

California Arbovirus Surveillance Bulletin # 32

Week 39 Friday, September 29, 2006

Weekly Summary

COMMENTS

Humans

This week, 22 new human cases of West Nile virus (WNV) were reported from 13 counties, **including the first human cases from Napa, San Bernardino, and San Diego counties in 2006.** As of September 29, 2006, a total of 237 human West Nile virus (WNV) cases have been identified from the following 36 counties: Alameda (1), Butte (30), Colusa (2), Contra Costa (8), El Dorado (1), Fresno (8), Glenn (12), Imperial (1), Kern (45), Kings (1), Lake (1), Los Angeles (10), Marin (1), Merced (2), Modoc (2), Mono (1), Napa (1), Nevada (1), Orange (5), Placer (7), Riverside (3), Sacramento (11), San Bernardino (1), San Diego (1), San Joaquin (8), San Luis Obispo (1), Santa Clara (5), Shasta (2), Solano (6), Stanislaus (10), Sutter (11), Tehama (3), Tulare (4), Ventura (3), Yolo (25), and Yuba (3). Of the 237 WNV cases, 63 (27%) have been classified as West Nile neuroinvasive disease, and 166 (70%) as West Nile fever. The median age of all cases is 50 years (range: 8-86 years). Of the cases, 151 (64%) are male. Three WNV-related fatalities have been reported in 2006, from Butte (1) and Contra Costa (2). Twenty-eight 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 5 new equine cases of WNV this week from Kern (1), Placer (1), San Diego (1), Santa Barbara (1), and Tehama (1) counties. **These are the first horse cases of WNV in 2006 for Placer, San Diego and Tehama counties.**

This year, a total of 49 equine cases of WNV have been reported from the following 21 counties: Fresno (5); Kern (3); Lake (2); Lassen (7); Marin (1), Mendocino (2); Merced (3); Modoc (2); Placer (1); Sacramento (1); San Diego (1); San Joaquin (1); San Luis Obispo (4); Santa Barbara (2); Shasta (4); Sonoma (1); Stanislaus (3); Sutter (1); Tehama (1); Tulare (2); and Yuba (2). Twenty-two have died or were euthanized.

Dead Birds

This week, 64 out of 148 (43.2%) dead birds tested positive for WNV.

- 35/104 dead birds tested positive via RT-PCR.
- 19/33 dead birds tested positive via VecTest.
- 10/11 dead birds tested positive via RAMP.

The WNV positive dead birds were collected from 22 counties: Alameda (5); Contra Costa (7); El Dorado (2); Fresno (1); Kings (1); Los Angeles (8); Merced (3); Modoc (1); Monterey (1); Placer (1); Sacramento (1); San Bernardino (4); San Francisco (1); Santa Clara (7); Santa Cruz (1); Shasta (6); Sonoma (1); Stanislaus (3); Tehama (2); Tulare (2); Ventura (4) and Yolo (2).

To date in 2006, 1,162 out of 4,893 (23.0%) dead birds have tested positive for WNV from the following 51 counties: Alameda (29) Amador (2); Butte (40); Calaveras (2); Colusa (9); Contra Costa (73); El Dorado (17); Fresno (68); Glenn (35); Humboldt (2); Inyo (8); Kern (22); Kings (11); Lake (6); Lassen (3); Los Angeles (64); Madera (2); Marin (5); Mariposa (1); Mendocino (7); Merced (33); Modoc (2); Mono (1); Monterey (3); Napa (3); Nevada (3); Orange (35); Placer (11); Riverside (1); Sacramento (81); San Benito (1); San Bernardino (22); San Diego (11); San Francisco (2); San Joaquin (44); San Luis Obispo (9); San Mateo (5); Santa Barbara (6); Santa Clara (200); Santa Cruz (4); Shasta (66); Solano (15); Sonoma (11); Stanislaus (67); Sutter (2); Tehama (12); Trinity (1); Tulare (8); Ventura (44); Yolo (52) and Yuba (1).

