

California Arbovirus Surveillance Bulletin # 25

Week 32 Friday, August 11, 2006

Weekly Summary

COMMENTS

Humans

There were 18 new West Nile virus (WNV) cases this week with a total of 38 cases identified in 2006 from the following eleven counties: Colusa (1), Fresno (1), Glenn (2), Kern (17), Los Angeles (1), Modoc (1), Sacramento (2), San Joaquin (1), Stanislaus (1), Sutter (3), and Yolo (8). Of the 38 WNV cases, 9 (24%) have been classified as West Nile neuroinvasive disease, and 23 (61%) as West Nile fever. The clinical presentation of six cases is unknown. The median age of all cases is 38.5 years. There have been no WNV-related fatalities reported in California in 2006. Ten WNV-positive blood donation samples have been identified to date; five of the individuals later developed symptoms compatible with West Nile fever and were consequently reclassified as cases.

Horses

This week, the California Department of Food & Agriculture reported five equine cases of WNV from Fresno (2), Sacramento (1), Stanislaus (1), and Yuba (1) counties. These are the first equine cases this year for Fresno, Sacramento, and Yuba counties. In 2006, thirteen horses have tested positive for WNV from Fresno (2), Kern (1), Lassen (2), Merced (2), Sacramento (1), San Joaquin (1), Stanislaus (2), Tulare (1), and Yuba (1) counties.

Dead Birds

This week, 144 out of 282 (51.1 %) dead birds collected from 42 counties tested positive for WNV.

- 111/129 dead birds tested positive via RT-PCR.
- 21/37 dead birds tested positive via VecTest.
- 12/16 dead birds tested positive via RAMP.

The WNV positive dead birds were collected from the following counties: Alameda (2); Butte (12); Calaveras (2); Colusa (8); Contra Costa (16); El Dorado (2); Fresno (7); Glenn (9); Inyo (2); Kern (4); Kings (2); Lake (1); Marin (1); Mendocino (2); Merced (2); Placer (3); Sacramento (16); San Bernardino (1); San Joaquin (3); San Luis Obispo (1); Santa Clara (10); Shasta (8); Solano (3); Stanislaus (5); Tehama (2); Tulare (1); Ventura (3) and Yolo (16). **This is the first indication of WNV activity in Marin, Mendocino, and San Luis Obispo counties in 2006.**

In 2006, 443 out of 3,488 (12.4%) dead birds have tested positive for WNV from 38 counties: Alameda (3); Butte (17); Calaveras (2); Colusa (9); Contra Costa (28); El Dorado (3); Fresno (45); Glenn (14); Inyo (2); Kern (10); Kings (9); Lake (3); Lassen (1); Los Angeles (1); Marin (1); Mendocino (2); Merced (16); Napa (1); Nevada (1); Orange (19); Placer (5); Sacramento (32); San Bernardino (4); San Diego (4); San Joaquin (31); San Luis Obispo (1); San Mateo (1); Santa Clara (46); Shasta (26); Solano (9); Sonoma (1); Stanislaus (36); Sutter (2); Tehama (3); Tulare (1); Ventura (11); Yolo (42) and Yuba (1).

The California Department of Health Services has received a total of 30,972 dead bird reports (hotline and website) this year.

Mosquito Pools

CVEC reported 56 WNV positive mosquito pools this week from Alameda (2), Fresno (3), Kern (16), Lake (2), Los Angeles (16), Orange (1), Placer (5), Santa Barbara (1), Shasta (1), and Stanislaus (9) counties. **This is the first indication of WNV activity in Santa Barbara County in 2006.**

Sac-Yolo MVCD reported 9 WNV positive mosquito pools from Sacramento (3) and Yolo (6) counties by RT-PCR. Nine mosquito pools tested positive for WNV by RAMP only from San Bernardino (1) and San Joaquin (8) counties

In 2006, 423 mosquito pools have tested positive for WNV from 26 counties: Alameda (3), Calaveras (1), Contra Costa (13); El Dorado (2); Fresno (28); Glenn (1); Imperial (10); Inyo (3); Kern (123); Kings (14); Lake (2); Los Angeles (23); Merced (2); Orange (2); Placer (11); Riverside (7); Sacramento (19); San Bernardino (3), San Joaquin (20); Santa Barbara (1); Santa Clara (5); Shasta (2); Solano (1); Stanislaus (31); Sutter (49); Yolo (45); and Yuba (2). One mosquito pool from Kern County has tested positive for western equine encephalomyelitis virus this year.

California Arbovirus Surveillance Bulletin # 25

Week 32 Friday, August 11, 2006

Sentinel Chickens

VRDL reported 62 new WNV positive chickens this week from Butte (5), Fresno (6), Kern (32), Madera (1), Solano (7), Stanislaus (3), Sutter (5), Tulare (2), and Yolo (1) counties. There were five new flavivirus positive chickens from Fresno (2) and Stanislaus (3) counties. **Madera County's positive chicken was the first WNV activity for that county in 2006.**

Seroconversions were reported for the first time this year for Butte and Solano counties. Riverside County had the first western equine encephalomyelitis (WEE) seroconversions in the State this year with two sentinel chickens from the Coachella Valley.

