

# California Arbovirus Surveillance Bulletin # 28

Week 35 Friday, September 1, 2006

## Weekly Summary

### COMMENTS

#### Humans

This week, 42 new West Nile virus (WNV) cases were reported from 19 counties, **including the first human cases from Alameda, Nevada, San Luis Obispo, Shasta, and Ventura counties in 2006.**

As of September 1, 2006, a total of 138 human West Nile virus (WNV) cases have been identified from the following 27 counties: Alameda (1), Butte (15), Colusa (2), Contra Costa (4), El Dorado (1), Fresno (7), Glenn (6), Kern (30), Kings (1), Los Angeles (3), Merced (1), Modoc (1), Mono (1), Nevada (1), Orange (3), Placer (4), Riverside (1), Sacramento (7), San Joaquin (5), San Luis Obispo (1), Santa Clara (3), Shasta (1), Solano (2), Stanislaus (6), Sutter (9), Ventura (1), and Yolo (21). Of the 138 WNV cases, 32 (23%) have been classified as West Nile neuroinvasive disease, and 98 (71%) as West Nile fever. The median age of all cases is 46 years (range: 9-86 years). The median age of neuroinvasive disease cases is 46 years (range: 19-86 years), while the median age of West Nile fever cases is 44 years (range: 9-79 years). Of the 138 cases, 86 (62%) are male. There have been 2 WNV-related fatalities reported in California in 2006, from Butte (1) and Contra Costa (1) counties. Twenty-one WNV-positive blood donation samples have been identified to date; 9 of the individuals later developed symptoms so were reclassified as cases.

#### Horses

The California Department of Food & Agriculture reported six new equine cases of WNV this week from Lake (1) and Lassen (5) counties. This year, 31 horses have tested positive for WNV from the following counties: Fresno (3); Kern (2); Lake (2); Lassen (7); Mendocino (1); Merced (2); Modoc (1); Sacramento (1); San Joaquin (1); San Luis Obispo (3); Shasta (1); Stanislaus (3); Tulare (2); and Yuba (2). Thirteen of the 31 horse cases have died or were euthanized.

#### Dead Birds

This week, 163 out of 236 (68.6%) dead birds tested positive for WNV.

- 70/136 dead birds tested positive via RT-PCR.
- 87/94 dead birds tested positive via VecTest.
- 5/6 dead birds tested positive via RAMP.

The WNV positive dead birds were collected from 30 counties: Alameda (4); Butte (4); Contra Costa (8); El Dorado (1); Fresno (7); Humboldt (1); Inyo (3); Kern (3); Lassen (1); Los Angeles (4); Mendocino (1); Merced (1); Mono (1); Napa (1); Nevada (1); Placer (1); Sacramento (12); San Bernardino (3); San Joaquin (4); San Luis Obispo (2); San Mateo (1); Santa Barbara (2); Santa Clara (73); Santa Cruz (2); Shasta (8); Stanislaus (5); Tehama (2); Tulare (1); Ventura (4); and Yolo (2). **This is the first indication of WNV activity in Santa Cruz County in 2006.**

In 2006, 850 out of 4,241 (20.0%) dead birds have tested positive for WNV from 47 counties: Alameda (16); Butte (40); Calaveras (2); Colusa (9); Contra Costa (54); El Dorado (11); Fresno (62); Glenn (28); Humboldt (2); Inyo (7); Kern (19); Kings (9); Lake (6); Lassen (3); Los Angeles (20); Marin (3); Mariposa (1); Mendocino (4); Merced (27); Modoc (1); Mono (1); Monterey (2); Napa (3); Nevada (3); Orange (28); Placer (9); Sacramento (68); San Benito (1); San Bernardino (11); San Diego (5); San Joaquin (40); San Luis Obispo (6); San Mateo (3); Santa Barbara (3); Santa Clara (129); Santa Cruz (2); Shasta (48); Solano (12); Sonoma (5); Stanislaus (54); Sutter (2); Tehama (7); Trinity (1); Tulare (5); Ventura (27); Yolo (50) and Yuba (1).

