

California Arbovirus Surveillance Bulletin # 26

Week 33 Friday, August 18, 2006

Weekly Summary

COMMENTS

Humans

This week, 30 new West Nile virus (WNV) cases were reported from 13 counties. In 2006, a total of 68 human West Nile virus (WNV) cases have been identified from the following eighteen counties: Butte (4), Colusa (1), Fresno (4), Glenn (2), Kern (20), Kings (1), Los Angeles (1), Merced (1), Modoc (1), Placer (1), Riverside (1), Sacramento (4), San Joaquin (3), Santa Clara (1), Solano (2), Stanislaus (3), Sutter (3), and Yolo (15). Of the 68 WNV cases, 15 (22%) have been classified as West Nile neuroinvasive disease, and 50 (74%) as West Nile fever. The clinical presentation of three cases is unknown. The median age of all cases is 43 years (range: 9 - 86 years). Of the 68 cases, 43 (63%) are male. There has been one WNV-related fatality reported in California in 2006, from Butte County. Fifteen WNV-positive blood donation samples have been identified to date; six of the individuals later developed symptoms compatible with West Nile fever and were consequently reclassified as cases.

Horses

The California Department of Food & Agriculture reported three new equine cases of WNV this week from Kern (1), Shasta (1), and Stanislaus (1) Counties.

In 2006, 16 horses have tested positive for WNV from the following counties: Fresno (2); Kern (2); Lassen (2); Merced (2); Sacramento (1); San Joaquin (1); Shasta (1); Stanislaus (3); Tulare (1); and Yuba (1).

Dead Birds

This week, 143 out of 279 (51.3 %) dead birds collected from 47 counties tested positive for WNV.

- 122/215 dead birds tested positive via RT-PCR.
- 12/21 dead birds tested positive via VecTest.
- 7/7 dead birds tested positive via RAMP.
- 2/36 dead birds tested positive via IHC.

The WNV positive dead birds were collected from the following counties: Alameda (2); Butte (13); Contra Costa (13); El Dorado (3); Fresno (6); Glenn (12); Humboldt (1); Inyo (1); Kern (4); Los Angeles (11); Merced (7); Monterey (2); Nevada (1); Orange (2); Placer (3); Sacramento (10); San Bernardino (2); San Joaquin (2); San Luis Obispo (1); San Mateo (1); Santa Barbara (1); Santa Clara (7); Shasta (7); Solano (2); Sonoma (2); Stanislaus (10); Tehama (2); Trinity (1); Tulare (2); Ventura (7) and Yolo (5). **This is the first indication of WNV activity in Humboldt, Monterey, and Trinity Counties in 2006.**

In 2006, 586 out of 3,773 (15.5%) dead birds have tested positive for WNV from 42 counties: Alameda (5); Butte (30); Calaveras (2); Colusa (9); Contra Costa (41); El Dorado (6); Fresno (51); Glenn (26); Humboldt (1); Inyo (3); Kern (14); Kings (9); Lake (3); Lassen (1); Los Angeles (12); Marin (1), Mendocino (2); Merced (23); Monterey (2); Napa (1); Nevada (2); Orange (21); Placer (8); Sacramento (42); San Bernardino (6); San Diego (4); San Joaquin (33); San Luis Obispo (2); San Mateo (2); Santa Barbara (1); Santa Clara (53); Shasta (33); Solano (11); Sonoma (3); Stanislaus (46); Sutter (2); Tehama (5); Trinity (1); Tulare (3); Ventura (18); Yolo (47) and Yuba (1).

The California Department of Health Services has received a total of 32,806 dead bird reports (hotline and website) this year.

Mosquito Pools

CVEC reported 68 WNV positive mosquito pools this week from the following counties: Fresno (2); Imperial (2); Kern (27); Kings (6); Lake (3); Lassen (3); Los Angeles (7); Madera (1); Orange (2); Placer (1); San Bernardino (2); Shasta (3); Sutter (4); Tulare (1); and Yuba (4). Two pools tested positive for WEE from Kern County.

Sac-Yolo MVCD reported 6 WNV positive mosquito pools from Sacramento (2) and Yolo (4) counties by RT-PCR. Four mosquito pools tested positive for WNV by RAMP only from San Bernardino County.

In 2006, 495 mosquito pools have tested positive for WNV from 30 counties: Alameda (3), Calaveras (1), Contra Costa (13); El Dorado (2); Fresno (30); Glenn (1); Imperial (10); Inyo (3); Kern (150); Kings (20); Lake (5); Lassen (3); Los Angeles (30); Madera (1); Merced (2); Orange (4); Placer (12); Riverside (7); Sacramento (21); San Bernardino (9), San Joaquin (20); Santa Barbara (1); Santa Clara (5); Shasta (5); Solano (1); Stanislaus (27); Sutter (53); Tulare (1); Yolo (49); and Yuba (6). Three mosquito pools from Kern County have tested positive for western equine encephalomyelitis virus this year.

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Sentinel Chickens

VRDL reported 90 new WNV positive chickens this week from the following counties: Butte (9); Contra Costa (24); Fresno (5); Glenn (4); Imperial (8); Kern (4); Kings (8); Los Angeles (1); Madera (1); Placer (5); Riverside (3); Sacramento (2); San Joaquin (7); Tulare (8); and Yolo (1). In addition, there were 39 new flavivirus positive chickens from Butte (1), Kings (2), Los Angeles (3), Madera (3), Placer (6), Sacramento (4), Stanislaus (4), Sutter (8), Yolo (6), and Yuba (2) Counties.

