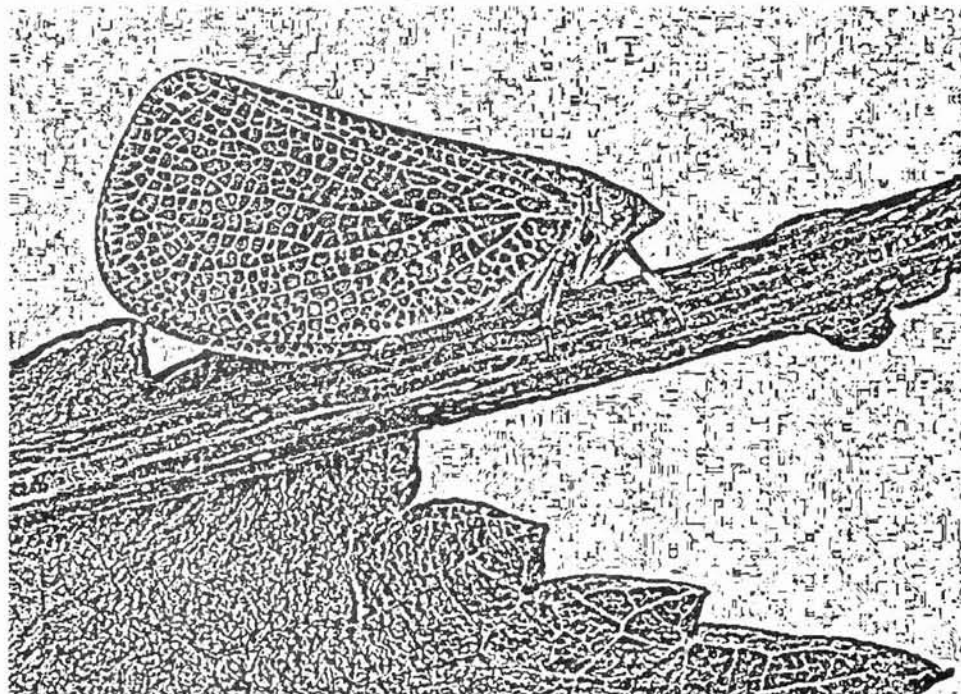


California
Plant Pest & Disease Report

California Department of Food and Agriculture
Plant Pest Diagnostics Center
3294 Meadowview Road
Sacramento, CA 95832-1448

ACANALONIA CONICA



GREEN CONEHEADED
PLANTHOPPER

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Volume 20 Nos. 1-3,
January-June, 2001

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*California Plant Pest
&
Disease Report*

Editor: Raymond J. Gill

Production Assistants: Ernest E. Riberal & Alisa L. Hossay

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Editor, CPPDR
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Plant Pest Diagnostics Center
3294 Meadowview Road
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ENTOMOLOGY HIGHLIGHTS

SIGNIFICANT FINDS

There have been substantial numbers of fruit flies trapped in California during the year 2001. By year's end there had been 15 different eradication programs started for five different Tephritid fruitfly species. However, larvae (the actual indication of an infestation) were collected only once. While most of the fruitfly finds occurred after July, only those collections made prior to June 30 will be recorded in this issue of CPPDR. The other finds will be listed in the July - December issue.

MEDITERRANEAN FRUIT FLY, *Ceratitis capitata* -(A)- A single adult female Medfly was collected in Los Angeles County during this time period. See the chart on page 4 for more details. As of June 30, no Medfly infestation existed.

MEXICAN FRUIT FLY, *Anastrepha ludens* -(A)- Several specimens of this serious fruit fly pest have been trapped in California during the time covered by this report. See the chart on page 5 for more details. However, as of June 30, no infestations exist.

GUAVA FRUIT FLY, *Bactrocera correcta* -(A)- Several specimens of this serious fruit fly pest have been trapped in California during the time covered by this report. See the chart on page 4 for more details. As of June 30, no infestations existed.

ORIENTAL FRUIT FLY, *Bactrocera dorsalis* -(A)- Several specimens of this serious fruit fly pest have been trapped in California during the time covered by this report. See the chart on page 5 for more details. At this point, no established infestations were indicated.

OLIVE FRUIT FLY, *Bactrocera oleae* -(A)- This fly has been collected in many new counties this year. For a listing of trap catches, see the chart on page 5 - 6. For a distributional map of known counties infested with olive fruit fly see page 4.

GYPSY MOTH, *Lymantria dispar*, -(A)- One Gypsy moth was trapped during the period of this report. The data is listed on the chart on the next page. No indications of an infestation were found at that site. However, two spray treatment eradication programs were carried out this year due to significant finds last year in Novato, Marin County and Fallbrook, San Diego County.

Distribution of Olive Fruitfly in California as of June 30, 2001



Mediterranean Fruit Fly, *Anastrepha ludens*, -(A)- January - June, 2001 collections

County	City	Date	#M/F/Stage	Trap	Host	Collector(s)
Los Angeles	Los Angeles	06/21	1F	McPhail	Apricot	Ken Kietzer

Mexican Fruit Fly, *Anastrepha ludens*, -(A)- January-June, 2001 collections

County	City	Date	#M/F/Stage	Trap	Host	Collector(s)
Plumas	San Diego	06/21	1M	McPhail	Lemon	Sharma Hasse
Orange	Santa Ana	05/24	1M	McPhail	Loquat	Jaime Polanco
Orange	Stanton	05/24	1M	McPhail	Apricot	Cathy Harper

Guava Fruit Fly, *Bactrocera correcta*, -(A)- January-June, 2001 collections

County	City	Date	#M/F/Stage	Trap	Host	Collector(s)
Los Angeles	Echo Park	06/12	1M	Jackson	Loquat	Joaquin Carrera
Los Angeles	Los Angeles	06/15	1M	Jackson	Apricot	Richard Deluna
Los Angeles	Los Angeles	06/25	1M	Jackson	Jacaranda	Juan Moreno

Oriental Fruit Fly, *Bactrocera dorsalis* complex, -(A)- January-June, 2001 collections

County	City	Date	#M/F/Stage	Trap	Host	Collector(s)
Los Angeles	Los Angeles	01/10	1M	Jackson	Ornamental	Fayek Girgis
Los Angeles	Granada Hills	06/05	1M	Jackson	Orange	Nelson Dominguez
Los Angeles	Buena Park	06/06	1M	Jackson	Loquat	Angie Gaytan
Orange	Placentia	06/27	1M	McPhail	Apricot	Ana Marroquin
Orange	Placentia	06/25	2M	Jackson	Maple	Armando Casas
Orange	Westminister	06/27	1M	Jackson	Peach	Anna Gutierrez

Gypsy Moth, *Lymantria dispar* -(A)- January-June, 2001 collections

County	City	Date	#M/F/Stage	Trap	Host	Collector(s)
Madera	Oakhurst	06/05	1M	GM Trap	Oak	J. Whatley