*Squirrel Update:* This week, 4 out of 10 (40.0%) tree squirrels tested positive for WNV from Alameda (1), Contra Costa (1), and San Bernardino (2) counties. To date in 2006, 11 out of 65 (16.9%) dead tree squirrels have tested positive from the following 8 counties: Alameda (1); Butte (1); Contra Costa (2); 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 36,159 dead bird reports (hotline and website) this year.

#### Mosquito Pools

CVEC reported 55 WNV positive mosquito pools this week from the following counties: Fresno (3); Imperial (2); Kern (19); Kings (3); Lake (1); Los Angeles (2); Madera (1); Merced (1); Placer (1); Riverside (2); San Bernardino (10); Stanislaus (7); Sutter (1); Tulare (1); and Ventura (1). This is the first WNV positive mosquito pool collected from Ventura County this year.

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Sac-Yolo MVCD reported 7 WNV positive mosquito pools from Sacramento (3) and Yolo (4) counties by RT-PCR. Two mosquito pools tested positive for WNV by RAMP only from Calaveras and Contra Costa counties.

In 2006, 639 mosquito pools have tested positive for WNV from 33 counties: Alameda (7), Butte (1), Calaveras (2), Contra Costa (14); El Dorado (2); Fresno (34); Glenn (1); Imperial (12); Inyo (3); Kern (186); Kings (27); Lake (10); Lassen (3); Los Angeles (48); Madera (2); Marin (1); Merced (3); Orange (6); Placer (16); Riverside (12); Sacramento (28); San Bernardino (21), San Joaquin (20); Santa Barbara (1); Santa Clara (9); Shasta (6); Solano (1); Stanislaus (41); Sutter (54); Tulare (3); Ventura (1); Yolo (58); and Yuba (6).

Three mosquito pools from Kern County have tested positive for western equine encephalomyelitis virus this year.

### Sentinel Chickens

VRDL reported 20 new WNV positive chickens this week from 7 counties: Imperial (3); Kings (4); Los Angeles (1); Madera (2); Sutter (3); Tulare (5); and Yuba (2). In addition, there were 18 new flavivirus positive chickens from Imperial (9), Placer (1), Sacramento (5), San Bernardino (1), and Yolo (2) counties.

In 2006, 343 WNV seroconversions have been confirmed in chickens from Butte (35), Colusa (1), Contra Costa (24), Fresno (16), Glenn (9), Imperial (30), Kern (77), Kings (22), Los Angeles (9), Madera (4), Placer (5), Riverside (4), Sacramento (5), San Joaquin (12), Solano (16), Stanislaus (16), Sutter (30), Tulare (15), Yolo (9), and Yuba (4) counties. Two WEE seroconversions have been detected in chickens from Riverside County.

### Website Information

For updated information on WNV, please visit the California WNV website, [www.westnile.ca.gov](http://www.westnile.ca.gov), the CDC website, [www.cdc.gov](http://www.cdc.gov), and the USGS website, [www.westnilemaps.usgs.gov](http://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	55	0	42	0	0	0	0	0	0
	YTD	960	0	138	0	0	0	0	0	0
Horses Tested	Week	15	0	6	0	0	0	0	0	0
	YTD	320	0	31	0	0	0	0	0	0

### Dead Birds

	Number Tested	WNV Positive
Week	236	163
YTD	4241	850

### Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Flavivirus* Positive
	YTD	22,993	343	2	0	56
Mosquito pools	Week	634	55	0	0	0
	YTD	11069	509	3	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	4187	87	0	0	0
RAMP	Week	94	2	N/A	N/A	N/A
	YTD	1401*	43	--	--	--
VecTest	Week	9	0	N/A	N/A	N/A
	YTD	9	0	--	--	--