In 2006, 143 WNV seroconversions have been confirmed in chickens from Butte (5), Fresno (8), Imperial (19), Kern (58), Kings (10), Los Angeles (4), Madera (1), Riverside (1), Solano (7), Stanislaus (11), Sutter (9), Tulare (3), and Yolo (7) counties. Twenty-three flavivirus seroconversions have been detected in chickens that have not been determined 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	44	0	18	0	0	0	0	0	0
	YTD	804	0	38	0	0	0	0	0	0
Horses Tested	Week	21	0	5	0	0	0	0	0	0
	YTD	274	0	13	0	0	0	0	0	0

Dead Birds

	Number Tested	WNV Positive
Week	282	144
YTD	3488	443

Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Flavivirus* Positive
	YTD	19,659	143	2	0	23
Mosquito pools	Week	640	56	0	0	0
	YTD	9131	328	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	3172	65	0	0	0	
RAMP	Week	156	9	N/A	N/A	N/A
	YTD	1101	30*	--	--	--
VecTest	Week	9	0	N/A	N/A	N/A
	YTD	9	0	--	--	--

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

California Arbovirus Surveillance Bulletin # 25

Week 32 Friday, August 11, 2006

POSITIVES

West Nile Virus Cases* Reported August 5th-August 11th, 2006

County ¹	ID #	Report Date	Age	Sex	Clinical Presentation ²	Onset Date	WNV Fatality?
Glenn	06-0033	8/8/2006	>18	F	WNF	n/a	NO
Glenn	06-0036	8/10/2006	>18	M	WNF	n/a	NO
Kern	06-0021	8/4/2006	18	M	WNF^	7/29/2006	NO
Kern	06-0025	8/7/2006	60	F	WNF	7/1/2006	NO
Kern	06-0026	8/7/2006	64	M	WNND	7/18/2006	NO
Kern	06-0027	8/7/2006	39	M	WNF	n/a	NO
Kern	06-0028	8/7/2006	37	M	WNF	7/20/2006	NO
Kern	06-0029	8/7/2006	34	F	WNF	7/14/2006	NO
Los Angeles	06-0022	8/4/2006	39	M	WNF	7/10/2006	NO
Modoc	06-0037	8/10/2006	>18	M	n/a	n/a	NO
Sacramento	06-0038	8/11/2006	21	M	WNND	7/31/2006	NO
Sutter	06-0023	8/7/2006	>18	n/a	WNF^	7/31/2006	NO
Sutter	06-0030	8/8/2006	>18	n/a	WNF^	8/5/2006	NO
Yolo	06-0024	8/7/2006	>18	M	WNF	7/23/2006	NO
Yolo	06-0031	8/8/2006	>18	M	n/a	8/3/2006	NO
Yolo	06-0032	8/8/2006	>18	F	WNF	8/2/2006	NO
Yolo	06-0034	8/10/2006	>18	F	n/a	7/26/2006	NO
Yolo	06-0035	8/10/2006	>18	M	n/a	8/1/2006	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

Mosquito Pools

Agency Code	County	City	Species	Pool #	collected	Tested	Virus
AFSB0050	Kern	Bakersfield	Cx tarsalis	5665	8/4/2006	8/10/2006	WN
AFSB0050	Kern	Bakersfield	Cx tarsalis	5667	8/4/2006	8/10/2006	WN
AFSB0054	Kern	Bakersfield	Cx tarsalis	5677	8/4/2006	8/10/2006	WN
AFSB0054	Kern	Bakersfield	Cx tarsalis	5678	8/4/2006	8/10/2006	WN
AFSB0070	Kern	Bakersfield	Cx tarsalis	5671	8/4/2006	8/10/2006	WN
AFSB0103	Kern	Bakersfield	Cx quinquefasciatus	5652	8/3/2006	8/9/2006	WN
ALCO0039	Alameda	Livermore	Cx tarsalis	100	8/2/2006	8/11/2006	WN
ALCO9038	Alameda	Pleasanton	Cx pipiens	102	8/2/2006	8/8/2006	WN
CNSL3086	Fresno	Orange Cove	Cx quinquefasciatus	284	8/2/2006	8/9/2006	WN
CNSL6061	Fresno	Riverdale	Cx quinquefasciatus	286	8/3/2006	8/9/2006	WN
CNSL6061	Fresno	Riverdale	Cx tarsalis	287	8/3/2006	8/9/2006	WN
DAVI 5101*	Yolo	Davis	Cx tarsalis	939	8/1/2006	8/3/2006	WN
DAVI 5114*	Yolo	Davis	Cx pipiens	997	8/3/2006	8/3/2006	WN
DAVI 5118*	Yolo	Davis	Cx tarsalis	963	8/1/2006	8/3/2006	WN