Olive Fruit Fly, Bactrocera oleae, (A)- January - June, 2001 collections

County	City	Date	#M/F/Stage	Trap	Host	Collector(s)
Tulare	Ultra	02/28	2F 1M	GWSS	Olive	Esteban de la Cruz
San Mateo	Foster City	03/27	1F	McPhail	Olive	Steve McDonagh
Santa Clara	Saratoga	03/26	1F	McPhail	Orange	Leland Rand
Santa Clara	San Jose	03/28	1F	McPhail	Orange	A. Quintara
Kern	Bakersfield	04/18	1M	McPhail	Grapefruit	Virginia Shinn
Kern	Bakersfield	04/23	2M	McPhail	Grapefruit	Mary Moreno
Kern	Bakersfield	04/23	1F	McPhail	Grapefruit	Mary Moreno
Santa Clara	Saratoga	04/24	1M	McPhail	Loquat	Leland Rand
Tulare	Porterville	04/26	1F	McPhail	Olive	John Carter
Santa Clara	San Jose	05/09	1M	McPhail	Lemon	Linda Cervantez
Imperial	Fountain of Youth	05/10	1F	Champ	Grapefruit	Marcos Comage
Kings	Avenal	05/18	1M	Champ	Olive	Timmie Bressier
Kings	Avenal	05/18	1F	Champ	Olive	Timmie Bressier
Kings	Avenal	05/18	1M	Champ	Olive	Timmie Bressier
Kings	Avenal	05/18	1M	Champ	Olive	Timmie Bressier
Kings	Avenal	05/18	1M	Champ	Olive	Timmie Bressier
Kings	Avenal	05/18	1M	Champ	Olive	Timmie Bressier
Kings	Avenal	05/18	2F	Champ	Olive	Timmie Bressier
Kings	Avenal	05/18	2M	Champ	Olive	Timmie Bressier
Kings	Avenal	05/18	6M	Champ	Olive	Timmie Bressier
Kings	Avenal	05/18	3M	Champ	Olive	Timmie Bressier
Contra Costa	Antioch	05/31	1M	McPhail	Loquat	M. Slattergran
Santa Clara	San Jose	05/31	1F	McPhail	Loquat	M. Brady
Santa Clara	Saratoga	06/04	1M	McPhail	Loquat	Leland Rand
Santa Clara	Gilroy	06/04	1M	McPhail	Loquat	Cassandra Crawford
Contra Costa	Pleasant Hill	06/06	1M	McPhail	Grapefruit	Christine O'Boyle
Santa Clara	San Jose	06/06	4F	McPhail	Loquat	M. Brady
Tulare	Lindcove	06/07	1F	Champ	Loquat	John Carter
Kings	Avenal	06/08	2M	Champ	Olive	Timmie Bressier
Kings	Hanford	06/08	1M	Champ	Olive	Timmie Bressier
Fresno	Fresno	06/07	1F	Champ	Olive	Rice
Alameda	Fremont	06/12	1M	McPhail	Apricot	Gomez
Kern	Bakersfield	06/07	1F	Champ	Olive	Robinson
Tulare	Exeter	06/12	1M	Champ	Olive	Stewart
Kings	Avenal	06/08	3F	Champ	Olive	Timmie Bressier
Kings	Avenal	06/08	1M	Champ	Olive	Timmie Bressier
Kern	Bakersfield	06/08	1F	Champ	Olive	Robinson

Olive Fruit Fly, Bactrocera oleae,- (A)- January - June, 2001 collections

County	City	Date	#M/F/Stage	Trap	Host	Collector(s)
Kern	Bakersfield	06/18	1F	Champ	Olive	M. Robinson
Kern	Bakersfield	06/28	1F	Champ	Olive	M. Robinson
Santa Clara	San Jose	06/12	1F	McPhail	Plum	A. Quintana
Santa Clara	Saratoga	06/11	4M,7F	McPhail	Loquat	Leland Rand
Santa Clara	Morgan Hill	06/12	1M	McPhail	Loquat	R. Crawford
Santa Clara	San Jose	06/11	2M	McPhail	Loquat	Nancy L. Ruby
Merced	Merced	06/15	1(unspec)	Champ	Olive	Kamajit Bagri
Santa Clara	Saratoga	06/18	3(unspec)	McPhail	Loquat	Leland Rand
Santa Clara	Saratoga	06/19	2M	McPhail	Apricot	Leland Rand
Santa Clara	Morgan Hill	06/25	11(unspec)	McPhail	Apricot	C. Crawford
Santa Clara	San Jose	06/27	10(unspec)	McPhail	Loquat	M. Brady
Santa Clara	Los Gatos	06/24	1F	McPhail	Loquat	S. Schmidt
Monterey	Monterey	06/27	1M	McPhail	Loquat	Leslie Sutton
Santa Clara	Morgan Hill	06/19	1F	McPhail	Apricot	C. Crawford
Santa Clara	San Jose	06/27	2M	McPhail	Apricot	Juan Duran
Santa Clara	San Jose	06/21	1M	McPhail	Apricot	Cynthia Bauer
Fresno	Fresno	06/14	2F	Champ	Olive	R.E. Rice
Tulare	Strathmore	06/28	1F	Champ	Olive	J. Stewart
Glenn	Capay	06/25	1F	Champ	Olive	Lester Messina
Santa Clara	Morgan Hill	06/25	1F	McPhail	Plum	C. Crawford
San Bernardino	Colton	06/27	1M	McPhail	Apple	B. Swanson
Santa Clara	Morgan Hill	07/03	3M, 1F	McPhail	Apricot	C. Crawford
Santa Clara	Santa Clara	06/28	1M	McPhail	Plum	Paul Hoop
Santa Clara	San Jose	07/06	1M	McPhail	Plum	M. Brady

NEW STATE RECORDS

GREEN CONEHEADED PLANTHOPPER, *Acanalonia conica* -(Q) - This plant hopper has been found for the first time in California at Carmichael, **Sacramento** County, for a new state record. The collection was made by a homeowner who submitted it to a nearby commercial nursery, who in turn submitted it to the Agricultural Commissioner. The initial submission was on June 25, submitted through Ag Inspector Lisa Arbegast. Subsequent surveys of the area by Ag Inspector Ramona Saunder and others indicated that the hoppers were found on several adjacent properties, where the habitat was cool and moist with ample shade. Nymphs were collected from euonymus, pittosporum and alder. Adults were found commonly on alder, less commonly on roses and citrus.

A similar survey by CDFA Entomologist Dick Penrose found that the hopper was established on small willows along Arcade Creek about a mile west of the original location. A short time later a specimen was found in a private collection that had been collected in 1994, at a residential site about four miles to the south of the original find, again in a cool and shaded location. Dick Penrose has now re-collected the hopper from this site. Shortly after, yet another collection was made four miles east of the original find. The insect is apparently well established in the Carmichael area, and perhaps beyond.

The hopper belongs to a family of planthoppers called the Acanaloniidae, one of about 15 families of hoppers in the superfamily Fulgoroidea. However, some taxonomist specialists in that group feel that these hoppers actually should be included in the family Issidae, and the family Acanaloniidae should be dropped. The adult insect is about 8-12 mm long, with wings folded over the back. The color is light green, with a reddish or brown series of spots or a solid thin line along the outer (posterior) edge of the wings (see Figs. 1-2). This planthopper looks very similar to the introduced Australian torpedo bug (*Siphanta acuta*, family Flatidae), but that species differs because the upper posterior corner of the wings, when at rest over the body, have a very decided upward directed angle (see Fig. 3). The nymphs of *A. conica* are mottled brown with a very distinctive hump-backed appearance (see Fig. 4). There are 16 species of Acanaloniid planthoppers in the U.S. Several are eastern. Two others are apparently native to California and there are a number of species in Arizona, *A. mollicula* common in Imperial County north to Kern County and *A. grandicella* known from Imperial to Inyo Counties (see Figs. 11 & 12). These two species differ from *conica* because the face is flat in lateral view, but conically projected forward in *conica*.

