

California Arbovirus Surveillance Bulletin # 24

Week 31 Friday, August 5, 2006

Weekly Summary

COMMENTS

Humans

There were four new West Nile virus (WNV) human cases this week with a total of 20 identified this year from the following eight counties: Colusa (1), Fresno (1), Kern (11), Sacramento (1), San Joaquin (1), Stanislaus (1), Sutter (1), and Yolo (3). Of the 20 WNV cases, 7 (35%) have been classified as West Nile neuroinvasive disease, and 11 (55%) as West Nile fever. The clinical presentation of two cases is unknown. The median age of all cases is 38 years. There have been no WNV-related fatalities reported in California in 2006.

Horses

This week, the California Department of Food & Agriculture reported three equine cases of WNV from Kern, Lassen and Stanislaus Counties. This year, eight horses have tested positive for WNV from Kern (1), Lassen (2), Merced (2), San Joaquin (1), Stanislaus (1), and Tulare (1) counties.

Dead Birds

This week, 80 out of 237 (33.8%) dead birds collected from 43 counties tested positive for WNV.

- 56/184 dead birds tested positive via RT-PCR.
- 20/48 dead birds tested positive via VecTest.
- 4/5 dead birds tested positive via RAMP.

The WNV positive dead birds were collected from the following counties: Alameda (1); Butte (3); Colusa (1); Contra Costa (3); El Dorado (1); Fresno (5); Glenn (3); Kern (1); Kings (2); Lake (1); Los Angeles (1); Merced (5); Napa (1); Nevada (1); Sacramento (3); San Diego (1); San Joaquin (5); Santa Clara (7); Shasta (10); Sonoma (1); Stanislaus (5); Tehama (1); Ventura (5) and Yolo (13). **This is the first indication of WNV activity in Alameda, Colusa, Napa, Nevada, Sonoma, and Tehama counties in 2006.**

In 2006, 299 out of 3,209 (9.3%) dead birds have tested positive for WNV from 32 counties: Alameda (1); Butte (5); Colusa (1); Contra Costa (12); El Dorado (1); Fresno (38); Glenn (5); Kern (6); Kings (7); Lake (2); Lassen (1); Los Angeles (1); Merced (14); Napa (1); Nevada (1); Orange (19); Placer (2); Sacramento (16); San Bernardino (3); San Diego (4); San Joaquin (28); San Mateo (1); Santa Clara (36); Shasta (18); Solano (6); Sonoma (1); Stanislaus (31); Sutter (2); Tehama (1); Ventura (8); Yolo (26) and Yuba (1).

The hotline has received a total of 28,748 dead bird reports this year.

Mosquito Pools

CVEC reported 44 WNV positive mosquito pools this week from Alameda (1), Calaveras (1), Contra Costa (6), Fresno (4), Imperial (3), Kern (16), Kings (3), Placer (1), San Bernardino (1), Shasta (1), Stanislaus (1), and Sutter (6) Counties. **This is the first indication of WNV activity in Calaveras County in 2006.**

Sac-Yolo MVCD reported 21 WNV positive mosquito pools from Sacramento (11) and Yolo (10) Counties. Seven mosquito pools tested positive for WNV by RAMP only from Contra Costa (2), Stanislaus (4), and Santa Clara (1) Counties.

In 2006, 349 mosquito pools have tested positive for WNV from 25 counties: Alameda (1), Calaveras (1), Contra Costa (13); El Dorado (2); Fresno (25); Glenn (1); Imperial (10); Inyo (3); Kern (107); Kings (14); Los Angeles (7); Merced (2); Orange (1); Placer (6); Riverside (7); Sacramento (16); San Bernardino (2), San Joaquin (12); Santa Clara (5); Shasta (1), Solano (1); Stanislaus (22); Sutter (49); Yolo (39); and Yuba (2). One mosquito pool from Kern County has tested positive for WEEV this year.