California Arbovirus Surveillance Bulletin # 25

Week 32 Friday, August 11, 2006

EAST1023	Stanislaus	Modesto	Cx pipiens	60053	8/2/2006	8/8/2006	WN
EAST1023	Stanislaus	Modesto	Cx pipiens	60056	8/2/2006	8/8/2006	WN
EAST1024	Stanislaus	Modesto	Cx pipiens	60060	8/2/2006	8/8/2006	WN
GRLA2520	Los Angeles	Los Angeles	Cx quinquefasciatus	5460	8/2/2006	8/9/2006	WN
GRLA2636	Los Angeles	Van Nuys	Cx quinquefasciatus	576	8/7/2006	8/9/2006	WN
GRLA2637	Los Angeles	Van Nuys	Cx quinquefasciatus	568	8/7/2006	8/11/2006	WN
GRLA2648	Los Angeles	Encino	Cx quinquefasciatus	534	8/3/2006	8/9/2006	WN
GRLA2648	Los Angeles	Encino	Cx quinquefasciatus	582	8/7/2006	8/9/2006	WN
GRLA2648	Los Angeles	Encino	Cx quinquefasciatus	583	8/7/2006	8/9/2006	WN
GRLA2656	Los Angeles	Encino	Cx quinquefasciatus	567	8/7/2006	8/9/2006	WN
GRLA2657	Los Angeles	Encino	Cx quinquefasciatus	559	8/5/2006	8/11/2006	WN
GRLA2658	Los Angeles	Encino	Cx quinquefasciatus	530	8/3/2006	8/9/2006	WN
GRLA2658	Los Angeles	Encino	Cx quinquefasciatus	563	8/7/2006	8/9/2006	WN
GRLA2661	Los Angeles	Encino	Cx quinquefasciatus	585	8/7/2006	8/11/2006	WN
GRLA2662	Los Angeles	Encino	Cx quinquefasciatus	561	8/5/2006	8/9/2006	WN
GRLA2663	Los Angeles	Encino	Cx quinquefasciatus	570	8/7/2006	8/9/2006	WN
GRLA2665	Los Angeles	Encino	Cx quinquefasciatus	571	8/7/2006	8/9/2006	WN
GRLA2667	Los Angeles	Encino	Cx quinquefasciatus	577	8/7/2006	8/11/2006	WN
GRLA2937	Los Angeles	Burbank	Cx quinquefasciatus	5464	8/2/2006	8/9/2006	WN
KERN2001	Kern	Bakersfield	Cx quinquefasciatus	375	8/4/2006	8/9/2006	WN
KERN2001	Kern	Bakersfield	Cx quinquefasciatus	376	8/4/2006	8/9/2006	WN
KERN2001	Kern	Bakersfield	Cx quinquefasciatus	377	8/4/2006	8/9/2006	WN
KERN2010	Kern	Bakersfield	Cx quinquefasciatus	380	8/4/2006	8/11/2006	WN
KERN2010	Kern	Bakersfield	Cx quinquefasciatus	381	8/4/2006	8/9/2006	WN
KERN2014	Kern	Bakersfield	Cx quinquefasciatus	382	8/4/2006	8/9/2006	WN
KERN2014	Kern	Bakersfield	Cx quinquefasciatus	383	8/4/2006	8/9/2006	WN
KERN2016	Kern	Bakersfield	Cx quinquefasciatus	386	8/4/2006	8/9/2006	WN
KERN2016	Kern	Bakersfield	Cx quinquefasciatus	387	8/4/2006	8/9/2006	WN
KERN2024	Kern	Bakersfield	Cx quinquefasciatus	378	8/4/2006	8/9/2006	WN
LAKE1004	Lake	Upper Lake	Cx tarsalis	151	8/7/2006	8/11/2006	WN
LAKE1100	Lake	Nice	Cx tarsalis	155	8/8/2006	8/9/2006	WN
ORCO0002	Orange	Fullerton	Cx quinquefasciatus	540	8/2/2006	8/8/2006	WN
PLCR0037	Placer	Pleasant Grove	An freeborni	215	8/2/2006	8/8/2006	WN
PLCR0043	Placer	ROSEVILLE	Cx pipiens	247	8/4/2006	8/8/2006	WN
PLCR0057	Placer	Lincoln	Cx tarsalis	222	8/2/2006	8/8/2006	WN
PLCR0139	Placer	ROSEVILLE	Cx tarsalis	237	8/2/2006	8/8/2006	WN
PLCR0298	Placer	Roseville	Cx pipiens	240	8/4/2006	8/8/2006	WN
SAYO2109*	Sacramento	Elverta	Cx tarsalis	2146	8/5/2006	8/7/2006	WN
SAYO3273*	Yolo	Woodland	Cx tarsalis	2087	8/3/2006	8/7/2006	WN
SAYO3286*	Yolo	Woodland	Cx pipiens	2055	8/2/2006	8/3/2006	WN
SAYO3346*	Yolo	Davis	Cx tarsalis	2042	8/2/2006	8/3/2006	WN
SAYO4361*	Sacramento	Galt	Cx tarsalis	1983	8/1/2006	8/7/2006	WN
SAYO4366*	Sacramento	Galt	Cx pipiens	1980	8/1/2006	8/3/2006	WN
SBCO0113	Santa Barbara	Goleta	Cx tarsalis	184	8/4/2006	8/9/2006	WN
SHAS0002	Shasta	Anderson	Cx tarsalis	19	8/2/2006	8/8/2006	WN
SJCM 8018*	San Joaquin	Stockton	Cx tarsalis	6707	8/1/2006	8/2/2006	WN
SJCM 8018*	San Joaquin	Stockton	Cx tarsalis	6711	8/1/2006	8/2/2006	WN
SJCM 8018*	San Joaquin	Manteca	Cx pipiens	6823	8/8/2006	8/10/2006	WN
SJCM 8022*	San Joaquin	Holt	Cx pipiens	6788	8/8/2006	8/10/2006	WN
SJCM 8034*	San Joaquin	Stockton	Cx tarsalis	6812	8/8/2006	8/10/2006	WN
SJCM 8049*	San Joaquin	Stockton	Cx tarsalis	6676	7/26/2006	7/28/2006	WN
SJCM 8083*	San Joaquin	Ripon	Cx pipiens	6763	8/7/2006	8/9/2006	WN