A. conica is native to the southeastern part of the United States, from Florida west to Texas and north to Ohio and Indiana. It is primarily an arboreal species, and is considered only as a minor, sporadic pest of forests. It has only one generation per year, which may explain its non-pest status. Its potential in California is unknown at this time. Wilson and McPherson (1981) have published on the life history in the Ann. Entomol. Soc. Amer. 74 (3): 289-298.

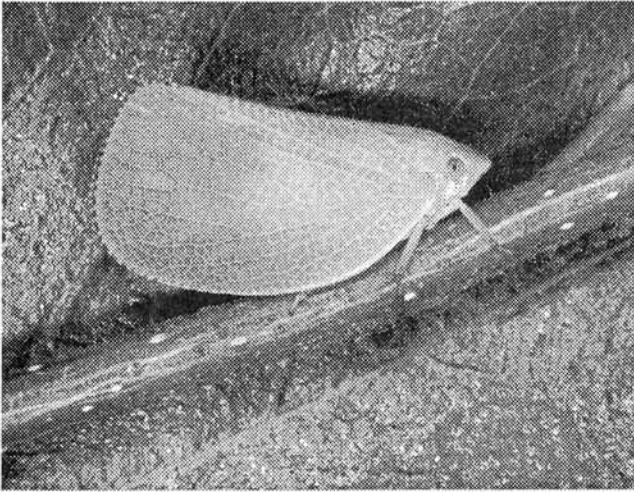


Fig. 1: Adult of the green coneheaded planthopper, *Acanalonia conica*.

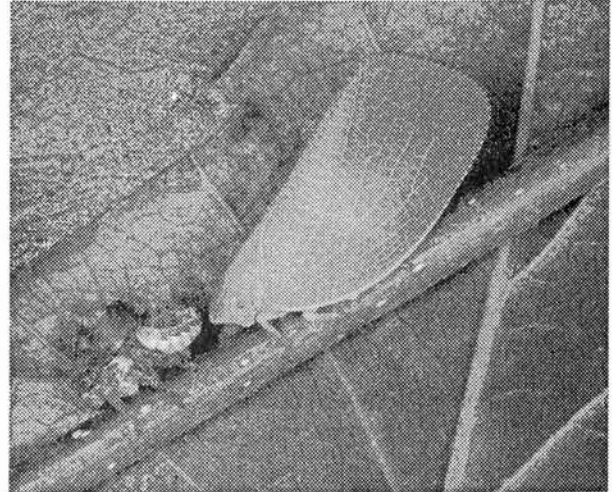


Fig. 2: Adult and nymph of *Acanalonia conica*

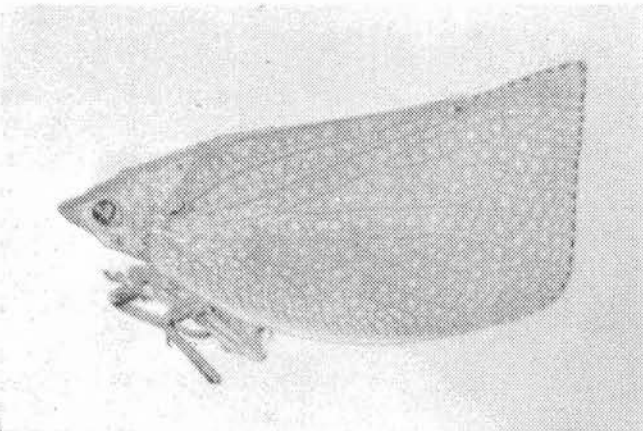


Fig. 3: Adult of the Torpedo bug *Siphanta acuta*

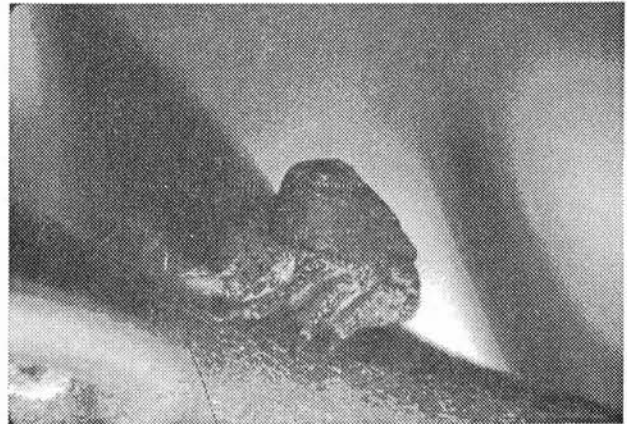


Fig. 4: Nymph of *Acanalonia conica*

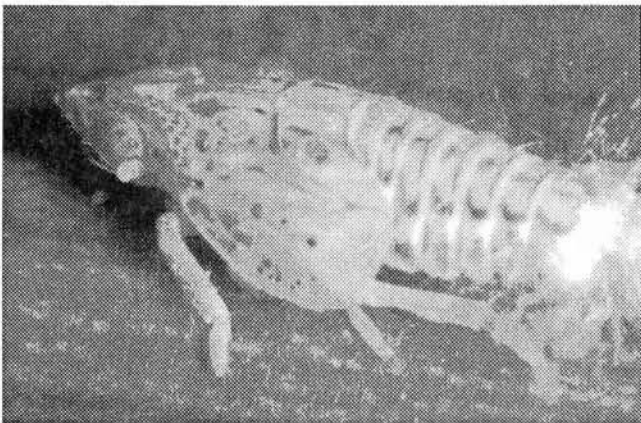


Fig. 5: Nymph of Torpedo bug

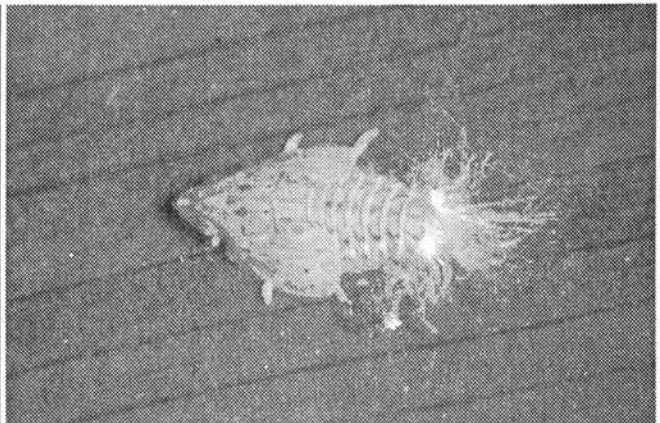


Fig. 6: Nymph of Torpedo bug

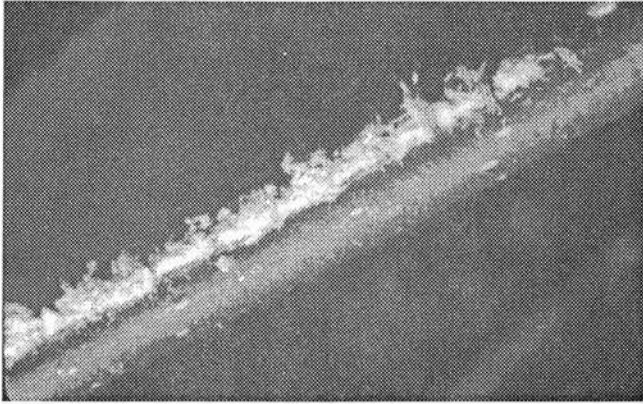


Fig. 7: Sideview of oviposition site of *Acanalonia conica* showing damage to twig.

