

California Arbovirus Surveillance Bulletin # 30

Week 37 Friday, September 15, 2006

Weekly Summary

COMMENTS

Humans

This week, 38 new West Nile virus (WNV) cases were reported from 15 counties, **including the first human cases from Marin and Yuba counties in 2006.** As of September 15, 2006, a total of 197 human West Nile virus (WNV) cases have been identified from the following 32 counties: Alameda (1), Butte (25), Colusa (2), Contra Costa (6), El Dorado (1), Fresno (8), Glenn (9), Kern (38), Kings (1), Lake (1), Los Angeles (6), Marin (1), Merced (1), Modoc (2), Mono (1), Nevada (1), Orange (3), Placer (6), Riverside (3), Sacramento (10), San Joaquin (5), San Luis Obispo (1), Santa Clara (4), Shasta (2), Solano (2), Stanislaus (9), Sutter (11), Tehama (2), Tulare (4), Ventura (3), Yolo (25), and Yuba (3). Of the 197 WNV cases, 51 (26%) have been classified as West Nile neuroinvasive disease, and 141 (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, 125 (63%) are male. Two WNV-related fatalities have been reported in 2006, from Butte (1) and Contra Costa (1). Twenty-seven WNV-positive blood donation samples have been identified to date; 13 of the individuals later reported symptoms and were consequently reclassified as cases.

Horses

The California Department of Food & Agriculture reported 5 new equine cases of WNV this week from Mendocino (1), Modoc (1), Shasta (1), Sonoma (1), and Sutter (1) counties. These are the first WNV positive horse cases reported from Sonoma and Sutter counties this year.

In 2006, 43 horses have tested positive for WNV from 17 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); Shasta (4); Sonoma (1); Stanislaus (3); Sutter (1); Tulare (2); and Yuba (2). Twenty-one have died or were euthanized.

Dead Birds

This week, 74 out of 145 (51.0%) dead birds tested positive for WNV.

- 39/89 dead birds tested positive via RT-PCR.
- 24/35 dead birds tested positive via VecTest.
- 6/7 dead birds tested positive via RAMP.
- 5/14 dead birds tested positive via IHC.

The WNV positive dead birds were collected from 23 counties: Alameda (3); Amador (1); Contra Costa (4); El Dorado (1); Fresno (1); Kern (2); Los Angeles (8); Mendocino (1); Merced (2); Orange (5); Riverside (1); Sacramento (3); San Bernardino (3); San Diego (2); San Francisco (1); San Mateo (1); Santa Barbara (1); Santa Clara (18); Shasta (4); Sonoma (2); Stanislaus (4); Tulare (1) and Ventura (5). **This is the first indication of WNV activity in San Francisco County in 2006.**

In 2006, 1,006 out of 4,566 (22.0%) dead birds have tested positive for WNV from 51 counties: Alameda (21) Amador (2); Butte (40); Calaveras (2); Colusa (9); Contra Costa (62); El Dorado (14); Fresno (63); Glenn (32); Humboldt (2); Inyo (8); Kern (22); Kings (10); Lake (6); Lassen (3); Los Angeles (36); Madera (1); Marin (3); Mariposa (1); Mendocino (7); Merced (30); Modoc (1); Mono (1); Monterey (2); Napa (3); Nevada (3); Orange (33); Placer (10); Riverside (1); Sacramento (77); San Benito (1); San Bernardino (16); San Diego (8); San Francisco (1); San Joaquin (42); San Luis Obispo (6); San Mateo (4); Santa Barbara (4); Santa Clara (172); Santa Cruz (2); Shasta (57); Solano (13); Sonoma (9); Stanislaus (61); Sutter (2); Tehama (10); Trinity (1); Tulare (6); Ventura (35); Yolo (50) and Yuba (1).

Squirrel Update: This week, no tree squirrels tested positive for WNV. To date in 2006, 12 out of 77 (15.6%) dead tree squirrels have tested positive for WNV from the following 8 counties: Alameda (1); Butte (1); Contra Costa (3); Los Angeles (1); Marin (1); San Bernardino (2); San Mateo (1); and Shasta (2).