California Arbovirus Surveillance Bulletin # 25

Week 32 Friday, August 11, 2006

SJCM8018*	San Joaquin	El Rancho	Cx tarsalis	6751	8/4/2006	8/7/2006	WN
TRLK0436	Stanislaus	South Modesto	Cx pipiens	1064	8/8/2006	8/9/2006	WN
TRLK0436	Stanislaus	South Modesto	Cx pipiens	1065	8/8/2006	8/9/2006	WN
TRLK0524	Stanislaus	Keyes	Cx pipiens	1091	8/9/2006	8/10/2006	WN
TRLK0524	Stanislaus	Keyes	Cx pipiens	1092	8/9/2006	8/10/2006	WN
TRLK0535	Stanislaus	Keyes	Cx pipiens	1089	8/9/2006	8/10/2006	WN
TRLK9772	Stanislaus	Grayson	Cx pipiens	1072	8/8/2006	8/9/2006	WN
WVAL5005*	San Bernardino	Rancho Cucamonga	Cx quinquefasciatus	444	8/7/2006	8/10/2006	WN

*Tested by local agency

Sentinel Chicken Seroconversions

Site Number	County	Nearest City	Seroconversion Date	Band #	Virus
BUCO0002	Butte	Oroville	17-Jul-06	1615	WNV
BUCO0002	Butte	Oroville	17-Jul-06	1616	WNV
BUCO0002	Butte	Oroville	17-Jul-06	1619	WNV
BUCO0002	Butte	Oroville	31-Jul-06	1617	WNV
BUCO0002	Butte	Oroville	31-Jul-06	1620	WNV
CNSL5004	Fresno	Raisin City	07-Aug-06	1356	Flavivirus
CNSL5005	Fresno	Fresno	07-Aug-06	1366	WNV
CNSL5005	Fresno	Fresno	07-Aug-06	1367	WNV
CNSL5005	Fresno	Fresno	07-Aug-06	1369	WNV
CNSL5005	Fresno	Fresno	07-Aug-06	1371	WNV
CNSL5005	Fresno	Fresno	07-Aug-06	1372	WNV
CNSL5005	Fresno	Fresno	07-Aug-06	1373	WNV
CNSL5008	Fresno	Orange Cove	07-Aug-06	1405	Flavivirus
COAV0131	Riverside	Oasis	24-Jul-06	1231	WEE
COAV0131	Riverside	Oasis	24-Jul-06	1232	WEE
DLNO0060	Tulare	Delano	03-Aug-06	1481	WNV
DLNO0060	Tulare	Delano	03-Aug-06	1482	WNV
KERN0101	Kern	Lost Hills	03-Jul-06	1864	WNV
KERN0101	Kern	Lost Hills	03-Jul-06	1865	WNV
KERN0101	Kern	Lost Hills	03-Jul-06	1867	WNV
KERN0101	Kern	Lost Hills	03-Jul-06	1869	WNV
KERN0101	Kern	Lost Hills	17-Jul-06	1866	WNV
KERN0101	Kern	Lost Hills	17-Jul-06	1868	WNV
KERN0101	Kern	Lost Hills	31-Jul-06	1861	WNV
KERN0101	Kern	Lost Hills	31-Jul-06	1862	WNV
KERN0101	Kern	Lost Hills	31-Jul-06	1863	WNV
KERN0101	Kern	Lost Hills	31-Jul-06	1870	WNV
KERN0102	Kern	Buttonwillow	17-Jul-06	1932	WNV
KERN0102	Kern	Buttonwillow	17-Jul-06	1938	WNV
KERN0104	Kern	Old River	31-Jul-06	1882	WNV
KERN0104	Kern	Old River	31-Jul-06	1884	WNV
KERN0104	Kern	Old River	31-Jul-06	1885	WNV
KERN0104	Kern	Old River	31-Jul-06	1887	WNV
KERN0104	Kern	Old River	31-Jul-06	1890	WNV