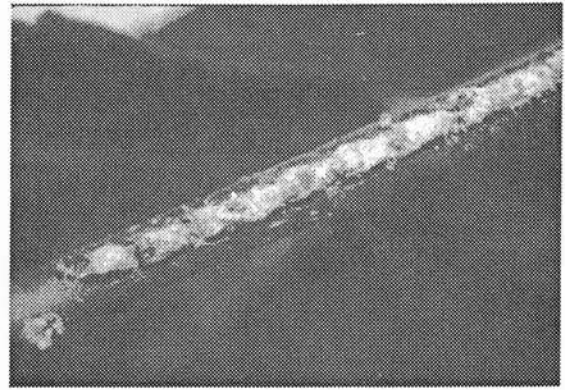


Fig. 8: Top view of oviposition site of *Acanalonia conica*.

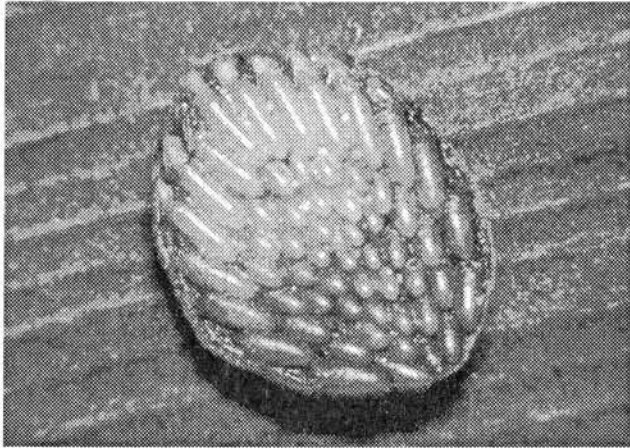


Fig. 9: Egg mass of Torpedo bug

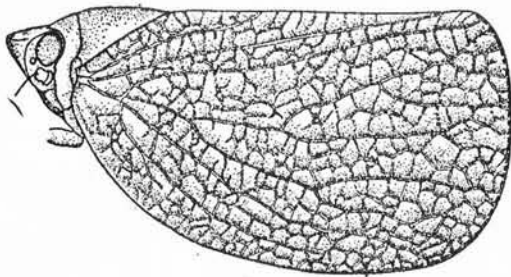


Fig. 10

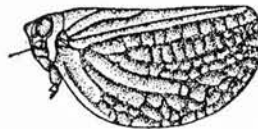


Fig. 11

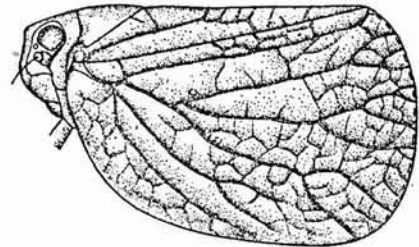


Fig. 12

Figures 10 - 12 : Lateral views of *Acanalonia* species for comparison of morphology. Fig. 10: *Acanalonia conica*; Fig. 11: *Acanalonia mollicula*; Fig. 12: *Acanalonia grandicella*.

NEW STATE RECORDS, continued

INDIAN WALKING STICK, *Carausius morosus* - (Q)- Established populations of this insect were found in two areas of a neighborhood in La Jolla, **San Diego** County, for a new state record. The first collection was made by County Entomologist David Kellum on June 6. Further delimitation found it several blocks away at another location. See the distribution map on page 11. Apparently, the infestations arose from some specimens which were released into the yards of several boys who had raised them as pets. Over 40 properties have been found infested in La Jolla.

These interesting insects, kin to the grasshoppers and mantids, belong to the Orthoptera family Phasmidae, although some scientists place them in their own order, Phasmida. This particular species is one that has moved around the country, including California, via the pet industry and in particular has been moved about by teachers in local schools. The insects are being used by teachers to stimulate student interest in biology. Unfortunately, students are apparently taking them home and releasing them into the wild.

As the name implies, this species is native to the Indian subcontinent. Adult specimens range from 2.5 to 3.5 inches in length. One of the distinguishing features of this species is the thin, reddish area of the base of the forelegs (see Fig. 14). The populations in the US are apparently parthenogenetic, although males are known from other locations. The color is usually green or greenish-brown. They apparently will drop to the ground if disturbed, and are, as a rule, night feeders. So often the only indication of their presence is the feeding damage, the removal of large amounts of leaf material. Favored hosts seem to be privet, ivy, hawthorne, blackberries, pyracantha and roses. The San Diego populations were primarily on ivy, and they are causing a considerable amount of damage. There are a number of other species of walking sticks that are being raised for the pet trade. There are also a number of websites devoted specifically to the rearing of these creatures, and to testimonials to the pleasures and benefits of having colonies of them in captivity.



Fig 13:

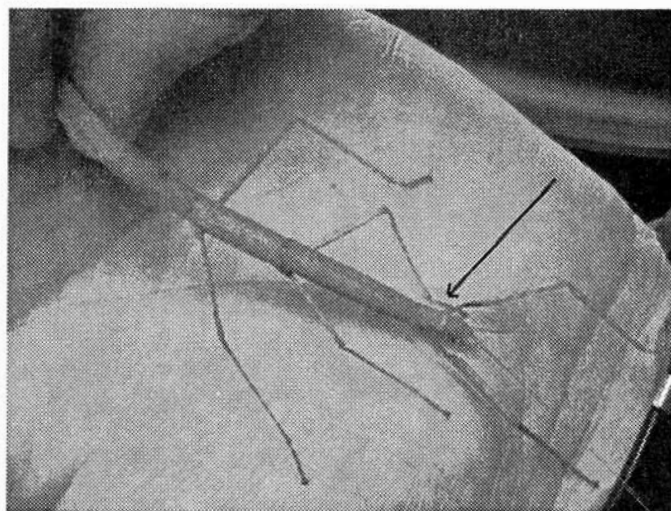
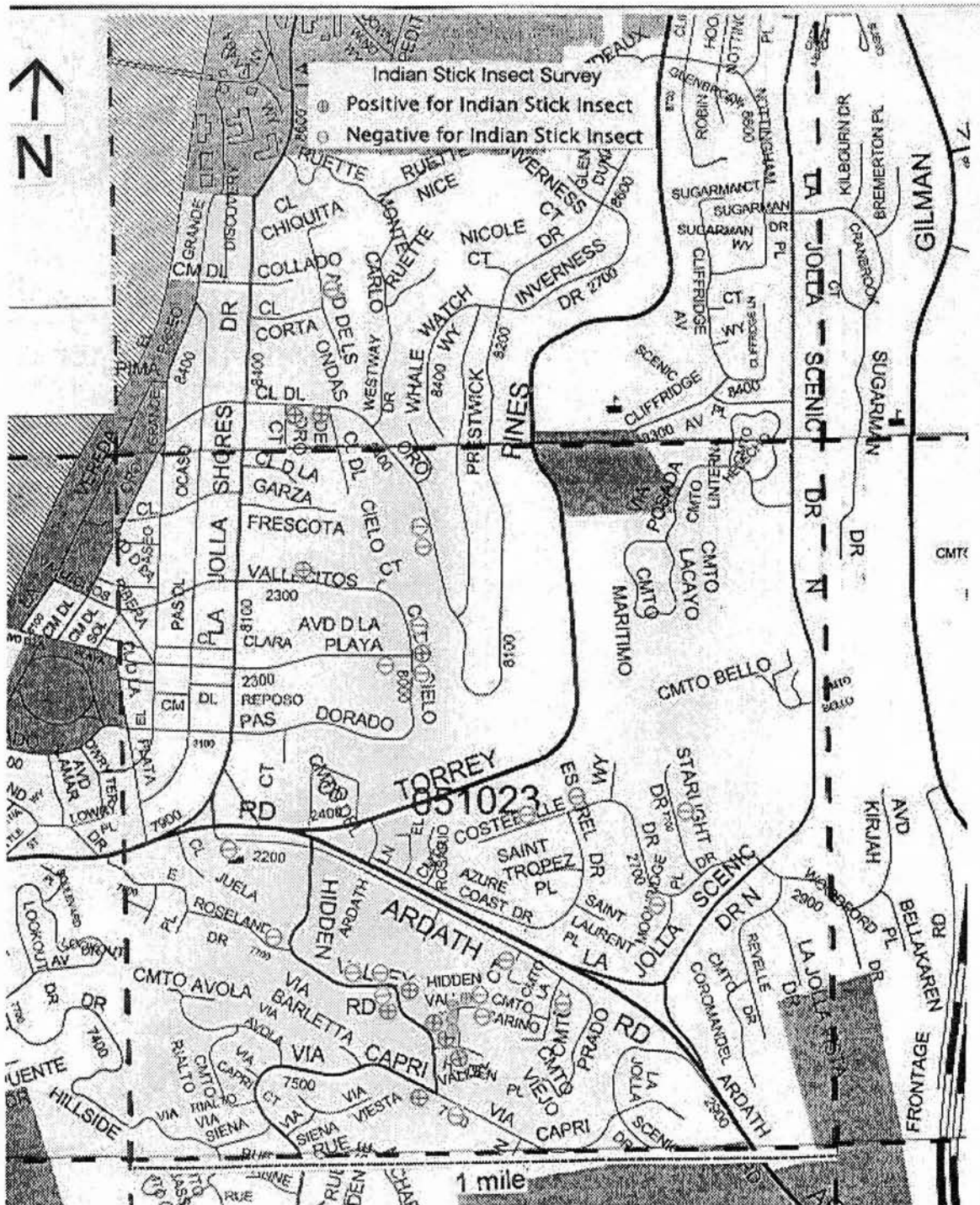


Fig 14:

Distribution of Indian Walking Stick in California as of June 30, 2001



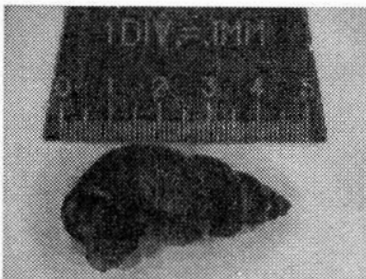
NEW STATE RECORDS, continued

NEW ZEALAND MUD SNAIL, *Potamopyrgus antipodarum* -(Q). This snail has been introduced into the United States at an earlier date. It has now been found in California for the first time, however. Personnel associated with the California Department of Fish and Game have reported that they have found this new snail in the Owens River, near Mammoth Lakes, **Mono** County. The find was made sometime in early March. The infestation occurs in the Owens River from its confluence with Hot Creek downstream to Lake Crowley. Reports are that the river bottom is literally paved with the tiny snails. They range from the size of a grain of sand to only about 1/8th of an inch in length.

The snail is apparently a detritus feeder. It is able to withstand harsh environmental conditions, and apparently can easily survive the digestive systems of fish. It is being spread by fishing equipment, especially in the boot treads of fishing waders.

The infested area of the Owens River is a favored spot for fly fishermen, and this may be the pathway for its entry into the state. It is currently known from the Snake River in Idaho, Lake Ontario on the US/ Canadian border, the Columbia River mouth, the Yellowstone River, and the Gardner River in Montana. Impact on Owens River water quality, fishing quality and other factors are unknown at this time. It is under investigation by the Department of Fish and Game.

A.



B.

C.

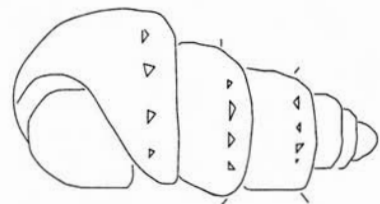


Fig. 13: (A) Adult New Zealand mud snails sized against a common U.S. coin, and (B) against a millimeter ruler and (C) outline of a mud snail indicating locations of small, razor-like projections.

NEW COUNTY RECORDS

SPOTTED GUM LERP PSYLLID, *Eucalyptolyma maideni*-(Q)- This lerp-forming psyllid from Australia has been found for the first time in **Ventura** County. The collection was made at Port Hueneme on April 4, 2001 by Dick Penrose. The host was the spotted gum, *Eucalyptus maculata*. This psyllid was first found in Los Angeles County, and later in Orange County, last year. Like the red gum lerp psyllid, this species is building up large amounts of honeydew. However, the two infested eucalyptus species, spotted gum and lemon gum *Eucalyptus maculata* and *Eucalyptus citriodora*, are planted less commonly. For more information on this psyllid see CPPDR 19(3-6):26-27 June -December 2000.

GIANT WHITEFLY, *Aleurodicus dugesii*-(C)- This whitefly has been established in California since 1992. For more information see CPPDR Oct-Dec 11 (5-6):78-81. This whitefly has now been found in **Imperial** County at Calexico. The collection was made on January 25 from guava by collectors Arellano and Hernandez. This brings to six the number of infested counties included in order and year of their first records: San Diego (1992), Orange (1995), Los Angeles (1995), Santa Barbara (1997), and Ventura (1998). This whitefly may become established in other counties, since it has been intercepted a number of times this summer on nursery stock moving out of southern California. It has become a very troublesome pest, with heavy populations and copious amounts of white wax on the leaves, especially on hibiscus and citrus.

