

California Arbovirus Surveillance Bulletin # 31

Week 38 Friday, September 22, 2006

Weekly Summary

COMMENTS

Humans

Eighteen new West Nile virus (WNV) human cases were reported this week, for a YTD total of 215 WNV cases from the following 32 counties: Alameda (1), Butte (28), Colusa (2), Contra Costa (7), El Dorado (1), Fresno (8), Glenn (9), Kern (41), Kings (1), Lake (1), Los Angeles (9), Marin (1), Merced (2), Modoc (2), Mono (1), Nevada (1), Orange (5), Placer (7), Riverside (3), Sacramento (11), San Joaquin (7), San Luis Obispo (1), Santa Clara (4), Shasta (2), Solano (2), Stanislaus (9), Sutter (11), Tehama (3), Tulare (4), Ventura (3), Yolo (25), and Yuba (3). Of the 215 WNV cases, 55 (26%) have been classified as West Nile neuroinvasive disease, and 154 (72%) as West Nile fever. The median age of all cases is 49 years (range: 8-86 years). The median age of neuroinvasive disease cases is 50 years (range: 14-86 years), while the median age of West Nile fever cases is 48 years (range: 8-86 years). Of the cases, 139 (65%) are male. Three WNV-related fatalities have been reported in 2006, from Butte (1) and Contra Costa (2). Twenty-seven WNV-positive blood donation samples have been identified to date; 14 of the individuals reported symptoms and were reclassified as cases.

Horses

The California Department of Food & Agriculture reported 1 new equine case of WNV this week from Santa Barbara County.

This is the first case of WNV reported in a horse from Santa Barbara County in 2006.

This year, a total of 44 equine cases of WNV have been identified from the following 18 counties: Fresno (5); Kern (2); Lake (2); Lassen (7); Marin (1), Mendocino (2); Merced (3); Modoc (2); Sacramento (1); San Joaquin (1); San Luis Obispo (4); Santa Barbara (1); Shasta (4); Sonoma (1); Stanislaus (3); Sutter (1); Tulare (2); and Yuba (2). Twenty-one have died or were euthanized.

Dead Birds

This week, 92 out of 179 (51.4%) dead birds tested positive for WNV.

- 30/95 dead birds tested positive via RT-PCR.
- 48/62 dead birds tested positive via VecTest.
- 12/14 dead birds tested positive via RAMP.
- 2/8 dead birds tested positive via IHC.

The WNV positive dead birds were collected from 23 counties: Alameda (3); Contra Costa (4); El Dorado (1); Fresno (4); Glenn (3); Los Angeles (20); Madera (1); Marin (2); Orange (2); Sacramento (3); San Bernardino (2); San Diego (3); San Joaquin (2); San Luis Obispo (3); San Mateo (1); Santa Barbara (2); Santa Clara (21); Santa Cruz (1); Shasta (3); Solano (2); Sonoma (1); Stanislaus (3); and Ventura (5).

In 2006, 1,098 out of 4,744 (23.0%) dead birds have tested positive for WNV from 51 counties: Alameda (24) Amador (2); Butte (40); Calaveras (2); Colusa (9); Contra Costa (66); El Dorado (15); Fresno (67); Glenn (35); Humboldt (2); Inyo (8); Kern (22); Kings (10); Lake (6); Lassen (3); Los Angeles (56); Madera (2); Marin (5); Mariposa (1); Mendocino (7); Merced (30); Modoc (1); Mono (1); Monterey (2); Napa (3); Nevada (3); Orange (35); Placer (10); Riverside (1); Sacramento (80); San Benito (1); San Bernardino (18); San Diego (11); San Francisco (1); San Joaquin (44); San Luis Obispo (9); San Mateo (5); Santa Barbara (6); Santa Clara (193); Santa Cruz (3); Shasta (60); Solano (15); Sonoma (10); Stanislaus (64); Sutter (2); Tehama (10); Trinity (1); Tulare (6); Ventura (40); Yolo (50) and Yuba (1).