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Sentinel Chickens

VRDL reported 70 new WNV positive chickens this week from Fresno (1), Imperial (13), Kern (26), Kings (10), Riverside (1), Stanislaus (8), Sutter (4), Tulare (1), and Yolo (6) counties. There were 15 new flavivirus positive chickens from Fresno (1), Imperial (3), Kern (1), Riverside (2), San Bernardino (5), and Tulare (3) counties. Additionally, Sac-Yolo MVCD reported the following flavivirus positives: Placer County (5), Sacramento (2) and Yolo County (11). VRDL will conduct additional tests to confirm SLE or WNV.

In 2006, 81 WNV seroconversions have been confirmed in chickens from Fresno (2), Imperial (19), Kern (26), Kings (10), Los Angeles (4), Riverside (1), Stanislaus (8), Sutter (4), Tulare (1), and Yolo (6) counties. Fifty-three flavivirus seroconversions have been detected in chickens that have not been confirmed as either WNV or SLE.

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	24	0	4	0	0	0	0	0	0
	YTD	760	0	20	0	0	0	0	0	0
Horses Tested	Week	245	0	3	0	0	0	0	0	0
	YTD	238	0	8	0	0	0	0	0	0

Dead Birds

	Number Tested	WNV Positive
Week	237	80
YTD	3209	299

Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Flavivirus* Positive
	YTD	18,797	81	0	0	53
Mosquito pools	Week	381	44	0	0	0
	YTD	8491	272	1	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	2913	56	0	0	0
RAMP	Week	86	7	N/A	N/A	N/A
	YTD	945	21*	--	--	--

*Total does not include positive pools confirmed by RT-PCR

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POSITIVES

West Nile Virus Cases Reported July 31- August 4, 2006

County	ID #	Report Date	Age	Sex	Clinical Presentation	Onset Date	WNV Fatality?
Colusa	06-0018	8/2/06	>18	n/a	WNF	7/18/06	No
Kern	06-0017	8/1/06	38	M	WNND	7/15/06	No
Sacramento	06-0020	8/4/06	50	F	WNND	7/23/06	No
Yolo	06-0019	8/3/06	>18	F	n/a	n/a	No

Mosquito Pools

Agency Code	County	City	Pool #	Species	Collected	Tested	Virus
AFSB0038	Kern	Shafter	5646	Cx tarsalis	7/27/2006	8/3/2006	WN
AFSB0059	Kern	Buttonwillow	5644	Cx tarsalis	7/27/2006	8/3/2006	WN