In 2006, 233 WNV seroconversions have been confirmed in chickens from Butte (14), Contra Costa (24), Fresno (13), Glenn (4), Imperial (27), Kern (64), Kings (18), Los Angeles (5), Madera (2), Placer (5), Riverside (4), Sacramento (2), San Joaquin (7), Solano (7), Stanislaus (11), Sutter (9), Tulare (9), and Yolo (8) Counties. Two WEE seroconversions have been detected in chickens from Riverside County.

Website Information

For updated information on WNV, please visit the California WNV website, www.westnile.ca.gov, the CDC website, www.cdc.gov, and the USGS website, www.westnilemaps.usgs.gov. Please go to the Vector website at <http://vector.ucdavis.edu/arbo.html> for flock location and more information on WNV and other vector-borne diseases.

TEST SUMMARIES

Humans and Horses

		Number Tested	WNV Positive		WEE Positive		SLE Positive		Other Positive	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested	Week	49	0	30	0	0	0	0	0	0
	YTD	853	0	68	0	0	0	0	0	0
Horses Tested	Week	14	0	3	0	0	0	0	0	0
	YTD	288	0	16	0	0	0	0	0	0

Dead Birds

	Number Tested	WNV Positive
Week	279	143
YTD	3773	586

Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Flavivirus* Positive
	YTD	20,973	233	2	0	51
Mosquito pools	Week	626	68	2	0	0
	YTD	9757	391	3	0	0

*Does not include those later confirmed as WNV or SLE

Mosquito pools tested by local agencies

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Other Positive
	YTD	3640	71	0	0	0
RAMP	Week	68	4	N/A	N/A	N/A
	YTD	1169*	33	--	--	--
VecTest	Week	9	0	N/A	N/A	N/A
	YTD	9	0	--	--	--

*Total does not include pools confirmed by RT-PCR

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POSITIVES

West Nile Virus Cases* Reported August 14 – August 18, 2006							
ID	Report Date	County ¹	Age	Sex	Clin Pres ²	Onset Date	WNV Fatality?
06-0039	08/14/06	STANISLAUS	40	M	WNF	07/28/06	NO
06-0040	08/14/06	SAN JOAQUIN	>18	M	WNF	07/30/06	NO
06-0041	08/14/06	YOLO	>18	M	WNF	07/25/06	NO
06-0042	08/14/06	YOLO	<18	M	WNF	08/04/06	NO
06-0043	08/15/06	YOLO	>18	M	WNF	08/06/06	NO
06-0044	08/15/06	FRESNO	32	F	WNF	08/04/06	NO
06-0045	08/15/06	MERCED	55	M	WNF	07/27/06	NO
06-0046	08/15/06	KERN	<18	F	WNF	07/26/06	NO
06-0047	08/15/06	KERN	46	F	WNND	07/29/06	NO
06-0048	08/15/06	KERN	45	M	n/a	n/a	NO
06-0049	08/15/06	SANTA CLARA	65	M	WNF	07/27/06	NO
06-0050	08/16/06	YOLO	>18	M	WNF	07/28/06	NO
06-0051	08/16/06	YOLO	>18	F	WNF	07/27/06	NO
06-0052	08/15/06	YOLO	>18	M	WNF^	07/26/06	NO
06-0053	08/16/06	SACRAMENTO	62	M	WNF	07/31/06	NO
06-0054	08/16/06	FRESNO	43	M	WNF	08/09/06	NO
06-0055	08/16/06	FRESNO	56	M	WNF	n/a	NO
06-0056	08/17/06	BUTTE	>18	F	WNND	08/01/06	YES
06-0057	08/17/06	BUTTE	>18	M	WNND	07/25/06	NO
06-0058	08/17/06	BUTTE	>18	F	WNF	08/04/06	NO
06-0059	08/17/06	RIVERSIDE	53	M	WNND	07/31/06	NO
06-0060	08/17/06	BUTTE	>18	F	WNF	08/02/06	NO
06-0061	08/17/06	STANISLAUS	39	F	WNF	07/25/06	NO
06-0062	08/18/06	KINGS	>18	M	WNF	07/25/06	NO
06-0063	08/18/06	PLACER	>18	M	n/a	07/31/06	NO
06-0064	08/18/06	SOLANO	>18	M	WNND	n/a	NO
06-0065	08/18/06	YOLO	>18	F	WNND	08/07/06	NO
06-0066	08/18/06	SACRAMENTO	56	M	WNF	07/31/06	NO
06-0067	08/18/06	SOLANO	>18	M	WNF	n/a	NO
06-0068	08/18/06	SAN JOAQUIN	>18	F	WNF	07/27/06	NO

* Cases of WNV illness in California residents with infection likely acquired in California

