. *J. Econ. Entomol.* 86(6)
66. Mycetocyte inclusion in the oocyte of *Bemisia argentifolii* (Homoptera: Aleyrodidae). 1996. *Ann. Entomol. Soc. Am.* 89(5)
67. Oviposition preference of two *Bemisia* species (Homoptera: Aleyrodidae). 1995. *Environ. Entomol.* 24(1)
68. Ovipositional preference and development of *Bemisia argentifolii* (Homoptera: Aleyrodidae) in relation to alfalfa. 1996. *J. Econ. Entomol.* 89(4)
69. Patterns of honeydew droplet production by nymphal stages of *Bemisia argentifolii* (Homoptera: Aleyrodidae) and relative composition of honeydew sugars. 1999. *J. Entomol. Sci.* 34(3)
70. Persistent silverleaf whitefly exploits desert crop systems. 1998. *Calif. Agric.* 52(2)
71. Perspectives on insecticide resistance and other causes of *Bemisia tabaci* outbreaks. 1999. Proceedings of the Regional Consultation

PUBLICATION LIST 2001

Insecticide Resistance Management in Cotton, Jun. 28 to Jul. 1, 1999 Multan, Pakistan

72. Pest management guide for insects and nematodes of cotton in California. 1979. Agric. Sci. Publ. Univ. of Calif. Berkeley, CA
73. Pesticide effects on plant physiology: integration into a pest management program. 1986. Bulletin of the Entomological Society of America Vol: 32(2)
74. Pesticides and cotton: effect on photosynthesis, growth, and fruiting. 1990. J. Econ. Entomol. 83(4)
75. Pheremone traps to time tomato pinworm control. 1983. Calif. Agric. July-August 37(7 & 8)
76. Physiological responses of avocado leaves to avocado brown mite feeding injury. 1982. Environ. Entomol. 11
77. Pink bollworm monitoring methods. 1980. Pink Bollworm Control in the Western United States. USDA-SEA ARM-W- 16
78. Population dynamics and pest status of silverleaf whitefly in the USA. 1994. Arab Journal of Plant Protection 12(2) Dec.
79. Potential sequential sampling plan for *Liriomyza sativae* on pole tomatoes. 1982. Proc. Of the Third Ann. Industry Conf. on the Leafminer
80. Predicting population cycles of the pink bollworm by thermal summation. 1979. J. Econ. Entomol. 72(1)
81. Radioactive measurement of brown mite injury on avocados. 1982. Calif. Agric. 36
82. Reducing pesticide treatments in celery may be justified. 1982. Calif. Agric. 36 (9 & 10)
83. Reduction of tomato leaflet photosynthesis rates by mining activity of *Liriomyza sativae* (Diptera: Agromyzidae). 1983. J. Econ. Entomol. 76
84. Reductions in plant processes by *Tetranychus urticae* (Acari: tetranychidae) feeding on strawberry. 1982. Environ. Entomol. 11

PUBLICATION LIST 2001

85. Reflective mulches foil insects. 1979. Calif. Agric. July-August 1979
86. Relationship between lepidopterous larval density and damage in celery and celeri plant growth analysis. 1981. Entomol. Soc. Of Am.
87. Relationships among tomato planting date, potato aphids (Homoptera: Aphididae), and natural enemies. 1988. J. Econ. Entomol. 81(4)
88. Relative susceptibility of whiteflies to danitol + orthene over a 5-year period. 2001. Cotton, A College of Agric. And Life Sciences Report
89. "Residue-free" tomatoes? Bush tomatoes show very low levels of pesticide residues. 1991. Submitted to Calif. Agric.
90. Resistance monitoring of the sweetpotato whitefly (Homoptera: Aleyrodidae) in the Imperial Valley California. 1992. J. Econ. Entomol. 85(4)
91. Responses to Azadirachtin and Pyrethrum by two species of *Bemisia* (Homoptera: Aleyrodidae). 1997. J. Econ. Entomol. 90(2)
92. Seasonal cropping pattern effects on abundance of *Bemisia tabaci* (Homoptera: Aleyrodidae) and incidence of lettuce infectious yellows virus. 1994. Environ. Entomol. 23(6)

Seasonal population dynamics of the greenhouse whitefly *Trialeurodes vaporariorum* in Oxnard area. 2001. Calif. Straw. Comm. *The Pink Sheet (folder) 01-12 October*
93. Seasonal population trends of *Bemisia argentifolii* (Homoptera: Aleyrodidae) on alfalfa in Southern California and Arizona. 1997. Environ. Entomol. 26(2)
94. Seasonal reproductive condition of *Euschistus conspersus*. 1980. Ann. Entomol. Soc. Am. 73
95. Selection for imidacloprid resistance in silverleaf whiteflies from the Imperial Valley and development of a hydroponic bioassay for resistance monitoring. 1997. Pestic. Sci. 51
96. Sex-lure traps reduce insecticide treatments for pink bollworm. 1976. Calif. Agric. 30(6)

PUBLICATION LIST 2001

97. Silverleaf whiteflies show no increase in insecticide resistance. 1996. Calif. Agric. 50(1)
98. Spider mites can reduce strawberry yields. 1982. Calif. Agric. 36(1 & 2) Jan.-Feb.
99. Studies on imidacloprid resistance in *Bemisia* whiteflies. 2000. National Research, Action, and Technology Transfer Plan 1997-2001. Third Annual Review of the Second 5-year Plan Feb. 6-8, 2000 Alb. NM
100. Studies on the interactions of imidacloprid with *Bemisia tabaci*. 2001. European Whitefly Symposium, Ragusa (Sicily, Italy) Feb. 27 - Mar. 3 2001
101. Suppression of *Bemisia tabaci* (Homoptera: Aleyrodidae) infestations in cantaloupe and cotton with sprinkler irrigation. 1996. Crop Protection Vol. 15 (7)
102. Susceptibility of the immature and adult stages of the sweetpotato whitefly (Homoptera: Aleyrodidae) to selected insecticides. 1998. J. Econ. Entomol. 82(4)
103. Synergism of insecticides with DEF in sweetpotato whitefly (Homoptera: Aleyrodidae). 1988. J. Econ. Entomol. 81(1)
104. Synergism: Potential new approach to whitefly control. 1988. Calif. Agric. 42(1) Jan. - Feb.
105. Synergistic activity of binary measures of insecticides on tobacco budworm (Lepidoptera: Noctuidae) eggs. 1987. J. Econ. Entomol. 80
106. Temperature regulation of *Bemisia tabaci* (Homoptera: Aleyrodidae) populations in Imperial Valley cotton. 1985. J. Econ. Entomol. 78
107. The effects of acaricides on the physiology, growth, and yield of strawberries. 1982. J. Econ. Entomol. 75
108. The vegetable leafminer on fresh market tomatoes in southern California. 1984. Calif. Agric. 38(1 & 2) Jan. - Feb.
109. Tobacco budworm control on geraniums. 1976. Calif. Agric. 30(6)

PUBLICATION LIST 2001

110. Whiteflies cause problems for southern California growers. 1982.
Calif. Agric. 36(9 & 10) Sept.- Oct.
111. Yield responses in lettuce plants at various density treatment
levels of lepidopterous larvae. 1982. J. Econ. Entomol. 75