The California Department of Health Services has received a total of 38,779 dead bird reports (hotline and website) this year.

Mosquito Pools

This week, CVEC reported 38 WNV positive mosquito pools from the following 12 counties: Fresno (3); Imperial (1); Kern (11); Kings (2); Lake (1); Los Angeles (7); Madera (2); Merced (1); Placer (3); Stanislaus (2); Sutter (1); and Tulare (4). CVEC also reported 8 western equine encephalomyelitis (WEE) positive pools from Kern County.

Local agencies reported 3 WNV positive mosquito pools from Sacramento (1), San Bernardino (1), and San Joaquin (1) counties.

In 2006, 723 mosquito pools have tested positive for WNV from 33 counties: Alameda (8), Butte (1), Calaveras (2), Contra Costa (15); El Dorado (2); Fresno (38); Glenn (1); Imperial (13); Inyo (3); Kern (214); Kings (30); Lake (12); Lassen (3); Los Angeles (65); Madera (4); Marin (1); Merced (4); Orange (8); Placer (21); Riverside (13); Sacramento (30); San Bernardino

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(23), San Joaquin (21); Santa Barbara (1); Santa Clara (9); Shasta (7); Solano (1); Stanislaus (45); Sutter (55); Tulare (7); Ventura (1); Yolo (59); and Yuba (6).

Eleven mosquito pools from Kern County have tested positive for WEE virus this year.

Sentinel Chickens

VRDL reported 47 new WNV positive chickens this week from 10 counties: Fresno (8); Imperial (7); Kern (1); Los Angeles (3); Madera (3); Merced (10); Riverside (2); San Bernardino (4); Solano (3); and Tulare (6). In addition there were 12 new flavivirus positive chickens from Imperial (1), Placer (3), Sacramento (1), San Bernardino (6), and Solano (1) counties.

In 2006, 446 WNV seroconversions have been confirmed in chickens from Butte (44), Colusa (1), Contra Costa (25), Fresno (27), Glenn (10), Imperial (39), Kern (81), Kings (22), Lake (1), Los Angeles (15), Madera (7), Merced (10); Placer (5), Riverside (6), Sacramento (7), San Bernardino (9), San Joaquin (18), Solano (19), Stanislaus (28), Sutter (34), Tulare (22), Yolo (9), and Yuba (7) counties. Three WEE seroconversions have been confirmed in chickens from Kern (1) and Riverside (2) counties.

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	74	0	38	0	0	0	0	0	0
	YTD	1077	0	197	0	0	0	0	0	0
Horses Tested	Week	22	0	5	0	0	0	0	0	0
	YTD	360	0	43	0	0	0	0	0	0

Dead Birds

	Number Tested	WNV Positive
Week	145	74
YTD	4566	1006

Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Flavivirus* Positive
	YTD	23,874	446	3	0	54
Mosquito pools	Week	489	38	8	0	0
	YTD	12104	586	11	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	4639	90	0	0	0	
RAMP	Week	242	2	N/A	N/A	N/A
	YTD	1753*	47	--	--	--
VecTest	Week	0	0	N/A	N/A	N/A
	YTD	9	0	--	--	--

