

# PINK BOLLWORM PROGRAM

## SILVERLEAF WHITEFLY SUMMARY REPORT FOR THE SAN JOAQUIN VALLEY

2006



**SILVERLEAF WHITEFLY SUMMARY REPORT**  
**Sampling Period: 7/17/06 - 10/05/06**  
**Prepared by: Daniel F. Keaveny**

**Kern County:**

Seventy-seven of the eighty-nine sample sites (86.5%) were positive for SLWF and all eighty-nine sites were positive for aphids during one or more of the six survey rounds. A total of 4,930 leaves were collected, of which only 1,178 leaves (23.9%) were infested with silverleaf whitefly, and 1,474 leaves (29.9%) were infested with aphids. Thirty-one of the sites positive for SLWF (40.3%) had leaves in the 1 - 5 nymphs/leaf range, while thirty-five sites (45.5%) had leaves in the 6 - 49 nymphs/leaf range, and eleven sites (14.3%) had leaves in the 50 or more nymphs/leaf range. Seventeen of the sites positive for aphids (19.1%) had leaves in the 1 - 5 aphids/leaf range, while forty-one sites (46.1%) had leaves in the 6 - 49 aphids/leaf range, and thirty-one sites (34.8%) had leaves in the 50 or more aphids/leaf range. Mites were found at seventy-eight sites (87.6%), armyworm at eighteen sites (20.2%), and twelve of the sample sites (13.5%) had leaves with other whitefly species.

**Kings County:**

Fifty of the seventy-two sample sites (69.4%) were positive for SLWF and sixty-two sites (86.1%) were positive for aphids during one or more of the six survey rounds. A total of 3,990 leaves were collected, of which 462 leaves (11.6%) were infested with silverleaf whitefly, and 651 leaves (16.3%) were infested with aphids. Thirty-six of the sites positive for SLWF (72.0%) had leaves in the 1 - 5 nymphs/leaf range, while ten sites (20.0%) had leaves in the 6 - 49 nymphs/leaf range and four of the sites (8.0%) had leaves in the 50 or more nymphs/leaf range. Twenty-one of the sites positive for aphids (33.9%) had leaves in the 1 - 5 aphids/leaf range, twenty-six sites (41.9%) had leaves in the 6 - 49 aphids/leaf range, and fifteen sites (24.2%) had leaves in the 50 or more aphids/leaf range. Mites were found at sixty-two sites (86.1%), armyworm at thirty-five sites (48.6%), and eight sites (11.1%) had leaves with other whitefly species.

### **Tulare County:**

Fifty-six of the fifty-seven sample sites (98.2%) were positive for SLWF and all of the sites were positive for aphids during one or more of the six survey rounds. A total of 3,370 leaves were collected, of which 985 leaves (29.2%) were infested with silverleaf whitefly, and 756 leaves (22.4%) were infested with aphids. Twenty of the sites positive for SLWF (35.7%) had leaves in the 1 - 5 nymphs/leaf range, twenty-six sites (46.4%) had leaves in the 6 - 49 nymphs/leaf range, and ten sites (17.9%) had leaves in the 50 or more nymphs/leaf range. Seventeen of the sites positive for aphids (29.8%) had leaves in the 1 - 5 aphids/leaf range, twenty-seven sites (47.4%) had leaves in the 6 - 49 aphids/leaf range, and thirteen sites (22.8%) had leaves in the 50 or more aphids/leaf range. Mites were found at forty-six sites (80.7%), armyworm at twenty-nine sites (50.9%), and nine of the sites (15.8%) had leaves with other whitefly species.

### **Fresno County:**

Fifty-two of the one hundred and twenty-five sample sites (41.6%) were positive for SLWF and one hundred and seven sites (85.6%) were positive for aphids during one or more of the six survey rounds. A total of 6,200 leaves were collected, of which 438 leaves (7.1%) were infested with silverleaf whitefly, and 860 leaves (13.9%) were infested with aphids. Thirty-four of the sites positive for SLWF (65.4%) had leaves in the 1 - 5 nymphs/leaf range, fifteen sites (28.8%) had leaves in the 6 - 49 nymphs/leaf range, and three sites (5.8%) had leaves in the 50 or more nymphs/leaf range. Fifty-two of the sites positive for aphids (48.6%) had leaves in the 1 - 5 aphids/leaf range, thirty-six sites (33.6%) had leaves in the 6 - 49 aphids/leaf range, and nineteen sites (17.8%) had leaves in the 50 or more aphids/leaf range. Mites were found at one hundred and eight sites (86.4%), armyworm at forty-five sites (36.0%), and fifty-three sites (42.4%) had leaves with other whitefly species.