¹ County of residence

² Clinical presentation of WNV: WNF=fever; WNND=neuroinvasive

^ Initially identified as blood donor, later developed symptoms

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Mosquito Pools

Agency Code	County	City	Species	Pool #	Collected	Tested	Virus
AFSB0039	Kern	Shafter	Cx tarsalis	5700	8/11/2006	8/18/2006	WEE, WNV
AFSB0039	Kern	Shafter	Cx tarsalis	5702	8/11/2006	8/17/2006	WN
AFSB0040	Kern	Lost Hills	Cx tarsalis	5685	8/11/2006	8/17/2006	WN
AFSB0041	Kern	Lost Hills	Cx tarsalis	5686	8/11/2006	8/17/2006	WN
AFSB0056	Kern	Buttonwillow	Cx tarsalis	5694	8/11/2006	8/17/2006	WN
AFSB0056	Kern	Buttonwillow	Cx quinquefasciatus	5695	8/11/2006	8/17/2006	WN
AFSB0059	Kern	Buttonwillow	Cx tarsalis	5696	8/11/2006	8/17/2006	WEE
AFSB0062	Kern	Lost Hills	Cx tarsalis	5688	8/11/2006	8/17/2006	WN
CNSL1201	Fresno	Fresno	Cx quinquefasciatus	155	8/15/2006	8/17/2006	WN
CNSL5043	Fresno	Kingsburg	Cx quinquefasciatus	293	8/10/2006	8/17/2006	WN
COAV5002	Imperial	Niland	Cx tarsalis	1148	8/9/2006	8/17/2006	WN
COAV5003	Imperial	Westmoreland	Cx tarsalis	1150	8/9/2006	8/17/2006	WN
DAVI5113*	Yolo	Davis	Cx pipiens	1068	8/8/2006	8/8/2006	WN
DAVI5119*	Yolo	Davis	Cx tarsalis	1151	8/14/2006	8/12/2006	WN
DLTA5353	Tulare	Visalia	Cx quinquefasciatus	65	8/15/2006	8/17/2006	WN
GRLA2636	Los Angeles	Van Nuys	Cx quinquefasciatus	647	8/9/2006	8/17/2006	WN
GRLA2637	Los Angeles	Van Nuys	Cx quinquefasciatus	646	8/9/2006	8/17/2006	WN
GRLA2648	Los Angeles	Encino	Cx quinquefasciatus	648	8/9/2006	8/17/2006	WN
GRLA2658	Los Angeles	Encino	Cx quinquefasciatus	645	8/9/2006	8/17/2006	WN
GRLA2659	Los Angeles	Encino	Cx quinquefasciatus	641	8/7/2006	8/17/2006	WN
GRLA2668	Los Angeles	Encino	Cx quinquefasciatus	642	8/9/2006	8/17/2006	WN
GRLA2849	Los Angeles	Panorama City	Cx quinquefasciatus	5489	8/10/2006	8/17/2006	WN
KERN0008	Kern	Bakersfield	Cx tarsalis	394	8/8/2006	8/17/2006	WN
KERN0015	Kern	Pumpkin Center	Cx quinquefasciatus	399	8/8/2006	8/17/2006	WN
KERN0015	Kern	Pumpkin Center	Cx quinquefasciatus	400	8/8/2006	8/18/2006	WN
KERN0015	Kern	Pumpkin Center	Cx quinquefasciatus	401	8/8/2006	8/17/2006	WN
KERN0029	Kern	Lamont	Cx tarsalis	406	8/9/2006	8/17/2006	WN
KERN0031	Kern	Arvin	Cx tarsalis	409	8/9/2006	8/17/2006	WN
KERN0031	Kern	Arvin	Cx tarsalis	410	8/9/2006	8/17/2006	WN
KERN0032	Kern	Arvin	Cx tarsalis	417	8/9/2006	8/17/2006	WN
KERN0042	Kern	Bakersfield	Cx tarsalis	402	8/8/2006	8/17/2006	WN
KERN0042	Kern	Bakersfield	Cx tarsalis	403	8/8/2006	8/18/2006	WN
KERN0083	Kern	Arvin	Cx tarsalis	412	8/9/2006	8/17/2006	WN
KERN2002	Kern	Bakersfield	Cx quinquefasciatus	427	8/11/2006	8/17/2006	WN
KERN2010	Kern	Bakersfield	Cx quinquefasciatus	433	8/11/2006	8/17/2006	WN
KERN2014	Kern	Bakersfield	Cx quinquefasciatus	434	8/11/2006	8/17/2006	WN
KERN2016	Kern	Bakersfield	Cx quinquefasciatus	435	8/11/2006	8/17/2006	WN
KERN2016	Kern	Bakersfield	Cx quinquefasciatus	436	8/11/2006	8/17/2006	WN
KERN2018	Kern	Bakersfield	Cx quinquefasciatus	389	8/4/2006	8/17/2006	WN
KERN2020	Kern	Bakersfield	Cx quinquefasciatus	438	8/11/2006	8/18/2006	WN
KNGS3010	Kings	Hanford	Cx tarsalis	248	8/9/2006	8/15/2006	WN
KNGS3027	Kings	Lemoore	Cx tarsalis	252	8/9/2006	8/15/2006	WN
KNGS3030	Kings	Lemoore	Cx tarsalis	217	8/1/2006	8/15/2006	WN
KNGS3030	Kings	Lemoore	Cx tarsalis	246	8/9/2006	8/15/2006	WN
KNGS3031	Kings	Stratford	Cx tarsalis	214	8/1/2006	8/15/2006	WN
KNGS4003	Kings	Hanford	Cx quinquefasciatus	251	8/9/2006	8/15/2006	WN
LAKE1001	Lake	Upper Lake	Cx tarsalis	190	8/15/2006	8/17/2006	WN
LAKE1001	Lake	Upper Lake	Cx tarsalis	191	8/15/2006	8/17/2006	WN
LAKE1505	Lake	Kelseyville	Cx tarsalis	187	8/15/2006	8/17/2006	WN
LASN0001	Lassen	Standish	Cx tarsalis	6	8/14/2006	8/17/2006	WN
LASN0002	Lassen	Susanville	Cx tarsalis	7	8/14/2006	8/17/2006	WN