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POSITIVES

West Nile Virus Cases* Reported September 11 – September 15, 2006							
ID	Report Date	County ¹	Age	Sex	Clin Pres ²	Onset Date	WNV Fatality?
06-0160	09/08/06	GLENN	>18	M	WNF	n/a	NO
06-0161	09/08/06	SACRAMENTO	50	F	WNND	08/30/06	NO
06-0162	09/11/06	SACRAMENTO	76	M	WNF	08/27/06	NO
06-0163	09/11/06	BUTTE	>18	M	WNF	07/29/06	NO
06-0164	09/11/06	BUTTE	>18	F	WNF	08/04/06	NO
06-0165	09/11/06	BUTTE	>18	M	WNF	08/13/06	NO
06-0166	09/12/06	SHASTA	>18	n/a	WNND	Week 33	NO
06-0167	09/12/06	STANISLAUS	28	F	WNF	n/a	NO
06-0169	09/12/06	STANISLAUS	86	F	WNF	08/19/06	NO
06-0170	09/12/06	YOLO	>18	F	WNF	08/14/06	NO
06-0171	09/12/06	RIVERSIDE	<18	M	WNND	08/28/06	NO
06-0172	09/12/06	RIVERSIDE	59	F	WNND	07/22/06	NO
06-0173	09/12/06	LOS ANGELES	53	M	WNF	08/09/06	NO
06-0174	09/12/06	PLACER	>18	M	WNND	08/25/06	NO
06-0175	09/12/06	PLACER	>18	F	WNF	07/31/06	NO
06-0176	09/12/06	KERN	70	F	WNND	08/28/06	NO
06-0177	09/12/06	KERN	58	M	WNF	08/24/06	NO
06-0178	09/12/06	KERN	47	M	WNF	08/21/06	NO
06-0179	09/12/06	KERN	34	M	n/a	n/a	NO
06-0180	09/12/06	KERN	51	M	WNND	08/31/06	NO
06-0181	09/12/06	KERN	33	F	WNF	08/31/06	NO
06-0182	09/13/06	CONTRA COSTA	84	M	WNF	09/01/06	NO
06-0183	09/13/06	BUTTE	>18	F	WNF	08/22/06	NO
06-0184	09/13/06	BUTTE	>18	M	WNF	08/26/06	NO
06-0185	09/13/06	BUTTE	>18	M	WNF [^]	08/19/06	NO
06-0186	09/13/06	SACRAMENTO	76	M	WNF	08/20/06	NO
06-0187	09/14/06	BUTTE	>18	M	WNF	07/15/06	NO
06-0188	09/14/06	MARIN	17	F	WNF [^]	08/24/06	NO
06-0189	09/15/06	YUBA	>18	F	n/a	n/a	NO
06-0190	09/15/06	YUBA	>18	F	n/a	n/a	NO
06-0191	09/15/06	YUBA	>18	F	n/a	n/a	NO
06-0192	09/15/06	YOLO	>18	F	WNF	08/25/06	NO
06-0193	08/20/06	YOLO	>18	M	WNF	08/20/06	NO
06-0194	09/15/06	SUTTER	>18	n/a	WNF	08/20/06	NO
06-0195	09/15/06	SUTTER	>18	n/a	WNF	08/26/06	NO
06-0196	09/15/06	BUTTE	>18	M	WNF	08/14/06	NO
06-0197	09/15/06	LOS ANGELES	53	M	WNF	n/a	NO
06-0198	09/15/06	TULARE	54	M	WNF	09/10/06	NO