AFSB0062	Kern	Lost Hills	5638	Cx tarsalis	7/27/2006	8/3/2006	WN
AFSB0090	Kern	Lost Hills	5639	Cx tarsalis	7/27/2006	8/3/2006	WN
AFSB0091	Kern	Lost Hills	5641	Cx tarsalis	7/27/2006	8/3/2006	WN
ALCO3134	Alameda	Alameda	80	Cx tarsalis	7/24/2006	8/3/2006	WN
CALV3002	Calaveras	Burson	1	Cx tarsalis	7/26/2006	8/2/2006	WN
CNSL1177	Fresno	Clovis	148	Cx quinquefasciatus	7/27/2006	8/3/2006	WN
CNSL4030	Fresno	Selma	280	Cx tarsalis	8/1/2006	8/3/2006	WN
CNSL4033	Fresno	Selma	282	Cx quinquefasciatus	8/1/2006	8/3/2006	WN
CNSL6056	Fresno	Riverdale	275	Cx quinquefasciatus	7/26/2006	8/3/2006	WN
CNTR*	Antioch	Contra Costa	111	Cx tarsalis	8/1/2006	8/4/2006	WN
CNTR*	Oakley	Contra Costa	116	Cx pipiens	8/1/2006	8/4/2006	WN
CNTR2149	Contra Costa	Martinez	1165	Cx tarsalis	7/25/2006	8/2/2006	WN
CNTR2202	Contra Costa	Martinez	216	Cx tarsalis	8/1/2006	8/3/2006	WN
CNTR2900	Contra Costa	Martinez	1163	Cx pipiens	7/25/2006	8/2/2006	WN
CNTR2900	Contra Costa	Martinez	1164	Cx tarsalis	7/25/2006	8/2/2006	WN
CNTR2900	Contra Costa	Martinez	1166	Cx pipiens	7/24/2006	8/2/2006	WN
CNTR7901	Contra Costa	Oakley	201	Cx tarsalis	7/31/2006	8/3/2006	WN
COAV5001	Imperial	Niland	1115	Cx tarsalis	7/27/2006	8/3/2006	WN
COAV5002	Imperial	Niland	1116	Cx tarsalis	7/27/2006	8/3/2006	WN
COAV5003	Imperial	Westmoreland	1118	Cx tarsalis	7/27/2006	8/3/2006	WN
DAVI5101*	Yolo	Davis	864	Cx tarsalis	7/26/2006	7/28/2006	WN
DAVI5101*	Yolo	Davis	865	Cx tarsalis	7/26/2006	7/28/2006	WN
DAVI5121*	Yolo	Davis	912	Cx tarsalis	7/26/2006	7/28/2006	WN
EAST1023*	Modesto	Stanislaus	53	Cx pipiens	8/2/2006	8/3/2006	WN
EAST1023*	Modesto	Stanislaus	56	Cx pipiens	8/2/2006	8/3/2006	WN
EAST1024*	Modesto	Stanislaus	60	Cx pipiens	8/2/2006	8/3/2006	WN
EAST1024*	Modesto	Stanislaus	66	Cx stigmatosoma	8/2/2006	8/3/2006	WN
KERN0008	Kern	Bakersfield	347	Cx tarsalis	7/25/2006	8/3/2006	WN
KERN0009	Kern	Bakersfield	348	Cx quinquefasciatus	7/25/2006	8/3/2006	WN
KERN0014	Kern	Bakersfield	350	Cx tarsalis	7/25/2006	8/3/2006	WN
KERN0015	Kern	Pumpkin Center	353	Cx tarsalis	7/25/2006	8/3/2006	WN