Squirrel Update: This week, 5 tree squirrels tested positive for West Nile virus. To date in 2006, 24 of 100 (24%) dead tree squirrels have tested positive from 9 counties: Alameda (2), Butte (1), Contra Costa (12), Los Angeles (1), Marin (1), San Bernardino (2), San Mateo (2), Santa Clara (1), and Shasta (2).

The California Department of Health Services has received a total of 40,935 dead bird reports (hotline and website) this year.

Mosquito Pools

This week, CVEC reported 32 WNV positive mosquito pools from Fresno (1), Kern (11), Kings (1), Los Angeles (2), Marin (1), Merced (1), Orange (1), Placer (1), Riverside (7), Sonoma (1), Stanislaus (4), and Tulare (1) counties. Six mosquito pools from Kern County tested positive for western equine encephalomyelitis virus (WEE). In addition, 22 WNV positive pools were reported by local agencies from the following counties: Contra Costa (2), Sonoma (1), Sacramento (1), San Joaquin (16) and Yolo (2) counties. **These are the first positive mosquito pools reported from Sonoma County in 2006.**

In 2006, 794 mosquito pools have tested positive for WNV from 34 counties: Alameda (9), Butte (1), Calaveras (2), Contra Costa (18); El Dorado (2); Fresno (39); Glenn (1); Imperial (13); Inyo (3); Kern (228); Kings (31); Lake (12); Lassen (3); Los Angeles (67); Madera (4); Marin (3); Merced (5); Orange (9); Placer (23); Riverside (21); Sacramento (31); San Bernardino (24), San Joaquin (38); Santa Barbara (1); Santa Clara (9); Shasta (7); Solano (1); Sonoma (2); Stanislaus (53); Sutter (55); Tulare (8); Ventura (2); Yolo (63); and Yuba (6). 18 mosquito pools from Kern County have tested positive for WEE virus this year.

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Sentinel Chickens

This week, VRDL reported 29 WNV seroconversions from 8 counties: Fresno (3); Imperial (3); Kings (1); Los Angeles (3); Merced (2); Riverside (8); San Bernardino (8); and Shasta (1). In addition, VRDL and local agencies reported 4 flavivirus positive chickens from Los Angeles (2), Sacramento (1), and Placer (1) counties. Two WEE seroconversions were confirmed in chickens from one flock in Kern County.

In 2006, 521 WNV seroconversions have been confirmed in chickens from Butte (47), Colusa (1), Contra Costa (25), Fresno (30), Glenn (11), Imperial (42), Kern (91), Kings (23), Lake (4), Los Angeles (18), Madera (7), Marin (2), Merced (14), Placer (5), Riverside (15), Sacramento (7), San Bernardino (17), San Joaquin (19), Shasta (3), Solano (20), Stanislaus (37), Sutter (36), Tehama (3), Tulare (25), Ventura (1), Yolo (9), and Yuba (9) counties. 102 flocks have at least one chicken test positive for WNV.

WEE antibodies have been detected in 9 chickens from Kern (7) 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	73	0	22	0	0	0	0	0	0
	YTD	1212	0	237	0	0	0	0	0	0
Horses Tested	Week	21	0	5	0	0	0	0	0	0
	YTD	393	0	49	0	0	0	0	0	0

Dead Birds

	Number Tested	WNV Positive
Week	148	64
YTD	4893	1162

Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Flavivirus* Positive
Chicken sera	Week	1066	29	2	0	4
	YTD	25,845	521	9	0	50
Mosquito pools	Week	706	32	6	0	0
	YTD	13,499	629	18	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	241	4	0	0	0
	YTD	5174	97	0	0	0
RAMP	Week	109	18	N/A	N/A	N/A
	YTD	2046	68	--	--	--
VecTest	Week	0	0	N/A	N/A	N/A
	YTD	9	0	--	--	--