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

¹ County of residence

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

[^] Initially identified as blood donor, later developed symptoms

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Mosquito Pools

Site Code	County	City	Pool #	Species	Collected	Tested	Virus
AFSB0040	Kern	Lost Hills	5806	Cx tarsalis	9/8/06	9/15/06	WEE
AFSB0040	Kern	Lost Hills	5809	Cx tarsalis	9/8/06	9/15/06	WEE
AFSB0040	Kern	Lost Hills	5810	Cx tarsalis	9/8/06	9/14/06	WN
AFSB0040	Kern	Lost Hills	5811	Cx tarsalis	9/8/06	9/14/06	WEE
AFSB0045	Kern	Bakersfield	5834	Cx tarsalis	9/8/06	9/14/06	WEE
AFSB0092	Kern	Bakersfield	5792	Cx tarsalis	8/31/06	9/12/06	WEE
CNSL1226	Fresno	Fresno	191	Cx quinquefasciatus	9/8/06	9/14/06	WN
CNSL3080	Fresno	Orange Cove	341	Cx quinquefasciatus	9/12/06	9/15/06	WN
COAV5001	Imperial	Niland	1230	Cx tarsalis	9/7/06	9/13/06	WN
DLTA3300	Tulare	Yetttem	93	Cx quinquefasciatus	9/12/06	9/13/06	WN
DLTA3302	Tulare	Cutler	87	Cx quinquefasciatus	9/12/06	9/13/06	WN
DLTA3303	Tulare	Cutler	88	Cx quinquefasciatus	9/12/06	9/15/06	WN
DLTA6128	Tulare	Visalia	98	Cx quinquefasciatus	9/12/06	9/15/06	WN
FRNO0010	Fresno	Fresno	5028	Cx quinquefasciatus	9/11/06	9/14/06	WN
GRLA2418	Los Angeles	Panorama City	5553	Cx quinquefasciatus	9/1/06	9/14/06	WN
GRLA2636	Los Angeles	Van Nuys	5566	Cx quinquefasciatus	9/8/06	9/13/06	WN
GRLA2648	Los Angeles	Encino	5563	Cx quinquefasciatus	9/8/06	9/13/06	WN
GRLA2650	Los Angeles	Encino	5570	Cx quinquefasciatus	9/8/06	9/15/06	WN
GRLA2650	Los Angeles	Encino	5572	Cx quinquefasciatus	9/8/06	9/15/06	WN
GRLA2651	Los Angeles	Encino	5573	Cx quinquefasciatus	9/8/06	9/13/06	WN
GRLA2655	Los Angeles	Encino	5571	Cx quinquefasciatus	9/8/06	9/13/06	WN
KERN0008	Kern	Bakersfield	523	Cx tarsalis	9/6/06	9/14/06	WN
KERN0009	Kern	Bakersfield	526	Cx quinquefasciatus	9/6/06	9/15/06	WN
KERN0009	Kern	Bakersfield	527	Cx quinquefasciatus	9/6/06	9/14/06	WN
KERN0013	Kern	Bakersfield	532	Cx tarsalis	9/6/06	9/15/06	WEE
KERN0015	Kern	Pumpkin Center	547	Cx quinquefasciatus	9/6/06	9/14/06	WN
KERN0029	Kern	Lamont	561	Cx tarsalis	9/7/06	9/15/06	WEE
KERN0029	Kern	Lamont	563	Cx tarsalis	9/7/06	9/14/06	WN
KERN0029	Kern	Lamont	566	Cx quinquefasciatus	9/7/06	9/14/06	WN
KERN0029	Kern	Lamont	569	Cx quinquefasciatus	9/7/06	9/14/06	WN
KERN0083	Kern	Arvin	573	Cx tarsalis	9/7/06	9/14/06	WN
KERN0083	Kern	Arvin	573	Cx tarsalis	9/7/06	9/15/06	WEE
KERN2021	Kern	Wasco	495	Cx quinquefasciatus	8/25/06	9/11/06	WN
KERN2021	Kern	Wasco	582	Cx quinquefasciatus	9/8/06	9/14/06	WN
KNGS3010	Kings	Hanford	333	Cx tarsalis	9/6/06	9/14/06	WN
KNGS3010	Kings	Hanford	369	Cx quinquefasciatus	9/13/06	9/14/06	WN
LAKE1400	Lake	Lakeport	288	Cx tarsalis	9/8/06	9/13/06	WN
MADR1212	Madera	Madera	12	Cx pipiens	9/13/06	9/14/06	WN
MADR1212	Madera	Madera	22	Cx pipiens	9/13/06	9/14/06	WN
PLCR0201	Placer	Roseville	390	Cx tarsalis	9/6/06	9/13/06	WN
PLCR0301	Placer	Lincoln	412	Cx tarsalis	9/8/06	9/13/06	WN
PLCR0348	Placer	Roseville	400	Cx pipiens	9/6/06	9/13/06	WN
SAYO425*	Sacramento	Elk Grove	3179	Cx quinquefasciatus	9/7/06	9/11/06	WN
SJCM8020^	San Joaquin	Acampo	7245	Cx pipiens	9/14/06	9/15/06	WN
SUYA0044	Sutter	Pleasant Grove	452	Cx tarsalis	9/12/06	9/13/06	WN

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TRLK0004	Merced	Newman	1351	Cx tarsalis	9/6/06	9/15/06	WN
TRLK0530	Stanislaus	Turlock	1279	Cx pipiens	9/6/06	9/15/06	WN
TRLK0613	Stanislaus	Hickman	1311	Cx pipiens	9/6/06	9/15/06	WN
WVAL7002^	San Bernardino	Montclair	598	Cx quinquefasciatus	9/13/06	9/14/06	WN