California Arbovirus Surveillance Bulletin # 25

Week 32 Friday, August 11, 2006

KERN0105	Kern	Pumpkin Center	17-Jul-06	1893	WNV
KERN0105	Kern	Pumpkin Center	03-Jul-06	1895	WNV
KERN0105	Kern	Pumpkin Center	03-Jul-06	1898	WNV
KERN0105	Kern	Pumpkin Center	31-Jul-06	1891	WNV
KERN0105	Kern	Pumpkin Center	31-Jul-06	1894	WNV
KERN0105	Kern	Pumpkin Center	31-Jul-06	1896	WNV
KERN0105	Kern	Pumpkin Center	31-Jul-06	1899	WNV
KERN0111	Kern	Arvin	31-Jul-06	1924	WNV
KERN0111	Kern	Arvin	31-Jul-06	1925	WNV
KERN0111	Kern	Arvin	31-Jul-06	1926	WNV
KERN0111	Kern	Arvin	31-Jul-06	1927	WNV
KERN0111	Kern	Arvin	31-Jul-06	1928	WNV
KERN0111	Kern	Arvin	31-Jul-06	1929	WNV
KERN0111	Kern	Arvin	17-Jul-06	1922	WNV
KERN0111	Kern	Arvin	17-Jul-06	1930	WNV
MADR4132	Madera	Chowchilla	14-Jul-06	2249	WNV
SAYO6002	Yolo	Woodland	03-Aug-06	2758	WNV
SOLA0010	Solano	Vacaville	02-Aug-06	3333	WNV
SOLA0010	Solano	Vacaville	02-Aug-06	3339	WNV
SOLA0010	Solano	Vacaville	02-Aug-06	3340	WNV
SOLA0010	Solano	Vacaville	20-Jul-06	3332	WNV
SOLA0010	Solano	Vacaville	20-Jul-06	3336	WNV
SOLA0010	Solano	Vacaville	06-Jul-06	3334	WNV
SOLA0010	Solano	Vacaville	06-Jul-06	3335	WNV
SUYA0015	Sutter	Robbins	03-Aug-06	3405	WNV
SUYA0031	Sutter	Rio Oso	03-Aug-06	3415	WNV
SUYA0031	Sutter	Rio Oso	03-Aug-06	3416	WNV
SUYA0031	Sutter	Rio Oso	03-Aug-06	3419	WNV
SUYA0031	Sutter	Rio Oso	03-Aug-06	3420	WNV
TRLK0529	Stanislaus	Vernalis	31-Jul-06	3508	WNV
TRLK9701	Stanislaus	Grayson	17-Jul-06	3518	WNV
TRLK9701	Stanislaus	Grayson	31-Jul-06	3519	WNV
TRLK9703	Stanislaus	Crows Landing	31-Jul-06	3547	Flavivirus
TRLK9703	Stanislaus	Crows Landing	31-Jul-06	3552	Flavivirus
TRLK9703	Stanislaus	Crows Landing	31-Jul-06	3553	Flavivirus

WNV Positive Dead Birds

County	City	Zip	Species Collected	Collected	Tested	Tested By
Alameda	Pleasanton	94566	American Crow	08/01/06	08/07/06	RT-PCR
Alameda	Pleasanton	94566	American Crow	08/01/06	08/07/06	RT-PCR
Butte	Chico	95926	American Crow	07/30/06	08/07/06	RT-PCR
Butte	Chico	95928	Western Scrub-Jay	07/31/06	08/07/06	RT-PCR
Butte	Chico	95973	American Crow	07/27/06	08/07/06	RT-PCR
Butte	Durham	95938	American Crow	07/28/06	08/07/06	RT-PCR
Butte	Gridley	95948	Yellow-billed Magpie	08/01/06	08/07/06	RT-PCR
Butte	Oroville	95965	Western Scrub-Jay	07/27/06	08/07/06	RT-PCR

