PINK BOLLWORM PROGRAM

SILVERLEAF WHITEFLY REPORT FOR THE SAN JOAQUIN VALLEY

5th Report

2003

SILVERLEAF WHITEFLY REPORT - No. 5
Sampling Period: 9/15/03 - 9/25/03
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Kern County:

One hundred percent of the 89 sample sites were surveyed. Seventy-seven of the sites sampled (86.5%) were positive for silverleaf whitefly, thirty-three of the sites (37.1%) were positive for aphids, and thirty-four sites (38.2%) had leaves with honeydew. Thirty-five of the positive sites (45.5%) had leaves in the 1 - 5 nymphs/leaf range only, while twenty-five sites (32.5%) had leaves in the 6 - 49 nymphs/leaf range, and seventeen sites (22.1%) had leaves in the 50 or more nymphs/leaf range. Mites were found at forty-one sites (46.1%), armyworm at three sites (3.4%), and six sites (6.7%) had leaves with other whitefly species. Twenty of the sites (22.5%) had leaves with sooty mold.

Kings County:

One hundred percent of 72 sample sites were surveyed. Forty-five of the sites sampled (62.5%) were positive for silverleaf whitefly, eleven of the sites (15.3%) were positive for aphids, and nine sites (12.5%) had leaves with honeydew. Thirty-eight of the positive sites (84.4%) had leaves in the 1 - 5 nymphs/leaf range only, while six sites (13.3%) had leaves in the 6 - 49 nymphs/leaf range, and one site (2.2%) had leaves in the 50 or more nymphs/leaf range. Sixteen sites (22.2%) had leaves infested with mites, two sites (2.8%) had armyworm, while only one of the sites (1.4%) had other whitefly species present. Four sites (5.6%) had leaves with sooty mold.

Tulare County:

One hundred percent of the 57 sample sites were surveyed. Fifty-one sites (89.5%) were positive for SLWF, thirty-one sites (54.4%) were positive for aphids, and twenty-four sites (42.1%) had leaves with honeydew. Twenty-one of the positive sites (41.2%) had leaves in the 1 - 5 nymphs/leaf range only, twenty-two sites (43.1%) had leaves in the 6 - 49 nymphs/leaf range, and eight sites (15.7%) had leaves in the 50 or more nymphs/leaf range. There were thirteen sites (22.8%) infested with mites, two sites (3.5%) with armyworm, while none of the sites had other whitefly species present. Ten sites (17.5%) had leaves with sooty mold.

Fresno County:

Samples were submitted from one hundred percent of the 125 sample sites. Sixty-four sites (51.2%) were positive for SLWF, thirty-nine sites (31.2%) were positive for aphids, and twenty-one sites (16.8%) had leaves with honeydew. Fifty-five of the positive sites (85.9%) had leaves in the 1 - 5 nymphs/leaf range only, while seven positive sites (10.9%) had leaves in the 6 - 49 nymphs/leaf range, and two positive sites (3.1%) had leaves in the fifty or more nymphs/leaf range. Forty-one sites (32.8%) had leaves infested with mites, ten sites (8.0%) had armyworm, and nine sites (7.2%) had other whitefly species present. Two sites (1.6%) 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, one site (7.7%) was positive for aphids, and three of the sites (23.1%) 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, two of the sites (15.4%) had armyworm, and four sites (30.8%) had other whitefly species present. None of the sites had any leaves with sooty mold.

Merced County:

Samples were submitted from one hundred percent of the 29 sample sites. Five of the sites (17.2%) were positive for SLWF, ten sites (34.5%) were positive for aphids, and six sites (20.7%) had leaves with honeydew. All five of the positive sites had leaves in the 1 - 5 nymphs/leaf range only. Twelve sites (41.4%) had leaves infested with mites, three of the sites (10.3%) had armyworm, and seven sites (24.1%) had other whitefly species present. Only one of the sites (3.4%) had any leaves with sooty mold.

Comments:

The overall percentage of sites infested with silverleaf whitefly was 63.1%, down from 70.9% in 2002. The percentage of sites infested with aphids was also lower, 32.5% compared to 44.5% in 2002. The presence of honeydew on leaves dropped from 35.8% in 2002 to 25.2% this year.