*Local agency RT-PCR

^Local agency RAMP

Sentinel Chicken Seroconversions

Site Code	County	Nearest City	Date Bled	Antigen	BAND 01	BAND 02	BAND 03	BAND 04	BAND 05
ANTV8656	Los Angeles	Lancaster	8/23/06	WNV	1072				
CNSL5007	Fresno	Laton	9/5/06	WNV	1389				
CNSL5008	Fresno	Orange Cove	9/5/06	WNV	1399	1402			
COAV0200	Riverside	Mecca	9/5/06	WNV	1194	1198			
COAV5002	Imperial	Niland	9/5/06	WNV	4242	4245			
DLNO0021	Tulare	Earlimart	8/31/06	WNV	1491	1496	1497	1498	1500
FRNO0002	Fresno	Kerman	9/5/06	WNV	1568	1572			
FRNO0012	Fresno	Fresno	9/5/06	WNV	1558	1563	1565		
GRLA2223	Los Angeles	Rowland Heights	9/5/06	WNV	1739				
GRLA2465	Los Angeles	Los Angeles	9/6/06	WNV	1683				
IMPR0003	Imperial	El Centro	9/5/06	WNV	1772	1774	1775		
IMPR0003	Imperial	El Centro	9/5/06	WNV	1770	1771			
IMPR0013	Imperial	Calipatria	9/5/06	Flav	1756				
MADR4123	Madera	Chowchilla	9/6/06	WNV	2248	2252	2254		
MERC0002	Merced	Dos Palos	7/24/06	WNV	2347	2359			
MERC0002	Merced	Dos Palos	8/8/06	WNV	2346	2349	2360		
MERC0006	Merced	Merced	8/8/06	WNV	2382	2383	2384	2385	
MERC0502	Merced	Hilmar	8/21/06	WNV	2394				
PLCR0026	Placer	Sheridan	9/11/06	Flav	2600				
PLCR0027	Placer	Loomis	9/11/06	Flav	2588				
PLCR0201	Placer	Roseville	9/11/06	Flav	2591				
SANB0001	San Bernardino	Needles	9/5/06	WNV	2816				
SANB0004	San Bernardino	San Bernardino	8/23/06	WNV	2846	2852	2854		
SANB0007	San Bernardino	Fontana	9/7/06	Flav	2876	2877	2882		
SANB0008	San Bernardino	Upland	9/6/06	Flav	2893	2945			
SANB0011	San Bernardino	Rialto	9/8/06	Flav	2899				
SAYO7000	Sacramento	Elk Grove	9/11/06	Flav	2712				
SOLA0125	Solano	Cordelia	9/5/06	WNV	3345	3346	3351		
SOLA0224	Solano	Birds Landing	9/5/06	Flav	3319				
TLRE0012	Tulare	Alpaugh	9/6/06	WNV	3498				
WEST6202	Kern	Lost Hills Rd. and L	8/22/06	WNV	3665				