Squirrel Update: This week, 7 tree squirrels tested positive for WNV. To date in 2006, 19 of 94 (20.2%) dead tree squirrels have tested positive from 8 counties: Alameda (1), Butte (1), Contra Costa (9) Los Angeles (1), Marin (1), San Bernardino (2), San Mateo (2), and Shasta (2).

The California Department of Health Services has received a total of 39,850 dead bird reports (hotline and website) this year.

Mosquito Pools

This week, CVEC reported 11 WNV positive mosquito pools from Alameda (1), Kern (3), Placer (1), Riverside (1), Stanislaus (4), and Ventura (1) counties. One mosquito pool from Kern County tested positive for western equine encephalomyelitis (WEE). In addition, six WNV positive pools were reported by local agencies from the following counties: Contra Costa (1), Marin (1), San Bernardino (1), San Joaquin (1), and Yolo (2) counties.

In 2006, 740 mosquito pools have tested positive for WNV from 33 counties: Alameda (9), Butte (1), Calaveras (2), Contra Costa (16); El Dorado (2); Fresno (38); Glenn (1); Imperial (13); Inyo (3); Kern (217); Kings (30); Lake (12); Lassen (3); Los Angeles (65); Madera (4); Marin (2); Merced (4); Orange (8); Placer (22); Riverside (14); Sacramento (30); San Bernardino (24), San Joaquin (22); Santa Barbara (1); Santa Clara (9); Shasta (7); Solano (1); Stanislaus (49); Sutter (55); Tulare (7); Ventura (2); Yolo (61); and Yuba (6). 12 mosquito pools from Kern County have tested positive for WEE virus this year.

California Arbovirus Surveillance Bulletin # 31

Week 38 Friday, September 22, 2006

Sentinel Chickens

This week, VRDL and local agencies reported 46 WNV and 4 WEE seroconversions from 28 flocks, **including the first WNV positive chickens from Marin, Shasta, Tehama, and Ventura counties in 2006.** The WNV positive chickens were identified from 16 counties: Butte (3); Glenn (1); Kern (10); Lake (3); Marin (2); Merced (2); Riverside (1); San Joaquin (1); Shasta (2); Solano (1); Stanislaus (9); Sutter (2); Tehama (3); Tulare (3); Ventura (1); and Yuba (2). Four WEE seroconversions were confirmed in chickens from 2 flocks in Kern County. Additionally, 5 new flavivirus positive chickens from Riverside County were identified.

In 2006, 492 WNV seroconversions have been confirmed in chickens from Butte (47), Colusa (1), Contra Costa (25), Fresno (27), Glenn (11), Imperial (39), Kern (91), Kings (22), Lake (4), Los Angeles (15), Madera (7), Marin (2), Merced (12), Placer (5), Riverside (7), Sacramento (7), San Bernardino (9), San Joaquin (19), Shasta (2), Solano (20), Stanislaus (37), Sutter (36), Tehama (3), Tulare (25), Ventura (1), Yolo (9), and Yuba (9) counties. Ninety-two flocks have at least one chicken test positive for WNV.

WEE antibodies have been detected in 7 chickens from Kern (5) and Riverside (2) counties this year.

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	62	0	18	0	0	0	0	0	0
	YTD	1139	0	215	0	0	0	0	0	0
Horses Tested	Week	12	0	1	0	0	0	0	0	0
	YTD	372	0	44	0	0	0	0	0	0

Dead Birds

	Number Tested	WNV Positive
Week	179	92
YTD	4744	1098

Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Flavivirus* Positive
Chicken sera	Week	905	46	4	0	5
	YTD	24,779	492	7	0	55
Mosquito pools	Week	689	11	1	0	0
	YTD	12793	597	12	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
RT-PCR	Week	294	3	0	0	0
	YTD	4933	93	0	0	0
RAMP	Week	184	3	N/A	N/A	N/A
	YTD	1937	50	--	--	--
VecTest	Week	0	0	N/A	N/A	N/A
	YTD	9	0	--	--	--