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LASN0005	Lassen	Susanville	Cx tarsalis	13	8/14/2006	8/17/2006	WN
MADR1212	Madera	Madera	Cx pipiens	6	8/16/2006	8/17/2006	WN
ORCO0002	Orange	Fullerton	Cx quinquefasciatus	567	8/9/2006	8/16/2006	WN
ORCO0014	Orange	Yorba Linda	Cx stigmatosoma	573	8/9/2006	8/16/2006	WN
PLCR0058	Placer	Sheridan	Cx tarsalis	273	8/9/2006	8/15/2006	WN
SANB0001	San Bernardino	Needles	Cx tarsalis	188	7/20/2006	8/16/2006	WN
SANB0001	San Bernardino	Needles	Cx tarsalis	191	7/20/2006	8/16/2006	WN
SAYO1210*	Yolo	Woodland	Cx tarsalis	2251	8/8/2006	8/8/2006	WN
SAYO2108*	Sacramento	Elverta	Cx tarsalis	2268	8/10/2006	8/9/2006	WN
SAYO2109*	Sacramento	Elverta	Cx tarsalis	2347	8/11/2006	8/10/2006	WN
SAYO3273*	Yolo	Woodland	Cx tarsalis	2425	8/14/2006	8/11/2006	WN
SHAS0061	Shasta	Redding	Cx pipiens	29	8/8/2006	8/15/2006	WN
SHAS0062	Shasta	Anderson	Cx tarsalis	30	8/9/2006	8/15/2006	WN
SHAS0062	Shasta	Anderson	Cx pipiens	40	8/9/2006	8/18/2006	WN
SUYA0007	Yuba	Marysville	Cx tarsalis	360	8/9/2006	8/17/2006	WN
SUYA0008	Yuba	Marysville	Cx tarsalis	361	8/10/2006	8/17/2006	WN
SUYA0008	Yuba	Marysville	Cx tarsalis	362	8/10/2006	8/17/2006	WN
SUYA0038	Yuba	Marysville	Cx tarsalis	365	8/10/2006	8/17/2006	WN
SUYA0044	Sutter	Pleasant Grove	Cx tarsalis	366	8/14/2006	8/17/2006	WN
SUYA0044	Sutter	Pleasant Grove	Cx tarsalis	370	8/14/2006	8/17/2006	WN
SUYA0044	Sutter	Pleasant Grove	Cx tarsalis	378	8/15/2006	8/17/2006	WN
SUYA0044	Sutter	Pleasant Grove	Cx tarsalis	379	8/15/2006	8/18/2006	WN
WEST6206	Kern	Kern Water Bank	Cx tarsalis	69	8/16/2006	8/17/2006	WN
WEST6206	Kern	Kern Water Bank	Cx tarsalis	72	8/16/2006	8/17/2006	WN
WVAL2009*	San Bernardino	Ontario	Cx tarsalis	493	8/17/2006	8/17/2006	WN
WVAL5004*	San Bernardino	Rancho Cucamonga	Cx quinquefasciatus	473	8/15/2006	8/17/2006	WN
WVAL5005*	San Bernardino	Rancho Cucamonga	Cx quinquefasciatus	478	8/15/2006	8/17/2006	WN
WVAL5008*	San Bernardino	Rancho Cucamonga	Cx quinquefasciatus	479	8/15/2006	8/17/2006	WN

*Tested by local agency

Sentinel Chicken Seroconversions

Site Code	County	Nearest City	Date Bled	Virus	BAND 01	BAND 02	BAND 03	BAND 04	BAND 05	BAND 06	BAND 07	BAND 08
BUCO0001	BUTTE	Chico	7/31/06	Flav	1601							
BUCO0003	BUTTE	Oroville	7/31/06	WNV	1624	1629	1630					
BUCO0004	BUTTE	Gridley	7/31/06	WNV	1637	1639	1642					
BUCO0005	BUTTE	Honcut	7/31/06	WNV	1646	1651	1653					
CNTR2302	CONTRA COSTA	Martinez	7/31/06	WNV	1436	1438	1441	1445				
CNTR2302	CONTRA COSTA	Martinez	8/14/06	WNV	1435	1442	1443	1444	1446			
CNTR7402	CONTRA COSTA	Oakley	7/31/06	WNV	1424	1425	1427	1428	1429	1430	1431	1432
CNTR8152	CONTRA COSTA	Knightsen	7/31/06	WNV	1413	1416	1417	1418	1419			
CNTR8152	CONTRA COSTA	Knightsen	8/14/06	WNV	1415	1420						
CNSL5004	FRESNO	Caruthers	8/7/06	WNV	1356							
CNSL5007	FRESNO	Laton	7/31/06	WNV	1391	1392						
CNSL5008	FRESNO	Orange Cove	7/25/06	WNV	1397							
CNSL5008	FRESNO	Orange Cove	8/7/06	WNV	1405							
GLEN9701	GLENN	Center of City of Wi	8/2/06	WNV	1590	1593	1598					
GLEN9701	GLENN	Center of City of Wi	8/14/06	WNV	1589							
COAV5001	IMPERIAL	Niland	8/7/06	WNV	1245	1247	1248	1306				
COAV5003	IMPERIAL	Westmoreland	8/7/06	WNV	1264							