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POSITIVES

West Nile Virus Cases* Reported September 25 – September 29, 2006							
ID	Report Date	County ¹	Age	Sex	Clin Pres ²	Onset Date	WNV Fatality?
06-0217	09/25/06	LOS ANGELES	43	M	WNND	08/16/06	NO
06-0218	09/26/06	KERN	59	M	n/a	n/a	NO
06-0219	09/26/06	KERN	21	M	WNND	09/05/06	NO
06-0220	09/26/06	KERN	57	M	WNND	09/04/06	NO
06-0221	09/26/06	KERN	27	F	WNF	09/10/06	NO
06-0222	09/27/06	STANISLAUS	56	F	WNF	08/31/06	NO
06-0223	09/27/06	BUTTE	>18	F	WNF	08/28/06	NO
06-0224	09/27/06	SAN JOAQUIN	>18	F	WNND	08/01/06	NO
06-0225	09/28/06	SANTA CLARA	56	M	WNF	09/05/06	NO
06-0226	09/28/06	BUTTE	>18	F	WNF	08/03/06	NO
06-0227	09/28/06	GLENN	>18	M	WNF	n/a	NO
06-0228	09/28/06	IMPERIAL	78	M	WNND	09/02/06	NO
06-0229	09/28/06	CONTRA COSTA	40	F	WNF	09/12/06	NO
06-0230	09/28/06	SAN BERNARDINO	35	F	WNF	08/18/06	NO
06-0231	09/25/06	GLENN	>18	F	n/a	n/a	NO
06-0232	09/28/06	GLENN	>18	F	WNF	n/a	NO
06-0233	09/28/06	SAN DIEGO	76	M	WNND	09/10/06	NO
06-0234	09/29/06	SOLANO	>18	M	WNF	08/07/06	NO
06-0235	09/29/06	SOLANO	>18	M	WNF	08/03/06	NO
06-0236	09/29/06	SOLANO	>18	F	WNF	08/06/06	NO
06-0237	09/29/06	SOLANO	>18	M	WNND	08/01/06	NO
06-0238	09/29/06	NAPA	n/a	M	n/a	n/a	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
CNTR^	Contra Costa	Concord	313	Cx tarsalis	9/26/2006	9/26/2006	WN
CNTR^	Contra Costa	Pacheco	320	Cx tarsalis	9/26/2006	9/26/2006	WN
CNSL6036	Fresno	Riverdale	371	Cx quinquefasciatus	9/22/2006	9/27/2006	WN
KERN0084	Kern	Arvin	644	Cx tarsalis	9/20/2006	9/29/2006	WN
AFSB0050	Kern	Bakersfield	5858	Cx tarsalis	9/14/2006	9/22/2006	WEE
AFSB0054	Kern	Bakersfield	5867	Cx tarsalis	9/14/2006	9/22/2006	WEE
AFSB0055	Kern	Bakersfield	5873	Cx tarsalis	9/14/2006	9/22/2006	WEE
KERN0009	Kern	Bakersfield	623	Cx quinquefasciatus	9/19/2006	9/26/2006	WN
KERN2002	Kern	Bakersfield	663	Cx quinquefasciatus	9/22/2006	9/29/2006	WN
KERN2007	Kern	Bakersfield	665	Cx quinquefasciatus	9/22/2006	9/26/2006	WN
KERN2007	Kern	Bakersfield	666	Cx quinquefasciatus	9/22/2006	9/29/2006	WN
KERN2007	Kern	Bakersfield	668	Cx quinquefasciatus	9/22/2006	9/26/2006	WN
KERN2024	Kern	Bakersfield	664	Cx quinquefasciatus	9/22/2006	9/26/2006	WN
KERN2025	Kern	Bakersfield	682	Cx quinquefasciatus	9/22/2006	9/26/2006	WN