HAKEA PSYLLID, *Acizzia hakea* -Q- This psyllid was first found in the state in Santa Barbara County in May 8, 2000. For information on this find see CPPDR, June -December 19 (3-6): 27-8. The Santa Barbara collection was a new North American record for this Australian insect. The first find was from the plant she-oak (*Grevillea*) in the family Proteaceae. It has now been found for the first time in two other countries, this time on *Hakea* plants, also in the Proteaceae. It has also been collected from *Hakea* in Santa Barbara County, besides the original find on *Grevillea*. New finds include Port Hueneme, **Ventura** County and Redondo Beach, and **Los Angeles** County. The Ventura County collection was made by CDFG Detection Entomologist Dick Penrose on April 5; the Los Angeles collections were made by Los Angeles County Biologist Conrad Burtoa, both in series at Redondo Beach on March 12 and at Torrance on March 28. All collections since the original find on *Grevillea* at Santa Barbara have been on *Hakea*, particularly on *Hakea suaveolens*. At this point in time there is no indication of serious damage to the infested plants.

EUCALYPTUS PSYLLID, *Ctenarytaina spatulata*-(Q)- This psyllid has been established in California for a number of years. It is considered by Nick Nisson, Orange County Entomologist, as the most common species of eucalyptus infesting psyllid in that county. It does not, however, appear to cause as much damage to the trees as blue gum or red gum lerp psyllids. It has now been found for the first time in **Santa Barbara** County. The collection was made at Goleta on April 12 by M. Rajala from *Eucalyptus camaldulensis*.

INDIAN WALKING STICK, *Carausius morosus* -(Q)- This walking stick has recently been found established in California. See the article on the new state record for this insect on page 11. Besides the first find in **San Diego**, the insect has now been found in Arroyo, **San Luis Obispo** County. The collection was made County Ag. Biologist Christine Linne on June 29. Specimens could be found all over the yard on the one property.

REDGUM LERP PSYLLID, *Glycaspis brimblecombei* -Q- With the fine of this psyllid in **Humboldt** County by Baldo Villegas, it probably occurs in all California counties where *Eucalyptus* will survive, with the possible exception of Del Norte County. See the distribution map on page 15 as of September.

NEW COUNTY RECORDS, continued

Current Distribution of the
Red Gum Lerp Psyllid in California
As of Sept. 25 2001



EXCLUSION

GREEN SCALE, *Coccus viridis* -(A)- This soft scale was collected from a nursery in Orange, Orange County on June 19. The collection was made on *Dizygotheca* plants by County Ag Inspector James Wynn.

The following pages 17 to 20 indicate a few of the many quarantine interceptions made during the year. The pest species selected for listing were chosen to indicate to quarantine officials and inspectors the kinds of pests that are currently being intercepted in quarantine shipments around the state.

SMALL HIVE BEETLE, *Aethina tumida* -(Q)- This beetle, a sap beetle in the family Nitidulidae, was intercepted in beehives arriving from eastern locations. The collection was made by Merced County Ag Inspectors Fred Michaelis and Sean Runyon on March 1. Three specimens were collected. The hives were owned by a Florida-based firm; but, the hives had been in both Maine and South Dakota prior to shipment to California.

The genus *Aethina* contains about 30 species, the majority of which are African and Asian. About four or five species are endemic to the Western Hemisphere, ranging from Mexico to Central and South America. The small hive beetle is native to Africa. During 1998, Florida's first year of infestation, beekeepers lost over 40,000 hives. Last year, those losses were nearly zero. While beekeepers are managing the problem it is still reported to be a problem in honey houses. For more information on this beetle see CPPDR, 17(1-3):20, 1998

Important "A", "B", and "Q" Rated Arthropods and Mollusks Intercepted in Quarantine
January 2001 through July 2001

Rating	Species	Common Name	Date	Origin	County	Host	Collector(s)
Q	<i>Aulacapis yasumatsui</i>	cyad aulacaspis scale	07/24/01	Florida	RIV	<i>Cycas revoluta</i>	Domenigoni
Q	<i>Planococcus minor</i>	Pacific mealybug	07/12/01	Thailand	LAX	<i>Litchi chinensis</i>	Sium
A	<i>Pseudococcus cryptus</i>	a mealybug	07/12/01	Thailand	LAX	<i>Litchi chinensis</i>	Sium
A	<i>Rhizotrogus majalis</i>	European chafer	07/05/01	Kentucky	ALA	aircraft	Murray
A	<i>Rhizotrogus majalis</i>	European chafer	07/12/01	Iowa	ALA	aircraft	Roxby
A	<i>Thrips florum</i>	a flower thrips	06/28/01	Hawaii	ORA	flower leis	Nestor
A	<i>Thrips florum</i>	a flower thrips	06/29/01	Hawaii	MEN	tropical foliage	Linegar
Q	<i>Thrips orientalis</i>	a thrips	06/28/01	Hawaii	ORA	flower leis	Nestor
Q	<i>Thrips orientalis</i>	a thrips	06/29/01	Hawaii	MEN	tropical foliage	Linegar
A	<i>Anomala foraminosa</i>	a scarab beetle	07/17/01	Kentucky	SAC	aircraft	Weiner
Q	<i>Euphyes arpa</i>	apra skipper	07/13/01	Mexico	SDG	Tepe palm	Fritz
Q	<i>Prosapia sp.</i>	a spittlebug	07/03/01	Tennessee	SDG	aircraft	Chavez
A	<i>Rhizotrogus sp.</i>	European chafer	07/06/01	Indiana	ALA	aircraft	Shankar
Q	<i>Dyscinetus sp.</i>	a scarab beetle	06/28/01	Tennessee	ALA	aircraft	Shanker
Q	<i>Hyles sp.</i>	a sphinx moth	06/28/01	Hawaii	LAX	basil	Carrillo
Q	<i>Hypothenemus eruditus</i>	a bark beetle	06/29/01	Florida	SMT	<i>Polyscias fruticosa</i>	Eide
Q	<i>Xylophanes tersa</i>	a sphinx moth	06/26/01	Tennessee	SDG	cargo aircraft	Chavez
Q	<i>Colobopsis sp.</i>	an ant	07/04/01	Mexico	RIV	trailer	Chrisia
Q	<i>Kuwaniaspis howardi</i>	a bamboo armored scale	05/21/01	Florida	ORA	<i>Phyllostachys nuda</i>	Barnes
Q	<i>Pseudococcus jackbeardsleyi</i>	a mealybug	05/23/01	Costa Rica	SJO	<i>Croton petra</i>	Ripon
Q	<i>Pseudococcus odermatti</i>	a mealybug	06/25/01	Florida	SMT	<i>Eugenia sp.</i>	Bide
Q	<i>Bostrychoplites cornutus</i>	a false powderpost beetle	06/22/01	unknown	TUO	wooden statue	Chambers
Q	<i>Dyscinetus sp.</i>	a scarab beetle	06/16/01	Tennessee	SDG	cargo aircraft	Jones
Q	<i>Dyscinetus sp.</i>	a scarab beetle	06/15/01	Indiana	ALA	aircraft	Anand
Q	<i>Xylosandrus compactus</i>	a bark beetle	06/20/01	Hawaii	SBA	bamboo	Davis
Q	<i>Cyrphomyrmex sp.</i>	an ant	06/05/01	Costa Rica	LAX	<i>Dracaena marginata</i>	Zayala
Q	<i>Xylosandrus compactus</i>	a bark beetle	06/20/01	Hawaii	SBA	bamboo	Bryant
Q	<i>Wasmannia auropunctata</i>	an ant	06/14/01	Florida	LAX	<i>Litchee chinensis</i>	Carrillo
Q	<i>Cyrphomyrmex sp.</i>	an ant	06/05/01	Costa Rica	LAX	<i>Dracaena marginata</i>	Zayala
Q	<i>Dyscinetus sp.</i>	a scarab beetle	06/03/01	Tennessee	SDG	cargo aircraft	Funk
Q	<i>Dialeurodes kirkaldyi</i>	Kirkaldy's whitefly	06/06/01	Virginia	IMP	jasmine	Granger