**Madera County:**

Only two of the thirteen sample sites (15.4%) were positive for SLWF and all thirteen sites were positive for aphids during one or more of the six survey rounds. A total of 760 leaves were collected, of which 4 leaves (0.5%) were infested with silverleaf whitefly, and 170 leaves (22.4%) were infested with aphids. One of the sites positive for SLWF (50.0%) had leaves in the 1 - 5 nymphs/leaf range and one site (50.0%) had leaves in the 50 or more nymphs/leaf range. Six of the sites positive for aphids (46.2%) had leaves in the 1 - 5 aphids/leaf range, one site (7.7%) had leaves in the 6 - 49 aphids/leaf range, and six sites (46.2%) had leaves in the 50 or more aphids/leaf range. Mites were found at twelve sites (92.3%), armyworm at six sites (46.2%), and six sites (46.2%) had leaves with other whitefly species.

**Merced County:**

Fourteen of the twenty-nine sample sites (48.3%) were positive for SLWF and twenty-one sites (72.4%) were positive for aphids during one or more of the six survey rounds. A total of 1,680 leaves were collected, of which 70 leaves (4.2%) were infested with silverleaf whitefly, and 138 leaves (8.2%) were infested with aphids. Thirteen of the sites positive for SLWF (92.9%) had leaves in the 1 - 5 nymphs/leaf range and one site (7.1%) had leaves in the 6 - 49 nymphs/leaf range. Twelve of the sites positive for aphids (57.1%) had leaves in the 1 - 5 aphids/leaf range, six sites (28.6%) had leaves in the 6 - 49 aphids/leaf range, and three sites (14.3%) had leaves in the 50 or more aphids/leaf range. Mites were found at twenty-eight sites (96.6%), armyworm at seven sites (24.1%), and twenty-four sites (82.8%) had leaves with other whitefly species.

**SLWF - Leaf Counts – 2006 Survey**

7/17/06 - 10/05/06

<b>NO. LEAVES IN EACH RANGE OF NYMPHS PER LEAF</b>							
<b>COUNTY</b>	<b>SAMPLE SITES</b>	<b>0</b>	<b>1- 5</b>	<b>6- 49</b>	<b>50+</b>	<b>NO. LEAVES</b>	<b>TOTAL SITES INFESTED</b>
<b>KERN</b>	89	3,752	851	274	53	4,930	77
<b>KINGS</b>	72	3,528	375	80	7	3,990	50
<b>TULARE</b>	57	2,385	669	235	81	3,370	56
<b>FRESNO</b>	125	5,762	304	105	29	6,200	52
<b>MADERA</b>	13	756	2	1	1	760	2
<b>MERCED</b>	29	1,610	69	1	0	1,680	14
<b>TOTALS</b>	385	17,793	2,270	696	171	20,930	251