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AFSB0060	Kern	Buttonwillow	5908	Cx tarsalis	9/21/2006	9/29/2006	WEE
AFSB0060	Kern	Buttonwillow	5909	Cx tarsalis	9/21/2006	9/29/2006	WEE
KERN0015	Kern	Pumpkin Center	619	Cx quinquefasciatus	9/19/2006	9/29/2006	WEE
AFSB0038	Kern	Shafter	5922	Ae melanimon	9/21/2006	9/29/2006	WN
KERN0044	Kern	Shafter	651	Cx quinquefasciatus	9/21/2006	9/26/2006	WN
KERN2022	Kern	Shafter	654	Cx quinquefasciatus	9/21/2006	9/29/2006	WN
CNSL5050	Kings	Kingsburg	367	Cx quinquefasciatus	9/21/2006	9/27/2006	WN
GRLA2889	Los Angeles	Lakewood	764	Cx quinquefasciatus	9/21/2006	9/28/2006	WN
GRLA2524	Los Angeles	Los Angeles	5579	Cx quinquefasciatus	9/13/2006	9/22/2006	WN
MARN0151	Marin	San Rafael	289	Cx tarsalis	9/21/2006	9/29/2006	WN
TRLK0315	Merced	Newman	1508	Cx tarsalis	9/19/2006	9/25/2006	WN
ORCO0002	Orange	Fullerton	745	Cx quinquefasciatus	9/20/2006	9/27/2006	WN
PLCR0057	Placer	Lincoln	438	Cx tarsalis	9/19/2006	9/27/2006	WN
COAV0347	Riverside	La Quinta	1261	Cx quinquefasciatus	9/13/2006	9/22/2006	WN
COAV0030	Riverside	Mecca	1246	Cx tarsalis	9/12/2006	9/22/2006	WN
COAV0033	Riverside	Mecca	1384	Cx tarsalis	9/22/2006	9/29/2006	WN
COAV0034	Riverside	Mecca	1392	Cx tarsalis	9/22/2006	9/29/2006	WN
COAV0035	Riverside	Mecca	1242	Cx tarsalis	9/12/2006	9/22/2006	WN
COAV0035	Riverside	Mecca	1368	Cx tarsalis	9/20/2006	9/29/2006	WN
COAV0048	Riverside	Mecca	1267	Cx tarsalis	9/14/2006	9/22/2006	WN
SAYO2201*	Sacramento	Elk Grove	3577	Cx tarsalis	9/22/2006	9/25/2006	WN
SJCM8032^	San Joaquin	Escalon	7405	Cx pipiens	9/26/2006	9/28/2006	WN
SJCM^	San Joaquin	Galt	7380	Cx tarsalis	9/21/2006	9/22/2006	WN
SJCM^	San Joaquin	Holt	6998	Cx tarsalis	8/28/2006	9/1/2006	WN
SJCM^	San Joaquin	Lodi	7122	Cx tarsalis	9/7/2006	9/8/2006	WN
SJCM^	San Joaquin	Manteca	6988	Cx pipiens	8/28/2006	9/1/2006	WN
SJCM^	San Joaquin	Ripon	6857	Cx pipiens	8/14/2006	8/18/2006	WN
SJCM^	San Joaquin	Ripon	6859	Cx pipiens	8/14/2006	8/18/2006	WN
SJCM^	San Joaquin	Ripon	6905	Cx pipiens	8/21/2006	8/25/2006	WN
SJCM^	San Joaquin	Ripon	6962	Cx pipiens	8/28/2006	9/1/2006	WN
SJCM^	San Joaquin	Ripon	6965	Cx pipiens	8/28/2006	9/1/2006	WN
SJCM^	San Joaquin	Ripon	6982	Cx pipiens	8/28/2006	9/1/2006	WN
SJCM^	San Joaquin	Ripon	7080	Cx pipiens	9/6/2006	9/8/2006	WN
SJCM^	San Joaquin	Stockton	6928	Cx tarsalis	8/22/2006	8/25/2006	WN
SJCM^	San Joaquin	Stockton	6929	Cx tarsalis	8/22/2006	8/25/2006	WN
SJCM^	San Joaquin	Stockton	6932	Cx tarsalis	8/22/2006	8/25/2006	WN
SJCM^	San Joaquin	Wallace	6943	Cx tarsalis	8/24/2006	8/25/2006	WN
MARN0172	Sonoma	Sebastopol	283	Cx tarsalis	9/21/2006	9/29/2006	WN
MARN0172*	Sonoma	Sebastopol	284	Cx pipiens	9/21/2006	9/26/2006	WN
TRLK0434	Stanislaus	Ceres	1467	Cx pipiens	9/19/2006	9/29/2006	WN
TRLK0437	Stanislaus	Patterson	1360	Cx tarsalis	9/19/2006	9/22/2006	WN
TRLK0530	Stanislaus	Turlock	1395	Cx pipiens	9/19/2006	9/22/2006	WN
TRLK0625	Stanislaus	Turlock	1452	Cx pipiens	9/19/2006	9/29/2006	WN
DLTA6118	Tulare	Visalia	106	Cx quinquefasciatus	9/19/2006	9/22/2006	WN
DAVI5119*	Yolo	Davis	1435	Cx tarsalis	9/20/2006	9/25/2006	WN
SAYO1106*	Yolo	Woodland	3486	Cx tarsalis	9/21/2006	9/22/2006	WN