California Arbovirus Surveillance Bulletin # 31

Week 38 Friday, September 22, 2006

POSITIVES

West Nile Virus Cases* Reported September 18 – September 22, 2006							
ID	Report Date	County ¹	Age	Sex	Clin Pres ²	Onset Date	WNV Fatality?
06-0199	09/18/06	SACRAMENTO	60	F	WNF [^]	07/10/06	NO
06-0200	09/18/06	LOS ANGELES	57	M	WNF	n/a	NO
06-0201	09/18/06	LOS ANGELES	30	F	WNF	09/13/06	NO
06-0202	09/18/06	CONTRA COSTA	68	M	n/a	09/05/06	NO
06-0203	09/19/06	TEHAMA	>18	M	WNF	Week 35	NO
06-0204	09/19/06	PLACER	>18	F	WNND	08/28/06	NO
06-0205	09/19/06	KERN	38	M	WNF	08/25/06	NO
06-0206	09/19/06	KERN	60	M	WNND	09/09/06	NO
06-0207	09/19/06	KERN	50	M	n/a	n/a	NO
06-0208	09/19/06	BUTTE	>18	M	WNF	09/04/06	NO
06-0209	09/19/06	MERCED	58	M	WNF	08/27/06	NO
06-0210	09/19/06	BUTTE	>18	F	WNF	08/26/06	NO
06-0211	09/20/06	LOS ANGELES	67	M	WNF	08/26/06	NO
06-0212	09/20/06	SAN JOAQUIN	<18	M	WNF	08/24/06	NO
06-0213	09/20/06	SAN JOAQUIN	>18	M	WNF	08/05/06	NO
06-0214	09/21/06	BUTTE	>18	M	WNF	09/08/06	NO
06-0215	09/19/06	ORANGE	63	M	WNF	Week 33	NO
06-0216	09/22/06	ORANGE	54	M	WNND	Week 34	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

Site Code	County	City	Pool #	Species	Collected	Tested	Virus
ALCO0214	Alameda	Livermore	310	Cx pipiens	9/13/06	9/19/06	WN
CNTR [^]	Contra Costa	Knightsen	289	Cx tarsalis	9/19/06	9/19/06	WN
AFSB0035	Kern	Bakersfield	5849	Cx tarsalis	9/14/06	9/19/06	WEE
AFSB1005	Kern	Bakersfield	5842	Cx quinquefasciatus	9/13/06	9/19/06	WN
AFSB2005	Kern	Bakersfield	5838	Cx quinquefasciatus	9/13/06	9/19/06	WN
KERN2018	Kern	Bakersfield	597	Cx quinquefasciatus	9/15/06	9/20/06	WN
MARN0151 [*]	Marin	San Rafael	201	Cx tarsalis	9/7/06	9/19/06	WN
PLCR0355	Placer	Roseville	418	Cx tarsalis	9/13/06	9/19/06	WN
RIVR0032	Riverside	Nuevo	541	Cx tarsalis	9/20/06	9/22/06	WN
WVAL7002 [^]	San Bernardino	Montclair	616	Cx quinquefasciatus	9/20/06	9/21/06	WN
SJCM8083 [^]	San Joaquin	Escalon	7290	Cx pipiens	9/19/06	9/20/06	WN
EAST1015	Stanislaus	Modesto	60145	Cx pipiens	9/20/06	9/20/06	WN
TRLK0437	Stanislaus	Patterson	1365	Cx pipiens	9/19/06	9/20/06	WN
TRLK0531	Stanislaus	Turlock	1295	Cx pipiens	9/6/06	9/22/06	WN
TRLK0531	Stanislaus	Turlock	1431	Cx pipiens	9/19/06	9/20/06	WN

California Arbovirus Surveillance Bulletin # 31

Week 38 Friday, September 22, 2006

VENT1011	Ventura	Simi Valley	25	Cx erythrothorax	9/6/06	9/18/06	WN
DAVI5101*	Yolo	Davis	1328	Cx tarsalis	9/13/06	9/18/06	WN
DAVI5113*	Yolo	Davis	1359	Cx tarsalis	9/13/06	9/18/06	WN