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KERN0015	Kern	Pumpkin Center	355	Cx quinquefasciatus	7/25/2006	8/4/2006	WN
KERN0015	Kern	Pumpkin Center	356	Cx quinquefasciatus	7/25/2006	8/3/2006	WN
KERN0027	Kern	Bakersfield	358	Cx tarsalis	7/27/2006	8/3/2006	WN
KERN0031	Kern	Arvin	360	Cx tarsalis	7/27/2006	8/3/2006	WN
KERN0033	Kern	Arvin	369	Cx quinquefasciatus	7/27/2006	8/3/2006	WN
KERN0083	Kern	Arvin	365	Cx quinquefasciatus	7/27/2006	8/3/2006	WN
KNGS3018	Kings	Lemoore	199	Cx tarsalis	7/25/2006	8/2/2006	WN
KNGS3027	Kings	Lemoore	196	Cx tarsalis	7/25/2006	8/2/2006	WN
KNGS9003	Kings	Lemoore	192	Cx tarsalis	7/21/2006	8/2/2006	WN
PLCR0289	Placer	Lincoln	189	Cx pipiens	7/26/2006	8/2/2006	WN
SAYO1104*	Yolo		1857	Cx tarsalis	7/26/2006	7/28/2006	WN
SAYO2113*	Sacramento	Sac. Airport	1862	Cx tarsalis	7/26/2006	7/28/2006	WN
SAYO2113*	Sacramento	Sac. Airport	1863	Cx tarsalis	7/26/2006	7/28/2006	WN
SAYO2213*	Sacramento		1827	Cx tarsalis	7/26/2006	7/28/2006	WN
SAYO2308*	Sacramento		1780	Cx tarsalis	7/26/2006	7/28/2006	WN
SAYO2308*	Sacramento		1781	Cx tarsalis	7/26/2006	7/28/2006	WN
SAYO3233*	Yolo		1812	Cx tarsalis	7/26/2006	7/28/2006	WN
SAYO3233*	Yolo		1881	Cx pipiens	7/26/2006	7/28/2006	WN
SAYO3233*	Yolo		1882	Cx tarsalis	7/26/2006	7/28/2006	WN
SAYO3284*	Yolo	Woodland	1895	Cx pipiens	7/26/2006	7/28/2006	WN
SAYO3346*	Yolo		1949	Cx tarsalis	7/26/2006	7/31/2006	WN
SAYO3346*	Yolo		1950	Cx tarsalis	7/26/2006	7/31/2006	WN
SAYO4204*	Sacramento		1799	Cx pipiens	7/26/2006	7/28/2006	WN
SAYO4251*	Sacramento	Elk Grove	1872	Cx tarsalis	7/26/2006	7/28/2006	WN
SAYO4263*	Sacramento		1903	Cx pipiens	7/26/2006	7/28/2006	WN
SAYO4361*	Sacramento		1773	Cx tarsalis	7/26/2006	7/28/2006	WN
SAYO4366*	Sacramento		1792	Cx pipiens	7/26/2006	7/28/2006	WN
SAYO4368*	Sacramento		1789	Cx tarsalis	7/26/2006	7/28/2006	WN
SHAS0058	Shasta	Redding	12	Cx pipiens	7/25/2006	8/2/2006	WN
STCL*	Campbell	Santa Clara	51	Cx pipiens	7/26/2006	7/26/2006	WN
SUYA0014	Sutter	Sutter	341	Cx tarsalis	8/1/2006	8/3/2006	WN
SUYA0022	Sutter	Tudor	332	Cx tarsalis	7/31/2006	8/3/2006	WN
SUYA0031	Sutter	Rio Oso	321	Cx tarsalis	7/31/2006	8/4/2006	WN
SUYA0044	Sutter	Pleasant Grove	316	Cx tarsalis	7/31/2006	8/3/2006	WN
SUYA0044	Sutter	Pleasant Grove	317	Cx tarsalis	7/31/2006	8/3/2006	WN
SUYA0044	Sutter	Pleasant Grove	335	Cx tarsalis	8/1/2006	8/4/2006	WN
TRLK0609	Stanislaus	Turlock	1037	Cx pipiens	8/2/2006	8/3/2006	WN
WEST6219	Kern	Lost Hills	57	Cx tarsalis	8/2/2006	8/3/2006	WN
WVAL7002	San Bernardino	Montclair	385	Cx quinquefasciatus	7/28/06	7/31/06	WN