SLWF - Leaf Counts – 5th Round

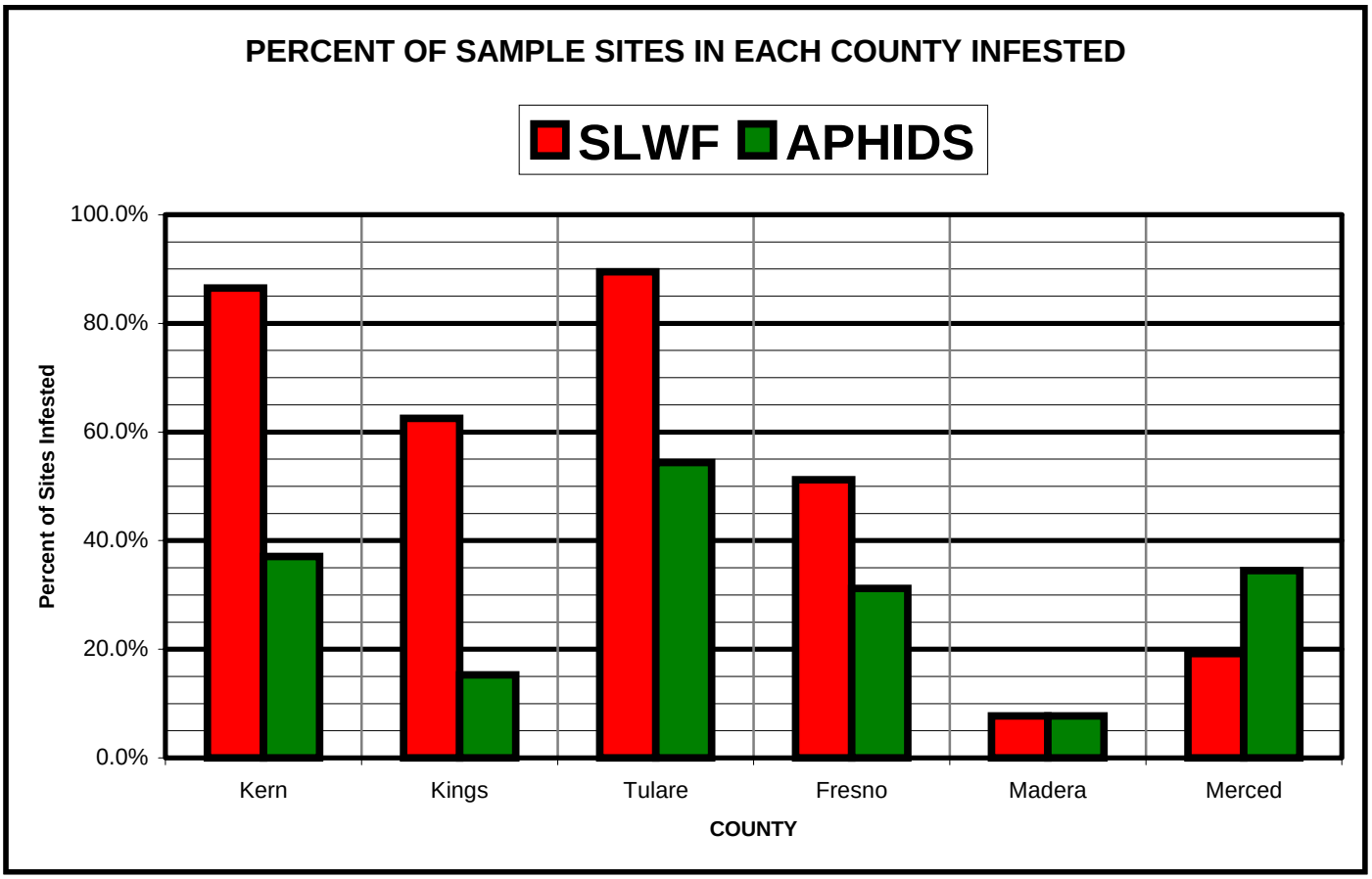
9/15/03 to 9/25/03

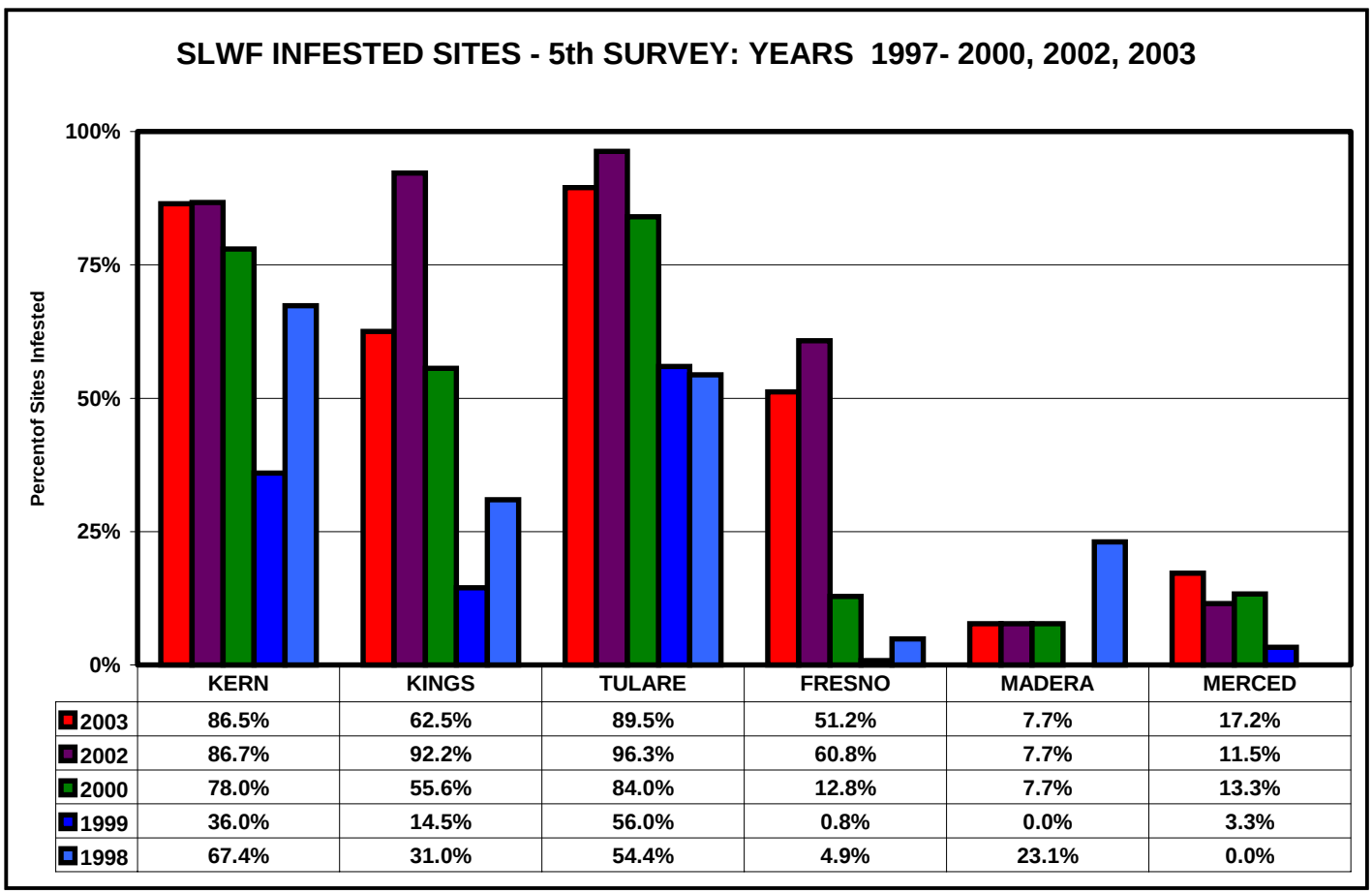
NO. LEAVES IN EACH RANGE OF NYMPHS PER LEAF							
COUNTY	**SAMPLE SITES**	**0**	**1-5**	**6-49**	**50+**	**NO. LEAVES**	**NEW SITES INFESTED**
KERN	89	442	239	139	70	890	4
KINGS	72	581	122	15	2	720	15
TULARE	57	234	232	87	17	570	1
FRESNO	125	1,055	160	26	9	1,250	17
MADERA	13	125	5	0	0	130	0
MERCED	29	278	12	0	0	290	2
TOTALS	385	2,715	770	267	98	3,850	39

APHID Leaf Counts – 5th Round

9/15/03 to 9/25/03

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	758	83	45	4	890	0
KINGS	72	702	14	4	0	720	1
TULARE	57	426	78	62	4	570	0
