

PINK BOLLWORM PROGRAM
SILVERLEAF WHITEFLY REPORT
FOR THE SAN JOAQUIN VALLEY

4th Report

2003



SILVERLEAF WHITEFLY REPORT - No. 4
Sampling Period: 9/02/03 - 9/11/03
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Kern County:

One hundred percent of the 89 sample sites were surveyed. Seventy of the sites sampled (78.7%) were positive for silverleaf whitefly, forty-nine of the sites (55.1%) were positive for aphids, and sixteen sites (18.0%) had leaves with honeydew. Thirty-six of the positive sites (51.4%) had leaves in the 1 - 5 nymphs/leaf range only, while twenty-seven sites (38.6%) had leaves in the 6 - 49 nymphs/leaf range, and seven sites (10.0%) had leaves in the 50 or more nymphs/leaf range. Mites were found at thirty-seven sites (41.6%), armyworm at five sites (5.6%), and four sites (4.5%) had leaves with other whitefly species. Nine sites (10.1%) had leaves with sooty mold.

Kings County:

One fifteen percent of the 72 sample sites were surveyed. Five of the sites sampled (45.5%) were positive for Silverleaf whitefly, one site (9.1%) was positive for aphids, and one site (9.1%) had leaves with honeydew. All five of the positive sites (100%) had leaves in the 1 - 5 nymphs/leaf range only. Three sites (27.3%) had leaves infested with mites, one site (9.1%) had armyworm, and one site (9.1%) had other whitefly species present. None of the sites had any leaves with sooty mold.

Tulare County:

One hundred percent of the 57 sample sites were surveyed. Fifty-three sites (93.0%) were positive for SLWF, twenty-eight sites (49.1%) were positive for aphids, and twenty-three sites (40.4%) had leaves with honeydew. Twenty-eight of the positive sites (52.8%) had leaves in the 1 - 5 nymphs/leaf range only, twenty-two sites (41.5%) had leaves in the 6 - 49 nymphs/leaf range, and three sites (5.7%) had leaves in the 50 or more nymphs/leaf range. There were nine sites (15.8%) infested with mites, three sites (5.3%) with other whitefly species present, while none of the sites had armyworm. Twenty-three sites (40.4%) had leaves with sooty mold.

Fresno County:

Samples were submitted from one hundred percent of the 125 sample sites. Fifty sites (40.0%) were positive for SLWF, forty sites (32.8%) were positive for aphids, and thirty sites (24.0%) had leaves with honeydew. Thirty-eight of the positive sites (76.0%) had leaves in the 1 - 5 nymphs/leaf range only, while ten positive sites (20.0%) had leaves in the 6 - 49 nymphs/leaf range, and two positive sites (4.0%) had leaves in the fifty or more nymphs/leaf range. Fifty-two sites (41.6%) had leaves infested with mites, five sites (4.0%) had armyworm, and six sites (4.8%) had other whitefly species present. Four sites (3.2%) had leaves with sooty mold.

Madera County:

Samples were submitted from one hundred percent of the 13 sample sites. Only one site (7.7%) was positive for SLWF, seven sites (53.8%) were positive for aphids, and four of the sites (30.8%) had leaves with honeydew. The one positive site had leaves in the 1 - 5 nymphs/leaf range only. Three of the sites (23.1%) were infested with mites, three sites (23.1%) had other whitefly species present and one site (7.7%) had armyworm. None of the sites had any leaves with sooty mold.

Merced County:

Samples were submitted from one hundred percent of the 29 sample sites. Two of the sites (6.9%) were positive for SLWF, twelve sites (41.4%) were positive for aphids, and eight sites (27.6%) had leaves with honeydew. Both of the positive sites had leaves in the 1 - 5 nymphs/leaf range only. Eight sites (27.6%) had leaves infested with mites, none of the sites had armyworm, and eight sites (27.6%) had other whitefly species present. One of the sites (3.4%) had leaves with sooty mold.

Comments:

Overall, the number of sample sites positive for SLWF increased throughout the San Joaquin Valley by 12%. The number of sites having leaves with honeydew was up by 5%. Sites where aphids were found went down 24% compared to the previous survey round.

SLWF - Leaf Counts – 4th Round

9/02/03 to 9/11/03

NO. LEAVES IN EACH RANGE OF NYMPHS PER LEAF							
COUNTY	SAMPLE SITES	0	1-5	6-49	50+	NO. LEAVES	NEW SITES INFESTED
KERN	89	470	275	116	29	890	9
KINGS	11	99	11	0	0	110	0
TULARE	57	299	191	70	10	570	10
FRESNO	125	1,099	115	31	5	1,250	18
MADERA	13	128	2	0	0	130	1
MERCED	29	287	3	0	0	290	1
TOTALS	324	2,382	597	217	44	3,240	39