*Tested by local agency

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Sentinel Chicken Seroconversions

Site Number	County	Nearest City	Probable Seroconversion Date	Band #	Virus
CNSL5005	Fresno	Fresno	10-Jul-06	1365	WNV
CNSL5008	Fresno	Orange Cove	25-Jul-06	1397	Flavivirus
COAV0131	Riverside	Oasis	10-Jul-06	1232	WNV
COAV0200	Riverside	Mecca	24-Jul-06	1196	Flavivirus
COAV0200	Riverside	Mecca	24-Jul-06	1200	Flavivirus
COAV5001	Imperial	Niland	24-Jul-06	1241	WNV
COAV5002	Imperial	Niland	10-Jul-06	1251	WNV
COAV5002	Imperial	Niland	10-Jul-06	1252	WNV
COAV5002	Imperial	Niland	10-Jul-06	1254	WNV
COAV5002	Imperial	Niland	10-Jul-06	1256	WNV
COAV5002	Imperial	Niland	10-Jul-06	1259	WNV
COAV5002	Imperial	Niland	10-Jul-06	1260	WNV
COAV5002	Imperial	Niland	10-Jul-06	1273	WNV
COAV5002	Imperial	Niland	10-Jul-06	1287	WNV
COAV5003	Imperial	Westmoreland	24-Jul-06	1261	WNV
COAV5003	Imperial	Westmoreland	10-Jul-06	1265	WNV
COAV5003	Imperial	Westmoreland	10-Jul-06	1267	WNV
COAV5003	Imperial	Westmoreland	10-Jul-06	1270	WNV
DLNO0060	Kern	Delano	06-Jul-06	1483	WNV
IMPR0002	Imperial	Seeley	25-Jul-06	1777	Flavivirus
IMPR0002	Imperial	Seeley	25-Jul-06	1778	Flavivirus
IMPR0002	Imperial	Seeley	25-Jul-06	1781	Flavivirus
KERN0104	Kern	Bakersfield	03-Jul-06	1886	WNV
KERN0104	Kern	Bakersfield	17-Jul-06	1881	WNV
KERN0104	Kern	Bakersfield	17-Jul-06	1883	WNV
KERN0104	Kern	Bakersfield	17-Jul-06	1888	WNV
KERN0104	Kern	Bakersfield	17-Jul-06	1889	WNV
KERN0107	Kern	Arvin	03-Jul-06	1911	WNV
KERN0107	Kern	Arvin	03-Jul-06	1912	WNV
KERN0107	Kern	Arvin	03-Jul-06	1913	WNV
KERN0107	Kern	Arvin	03-Jul-06	1915	WNV
KERN0107	Kern	Arvin	03-Jul-06	1916	WNV
KERN0107	Kern	Arvin	03-Jul-06	1917	WNV
KERN0107	Kern	Arvin	03-Jul-06	1919	WNV
KERN0107	Kern	Arvin	17-Jul-06	1914	WNV
KERN0107	Kern	Arvin	17-Jul-06	1918	WNV
KERN0107	Kern	Arvin	17-Jul-06	1920	WNV
KERN0113	Kern	Bakersfield	03-Jul-06	1943	WNV
KERN0113	Kern	Bakersfield	03-Jul-06	1945	WNV
KERN0113	Kern	Bakersfield	03-Jul-06	1946	WNV
KERN0113	Kern	Bakersfield	03-Jul-06	1949	WNV
KERN0113	Kern	Bakersfield	17-Jul-06	1941	WNV
KERN0113	Kern	Bakersfield	17-Jul-06	1942	WNV
KERN0113	Kern	Bakersfield	17-Jul-06	1944	WNV
KERN0113	Kern	Bakersfield	17-Jul-06	1947	WNV
KERN0113	Kern	Bakersfield	17-Jul-06	1948	WNV
KERN0113	Kern	Bakersfield	17-Jul-06	1950	WNV
KNGS2001	Kings	KMAD Facility	10-Jul-06	2005	WNV