Important "A", "B", and "Q" Rated Arthropods and Mollusks Intercepted in Quarantine
January 2001 through June 2001

Rating	Species	Common Name	Date	Origin	County	Host	Collector(s)
Q	<i>Merothrips</i> sp.	a thrips	06/06/01	Ohio	SON	gardenia	Sebastopol
A	<i>Diaprepes abbreviatus</i>	a weevil	04/17/01	Florida	ORA	trailer	Mays
Q	<i>Scirtothrips dorsalis</i>	a thrips	06/04/01	New York	TUL	khat	Sihota
Q	<i>Hemiberlesia ocellata</i>	an armored scale	05/30/01	Ecuador	LAX	<i>Musa</i> sp.	Lugo
Q	<i>Podisus</i> sp.	a stinkbug	05/18/01	Florida	SAC	black olive	Bianchi
Q	<i>Trioxa</i> sp.	a psyllid	05/23/01	Hawaii	SON	cut foliage on lei	Ramey
A	<i>Diaprepes abbreviatus</i>	a weevil	05/18/01	Florida	SAC	black olive trees	Bianchi
Q	<i>Milviscutulus mangiferae</i>	mango shield scale	05/11/01	Hawaii	SMT	<i>Cordyline terminalis</i>	Russo
A	<i>Spodoptera latifascia</i>	an armyworm	04/04/01	Florida	SLO	Lychee	Taylor
A	<i>Ceroplastes ceriferus</i>	Indian wax scale	04/06/01	Florida	SDG	fern-"nagi"	Desserica
A	<i>Coccus viridis</i>	green scale	04/06/01	Florida	ORA	elegantissima	Kinsella
Q	<i>Empoasca</i> sp.	a leafhopper	04/25/01	Hawaii	SMT	herbs	Hanks
Q	<i>Empoasca stevensi</i>	a leafhopper	04/11/01	Costa Rica	SLO	<i>Dracaena marginata</i>	Hosse
A	<i>Morganella longispina</i>	plumose scale	04/24/01	Florida	ORA	<i>Ficus benjamina</i>	Wynn
A	<i>Hemiberlesia palmar</i>	tropical palm scale	04/30/01	Texas	SAC	floral greens	Parminder
A	<i>Hemiberlesia palmar</i>	tropical palm scale	03/06/01	Florida	SMT	<i>Neoreglia</i> sp.	Eide
Q	<i>Aulacaspis tubercularis</i>	an armored scale	03/30/01	Puerto Rico	LBC	mango	Nichols
A	<i>Unaspis citri</i>	citrus snow scale	03/21/01	Florida	SBD	tangerine	Gresick
A	<i>Ceroplastes rusci</i>	fig wax scale	03/21/01	Florida	SJQ	<i>Racenea ricularis</i>	Dinardi
Q	<i>Pseudococcus jackbeardsleyi</i>	a mealybug	03/22/01	Costa Rica	SLO	<i>Dracaena marginata</i>	Stamand
Q	<i>Pseudococcus landoi</i>	a mealybug	03/22/01	Costa Rica	SJQ	<i>Dracaena marginata</i>	Curtoni
Q	<i>Phylloxera</i> sp.	an oak phylloxera aphid	09/25/01	Alabama	SBD	oak leaf debris	Derichsweile
Q	<i>Aleurocerus palmar</i>	palm whitefly	03/07/01	Florida	SHA	palm	Martyn
Q	<i>Aethina tumida</i>	a small hive beetle	02/28/01	?	MER	beehives	Ranyon
Q	<i>Curtomerus flavus</i>	a longhorned beetle	03/03/01	Hawaii	SMT	?	Loux
Q	<i>Euxoa</i> sp.	a cutworm	03/05/01	?	ELD	red pepper	Taylor
B	<i>Opeas</i> sp.	a snail	03/08/01	Florida	SDG	<i>Spathyphyllum</i> sp.	Terhall
Q	<i>Orchidophilus</i> sp.	a weevil	03/07/01	Hawaii	SDG	dendrobium flowers	Olvares
Q	<i>Plautia stali</i>	Oriental stink bug	03/25/01	Hawaii	SMT	<i>Ocimum basilicum</i>	Eide
Q	<i>Xylosandrus compactus</i>	a bark beetle	03/22/01	Hawaii	LAX	bamboo canes	Burton
B	<i>Apterona helix</i>	garden bagworm	03/07/01	Vermont	SBD	truck w/ machinery	Estrada
Q	<i>Odontomachus</i> sp.	an ant	09/15/01	Florida	SBD	rental truck	Daniels