*Local agency RT-PCR

^Local agency RAMP

Sentinel Chicken Seroconversions

Site Number	County	Nearest City	Date Bled	Antigen	BAND 01	BAND 02	BAND 03	BAND 04
BUCO0006	Butte	Chico	9/13/06	WNV	1659			
BUCO0007	Butte	Chico	9/13/06	WNV	1667			
BUCO0003	Butte	Oroville	9/13/06	WNV	1632			
GLEN9701	GLENN	Center of City of Wi	9/13/06	WNV	1600			
KERN0107	KERN	Arvin	9/11/06	WNV	1969			
KERN0111	KERN	Arvin	8/28/06	WNV	1967	1968		
KERN0113	KERN	Bakersfield	8/28/06	WEE	1944			
KERN0113	KERN	Bakersfield	9/11/06	WEE	1941	1943		
KERN0113	KERN	Bakersfield	9/11/06	WNV	1981	1984		
KERN0101	KERN	Lost Hills	9/11/06	WEE	1865			
KERN0101	KERN	Lost Hills	9/11/06	WNV	1965			
KERN0112	KERN	Wasco	9/11/06	WNV	1871	1875	1878	1880
LAKE1000	LAKE	Upper Lake	9/13/06	WNV	2213	2215	2220	
MARN0112	MARIN	Novato	9/11/06	WNV	2278	2281		
MERC0502	MERCED	Hilmar	9/5/06	WNV	2395	2398		
NWST0002	RIVERSIDE	Glen Ivy Hot Spring	9/5/06	Flav	2533	2535		
NWST0004	RIVERSIDE	Rubidoux	9/5/06	Flav	2479	2483	2486	
NWST9226	RIVERSIDE	Mockingbird Canyon	8/22/06	WNV	2522			
SJCM9910*	SAN JOAQUIN	Walnut Grove	9/5/06	WNV	3060			
SHAS9702	SHASTA	Millville	8/31/06	WNV	3291	3292		
SOLA0224	SOLANO	Birds Landing	9/15/06	WNV	3319			
TRLK0402	STANISLAUS	Denair	9/11/06	WNV	3566	3571		
TRLK9701	STANISLAUS	Grayson	9/11/06	WNV	3832	4300		
EAST1947	STANISLAUS	Modesto	7/5/06	WNV	1541			
EAST1947	STANISLAUS	Modesto	8/16/06	WNV	1539	1542		
EAST1947	STANISLAUS	Modesto	9/13/06	WNV	1543			
TRLK0529	STANISLAUS	Vernalis	9/11/06	WNV	3507			
SUYA0030	SUTTER	Live Oak	9/14/06	WNV	3378	3380		
TEHA0002	TEHAMA	Corning	8/30/06	WNV	3447	3451		
TEHA0001	TEHAMA	Red Bluff	8/30/06	WNV	3465			
DLNO0060	TULARE	Delano	9/14/06	WNV	1484	1486	1487	
MOOR0014	VENTURA	Moorpark	9/6/06	WNV	1141			
SUYA0071	YUBA	Olivehurst	9/14/06	WNV	3422	3428		