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WNV Positive Dead Birds

County	City	Zip	Species	Date Collected	Date Tested	Tested By
Alameda	Livermore	94550	Western Tanager	08/31/06	09/11/06	RT-PCR
Alameda	Pleasanton	94566	American Crow	09/07/06	09/07/06	RAMP
Alameda	Pleasanton	94588	American Crow	09/07/06	09/07/06	RAMP
Amador	Pine Grove	95665	Mourning Dove	09/05/06	09/11/06	RT-PCR
Contra Costa	Antioch	94509	Western Scrub-Jay	09/05/06	09/05/06	RAMP
Contra Costa	Concord	94520	American Crow	09/05/06	09/05/06	RAMP
Contra Costa	Concord	94520	Western Scrub-Jay	08/28/06	09/11/06	RT-PCR
Contra Costa	Concord	94521	Western Scrub-Jay	08/29/06	09/11/06	RT-PCR
El Dorado	Camino	95709	American Robin	09/01/06	09/11/06	RT-PCR
Fresno	Fresno	93726	Northern Mockingbird	08/23/06	09/11/06	RT-PCR
Kern	Bakersfield	93301	Black-headed Grosbeak	08/24/06	09/11/06	RT-PCR
Kern	Bakersfield	93314	Western Scrub-Jay	08/30/06	09/11/06	RT-PCR
Los Angeles	Burbank	91505	American Crow	08/31/06	09/11/06	RT-PCR
Los Angeles	El Monte	91731	Northern Mockingbird	08/31/06	09/11/06	RT-PCR
Los Angeles	North Hollywood	91601	American Crow	08/31/06	09/11/06	RT-PCR
Los Angeles	North Hollywood	91602	American Crow	08/31/06	09/11/06	RT-PCR
Los Angeles	Santa Clarita	91350	American Crow	09/07/06	09/07/06	VecTest
Los Angeles	Studio City	91604	American Crow	08/31/06	09/11/06	RT-PCR
Los Angeles	Van Nuys	91406	Cooper's Hawk	08/30/06	09/11/06	RT-PCR
Los Angeles	Westlake Village	91361	Western Scrub-Jay	09/06/06	09/06/06	VecTest
Mendocino	Ukiah	95482	Western Scrub-Jay	09/01/06	09/11/06	RT-PCR
Merced	Atwater	95301	Yellow-billed Magpie	08/30/06	09/11/06	RT-PCR
Merced	Ballico	95303	Yellow-billed Magpie	08/30/06	09/11/06	RT-PCR
Orange	Fullerton	92833	House Finch	08/29/06	08/29/06	IHC
Orange	La Habra	90631	American Crow	08/30/06	08/30/06	IHC
Orange	Santa Ana	92702	American Crow	08/23/06	08/23/06	IHC
Orange	Tustin	92780	American Crow	08/22/06	08/22/06	IHC
Orange	Yorba Linda	92886	American Crow	08/29/06	08/29/06	IHC
Riverside	Mira Loma	91752	American Crow	08/30/06	09/11/06	RT-PCR
Sacramento	Citrus Heights	95610	Western Scrub-Jay	09/01/06	09/11/06	RT-PCR
Sacramento	Orangevale	95662	Western Bluebird	08/30/06	09/11/06	RT-PCR
Sacramento	Rio Linda	95673	American Crow	09/05/06	09/11/06	RT-PCR
San Bernardino	Big Bear City	92314	Brewer's Blackbird	08/31/06	09/11/06	RT-PCR
San Bernardino	Loma Linda	92357	American Crow	09/06/06	09/06/06	RAMP
San Bernardino	Yucca Valley	92284	House Sparrow	08/23/06	09/11/06	RT-PCR
San Diego	La Mesa	91941	Western Scrub-Jay	09/08/06	09/08/06	VecTest
San Diego	San Diego	92124	Western Scrub-Jay	08/30/06	09/11/06	RT-PCR
San Francisco	San Francisco	94129	Mourning Dove	08/31/06	09/11/06	RT-PCR
San Mateo	San Mateo	94402	California Quail	09/01/06	09/11/06	RT-PCR
Santa Barbara	Santa Barbara	93109	Cockatiel	08/23/06	09/11/06	RT-PCR
Santa Clara	Campbell	95008	American Crow	08/30/06	08/30/06	VecTest
Santa Clara	Cupertino	95014	Western Scrub-Jay	08/30/06	08/30/06	VecTest
Santa Clara	Cupertino	95014	Western Scrub-Jay	08/30/06	08/30/06	VecTest
Santa Clara	Los Gatos	95032	American Crow	09/12/06	09/12/06	VecTest
Santa Clara	San Jose	95130	American Crow	08/30/06	08/30/06	VecTest
Santa Clara	San Jose	95118	American Crow	08/30/06	08/30/06	VecTest
Santa Clara	San Jose	95129	American Crow	08/30/06	08/30/06	VecTest
Santa Clara	San Jose	95124	American Crow	09/01/06	09/01/06	VecTest
Santa Clara	San Jose	95125	American Crow	09/01/06	09/01/06	VecTest