<u>Rating</u>	<u>Species</u>	<u>Common Name</u>	<u>Date</u>	<u>Origin</u>	<u>County</u>	<u>Host</u>	<u>Collector(s)</u>
A	<i>Diastriphium radicum</i>	raspberry root gall wasp	03/05/01	Arkansas	SHA	raspberry	Martyn
Q	<i>Dyscinetus</i> sp.	a scarab beetle	02/26/01	Colombia	SAC	camarnation-box	?
Q	<i>Micrapate</i> sp.	a false powder post beetle	02/22/01	Peru	LAX	tiles w/ wooden cartes	Anaya
Q	<i>Odontomachus</i> sp.	an ant	01/29/01	Florida	SCL	Ficus benjamina	Fairbanks
Q	<i>Orchidophilus</i> sp.	a weevil	02/03/01	Hawaii	SMT	cut flowers	Torino
Q	<i>Ponera</i> sp.	an ant	01/30/01	Florida	SCL	Ficus benjamina	Fairbanks
Q	<i>Sybra alternans</i>	a longhorn beetle	02/03/01	Hawaii	SMT	malunggai leaves	Rodriguez
A	<i>Anomala orientalis</i>	Oridental beetle	02/27/01	Florida	SBD	potatoes	Christy
A	<i>Ceratitis capitata</i>	Mediterranean fruit fly	01/31/01	New York	SBD	Clementine oranges	Florence
A	<i>Ceratitis capitata</i>	Mediterranean fruit fly	01/31/01	New York	SBD	Clementine oranges	McCullough
A	<i>Ceratitis capitata</i>	Mediterranean fruit fly	12/22/00	Utah	SBD	Clementine oranges	Gresick
Q	<i>Colophora</i> sp.	a casebearing moth	?	Arizona	SBD	old vehicle	Meyer
B	<i>Phytomyza ilicis</i>	holly leafminer	01/30/01	British Columbia	SIS	holly leaves	Martinez
A	<i>Clawaspis herculeana</i>	herculeana scale	03/08/01	Hawaii	ORA	<i>Plumeria</i> sp.	Nestor
Q	<i>Helicoverpa</i> sp.	a noctuid moth	04/17/01	Hawaii	LAX	<i>Ocimum basilicum</i>	Carillo
Q	<i>Kallitaxila granulata</i>	a planthopper	03/19/01	Hawaii	LAX	basil/betel leaves	Carillo
B	<i>Nezara viridula</i>	southern green stink bug	03/19/01	Hawaii	LAX	basil/betel leaves	Carillo
Q	<i>Pteromalus</i> sp.	a pteromalid wasp	03/02/01	Massachusetts	SBA	<i>Fraxinus</i> sp.	Davis
Q	<i>Dialeurodes</i> sp.	a whitefly	03/12/01	Florida	SCL	<i>Schefflera arboricola</i> var	Barrera
Q	<i>Dysmicoccus hurdi</i>	a mealybug	03/23/01	?	RIV	<i>Hedera & Lantana</i>	Martin
Q	<i>Paraleurodes</i> sp.	a whitefly	03/22/01	Hawaii	LAX	betle leaf	Ruse
Q	<i>Sybra alternans</i>	a longhorned beetle	03/19/01	Hawaii	LAX	doky leaves	Farm
A	<i>Cathartus quadricollis</i>	squarenecked grain beetle	08/11/99	Tennessee	SBD	trailer	Calvery
Q	<i>Bucculatrix</i> sp.	a ribbed cocoon maker	12/28/00	Maine	LAX	<i>Abies balsamea</i>	Lancaster
Q	<i>Bucculatrix</i> sp.	a ribbed cocoon maker	12/28/00	Maine	LAX	<i>Abies balsamea</i>	Baker
Q	<i>Glyphodes</i> sp.	a crambine pyralid moth	09/20/00	?	SDG	avocado tree	Martinez
Q	<i>Protambulyx strigilis</i>	a sphinx moth	12/06/00	Florida	SCL	Norfolk Island pine	Williams
Q	<i>Xylosandrus crassiusculus</i>	an ambrosia beetle	01/03/01	Hawaii	LAX	cut flowers	Carrillo
Q	<i>Dysmicoccus boninsis</i>	sugarcane mealybug	01/30/01	Florida	LAX	sugarcane	Castillo
A	<i>Ceroplastes floridensis</i>	Florida wax scale	01/31/01	Florida	SCL	<i>Ficus benjamina</i>	Fairbanks
A	<i>Ceroplastes rubens</i>	red wax scale	05/13/00	Hawaii	MNT	cut flowers	Hilber
A	<i>Ceroplastes rubens</i>	red wax scale	02/13/01	Florida	SMT	<i>Schefflera arboricola</i>	Eide
A	<i>Ceroplastes rusci</i>	fig wax scale	07/13/01	Florida	LAX	<i>Dyptis lutescens</i>	Wegener

Rating	Species	Common Name	Date	Origin	County	Host	Collector(s)
Q	<i>Cryptotermes brevis</i>	powderpost termite	05/16/00	Hawaii	LAX	cut flowers	Carrillo
Q	<i>Cryptotermes brevis</i>	powderpost termite	?	Hawaii	LAX	lalot	Carrillo
Q	<i>Dasineura mali</i>	apple leaf gall midge	07/13/00	New Zealand	LAX	<i>Malus</i> sp.	Huerta
Q	<i>Dipropus</i> sp.	an elaterid beetle	07/24/00	Florida	LAX	<i>Euphoria longan</i>	Carrillo
Q	<i>Philephedra</i> sp.	a soft scale	06/12/00	Colombia	SLO	<i>Alpinia purpurata</i>	Focha
Q	<i>Pseudaonidia trilobitiformis</i>	trilobe scale	02/13/01	Florida	SMT	?	Eide
Q	<i>Pseudaulacaspis major</i>	lychee bark scale	06/15/00	Florida	ORA	<i>Litchi chinensis</i>	Fernandez
Q	<i>Uroleucon</i> sp.	an aphid	06/15/00	Equador	SLO	<i>Helianthus annuus</i>	Focha
Q	<i>Pseudococcus jackbeardsleyi</i>	a mealybug	01/10/01	Costa Rica	SJO	<i>Dracaena marginata</i>	Dinardi
Q	<i>Pseudococcus landoi</i>	a mealybug	01/19/01	Ecuador	SMT	<i>Zingiber</i> sp.	Joo
A	<i>Pseudoparlatoria parlatorioides</i>	false parlatoria scale	01/22/01	South America	SMT	areca palm	Bradbury
Q	<i>Pseudococcus lycopodii</i>	club moss mealybug	12/28/00	Hawaii	LAX	cut flowers	Ruse

PLANT PATHOLOGY HIGHLIGHTS

SIGNIFICANT FINDS

SUDDEN OAK DEATH, *Phytophthora ramorum* - (Q)- Infestations of this serious disease (SOD) of oaks continue to be found in new locations and on new hosts. The map on the next page shows the known distribution of SOD as of June 30, 2001. The disease has been found on a number of other native and introduced hosts in the area where it has killed a number of oak trees. This includes *Rhododendron macrophyllum*, Manzanita (*Arctostaphylos*), California huckleberry (*Vaccinium ovatum*), madrone (*Arbutus menziesii*), California bay laurel (*Umbellularia californica*), California buckeye (*Aesculus californica*), and big leaf maple (*Acer macrophyllum*). The hosts other than oak are often not killed by the fungus, but are may or may not be symptomatic and probably serve as a source of inoculum to other, non-infected oaks.

EXCLUSION

DAYLILY RUST, *Puccinia hemerocallidis* - (Q)- This federally actionable fungal pest of daylilies has been intercepted in California nurseries on shipments originating in Florida. Collections were made in Fallbrook, **San Diego** County by Ag. Inspector Jim Lawrence; at Carson, **Los Angeles** County by Ag. Inspector Burton; and at Long Beach, Los Angeles County by CDFA Plant Pathologist Magally Luque-Williams. As a result of the finds, 51,000 plants were destroyed at the Fallbrook location, and 2500 plants were destroyed at the Los Angeles locations.

Daylilies infected with *Puccinia hemerocallidis* have now been confirmed from nine states (AL, CA, FL, GA, LA, MN, MS, SC, TN). At least 10-15 susceptible daylily varieties have been found. The distribution of *P. hemerocallidis* is widespread and hobbyist movement of infected daylilies is difficult to restrict.

The rust occurs in Costa Rica, where daylilies have been shipped from Florida for propagation for at least 10 years. The daylilies are then shipped back to the U.S., usually to nurseries in Florida which in turn, distribute them to other states, like California. Much of this daylily material has the leaves removed before shipping, increasing the difficulty of detecting *P. hemerocallidis* on the plants. Costa Rica would welcome technology transfer assistance from APHIS in controlling *P. hemerocallidis*, because they lose money when infected shipments are returned or destroyed. Other Latin American daylily growers such as Guatemala could also possibly be assisted.

PLANT PATHOLOGY HIGHLIGHTS

Current distribution of confirmed SOD

As of June 30, 2001