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IMPR0002	IMPERIAL	Seeley	7/25/06	WNV	1777	1778	1781						
KERN0112	KERN	Wasco	7/17/06	WNV	1874	1876	1879						
WEST6202	KERN	Belridge	7/11/06	WNV	3661								
KNGS2001	KINGS	Hanford	8/7/06	WNV	2001	2006	2008	2010					
KNGS2002	KINGS	Lemoore	8/7/06	Flav	2011	2013							
KNGS2003	KINGS	Stratford	8/7/06	WNV	2027								
KNGS2004	KINGS	Corcoran	8/7/06	WNV	2032	2037	2040						
GRLA2465	LOS ANGELES	Los Angeles	7/27/06	WNV	1685								
GRLA2651	LOS ANGELES	Encino	8/8/06	Flav	1691	1695	1696						
MADR4123	MADERA	Chowchilla	8/9/06	WNV	2253								
MADR5234	MADERA	Madera	8/9/06	Flav	2237	2238	2239						
PLCR0025	PLACER	Lincoln	8/8/06	WNV	2579	2583							
PLCR0201	PLACER	Roseville	8/8/06	WNV	2593	2595	2596						
PLCR0025	PLACER	Lincoln	8/15/06	Flav	2580	2581	2584						
PLCR0201	PLACER	Roseville	8/15/06	Flav	2592	2594	2601						
COAV0200	RIVERSIDE	Mecca	7/24/06	WNV	1196	1200							
COAV0200	RIVERSIDE	Mecca	8/7/06	WNV	1197								
SAYO7004	SACRAMENTO	Elverta	8/3/06	WNV	2686	2693							
SAYO7004	SACRAMENTO	Natomas	8/15/06	Flav	2692								
SAYO7000	SACRAMENTO	Elk Grove	8/15/06	Flav	2706	2711							
SAYO7001	SACRAMENTO	Galt	8/15/06	Flav	2727								
SAYO6002	Yolo	Woodland	8/15/06	Flav	2752	2753	2754						
SAYO6001	Yolo	Knights Landing	8/15/06	Flav	2774	2778							
SAYO6000	Yolo	Dunnigan	8/15/06	2783									
SJCM9901	SAN JOAQUIN	Lodi	8/7/06	WNV	3073	3074	3075	3077					
SJCM9906	SAN JOAQUIN	French Camp	8/7/06	WNV	3105	3107							
SJCM9910	SAN JOAQUIN	Walnut Grove	8/7/06	WNV	3062								
EAST1947	STANISLAUS	Modesto	7/5/06	Flav	1541								
TRLK9703	STANISLAUS	Vittoria's Dairy	7/31/06	Flav	3547	3552	3553						
SUYA0014	SUTTER	Sutter	8/3/06	Flav	3382	3383	3386	3388	3390				
SUYA0020	SUTTER	Meridian	8/3/06	Flav	3392	3397	3399						
TLRE0011	TULARE	Mefford Field	8/9/06	WNV	3481	3486							
TLRE0012	TULARE	Alpaugh	7/26/06	WNV	3491	3497	3500						
TLRE0012	TULARE	Alpaugh	8/9/06	WNV	3492	3494	3499						
SAYO6001	YOLO	Knights Landing	8/3/06	WNV	2777								
SUYA0071	YUBA	Olivehurst	8/3/06	Flav	3425	3429							

WNV Positive Dead Birds

County	City	ZIP	Species	Collected	Tested	Tested By
Alameda	Castro Valley	94546	Bullock's Oriole	08/06/06	08/14/06	RT-PCR
Alameda	Livermore	94550	Western Scrub-Jay	08/09/06	08/09/06	RAMP
Butte	Chico	95928	American Crow	08/03/06	08/14/06	RT-PCR
Butte	Chico	95973	American Crow	08/07/06	08/14/06	RT-PCR
Butte	Chico	95928	American Crow	08/07/06	08/14/06	RT-PCR
Butte	Paradise	95969	American Robin	08/03/06	08/14/06	RT-PCR
Butte	Chico	95973	California Towhee	08/07/06	08/14/06	RT-PCR
Butte	Chico	95928	Nuttall's Woodpecker	08/03/06	08/14/06	RT-PCR
Butte	Chico	95973	Western Scrub-Jay	08/08/06	08/14/06	RT-PCR
Butte	Oroville	95965	Western Scrub-Jay	08/04/06	08/14/06	RT-PCR