*Tested by local agency

California Arbovirus Surveillance Bulletin # 31

Week 38 Friday, September 22, 2006

WNV Positive Dead Birds

County	City	ZIP	Species	Bird #	Collected	Tested	Tested By
Alameda	Livermore	94550	American Crow	06-6831	09/10/06	09/10/06	RAMP
Alameda	Livermore	94550	American Crow	06-6759	09/19/06	09/19/06	RAMP
Alameda	Livermore	94550	Northern Mockingbird	06-6597	08/31/06	09/18/06	RT-PCR
Contra Costa	Antioch	94509	American Crow	06-6900	09/13/06	09/13/06	RAMP
Contra Costa	Concord	94519	American Crow	06-6765	09/10/06	09/10/06	RAMP
Contra Costa	Concord	94519	Western Scrub-Jay	06-6846	09/06/06	09/18/06	RT-PCR
Contra Costa	Martinez	94553	Red-tailed Hawk	06-6686	09/06/06	09/18/06	RT-PCR
El Dorado	Cameron Park	95682	Western Scrub-Jay	06-6710	09/07/06	09/18/06	RT-PCR
Fresno	Fresno	93722	American Crow	06-6756	09/10/06	09/10/06	VecTest
Fresno	Fresno	93722	American Crow	06-6839	09/12/06	09/12/06	VecTest
Fresno	Fresno	93706	American Crow	06-6844	09/12/06	09/12/06	VecTest
Fresno	Fresno	93727	Western Scrub-Jay	06-6160	08/21/06	08/21/06	VecTest
Glenn	Orland	95963	Yellow-billed Magpie	06-6874	09/12/06	09/12/06	VecTest
Glenn	Willows	95988	American Crow	06-6873	09/12/06	09/12/06	VecTest
Glenn	Willows	95988	American Crow	06-6976	09/15/06	09/15/06	VecTest
Los Angeles	Beverly Hills	90210	American Crow	06-6809	09/11/06	09/11/06	VecTest
Los Angeles	Beverly Hills	90210	Steller's Jay	06-6797	09/11/06	09/11/06	VecTest
Los Angeles	Burbank	91502	American Crow	06-6714	09/07/06	09/18/06	RT-PCR
Los Angeles	Burbank	91505	Common Raven	06-6800	09/11/06	09/11/06	VecTest
Los Angeles	Castaic	91384	House Sparrow	06-6555	08/31/06	09/18/06	RT-PCR
Los Angeles	Chatsworth	91311	American Crow	06-6762	09/10/06	09/10/06	VecTest
Los Angeles	Chatsworth	91311	American Crow	06-6964	09/15/06	09/15/06	VecTest
Los Angeles	Lancaster	93535	American Crow	06-6731	09/08/06	09/18/06	RT-PCR
Los Angeles	Lancaster	93535	Common Raven	06-6769	09/11/06	09/11/06	VecTest
Los Angeles	Los Angeles	90018	American Crow	06-6847	09/12/06	09/12/06	VecTest
Los Angeles	Los Angeles	90034	American Crow	06-6849	09/12/06	09/12/06	VecTest
Los Angeles	North Hollywood	91606	American Crow	06-6799	09/11/06	09/11/06	VecTest
Los Angeles	Sun Valley	91352	American Crow	06-6695	09/07/06	09/18/06	RT-PCR
Los Angeles	Valley Village	91607	House Finch	06-6626	09/01/06	09/18/06	RT-PCR
Los Angeles	Van Nuys	91401	American Crow	06-6843	09/12/06	09/12/06	VecTest
Los Angeles	Van Nuys	91406	American Crow	06-6960	09/14/06	09/14/06	VecTest
Los Angeles	Van Nuys	91406	House Sparrow	06-6802	09/11/06	09/18/06	RT-PCR
Los Angeles	Westlake Village	91361	American Crow	06-6787	09/11/06	09/11/06	VecTest
Los Angeles	Westlake Village	91361	American Crow	06-6848	09/12/06	09/12/06	VecTest
Los Angeles	Winnetka	91396	House Finch	06-6746	09/08/06	09/18/06	RT-PCR
Madera	Madera	93637	Brewer's Blackbird	06-6824	09/12/06	09/18/06	RT-PCR
Marin	San Anselmo	94960	American Crow	06-6933	09/14/06	09/14/06	RAMP
Marin	San Rafael	94901	American Crow	06-6841	09/12/06	09/12/06	RAMP
Orange	Orange	92868	American Crow	06-7103	09/07/06	09/07/06	IHC
Orange	Orange	92862	Western Scrub Jay	06-7100	09/01/06	09/01/06	IHC
Sacramento	Elk Grove	95757	Yellow-billed Magpie	06-6726	09/08/06	09/18/06	RT-PCR
Sacramento	Elverta	95626	American Crow	06-6685	09/06/06	09/18/06	RT-PCR
Sacramento	Sacramento	95825	Yellow-billed Magpie	06-6697	09/06/06	09/18/06	RT-PCR
San Bernardino	Ontario	91762	American Crow	06-6956	09/14/06	09/14/06	RAMP
San Bernardino	Rancho Cucamonga	91701	American Crow	06-6733	09/08/06	09/18/06	RT-PCR
San Diego	Bonsall	92003	Western Scrub-Jay	06-6742	09/08/06	09/18/06	RT-PCR
San Diego	El Cajon	92020	Western Scrub-Jay	06-6840	09/12/06	09/12/06	VecTest
San Diego	El Cajon	92020	Western Scrub-Jay	06-6954	09/14/06	09/14/06	VecTest
San Joaquin	Stockton	95210	American Crow	06-6834	09/12/06	09/12/06	RAMP