California Arbovirus Surveillance Bulletin # 25

Week 32 Friday, August 11, 2006

Butte	Oroville	95965	Western Scrub-Jay	07/27/06	08/07/06	RT-PCR
Butte	Oroville	95965	American Crow	07/28/06	08/07/06	RT-PCR
Butte	Oroville	95966	Western Scrub-Jay	08/01/06	08/07/06	RT-PCR
Butte	Paradise	95969	Western Scrub-Jay	07/26/06	08/07/06	RT-PCR
Butte	Paradise	95969	Western Scrub-Jay	07/31/06	08/07/06	RT-PCR
Butte	Richvale	95974	House Finch	07/27/06	08/07/06	RT-PCR
Calaveras	Mountain Ranch	95246	Acorn Woodpecker	07/29/06	08/07/06	RT-PCR
Calaveras	Wallace	95254	Western Scrub-Jay	07/26/06	08/07/06	RT-PCR
Colusa	Colusa	95932	Western Scrub-Jay	07/31/06	08/07/06	RT-PCR
Colusa	Colusa	95932	American Crow	07/31/06	08/07/06	RT-PCR
Colusa	Colusa	95932	American Crow	07/31/06	08/07/06	RT-PCR
Colusa	Colusa	95932	Yellow-billed Magpie	07/31/06	08/07/06	RT-PCR
Colusa	Colusa	95932	American Crow	07/31/06	08/07/06	RT-PCR
Colusa	Colusa	95932	American Crow	07/31/06	08/07/06	RT-PCR
Colusa	Williams	95987	American Crow	07/31/06	08/07/06	RT-PCR
Colusa	Williams	95987	Yellow-billed Magpie	08/01/06	08/07/06	RT-PCR
Contra Costa	Antioch	94509	American Crow	08/04/06	08/04/06	RAMP
Contra Costa	Antioch	94531	American Crow	07/31/06	07/31/06	RAMP
Contra Costa	Brentwood	94513	American Crow	07/30/06	07/30/06	RAMP
Contra Costa	Brentwood	94513	Western Scrub-Jay	08/01/06	08/01/06	RAMP
Contra Costa	Concord	94518	House Finch	07/26/06	08/07/06	RT-PCR
Contra Costa	Concord	94518	American Crow	07/31/06	07/31/06	RAMP
Contra Costa	Concord	94519	American Crow	07/31/06	08/07/06	RT-PCR
Contra Costa	Concord	94520	Northern Mockingbird	07/30/06	08/07/06	RT-PCR
Contra Costa	Concord	94521	House Finch	07/25/06	08/07/06	RT-PCR
Contra Costa	Danville	94506	House Finch	07/27/06	08/07/06	RT-PCR
Contra Costa	Discovery Bay	94514	American Robin	07/26/06	08/07/06	RT-PCR
Contra Costa	Oakley	94561	House Sparrow	07/28/06	08/07/06	RT-PCR
Contra Costa	Oakley	94561	American Crow	07/29/06	07/29/06	RAMP
Contra Costa	Oakley	94561	American Crow	08/01/06	08/01/06	RAMP
Contra Costa	Oakley	94561	American Crow	08/03/06	08/03/06	RAMP
Contra Costa	Pittsburg	94565	Western Scrub-Jay	08/03/06	08/03/06	RAMP
El Dorado	South Lake Tahoe	96150	Steller's Jay	07/30/06	08/07/06	RT-PCR
El Dorado	South Lake Tahoe	96155	Steller's Jay	07/26/06	08/07/06	RT-PCR
Fresno	Clovis	93612	Western Scrub-Jay	07/28/06	08/07/06	RT-PCR
Fresno	Fresno	93720	American Crow	07/31/06	08/07/06	RT-PCR
Fresno	Fresno	93720	American Crow	07/31/06	08/07/06	RT-PCR
Fresno	Fresno	93720	American Robin	07/31/06	08/07/06	RT-PCR
Fresno	Sanger	93657	House Sparrow	07/28/06	08/07/06	RT-PCR
Fresno	Selma	93662	House Sparrow	07/31/06	08/07/06	RT-PCR
Fresno	Tollhouse	93667	California Quail	07/28/06	08/07/06	RT-PCR
Glenn	Orland	95963	Yellow-billed Magpie	07/25/06	08/07/06	RT-PCR
Glenn	Orland	95963	Yellow-billed Magpie	07/26/06	08/07/06	RT-PCR
Glenn	Orland	95963	Yellow-billed Magpie	07/31/06	08/07/06	RT-PCR
Glenn	Willows	95988	American Crow	07/26/06	08/07/06	RT-PCR
Glenn	Willows	95988	American Crow	07/26/06	08/07/06	RT-PCR
Glenn	Willows	95988	Yellow-billed Magpie	07/28/06	08/07/06	RT-PCR
Glenn	Willows	95988	American Crow	08/01/06	08/07/06	RT-PCR