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Butte	Chico	95926	Yellow-billed Magpie	08/02/06	08/14/06	RT-PCR
Butte	Chico	95973	Yellow-billed Magpie	08/03/06	08/14/06	RT-PCR
Butte	Chico	95928	Yellow-billed Magpie	08/03/06	08/14/06	RT-PCR
Butte	Gridley	95948	Yellow-billed Magpie	08/07/06	08/14/06	RT-PCR
Butte	Gridley	95948	Yellow-billed Magpie	08/07/06	08/14/06	RT-PCR
Contra Costa	Byron	94514	American Crow	08/08/06	08/08/06	RAMP
Contra Costa	Knightsen	94548	American Kestrel	08/08/06	08/14/06	RT-PCR
Contra Costa	San Ramon	94583	American Robin	08/02/06	08/14/06	RT-PCR
Contra Costa	San Ramon	94582	California Towhee	08/01/06	08/14/06	RT-PCR
Contra Costa	Brentwood	94513	Green Heron	08/03/06	08/14/06	RT-PCR
Contra Costa	Martinez	94553	House Finch	08/03/06	08/14/06	RT-PCR
Contra Costa	Walnut Creek	94598	House Finch	08/04/06	08/14/06	RT-PCR
Contra Costa	Concord	94520	House Sparrow	08/03/06	08/14/06	RT-PCR
Contra Costa	Concord	94521	Western Scrub-Jay	08/07/06	08/14/06	RT-PCR
Contra Costa	Pleasant Hill	94523	Western Scrub-Jay	08/03/06	08/14/06	RT-PCR
Contra Costa	Walnut Creek	94598	Western Scrub-Jay	08/03/06	08/14/06	RT-PCR
Contra Costa	Antioch	94509	Western Scrub-Jay	08/08/06	08/08/06	RAMP
Contra Costa	Moraga		Western Scrub-Jay	08/03/06	08/03/06	RAMP
El Dorado	South Lake Tahoe	96150	Evening Grosbeak	08/04/06	08/14/06	RT-PCR
El Dorado	Somerset	95684	Pacific-slope Flycatcher	08/04/06	08/14/06	RT-PCR
El Dorado	South Lake Tahoe	96150	Steller's Jay	08/01/06	08/14/06	RT-PCR
Fresno	Fresno	93727	American Crow	08/01/06	08/01/06	VecTest
Fresno	Fresno	93722	American Crow	08/10/06	08/10/06	VecTest
Fresno	Fresno	93710	American Crow	08/11/06	08/11/06	VecTest
Fresno	Selma	93662	Barn Owl	08/02/06	08/14/06	RT-PCR
Fresno	Fresno	93711	Green Heron	07/31/06	08/14/06	RT-PCR
Fresno	Fresno	93727	Western Scrub-Jay	08/04/06	08/14/06	RT-PCR
Glenn	Orland	95963	American Crow	08/07/06	08/14/06	RT-PCR
Glenn	Orland	95963	American Crow	08/08/06	08/14/06	RT-PCR
Glenn	Willows	95988	American Crow	08/01/06	08/14/06	RT-PCR
Glenn	Willows	95988	American Crow	08/02/06	08/14/06	RT-PCR
Glenn	Willows	95988	American Crow	08/02/06	08/14/06	RT-PCR
Glenn	Willows	95988	American Crow	08/04/06	08/14/06	RT-PCR
Glenn	Willows	95988	American Crow	08/04/06	08/14/06	RT-PCR
Glenn	Orland	95963	European Starling	08/07/06	08/14/06	RT-PCR
Glenn	Orland	95963	Western Scrub-Jay	08/07/06	08/14/06	RT-PCR
Glenn	Willows	95988	Western Scrub-Jay	08/04/06	08/14/06	RT-PCR
Glenn	Orland	95963	Yellow-billed Magpie	08/03/06	08/14/06	RT-PCR
Glenn	Orland	95963	Yellow-billed Magpie	08/08/06	08/14/06	RT-PCR
Humboldt	Arcata	95521	Black-crowned Night-Heron	08/07/06	08/14/06	RT-PCR
Inyo	Bishop	93514	American Crow	08/01/06	08/14/06	RT-PCR
Kern	Bakersfield	93301	American Crow	08/04/06	08/14/06	RT-PCR
Kern	Edwards	93523	Barn Owl	08/02/06	08/14/06	RT-PCR
Kern	Bakersfield	93306	Common Raven	08/03/06	08/14/06	RT-PCR
Kern	Bakersfield	93312	Western Scrub-Jay	08/02/06	08/14/06	RT-PCR
Los Angeles	Burbank	91506	American Crow	08/03/06	08/14/06	RT-PCR
Los Angeles	Reseda	91335	American Crow	08/05/06	08/14/06	RT-PCR
Los Angeles	West Covina	91791	American Crow	08/02/06	08/14/06	RT-PCR
Los Angeles	Santa Monica	90403	American Crow	08/02/06	08/02/06	VecTest
Los Angeles	Van Nuys	91406	American Crow	08/02/06	08/02/06	VecTest