California Arbovirus Surveillance Bulletin # 31

Week 38 Friday, September 22, 2006

San Joaquin	Stockton	95210	American Crow	06-6835	09/12/06	09/12/06	RAMP
San Luis Obispo	Arroyo Grande	93420	American Crow	06-6791	09/11/06	09/18/06	RT-PCR
San Luis Obispo	Grover Beach	93433	American Crow	06-6720	09/08/06	09/18/06	RT-PCR
San Luis Obispo	Templeton	93465	Western Scrub-Jay	06-6699	09/07/06	09/18/06	RT-PCR
San Mateo	Burlingame	94010	Unknown	06-6748	09/08/06	09/18/06	RT-PCR
Santa Barbara	Solvang	93463	American Crow	06-6601	08/31/06	09/18/06	RT-PCR
Santa Barbara	Solvang	93463	Western Scrub-Jay	06-6680	09/06/06	09/18/06	RT-PCR
Santa Clara	Campbell	95008	American Crow	06-6870	09/12/06	09/12/06	VecTest
Santa Clara	Cupertino	95014	American Crow	06-6718	09/07/06	09/07/06	VecTest
Santa Clara	Los Gatos	95030	American Crow	06-6795	09/10/06	09/10/06	VecTest
Santa Clara	Los Gatos	95030	American Crow	06-6790	09/11/06	09/11/06	VecTest
Santa Clara	San Jose	95129	American Crow	06-6130	08/18/06	08/18/06	VecTest
Santa Clara	San Jose	95130	American Crow	06-6187	08/21/06	08/21/06	VecTest
Santa Clara	San Jose	95117	American Crow	06-6666	09/05/06	09/05/06	VecTest
Santa Clara	San Jose	95129	American Crow	06-6815	09/12/06	09/12/06	VecTest
Santa Clara	San Jose	95124	American Crow	06-6913	09/13/06	09/13/06	VecTest
Santa Clara	San Jose	95129	Western Scrub-Jay	06-6737	09/08/06	09/08/06	VecTest
Santa Clara	Santa Clara	95051	American Crow	06-6131	08/18/06	08/18/06	VecTest
Santa Clara	Santa Clara	95051	American Crow	06-6734	09/08/06	09/08/06	VecTest
Santa Clara	Santa Clara	95051	American Crow	06-6735	09/08/06	09/08/06	VecTest
Santa Clara	Santa Clara	95051	American Crow	06-6871	09/12/06	09/12/06	VecTest
Santa Clara	Saratoga	95070	American Crow	06-6127	08/18/06	08/18/06	VecTest
Santa Clara	Saratoga	95070	American Crow	06-6128	08/18/06	08/18/06	VecTest
Santa Clara	Saratoga	95070	American Crow	06-6129	08/18/06	08/18/06	VecTest
Santa Clara	Saratoga	95070	American Crow	06-6669	09/05/06	09/05/06	VecTest
Santa Clara	Saratoga	95070	American Crow	06-7120	09/19/06	09/19/06	VecTest
Santa Clara	Saratoga	95070	Western Scrub-Jay	06-6617	09/01/06	09/01/06	VecTest
Santa Clara	Saratoga	95070	Western Scrub-Jay	06-6912	09/13/06	09/13/06	VecTest
Santa Cruz	Santa Cruz	95062	House Finch	06-6817	09/12/06	09/18/06	RT-PCR
Shasta	Redding	96001	American Crow	06-6837	09/12/06	09/12/06	VecTest
Shasta	Redding	96002	Western Scrub-Jay	06-6805	09/11/06	09/11/06	VecTest
Shasta	Redding	96002	Western Scrub-Jay	06-6938	09/14/06	09/14/06	VecTest
Solano	Vacaville	95688	American Crow	06-6745	09/08/06	09/08/06	RAMP
Solano	Vallejo	94591	Western Scrub-Jay	06-6934	09/14/06	09/14/06	RAMP
Sonoma	Sonoma	95476	American Crow	06-6877	09/12/06	09/12/06	RAMP
Stanislaus	Hughson	95326	Yellow-billed Magpie	06-6806	09/11/06	09/11/06	VecTest
Stanislaus	Modesto	95358	American Crow	06-6903	09/13/06	09/13/06	VecTest
Stanislaus	Oakdale	95361	Northern Mockingbird	06-6553	08/31/06	09/18/06	RT-PCR
Ventura	Newbury Park	91320	American Crow	06-6777	09/11/06	09/18/06	RT-PCR
Ventura	Simi Valley	93063	American Crow	06-6744	09/08/06	09/18/06	RT-PCR
Ventura	Simi Valley	93065	American Crow	06-6757	09/10/06	09/18/06	RT-PCR
Ventura	Simi Valley	93063	American Crow	06-6758	09/10/06	09/18/06	RT-PCR
Ventura	Ventura	93003	American Crow	06-6723	09/08/06	09/18/06	RT-PCR