*Local agency RT-PCR

^Local agency RAMP

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Sentinel Chicken Seroconversions

Site Number	County	Nearest City	Date Bled	Antigen	BAND 01	BAND 02	BAND 03
CNSL5007	FRESNO	Laton	9/18/06	WNV	1390	1394	
FRNO0012	FRESNO	Fresno	9/19/06	WNV	1561		
COAV5003	IMPERIAL	Westmoreland	9/18/06	WNV	1263		
IMPR0003	IMPERIAL	El Centro	9/19/06	WNV	1767	1773	
WEST6203	KERN	Hwy 119 and Hwy 43	9/5/06	WEE	3676	3683	
KNGS2003	KINGS	Stratford	9/20/06	WNV	2026		
ANTV5662	LOS ANGELES	Lancaster	9/20/06	Flav	1068	1069	
ANTV8656	LOS ANGELES	Lancaster	9/20/06	WNV	1073	1076	1077
MERC0502	MERCED	Hilmar	9/18/06	WNV	2396	2397	
PLCR0026*	PLACER	Sheridan	9/26/06	Flav	2598		
COAV0122	RIVERSIDE	Mecca	9/5/06	WNV	1211	1310	
NWST0002	RIVERSIDE	Glen Ivy Hot Spring	9/5/06	WNV	2533	2535	
NWST0004	RIVERSIDE	Rubidoux	9/5/06	WNV	2479	2483	2486
RIVR0006	RIVERSIDE	Blythe	9/7/06	WNV	4207		
SAYO7000*	SACRAMENTO	Elk Grove	9/26/06	Flav	2708		
SANB0007	SAN BERNARDINO	Fontana	9/7/06	WNV	2882		
SANB0008	SAN BERNARDINO	Upland	9/6/06	WNV	2893	2945	
SANB0011	SAN BERNARDINO	Rialto	9/8/06	WNV	2899		
WVAL0001	SAN BERNARDINO	Chino	9/6/06	WNV	3689		
WVAL0001	SAN BERNARDINO	Chino	9/19/06	WNV	3688		
WVAL0002	SAN BERNARDINO	Chino	8/9/06	WNV	3691		
WVAL0002	SAN BERNARDINO	Chino	9/6/06	WNV	3693		
BURN0002	SHASTA	Burney	9/13/06	WNV	1098		