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KNGS2001	Kings	KMAD Facility	10-Jul-06	2009	WNV
KNGS2003	Kings	Stratford	10-Jul-06	2028	WNV
KNGS2003	Kings	Stratford	10-Jul-06	2030	WNV
KNGS2004	Kings	Corcoran	10-Jul-06	2033	WNV
KNGS2004	Kings	Corcoran	10-Jul-06	2034	WNV
KNGS2004	Kings	Corcoran	10-Jul-06	2035	WNV
KNGS2004	Kings	Corcoran	10-Jul-06	2038	WNV
KNGS2004	Kings	Corcoran	10-Jul-06	2039	WNV
KNGS2004	Kings	Corcoran	24-Jul-06	2036	WNV
PLCR0025*	Placer	Lincoln	01-Aug-06	2579	Flavivirus
PLCR0025*	Placer	Lincoln	01-Aug-06	2583	Flavivirus
PLCR0201*	Placer	Roseville	01-Aug-06	2593	Flavivirus
PLCR0201*	Placer	Roseville	01-Aug-06	2595	Flavivirus
PLCR0201*	Placer	Roseville	01-Aug-06	2596	Flavivirus
SANB0001	San Bernardino	Needles	24-Jul-06	2819	Flavivirus
SANB0001	San Bernardino	Needles	24-Jul-06	2820	Flavivirus
SANB0001	San Bernardino	Needles	24-Jul-06	2822	Flavivirus
SANB0003	San Bernardino	Colton	25-Jul-06	2836	Flavivirus
SANB0007	San Bernardino	Fontana	25-Jul-06	2882	Flavivirus
SAYO6000*	Yolo	Dunnigan	01-Aug-06	2787	Flavivirus
SAYO6000*	Yolo	Dunnigan	01-Aug-06	2789	Flavivirus
SAYO6000	Yolo	Dunnigan	20-Jul-06	2788	WNV
SAYO6000	Yolo	Dunnigan	20-Jul-06	2791	WNV
SAYO6001*	Yolo	Knights Landing	01-Aug-06	2777	Flavivirus
SAYO6002*	Yolo	Merritt	01-Aug-06	2750	Flavivirus
SAYO6002*	Yolo	Merritt	01-Aug-06	2756	Flavivirus
SAYO6002*	Yolo	Merritt	01-Aug-06	2758	Flavivirus
SAYO6002	Yolo	Woodland	20-Jul-06	2755	WNV
SAYO6003*	Yolo	Winters	01-Aug-06	2762	Flavivirus
SAYO6003*	Yolo	Winters	01-Aug-06	2763	Flavivirus
SAYO6003*	Yolo	Winters	01-Aug-06	2764	Flavivirus
SAYO6003*	Yolo	Winters	01-Aug-06	2765	Flavivirus
SAYO6003*	Yolo	Winters	01-Aug-06	2768	Flavivirus
SAYO6003	Yolo	Winters	20-Jul-06	2760	WNV
SAYO6003	Yolo	Winters	20-Jul-06	2767	WNV
SAYO6003	Yolo	Winters	20-Jul-06	2769	WNV
SAYO7004*	Sacramento	Natomas	01-Aug-06	2686	Flavivirus
SAYO7004*	Sacramento	Natomas	01-Aug-06	2693	Flavivirus
SUYA0015	Sutter	Robbins	20-Jul-06	3404	WNV
SUYA0031	Sutter	Rio Oso	20-Jul-06	3411	WNV
SUYA0031	Sutter	Rio Oso	20-Jul-06	3413	WNV
SUYA0031	Sutter	Rio Oso	20-Jul-06	3414	WNV
TLRE0011	Tulare	Alpaugh	12-Jul-06	3483	WNV
TLRE0012	Tulare	Alpaugh	26-Jul-06	3491	Flavivirus
TLRE0012	Tulare	Alpaugh	26-Jul-06	3497	Flavivirus
TLRE0012	Tulare	Alpaugh	26-Jul-06	3500	Flavivirus
TRLK0529	Stanislaus	Vernalis	17-Jul-06	3511	WNV
TRLK0529	Stanislaus	Vernalis	17-Jul-06	3515	WNV
TRLK9701	Stanislaus	Grayson	03-Jul-06	3523	WNV
TRLK9701	Stanislaus	Grayson	17-Jul-06	3521	WNV
TRLK9701	Stanislaus	Grayson	17-Jul-06	3522	WNV
TRLK9702	Stanislaus	Patterson	03-Jul-06	3532	WNV

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TRLK9702	Stanislaus	Patterson	17-Jul-06	3533	WNV
TRLK9702	Stanislaus	Patterson	17-Jul-06	3541	WNV
WEST6202	Kern	Lost Hills Rd.	11-Jul-06	3661	Flavivirus