California Arbovirus Surveillance Bulletin # 31

Week 38 Friday, September 22, 2006

National Comments: As of September 19, 2006, WNV activity had been reported from 48 states, the District of Columbia (DC), and New York City (NYC). A total of 2,171 human cases were reported to the Centers for Disease Control and Prevention (CDC) from 40 states and DC: Alabama (4), Arizona (25), Arkansas (16), California (197), Colorado (199), Connecticut (8), DC (1), Florida (3), Georgia (5), Idaho (401), Illinois (135), Indiana (12), Iowa (20), Kansas (24), Kentucky (2), Louisiana (64), Maryland (1), Michigan (23), Minnesota (54), Mississippi (107), Missouri (31), Montana (10), Nebraska (75), Nevada (106), New Jersey (4), New Mexico (3), New York (11), North Dakota (101), Ohio (18), Oklahoma (26), Oregon (22), Pennsylvania (8), South Dakota (97), Tennessee (6), Texas (180), Utah (105), Virginia (2), Washington (1), West Virginia (1), Wisconsin (12), and Wyoming (51). Of the 2171 cases, 829 (38%) had West Nile neuroinvasive disease (i.e. encephalitis or meningitis). The median age of the 2151 cases where data was available was 51 years (range: 3 months-99 years) and 56% were male. Seventy-four WNV-associated fatalities have been reported in 2006, from Arizona (1), California (2), Colorado (1), Connecticut (1), Georgia (1), Idaho (9), Illinois (6), Kansas (3), Kentucky (1), Michigan (2), Minnesota (3), Missouri (2), Mississippi (4), Nebraska (1), Nevada (1), New York (1), North Dakota (1), Ohio (1), Oklahoma (5), Pennsylvania (2), South Dakota (1), Tennessee (1), Texas (19), Utah (4), and Wyoming (1).

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 Feiszli by phone (510) 412-6298, FAX (510) 412-6263, or email [tfeiszli@dhs.ca.gov].