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Los Angeles	Castaic	91384	American Robin	08/07/06	08/14/06	RT-PCR
Los Angeles	Castaic	91384	Burrowing Owl	08/07/06	08/14/06	RT-PCR
Los Angeles	Gardena	90247	House Finch	08/07/06	08/14/06	RT-PCR
Los Angeles	Los Angeles	90068	House Sparrow	08/02/06	08/14/06	RT-PCR
Los Angeles	Pacific Palisades	90272	Northern Mockingbird	07/31/06	08/14/06	RT-PCR
Los Angeles	Encino	91436	Swainson's Hawk	08/07/06	08/14/06	RT-PCR
Merced	Gustine	95322	American Crow	08/08/06	08/14/06	RT-PCR
Merced	Merced	95340	American Crow	07/31/06	08/14/06	RT-PCR
Merced	Merced	95340	House Sparrow	08/03/06	08/14/06	RT-PCR
Merced	Atwater	95301	Western Scrub-Jay	08/01/06	08/14/06	RT-PCR
Merced	Atwater	95301	Yellow-billed Magpie	07/31/06	08/14/06	RT-PCR
Merced	Atwater	95301	Yellow-billed Magpie	08/01/06	08/14/06	RT-PCR
Merced	Delhi	95315	Yellow-billed Magpie	08/05/06	08/14/06	RT-PCR
Monterey	Salinas	93907	California Towhee	08/02/06	08/14/06	RT-PCR
Monterey	Pacific Grove	93950	House Sparrow	08/08/06	08/14/06	RT-PCR
Nevada	Grass Valley	95949	Black-headed Grosbeak	08/06/06	08/14/06	RT-PCR
Orange	Irvine	92612	American Crow	07/13/06	07/13/06	IHC
Orange	Yorba Linda	92886	Mourning Dove	07/14/06	07/14/06	IHC
Placer	Roseville	95747	American Crow	08/02/06	08/14/06	RT-PCR
Placer	Roseville	95678	American Robin	08/02/06	08/14/06	RT-PCR
Placer	Lincoln	95648	House Sparrow	08/03/06	08/14/06	RT-PCR
Sacramento	Sacramento	95823	American Crow	08/08/06	08/14/06	RT-PCR
Sacramento	Sacramento	95833	American Crow	08/08/06	08/14/06	RT-PCR
Sacramento	Sacramento	95822	House Finch	08/07/06	08/14/06	RT-PCR
Sacramento	Wilton	95693	Northern Mockingbird	08/07/06	08/14/06	RT-PCR
Sacramento	Sacramento	95864	Sharp-shinned Hawk	08/06/06	08/14/06	RT-PCR
Sacramento	Citrus Heights	95610	Western Scrub-Jay	08/01/06	08/14/06	RT-PCR
Sacramento	Elk Grove	95758	Western Scrub-Jay	08/02/06	08/14/06	RT-PCR
Sacramento	Elk Grove	95624	Western Scrub-Jay	08/03/06	08/14/06	RT-PCR
Sacramento	Wilton	95693	Western Scrub-Jay	08/02/06	08/14/06	RT-PCR
Sacramento	Elk Grove	95624	Yellow-billed Magpie	08/02/06	08/14/06	RT-PCR
San Bernardino	Hinkley	92347	Western Screech Owl	08/01/06	08/14/06	RT-PCR
San Bernardino	Upland	91784	Western Scrub-Jay	08/03/06	08/14/06	RT-PCR
San Joaquin	Tracy	95304	American Crow	07/20/06	07/20/06	RAMP
San Joaquin	Tracy	95376	American Crow	07/20/06	07/20/06	RAMP
San Luis Obispo	Santa Margarita	93453	Swainson's Hawk	07/25/06	08/14/06	RT-PCR
San Mateo	South San Francisco	94080	House Sparrow	08/07/06	08/14/06	RT-PCR
Santa Barbara	Carpinteria	93013	Band-tailed Pigeon	07/31/06	08/14/06	RT-PCR
Santa Clara	Cupertino	95014	Western Scrub-Jay	08/07/06	08/14/06	RT-PCR
Santa Clara	San Jose	95130	Western Scrub-Jay	07/31/06	08/14/06	RT-PCR
Santa Clara	San Jose	95128	Western Scrub-Jay	07/31/06	08/14/06	RT-PCR
Santa Clara	San Jose	95129	Western Scrub-Jay	08/02/06	08/14/06	RT-PCR
Santa Clara	San Jose	95130	Western Scrub-Jay	08/03/06	08/14/06	RT-PCR
Santa Clara	San Jose	95129	Western Scrub-Jay	08/07/06	08/14/06	RT-PCR
Santa Clara	Saratoga	95070	Western Scrub-Jay	08/07/06	08/14/06	RT-PCR
Shasta	Redding	96001	American Crow	08/07/06	08/07/06	VecTest
Shasta	Redding	96003	American Crow	08/11/06	08/11/06	VecTest
Shasta	Redding	96001	American Crow	08/11/06	08/11/06	VecTest
Shasta	Redding	96001	Western Scrub-Jay	08/03/06	08/14/06	RT-PCR
Shasta	Anderson	96007	Western Scrub-Jay	08/10/06	08/10/06	VecTest