California Arbovirus Surveillance Bulletin # 25

Week 32 Friday, August 11, 2006

Glenn	Willows	95988	American Crow	08/01/06	08/01/06	VecTest
Glenn	Willows	95988	American Crow	08/03/06	08/03/06	VecTest
Inyo	Big Pine	93513	American Crow	07/31/06	08/07/06	RT-PCR
Inyo	Big Pine	93513	American Crow	08/01/06	08/07/06	RT-PCR
Kern	Bakersfield	93312	House Finch	07/27/06	08/07/06	RT-PCR
Kern	Bakersfield	93312	American Robin	07/31/06	08/07/06	RT-PCR
Kern	Bakersfield	93312	Western Scrub-Jay	08/01/06	08/07/06	RT-PCR
Kern	Bakersfield	93314	Western Scrub-Jay	07/31/06	08/07/06	RT-PCR
Kings	Hanford	93230	Rock Dove	07/24/06	08/07/06	RT-PCR
Kings	Lemoore	93245	American Crow	07/28/06	08/07/06	RT-PCR
Lake	Lakeport	95453	American Crow	08/02/06	08/02/06	VecTest
Marin	San Anselmo	94960	American Crow	08/03/06	08/03/06	RAMP
Mendocino	Redwood Valley	95470	California Towhee	07/31/06	08/07/06	RT-PCR
Mendocino	Willits	95490	Western Scrub-Jay	07/27/06	08/07/06	RT-PCR
Merced	Dos Palos	93620	American Crow	07/27/06	08/07/06	RT-PCR
Merced	Los Banos	93635	Yellow-billed Magpie	07/31/06	08/07/06	RT-PCR
Placer	Granite Bay	95746	Belted Kingfisher	07/21/06	08/07/06	RT-PCR
Placer	Lincoln	95648	Western Scrub-Jay	08/01/06	08/07/06	RT-PCR
Placer	Roseville	95678	Lesser Nighthawk	07/30/06	08/07/06	RT-PCR
Sacramento	Elk Grove	95624	Western Scrub-Jay	07/30/06	08/07/06	RT-PCR
Sacramento	Elk Grove	95624	American Crow	08/01/06	08/07/06	RT-PCR
Sacramento	Orangevale	95662	Yellow-billed Magpie	07/29/06	08/07/06	RT-PCR
Sacramento	Rancho Murieta	95683	Western Scrub-Jay	08/01/06	08/07/06	RT-PCR
Sacramento	Rio Linda	95673	American Crow	07/28/06	08/07/06	RT-PCR
Sacramento	Rio Linda	95673	American Crow	07/28/06	08/07/06	RT-PCR
Sacramento	Rio Linda	95673	American Crow	07/30/06	08/07/06	RT-PCR
Sacramento	Sacramento	95819	American Crow	07/29/06	08/07/06	RT-PCR
Sacramento	Sacramento	95822	American Robin	07/28/06	08/07/06	RT-PCR
Sacramento	Sacramento	95822	American Crow	07/30/06	08/07/06	RT-PCR
Sacramento	Sacramento	95831	Western Scrub-Jay	07/27/06	08/07/06	RT-PCR
Sacramento	Sacramento	95831	Western Scrub-Jay	07/27/06	08/07/06	RT-PCR
Sacramento	Sacramento	95831	Yellow-billed Magpie	07/31/06	08/07/06	RT-PCR
Sacramento	Sacramento	95832	American Crow	07/27/06	08/07/06	RT-PCR
Sacramento	Sacramento	95842	American Robin	08/01/06	08/07/06	RT-PCR
Sacramento	Wilton	95693	Western Scrub-Jay	07/31/06	08/07/06	RT-PCR
San Bernardino	Running Springs	92382	American Robin	07/27/06	08/07/06	RT-PCR
San Joaquin	Stockton	95203	Western Scrub-Jay	07/31/06	07/31/06	RAMP
San Joaquin	Stockton	95210	Western Scrub-Jay	07/31/06	08/07/06	RT-PCR
San Joaquin	Tracy	95304	American Crow	08/03/06	08/03/06	VecTest
San Luis Obispo	Paso Robles	93446	Barn Owl	07/21/06	08/07/06	RT-PCR
Santa Clara	Gilroy	95020	American Crow	08/02/06	08/02/06	VecTest
Santa Clara	San Jose	95117	American Crow	08/02/06	08/02/06	VecTest
Santa Clara	San Jose	95124	American Crow	08/02/06	08/02/06	VecTest
Santa Clara	San Jose	95125	Red-shouldered Hawk	07/14/06	08/07/06	RT-PCR
Santa Clara	San Jose	95129	American Crow	07/27/06	07/27/06	VecTest
Santa Clara	San Jose	95129	American Crow	07/28/06	07/28/06	VecTest
Santa Clara	San Jose	95129	American Crow	08/01/06	08/01/06	VecTest
Santa Clara	Santa Clara	95050	American Crow	07/28/06	07/28/06	VecTest