*Tested by local agency

WNV Positive Dead Birds

County	City	ZIP	Species	Collected	Tested	Tested By
Alameda	Dublin	94568	Mourning Dove	07/10/06	07/31/06	RT-PCR
Butte	Chico	95926	American Crow	07/21/06	07/31/06	RT-PCR
Butte	Chico	95926	American Crow	07/24/06	07/31/06	RT-PCR
Butte	Paradise	95969	American Crow	07/23/06	07/31/06	RT-PCR
Colusa	Colusa	95932	American Crow	07/24/06	07/31/06	RT-PCR
Contra Costa	Oakley	94561	House Finch	07/20/06	07/31/06	RT-PCR
Contra Costa	Oakley	94561	Western Scrub-Jay	07/24/06	07/31/06	RT-PCR
Contra Costa	Antioch	94509	Western Scrub-Jay	07/28/06	07/28/06	RAMP
El Dorado	Placerville	95667	American Crow	07/18/06	07/31/06	RT-PCR
Fresno	Fresno	93704	American Crow	07/14/06	07/14/06	VecTest
Fresno	Fresno	93705	American Crow	07/27/06	07/27/06	VecTest
Fresno	Fresno	93705	American Crow	07/27/06	07/27/06	VecTest
Fresno	Fresno	93721	American Robin	07/19/06	07/31/06	RT-PCR
Fresno	Fresno	93726	Mourning Dove	07/19/06	07/31/06	RT-PCR
Glenn	Orland	95963	American Crow	07/21/06	07/31/06	RT-PCR
Glenn	Willows	95988	American Crow	07/26/06	07/26/06	VecTest
Glenn	Willows	95988	Yellow-billed Magpie	07/24/06	07/31/06	RT-PCR
Kern	Bakersfield	93309	American Crow	07/23/06	07/31/06	RT-PCR
Kings	Lemoore	93245	American Crow	07/17/06	07/31/06	RT-PCR
Kings	Lemoore	93245	American Crow	07/20/06	07/31/06	RT-PCR
Lake	Kelseyville	95451	American Crow	07/25/06	07/25/06	VecTest
Los Angeles	Sherman Oaks	91423	American Crow	07/19/06	07/31/06	RT-PCR
Merced	Atwater	95301	American Crow	07/18/06	07/31/06	RT-PCR
Merced	Atwater	95301	Red-shouldered Hawk	07/18/06	07/31/06	RT-PCR
Merced	Gustine	95322	Western Scrub-Jay	07/20/06	07/31/06	RT-PCR
Merced	Merced	95340	Western Scrub-Jay	07/24/06	07/31/06	RT-PCR
Merced	Stevinson	95374	Western Scrub-Jay	07/25/06	07/31/06	RT-PCR
Napa	Napa	94558	American Crow	07/30/06	07/30/06	VecTest
Nevada	Penn Valley	95946	Lesser Goldfinch	07/24/06	07/31/06	RT-PCR
Sacramento	Wilton	95693	American Crow	07/19/06	07/31/06	RT-PCR
Sacramento	Sacramento	95831	American Robin	07/25/06	07/31/06	RT-PCR
Sacramento	Elverta	95626	Yellow-billed Magpie	07/21/06	07/31/06	RT-PCR
San Diego	San Diego	92105	Western Scrub-Jay	07/25/06	07/31/06	RT-PCR
San Joaquin	Stockton	95219	American Crow	07/27/06	07/27/06	VecTest
San Joaquin	Stockton	95206	American Crow	07/25/06	07/25/06	RAMP
San Joaquin	Manteca	95337	House Finch	07/20/06	07/31/06	RT-PCR
San Joaquin	Manteca	95337	House Finch	07/25/06	07/31/06	RT-PCR
San Joaquin	Lathrop	95330	Yellow-billed Magpie	07/24/06	07/31/06	RT-PCR
Santa Clara	Saratoga	95070	American Crow	07/20/06	07/20/06	VecTest
Santa Clara	Sunnyvale	94087	American Crow	07/21/06	07/21/06	RAMP
Santa Clara	Saratoga	95070	American Crow	07/24/06	07/24/06	RAMP