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Shasta	Cottonwood	96022	Western Scrub-Jay	08/08/06	08/08/06	VecTest
Shasta	Millville	96062	Western Scrub-Jay	08/07/06	08/07/06	VecTest
Solano	Dixon	95620	American Crow	08/08/06	08/14/06	RT-PCR
Solano	Vallejo	94589	Flamingo	08/09/06	08/12/06	RT-PCR
Sonoma	Glen Ellen	95442	American Crow	08/02/06	08/14/06	RT-PCR
Sonoma	Santa Rosa	95409	American Crow	08/07/06	08/07/06	RAMP
Stanislaus	Modesto	95355	American Crow	08/02/06	08/14/06	RT-PCR
Stanislaus	Modesto	95357	American Crow	08/08/06	08/14/06	RT-PCR
Stanislaus	Modesto	95356	Mourning Dove	08/07/06	08/14/06	RT-PCR
Stanislaus	Modesto	95354	Northern Mockingbird	08/03/06	08/14/06	RT-PCR
Stanislaus	Modesto	95358	Western Scrub-Jay	08/01/06	08/14/06	RT-PCR
Stanislaus	Modesto	95351	Western Scrub-Jay	08/03/06	08/14/06	RT-PCR
Stanislaus	Modesto	95358	Yellow-billed Magpie	08/02/06	08/14/06	RT-PCR
Stanislaus	Modesto	95358	Yellow-billed Magpie	08/02/06	08/14/06	RT-PCR
Stanislaus	Oakdale	95361	Yellow-billed Magpie	08/07/06	08/14/06	RT-PCR
Stanislaus	Turlock	95380	Yellow-billed Magpie	07/31/06	08/14/06	RT-PCR
Tehama	Red Bluff	96080	American Crow	08/10/06	08/10/06	VecTest
Tehama	Red Bluff	96080	Western Scrub-Jay	08/07/06	08/14/06	RT-PCR
Trinity	Weaverville	96093	Western Scrub-Jay	07/26/06	08/14/06	RT-PCR
Tulare	Visalia	93277	American Robin	08/08/06	08/14/06	RT-PCR
Tulare	Visalia	93277	Parakeet	07/26/06	08/14/06	RT-PCR
Ventura	Thousand Oaks	91360	American Crow	08/03/06	08/14/06	RT-PCR
Ventura	Thousand Oaks	91362	American Crow	08/08/06	08/14/06	RT-PCR
Ventura	Ventura	93003	Bullock's Oriole	08/08/06	08/14/06	RT-PCR
Ventura	Ventura	93003	House Sparrow	08/07/06	08/14/06	RT-PCR
Ventura	Thousand Oaks	91362	Purple Finch	08/08/06	08/14/06	RT-PCR
Ventura	Thousand Oaks	91362	Western Scrub-Jay	08/07/06	08/14/06	RT-PCR
Ventura	Thousand Oaks	91360	Western Scrub-Jay	08/07/06	08/14/06	RT-PCR
Yolo	Woodland	95776	Black-crowned Night-Heron	08/07/06	08/14/06	RT-PCR
Yolo	Davis	95616	House Finch	08/04/06	08/14/06	RT-PCR
Yolo	Woodland	95776	Snowy Egret	08/02/06	08/14/06	RT-PCR
Yolo	Davis	95616	Yellow-billed Magpie	08/03/06	08/14/06	RT-PCR
Yolo	Davis	95616	Yellow-billed Magpie	08/05/06	08/14/06	RT-PCR

National Comments: As of August 15, 2006, WNV activity had been reported from 41 states and New York City (NYC). A total of 388 human cases were reported to the Centers for Disease Control and Prevention (CDC) from 26 states: Arizona (5), California (36), Colorado (23), Connecticut (1), Georgia (1), Idaho (112), Illinois (2), Indiana (1), Iowa (4), Kansas (1), Michigan (1), Minnesota (19), Mississippi (29), Missouri (2), Montana (2), Nebraska (8), Nevada (27), New York (1), North Dakota (5), Oklahoma (4), Oregon (4), Pennsylvania (4), South Dakota (27), Texas (55), Utah (13), and Wyoming (1). Of the 383 cases where data was available, 158 (41%) had West Nile neuroinvasive disease (i.e. encephalitis or meningitis). The median age of the cases was 49 years (range: 2-91 years) and 56% were male. Thirteen WNV-associated fatalities have been reported in 2006, from Idaho (2), Michigan (1), Minnesota (2), Mississippi (2), Oklahoma (1), and Texas (5).

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TEST PROTOCOLS

Dead Birds:

All bird species from all zip codes are currently being accepted for testing unless otherwise requested by a local agency. Additionally, once WNV has been detected within a county, doves, pigeons, and chickens will no longer be accepted for testing from that county. Corvids that test positive via RAMP or VecTest are no longer confirmed. Dead birds are necropsied at the California Animal Health and Food Safety (CAHFS) laboratory at UC Davis. Oral swabs from American Crows and kidney tissue from all other dead birds are forwarded to the UC Davis Center for Vector borne Diseases (CVEC) for WNV testing using the singleplex RT-PCR Taqman assay and confirmed with a second primer set. The WNV Dead Bird Surveillance Coordinator, Ryan Carney, can be reached directly at (510) 412-6254.

Sentinel Chickens:

Dried blood spot specimens from sentinel chickens submitted each week to the DHS Viral and Rickettsial Disease Laboratory (VRDL) are tested for the presence of antibodies to West Nile virus (WNV), western equine encephalomyelitis (WEE), and St. Louis encephalitis (SLE) viruses by EIA and IFA. The VRDL performs additional testing, including plaque reduction neutralization (PRNT), on specimens from sentinel chickens from geographic areas where WNV is detected for the first time.

Mosquito Pools:

All mosquito pools are screened for WEE, SLE, and WNV viral RNA using a Taqman multiplex RT-PCR. CVEC will cease confirmation testing on PCR-positive pools of *Cx. tarsalis* and *Cx. quinquefasciatus* but will continue to confirm multiplex PCR-positive results for other mosquito species using singleplex RT-PCR.

Prepared by the Vector-Borne Disease Section (Infectious Diseases Branch) and the Viral and Rickettsial Disease Laboratory Branch, Division of Communicable Disease Control, California Department of Health Services, 850 Marina Bay Parkway, Richmond, CA 94804. Questions concerning this bulletin should be addressed to Tina Albrecht by phone (510) 412-6298, FAX (510) 412-6263, or email [talbrech@dhs.ca.gov].