*Tested by local agency

WNV Positive Dead Birds

County	City	ZIP	Species	Date Collected	Date Tested	Tested By
Alameda	Berkeley	94710	American Crow	9/18/06	9/25/06	RT-PCR
Alameda	Dublin	94568	House Finch	9/12/06	9/25/06	RT-PCR
Alameda	Livermore	94550	American Crow	9/19/06	9/19/06	RAMP
Alameda	Livermore	94550	American Crow	9/19/06	9/19/06	RAMP
Alameda	Livermore	94550	American Crow	9/21/06	9/21/06	RAMP
Contra Costa	Antioch	94509	American Crow	9/12/06	9/25/06	RT-PCR
Contra Costa	Brentwood	94513	Western Scrub-Jay	9/19/06	9/19/06	RAMP
Contra Costa	Martinez	94553	Steller's Jay	9/21/06	9/21/06	RAMP
Contra Costa	Pittsburg	94565	American Crow	9/18/06	9/18/06	RAMP
Contra Costa	Pleasant Hill	94523	Western Scrub-Jay	9/11/06	9/25/06	RT-PCR
Contra Costa	Pleasant Hill	94523	Western Scrub-Jay	9/14/06	9/14/06	RAMP
Contra Costa	Walnut Creek	94595	American Crow	9/12/06	9/25/06	RT-PCR
El Dorado	Cool	95614	Yellow-billed Magpie	9/11/06	9/25/06	RT-PCR
El Dorado	El Dorado Hills	95762	House Finch	9/8/06	9/25/06	RT-PCR
Fresno	Clovis	93612	European Starling	9/13/06	9/25/06	RT-PCR
Kings	Lemoore	93245	American Crow	9/14/06	9/25/06	RT-PCR

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Los Angeles	Burbank	91504	American Crow	9/14/06	9/25/06	RT-PCR
Los Angeles	Cerritos	90703	American Crow	9/18/06	9/18/06	VecTest
Los Angeles	Encino	91436	Red-tailed Hawk	9/18/06	9/25/06	RT-PCR
Los Angeles	Hidden Hills	91302	American Crow	9/21/06	9/21/06	VecTest
Los Angeles	Los Angeles	90004	American Crow	9/21/06	9/21/06	VecTest
Los Angeles	Los Angeles	90034	American Crow	9/21/06	9/21/06	VecTest
Los Angeles	Los Angeles	90077	Red-tailed Hawk	9/18/06	9/25/06	RT-PCR
Los Angeles	Van Nuys	91401	American Crow	9/21/06	9/21/06	VecTest
Merced	Hilmar	95324	American Crow	9/15/06	9/25/06	RT-PCR
Merced	Merced	95348	American Crow	9/13/06	9/25/06	RT-PCR
Merced	Merced	95340	Yellow-billed Magpie	9/15/06	9/25/06	RT-PCR
Modoc	Alturas	96101	Cooper's Hawk	9/11/06	9/25/06	RT-PCR
Monterey	Greenfield	93927	Barn Owl	9/14/06	9/25/06	RT-PCR
Placer	Roseville	95747	Western Scrub-Jay	9/14/06	9/25/06	RT-PCR
Sacramento	Sacramento	95838	Yellow-billed Magpie	9/13/06	9/25/06	RT-PCR
San Bernardino	Alta Loma	91701	American Crow	9/17/06	9/17/06	RAMP
San Bernardino	Big Bear City	92314	Lesser Goldfinch	9/13/06	9/25/06	RT-PCR
San Bernardino	Fontana	92335	American Crow	9/18/06	9/18/06	RAMP
San Bernardino	Running Springs	92382	American Crow	9/20/06	9/20/06	RAMP
San Francisco	San Francisco	94132	House Finch	9/14/06	9/25/06	RT-PCR
Santa Clara	Cupertino	95014	American Crow	9/13/06	9/13/06	VecTest
Santa Clara	Los Gatos	95032	American Crow	9/13/06	9/13/06	VecTest
Santa Clara	Monte Sereno	95030	American Crow	9/18/06	9/18/06	VecTest
Santa Clara	Monte Sereno	95030	Western Scrub-Jay	9/20/06	9/20/06	VecTest
Santa Clara	San Jose	95126	American Crow	9/15/06	9/15/06	VecTest
Santa Clara	Santa Clara	95051	Western Scrub-Jay	9/5/06	9/5/06	VecTest
Santa Clara	Saratoga	95070	American Crow	9/19/06	9/19/06	VecTest
Santa Cruz	Santa Cruz	95060	Swainson's Thrush	9/10/06	9/25/06	RT-PCR
Shasta	Redding	96001	American Crow	9/18/06	9/18/06	VecTest
Shasta	Redding	96002	American Crow	9/21/06	9/21/06	VecTest
Shasta	Redding	96001	American Crow	9/21/06	9/21/06	VecTest
Shasta	Redding	96002	Western Scrub-Jay	9/19/06	9/19/06	VecTest
Shasta	Redding	96003	Western Scrub-Jay	9/19/06	9/19/06	VecTest
Shasta	Redding	96002	Yellow-billed Magpie	9/21/06	9/21/06	VecTest
Sonoma	Sonoma	95476	Common Raven	9/14/06	9/25/06	RT-PCR
Stanislaus	Ceres	95307	Western Scrub-Jay	9/12/06	9/25/06	RT-PCR
Stanislaus	Hughson	95326	Yellow-billed Magpie	9/12/06	9/25/06	RT-PCR
Stanislaus	Modesto	95351	Yellow-billed Magpie	9/13/06	9/25/06	RT-PCR
Tehama	Cottonwood	96022	Western Scrub-Jay	9/17/06	9/25/06	RT-PCR
Tehama	Los Molinos	96055	Yellow-billed Magpie	9/26/06	9/26/06	VecTest
Tulare	Terra Bella	93270	Western Scrub-Jay	9/13/06	9/25/06	RT-PCR
Tulare	Three Rivers	93271	Western Scrub-Jay	9/13/06	9/25/06	RT-PCR
Ventura	Camarillo	93012	American Crow	9/15/06	9/25/06	RT-PCR
Ventura	Simi Valley	93065	American Crow	9/13/06	9/25/06	RT-PCR
Ventura	Simi Valley	93065	American Crow	9/19/06	9/25/06	RT-PCR
Ventura	Simi Valley	93065	House Wren	9/18/06	9/25/06	RT-PCR
Yolo	Davis	95616	American Crow	9/17/06	9/25/06	RT-PCR
Yolo	Woodland	95695	Barn Owl	9/14/06	9/25/06	RT-PCR