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Santa Clara	San Jose	95130	American Crow	09/01/06	09/01/06	VecTest
Santa Clara	San Jose	95129	American Crow	09/01/06	09/01/06	VecTest
Santa Clara	Santa Clara	95054	Common Raven	08/29/06	08/29/06	VecTest
Santa Clara	Santa Clara	95051	American Crow	08/30/06	08/30/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/24/06	08/24/06	VecTest
Santa Clara	Saratoga	95070	Western Scrub-Jay	08/30/06	08/30/06	VecTest
Santa Clara	Saratoga	95070	Western Scrub-Jay	08/30/06	08/30/06	VecTest
Santa Clara	Saratoga	95070	American Crow	09/01/06	09/01/06	VecTest
Santa Clara	Saratoga	95070	American Crow	09/01/06	09/01/06	VecTest
Shasta	Cottonwood	96022	Western Scrub-Jay	08/29/06	09/11/06	RT-PCR
Shasta	Redding	96001	Western Scrub-Jay	09/07/06	09/07/06	VecTest
Shasta	Redding	96002	American Crow	09/07/06	09/07/06	VecTest
Shasta	Redding	96001	Western Scrub-Jay	09/08/06	09/08/06	VecTest
Sonoma	Santa Rosa	95401	Western Scrub-Jay	08/30/06	09/11/06	RT-PCR
Sonoma	Sonoma	95476	American Crow	09/01/06	09/01/06	RAMP
Stanislaus	Ceres	95307	Western Scrub-Jay	08/31/06	09/11/06	RT-PCR
Stanislaus	Modesto	95350	American Crow	08/30/06	09/11/06	RT-PCR
Stanislaus	Modesto	95358	Parakeet	09/05/06	09/11/06	RT-PCR
Stanislaus	Turlock	95380	Yellow-billed Magpie	08/29/06	09/11/06	RT-PCR
Tulare	Visalia	93292	American Robin	09/05/06	09/11/06	RT-PCR
Ventura	Camarillo	93010	Oak Titmouse	08/30/06	09/11/06	RT-PCR
Ventura	Camarillo	93010	American Crow	08/30/06	09/11/06	RT-PCR
Ventura	Simi Valley	93065	American Crow	08/05/06	09/11/06	RT-PCR
Ventura	Thousand Oaks	91362	American Crow	08/30/06	09/11/06	RT-PCR
Ventura	Thousand Oaks	91360	American Crow	08/31/06	09/11/06	RT-PCR

National Comments: As of September 21, 2006, WNV activity had been reported from 47 states, the District of Columbia (DC), and New York City (NYC) as of September 12, 2006. A total of 1634 human cases were reported to the Centers for Disease Control and Prevention (CDC) from 36 states and DC: Alabama (4), Arizona (13), Arkansas (9), California (159), Colorado (75), Connecticut (7), DC (1), Florida (2), Georgia (5), Idaho (325), Illinois (94), Indiana (1), Iowa (19), Kansas (22), Louisiana (64), Maryland (1), Michigan (14), Minnesota (52), Mississippi (70), Missouri (24), Montana (10), Nebraska (56), Nevada (99), New Jersey (3), New Mexico (3), New York (8), North Dakota (101), Ohio (11), Oklahoma (22), Oregon (22), Pennsylvania (6), South Dakota (86), Texas (129), Utah (81), West Virginia (1), Wisconsin (6), and Wyoming (29). Of the 1634 cases, 630 (39%) had West Nile neuroinvasive disease (i.e. encephalitis or meningitis). The median age of the 1625 cases where data was available was 51 years (range: 3 months-95 years) and 57% were male. Fifty-two WNV-associated fatalities have been reported in 2006, from California (2), Colorado (1), Connecticut (1), Georgia (1), Idaho (5), Illinois (4), Kansas (3), Minnesota (3), Missouri (2), Mississippi (3), Nebraska (1), Nevada (1), North Dakota (1), Oklahoma (5), Pennsylvania (1), South Dakota (1), Texas (13), Utah (3), and Wyoming (1).

California Arbovirus Surveillance Bulletin # 30

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TEST PROTOCOLS

Dead Birds:

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

Sentinel Chickens:

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

Mosquito Pools:

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

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