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Santa Clara	San Jose	95129	Western Scrub-Jay	07/18/06	07/31/06	RT-PCR
Santa Clara	Saratoga	95070	Western Scrub-Jay	07/18/06	07/31/06	RT-PCR
Santa Clara	Cupertino	95014	Western Scrub-Jay	07/20/06	07/20/06	VecTest
Santa Clara	Saratoga	95070	Western Scrub-Jay	07/20/06	07/20/06	VecTest
Shasta	Redding	96001	American Crow	07/27/06	07/27/06	VecTest
Shasta	Redding	96001	Western Scrub-Jay	07/26/06	07/26/06	VecTest
Shasta	Redding	96001	Western Scrub-Jay	07/27/06	07/27/06	VecTest
Shasta	Redding	96001	Western Scrub-Jay	07/28/06	07/28/06	VecTest
Shasta	Redding	96001	Western Scrub-Jay	07/28/06	07/28/06	VecTest
Shasta	Redding	96002	Western Scrub-Jay	07/28/06	07/28/06	VecTest
Shasta	Redding	96001	Yellow-billed Magpie	07/24/06	07/31/06	RT-PCR
Shasta	Redding	96001	Yellow-billed Magpie	07/26/06	07/26/06	VecTest
Shasta	Redding	96001	Yellow-billed Magpie	07/27/06	07/27/06	VecTest
Shasta	Redding	96001	Yellow-billed Magpie	07/28/06	07/28/06	VecTest
Sonoma	Santa Rosa	95404	American Crow	07/21/06	07/31/06	RT-PCR
Stanislaus	Turlock	95382	American Crow	07/24/06	07/24/06	VecTest
Stanislaus	Newman	95360	Brewer's Blackbird	07/21/06	07/31/06	RT-PCR
Stanislaus	Denair	95316	Yellow-billed Magpie	07/21/06	07/31/06	RT-PCR
Stanislaus	Modesto	95350	Yellow-billed Magpie	07/19/06	07/31/06	RT-PCR
Stanislaus	Turlock	95382	Yellow-billed Magpie	07/18/06	07/31/06	RT-PCR
Tehama	Red Bluff	96080	American Crow	07/25/06	07/31/06	RT-PCR
Ventura	Thousand Oaks	91360	American Crow	07/19/06	07/31/06	RT-PCR
Ventura	Thousand Oaks	91360	American Crow	07/19/06	07/31/06	RT-PCR
Ventura	Thousand Oaks	91362	American Crow	07/19/06	07/31/06	RT-PCR
Ventura	Thousand Oaks	91360	American Crow	07/24/06	07/31/06	RT-PCR
Ventura	Fillmore	93015	Brown-headed Cowbird	07/21/06	07/31/06	RT-PCR
Yolo	Davis	95618	American Crow	07/19/06	07/31/06	RT-PCR
Yolo	Davis	95616	American Crow	07/24/06	07/31/06	RT-PCR
Yolo	Davis	95616	American Crow	07/26/06	07/31/06	RT-PCR
Yolo	Woodland	95776	Black-crowned Night-Heron	07/19/06	07/31/06	RT-PCR
Yolo	Woodland	95776	Snowy Egret	07/26/06	07/31/06	RT-PCR
Yolo	Clarksburg	95612	Western Scrub-Jay	07/21/06	07/31/06	RT-PCR
Yolo	Davis	95616	Western Scrub-Jay	07/24/06	07/31/06	RT-PCR
Yolo	Davis	95616	Western Scrub-Jay	07/25/06	07/31/06	RT-PCR
Yolo	Davis	95616	Western Scrub-Jay	07/26/06	07/31/06	RT-PCR
Yolo	Woodland	95695	Western Scrub-Jay	07/20/06	07/31/06	RT-PCR
Yolo	Woodland	95695	Western Scrub-Jay	07/24/06	07/31/06	RT-PCR
Yolo	Davis	95616	Yellow-billed Magpie	07/19/06	07/31/06	RT-PCR
Yolo	Davis	95616	Yellow-billed Magpie	07/21/06	07/31/06	RT-PCR

National Comments: As of August 1, 2006, WNV activity had been reported from 36 states and New York City (NYC). A total of 87 human cases were reported to the Centers for Disease Control and Prevention (CDC) from 17 states: Arizona (3), California (15), Colorado (3), Idaho (19), Indiana (1), Iowa (2), Kansas (1), Minnesota (3), Mississippi (11), Missouri (1), Nebraska (2), Nevada (3), North Dakota (1), Pennsylvania (1), South Dakota (13), Texas (6), and Utah (2). Of the 87 cases where data was available, 41 (47%) had West Nile neuroinvasive disease (i.e. encephalitis or meningitis). The median age of the cases was 49 years (range: 9-89 years) and 60% were male. Three WNV-associated fatalities have been reported in 2006, from Minnesota (1) and Mississippi (2).

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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 forward 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].