California Arbovirus Surveillance Bulletin # 25

Week 32 Friday, August 11, 2006

Santa Clara	Saratoga	95070	American Crow	07/27/06	07/27/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/01/06	08/01/06	VecTest
Shasta	Anderson	96007	Yellow-billed Magpie	08/03/06	08/03/06	VecTest
Shasta	Cottonwood	96022	Yellow-billed Magpie	08/01/06	08/01/06	VecTest
Shasta	Redding	96001	Yellow-billed Magpie	07/31/06	07/31/06	VecTest
Shasta	Redding	96001	Western Scrub-Jay	08/01/06	08/01/06	VecTest
Shasta	Redding	96001	American Crow	08/01/06	08/01/06	VecTest
Shasta	Redding	96001	Western Scrub-Jay	07/31/06	07/31/06	VecTest
Shasta	Redding	96002	American Crow	08/03/06	08/03/06	VecTest
Shasta	Shasta Lake	96019	American Crow	08/03/06	08/03/06	VecTest
Solano	Dixon	95620	Yellow-billed Magpie	07/27/06	08/07/06	RT-PCR
Solano	Dixon	95620	Yellow-billed Magpie	07/30/06	08/07/06	RT-PCR
Solano	Vacaville	95687	American Crow	08/02/06	08/02/06	RAMP
Stanislaus	Ceres	95307	Western Scrub-Jay	07/27/06	08/07/06	RT-PCR
Stanislaus	Modesto	95350	Western Scrub-Jay	07/31/06	08/07/06	RT-PCR
Stanislaus	Oakdale	95361	Barn Owl	07/31/06	08/07/06	RT-PCR
Stanislaus	Riverbank	95367	Western Scrub-Jay	07/31/06	08/07/06	RT-PCR
Stanislaus	Turlock	95380	Peach-faced Lovebird	07/21/06	08/07/06	RT-PCR
Tehama	Red Bluff	96080	White-Breasted Nuthatch	07/30/06	08/07/06	RT-PCR
Tehama	Red Bluff	96080	American Crow	08/01/06	08/07/06	RT-PCR
Tulare	Tulare	93274	American Crow	07/31/06	08/07/06	RT-PCR
Ventura	Camarillo	93010	House Finch	07/30/06	08/07/06	RT-PCR
Ventura	Thousand Oaks	91362	American Crow	07/28/06	08/07/06	RT-PCR
Ventura	Thousand Oaks	91362	House Finch	07/31/06	08/07/06	RT-PCR
Yolo	Davis	95616	Barn Swallow	07/19/06	08/07/06	RT-PCR
Yolo	Davis	95616	Yellow-billed Magpie	07/27/06	08/07/06	RT-PCR
Yolo	Davis	95616	Western Scrub-Jay	07/27/06	08/07/06	RT-PCR
Yolo	Davis	95616	Yellow-billed Magpie	07/27/06	08/07/06	RT-PCR
Yolo	Davis	95616	American Crow	07/28/06	08/07/06	RT-PCR
Yolo	Davis	95616	Barn Owl	07/28/06	08/07/06	RT-PCR
Yolo	Davis	95616	American Crow	07/30/06	08/07/06	RT-PCR
Yolo	Davis	95616	Yellow-billed Magpie	07/31/06	08/07/06	RT-PCR
Yolo	Davis	95616	Western Scrub-Jay	08/01/06	08/07/06	RT-PCR
Yolo	Davis	95616	American Crow	08/01/06	08/07/06	RT-PCR
Yolo	Davis	95616	American Crow	08/02/06	08/07/06	RT-PCR
Yolo	Davis	95616	American Crow	08/02/06	08/07/06	RT-PCR
Yolo	Davis	95616	American Crow	08/02/06	08/07/06	RT-PCR
Yolo	Davis	95618	Yellow-billed Magpie	07/28/06	08/07/06	RT-PCR
Yolo	Woodland	95776	Black-crowned Night-Heron	08/01/06	08/07/06	RT-PCR
Yolo	Woodland	95776	Great Egret	08/02/06	08/07/06	RT-PCR

National Comments: As of August 8, 2006, WNV activity had been reported from 38 states and New York City (NYC). A total of 192 human cases were reported to the Centers for Disease Control and Prevention (CDC) from 20 states: Arizona (5), California (20), Colorado (11), Idaho (45), Indiana (1), Iowa (4), Kansas (1), Michigan (1), Minnesota (9), Mississippi (16), Missouri (2), Nebraska (8), Nevada (17), New York (1), North Dakota (5), Oklahoma (3), Pennsylvania (3), South Dakota (18), Texas (17), and Utah (5). Of the 192 cases where data was available, 84 (44%) had West Nile neuroinvasive disease (i.e. encephalitis or meningitis). The median age of the cases was 50 years (range: 2-91 years) and 57% were male. Six WNV-associated fatalities have been reported in 2006, from Idaho (2), Michigan (1), Minnesota (1) and Mississippi (2).

California Arbovirus Surveillance Bulletin # 25

Week 32 Friday, August 11, 2006

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].