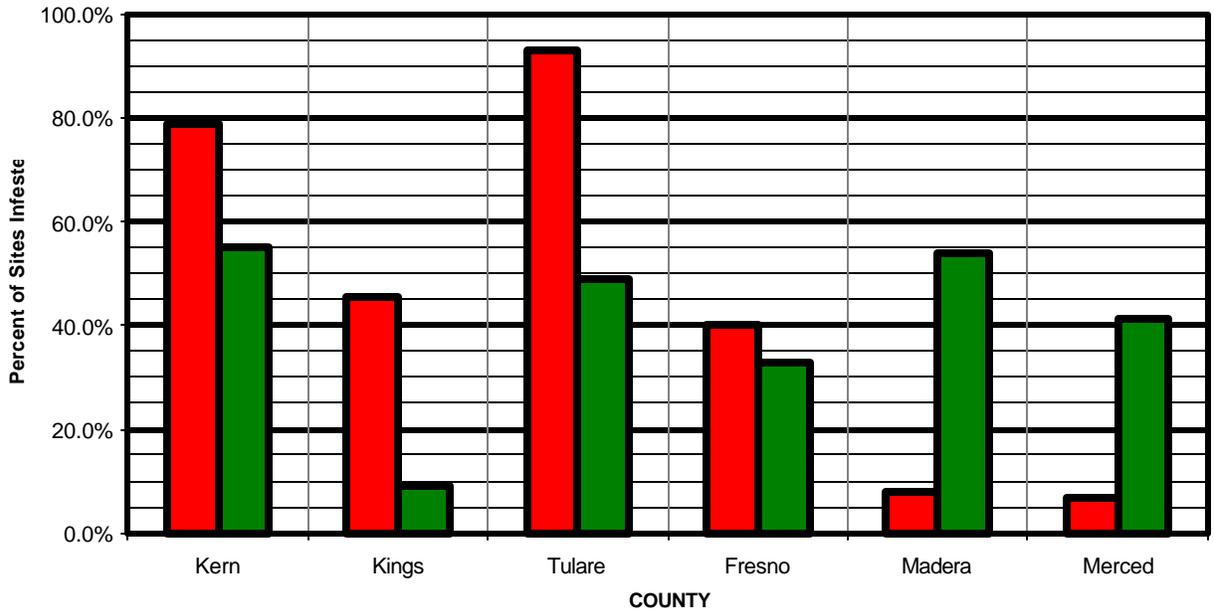
APHID Leaf Counts – 4th Round

9/02/03 to 9/11/03

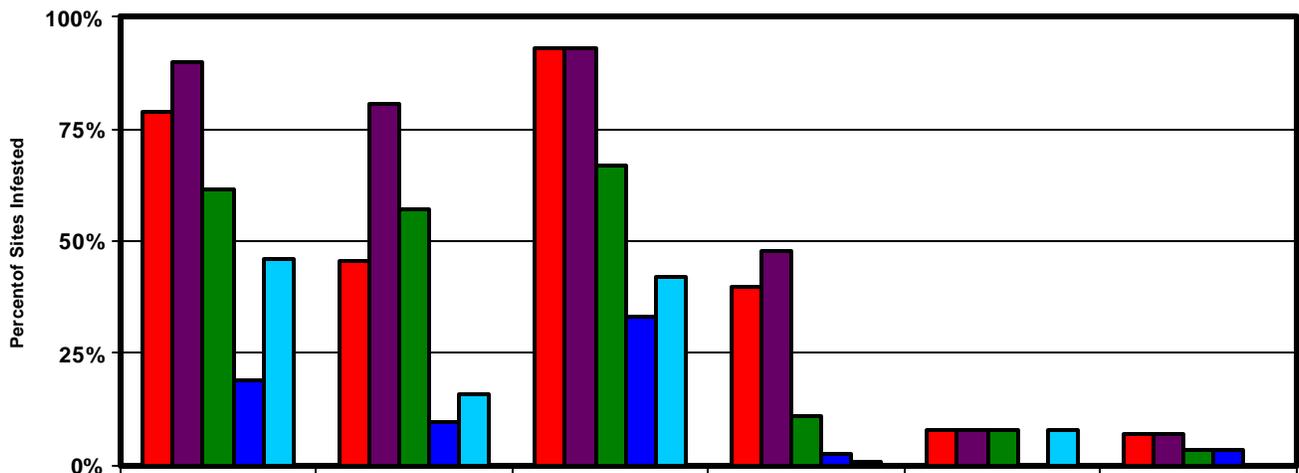
NO. LEAVES IN EACH RANGE OF APHIDS PER LEAF							
COUNTY	SAMPLE SITES	0	1-5	6-49	50+	NO. LEAVES	NEW SITES INFESTED
KERN	89	698	145	46	1	890	0
KINGS	11	104	4	2	0	110	0
TULARE	57	462	72	36	0	570	0
FRESNO	125	1110	106	24	10	1,250	2
MADERA	13	104	15	10	1	130	0
MERCED	29	251	19	13	7	290	1
TOTALS	324	2,729	361	131	19	3,240	3

PERCENT OF SAMPLE SITES IN EACH COUNTY INFESTED

SLWF APHIDS



SLWF INFESTED SITES - 4th SURVEY for the YEARS 1998 - 2000, 2002, 2003



	KERN	KINGS	TULARE	FRESNO	MADERA	MERCED
2003	78.7%	45.5%	93.0%	40.0%	7.7%	6.9%
2002	89.9%	80.6%	93.0%	48.0%	7.7%	6.9%
2000	61.4%	56.9%	66.7%	11.2%	7.7%	3.3%
1999	19.1%	9.7%	33.0%	2.4%	0.0%	3.3%
1998	46.0%	16.0%	42.0%	0.8%	8.0%	0.0%

COUNTY

OTHER PESTS AND CONDITIONS ON COTTON LEAVES
FOR REPORT #4 2003

COUNTY	OTHER WHITEFLY	MITES	ARMY-WORM	HONEY-DEW	SOOTY MOLD
KERN	4.5%	41.6%	5.6%	18.0%	10.1%
KINGS	9.1%	27.3%	9.1%	9.1%	0.0%
TULARE	5.3%	15.8%	0.0%	40.4%	15.8%
FRESNO	4.8%	41.6%	4.0%	24.0%	3.2%
MADERA	23.1%	23.1%	7.7%	30.8%	0.0%
MERCED	27.6%	27.6%	0.0%	27.6%	3.4%

OTHER PESTS - 4th Survey Round 2003

■ Other Whitefly
 ■ Mites
 ■ Armyworm