California Arbovirus Surveillance Bulletin # 32

Week 39 Friday, September 29, 2006

National Comments: As of September 26, 2006, WNV activity had been reported from 48 states, the District of Columbia (DC), and New York City (NYC). A total of 2,720 human cases were reported to the Centers for Disease Control and Prevention (CDC) from 40 states and DC: Alabama (5), Arizona (25), Arkansas (17), California (215), Colorado (199), Connecticut (8), DC (1), Florida (3), Georgia (5), Idaho (642), Illinois (161), Indiana (28), Iowa (24), Kansas (24), Kentucky (5), Louisiana (103), Maryland (2), Michigan (29), Minnesota (60), Mississippi (130), Missouri (44), Montana (30), Nebraska (112), Nevada (114), New Jersey (4), New Mexico (3), New York (11), North Dakota (126), Ohio (23), Oklahoma (29), Oregon (22), Pennsylvania (8), South Dakota (101), Tennessee (8), Texas (211), Utah (114), Virginia (2), Washington (1), West Virginia (1), Wisconsin (15), and Wyoming (55). Of the 2720 cases, 958 (35%) had West Nile neuroinvasive disease (i.e. encephalitis or meningitis). The median age of the 2699 cases where data was available was 50 years (range: 3 months-99 years) and 56% were male. Eighty-seven WNV-associated fatalities have been reported in 2006, from Arizona (1), California (3), Colorado (1), Connecticut (1), Georgia (1), Idaho (10), Illinois (9), Kansas (3), Kentucky (1), Michigan (3), Minnesota (3), Missouri (2), Mississippi (6), Nebraska (1), Nevada (1), New York (1), North Dakota (1), Ohio (1), Oklahoma (5), Pennsylvania (2), South Dakota (2), Tennessee (1), Texas (22), Utah (4), and Wyoming (2).

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].