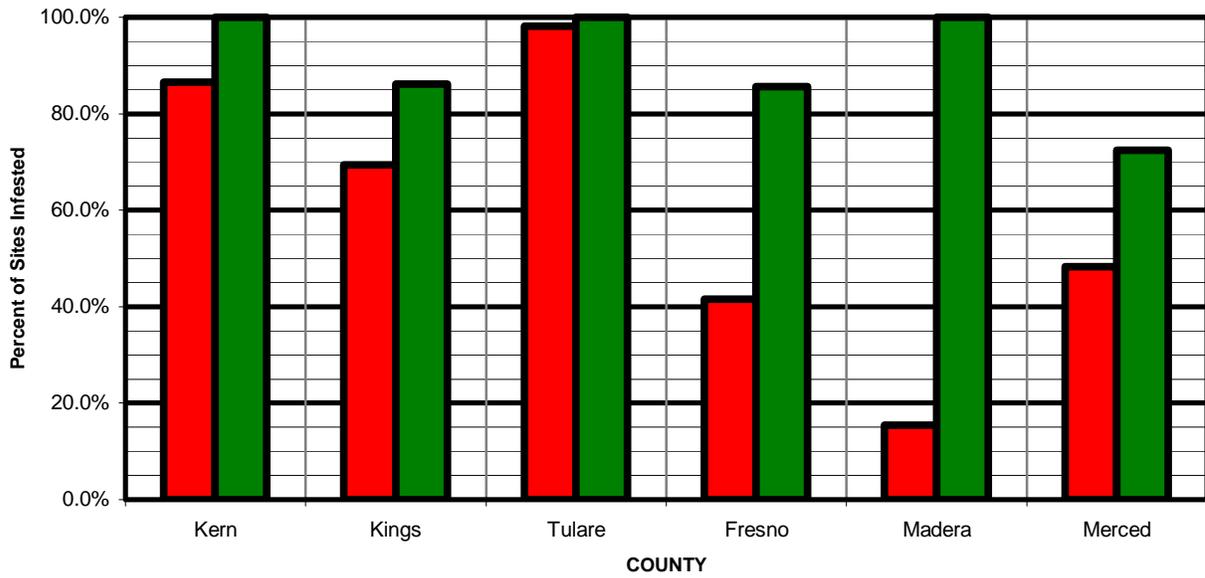
**APHID Leaf Counts – 2006 Survey**

7/17/06 - 10/05/06

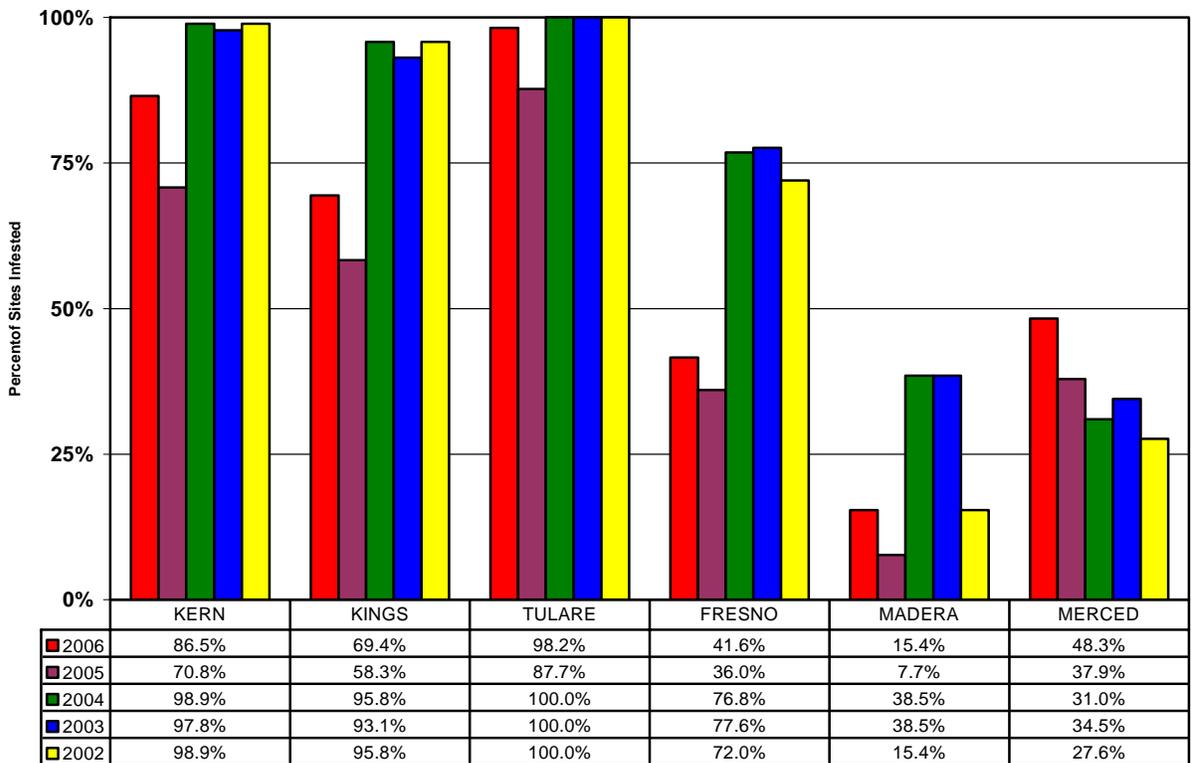
<b>NO. LEAVES IN EACH RANGE OF APHIDS PER LEAF</b>							
<b>COUNTY</b>	<b>SAMPLE SITES</b>	<b>0</b>	<b>1-5</b>	<b>6-49</b>	<b>50+</b>	<b>NO. LEAVES</b>	<b>TOTAL SITES INFESTED</b>
<b>KERN</b>	89	3,456	846	494	134	4,930	89
<b>KINGS</b>	72	3,339	347	198	106	3,990	62
<b>TULARE</b>	57	2,614	487	227	42	3,370	57
<b>FRESNO</b>	125	5,340	524	262	74	6,200	107
<b>MADERA</b>	13	590	66	72	32	760	13
<b>MERCED</b>	29	1,542	75	46	17	1,680	21
<b>TOTALS</b>	385	16,881	2,345	1,299	405	20,930	349

### PERCENT OF SAMPLE SITES IN EACH COUNTY INFESTED

**SLWF** **APHIDS**



### SLWF INFESTED SITES - FINAL SURVEY for the YEARS 2002 - 2006



OTHER PESTS ON COTTON LEAVES  
FINAL REPORT 2006

COUNTY	OTHER WHITEFLY	MITES	ARMY-WORM
KERN	13.5%	87.6%	20.2%
KINGS	11.1%	86.1%	48.6%
TULARE	15.8%	80.7%	50.9%
FRESNO	42.4%	86.4%	36.0%
MADERA	46.2%	92.3%	46.2%
MERCED	82.8%	96.6%	24.1%