FRESNO	125	1,150	86	14	0	1,250	2
MADERA	13	127	3	0	0	130	0
MERCED	29	258	21	11	0	290	1
TOTALS	385	3,421	285	136	8	3,850	4





	KERN	KINGS	TULARE	FRESNO	MADERA	MERCED
2003	86.5%	62.5%	89.5%	51.2%	7.7%	17.2%
2002	86.7%	92.2%	96.3%	60.8%	7.7%	11.5%
2000	78.0%	55.6%	84.0%	12.8%	7.7%	13.3%
1999	36.0%	14.5%	56.0%	0.8%	0.0%	3.3%
1998	67.4%	31.0%	54.4%	4.9%	23.1%	0.0%

OTHER PESTS AND CONDITIONS ON COTTON LEAVES
FOR REPORT # 5 2003

COUNTY	OTHER WHITEFLY	MITES	ARMY-WORM	HONEY-DEW	SOOTY MOLD
KERN	6.7%	46.1%	3.4%	38.2%	22.5%
KINGS	1.4%	22.2%	2.8%	12.5%	5.6%
TULARE	0.0%	22.8%	3.5%	42.1%	17.5%
FRESNO	7.2%	32.8%	8.0%	16.8%	1.6%
MADERA	30.8%	23.1%	15.4%	23.1%	0.0%
MERCED	24.1%	41.4%	10.3%	20.7%	3.4%