\*Total does not include pools confirmed by CVEC

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## POSITIVES

West Nile Virus Cases* Reported August 28 – September 1, 2006							
ID	Report Date	County <sup>1</sup>	Age	Sex	Clin Pres <sup>2</sup>	Onset Date	WNV Fatality?
06-0097	08/28/06	FRESNO	24	F	WNF	08/05/06	NO
06-0098	08/28/06	BUTTE	>18	M	WNF	07/20/06	NO
06-0099	08/28/06	BUTTE	>18	F	WNF	08/07/06	NO
06-0100	08/28/06	BUTTE	>18	M	WNF	06/01/06	NO
06-0101	08/28/06	BUTTE	>18	F	WNF	08/10/06	NO
06-0102	08/28/06	GLENN	>18	F	WNF	n/a	NO
06-0103	08/28/06	PLACER	>18	M	WNF	08/17/06	NO
06-0104	08/28/06	BUTTE	>18	M	WNF	08/01/06	NO
06-0105	08/28/06	GLENN	>18	M	WNF	n/a	NO
06-0106	08/29/06	GLENN	>18	F	WNF	n/a	NO
06-0107	08/29/06	KERN	52	M	n/a	n/a	NO
06-0108	08/29/06	KERN	59	F	WNF	08/16/06	NO
06-0109	08/29/06	KERN	37	M	n/a	n/a	NO
06-0110	08/29/06	KERN	37	F	n/a	n/a	NO
06-0111	08/29/06	KERN	30	M	n/a	n/a	NO
06-0112	08/29/06	BUTTE	>18	M	WNF	08/08/06	NO
06-0113	08/29/06	VENTURA	>18	n/a	WNND	n/a	NO
06-0114	08/29/06	ORANGE	61	M	WNF	Week 31	NO
06-0115	08/29/06	FRESNO	66	M	WNF	08/07/06	NO
06-0116	08/29/06	SUTTER	<18	n/a	WNF	06/15/06	NO
06-0117	08/29/06	SUTTER	>18	n/a	WNF^	08/14/06	NO
06-0118	08/29/06	COLUSA	>18	n/a	WNF	08/01/06	NO
06-0119	08/29/06	YOLO	>18	M	WNF	08/01/06	NO
06-0120	08/29/06	SHASTA	>18	n/a	WNND	n/a	NO
06-0121	08/30/06	CONTRA COSTA	40	F	WNF	08/19/06	NO
06-0122	08/30/06	SANTA CLARA	44	M	WNF	07/15/06	NO
06-0123	08/30/06	SANTA CLARA	74	M	WNND	08/05/06	NO
06-0124	08/30/06	LOS ANGELES	56	M	WNF	08/17/06	NO
06-0125	08/30/06	SACRAMENTO	35	M	WNF	08/13/06	NO
06-0126	08/30/06	BUTTE	>18	F	WNF	08/01/06	NO
06-0127	08/31/06	NEVADA	27	M	WNND	08/22/06	NO
06-0128	08/31/06	SAN LUIS OBISPO	34	M	WNND	08/15/06	NO
06-0129	08/31/06	YOLO	>18	M	WNND	08/19/06	NO
06-0130	08/31/06	PLACER	>18	M	WNF	08/01/06	NO
06-0131	08/31/06	SUTTER	>18	n/a	WNF	08/11/06	NO
06-0132	08/31/06	BUTTE	>18	F	WNF	08/01/06	NO
06-0133	08/31/06	BUTTE	>18	M	WNF	08/04/06	NO
06-0134	08/31/06	BUTTE	>18	M	WNF	08/20/06	NO

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06-0135	08/31/06	STANISLAUS	36	F	WNF	08/09/06	NO
06-0136	08/31/06	STANISLAUS	48	M	WNF	08/22/06	NO
06-0137	09/01/06	ALAMEDA	>18	M	WNF	08/19/06	NO
06-0138	09/01/06	SACRAMENTO	59	F	WNF	08/06/06	NO

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

<sup>1</sup> County of residence

<sup>2</sup> Clinical presentation of WNV: WNF=fever; WNND=neuroinvasive

<sup>^</sup> Initially identified as blood donor, later developed symptoms

## Mosquito Pools

Site Code	County	City	Pool #	Species	Collected	Tested	Virus
AFSB0041	Kern	Lost Hills	5747	Cx tarsalis	8/24/06	8/31/06	WN
AFSB0062	Kern	Lost Hills	5749	Cx tarsalis	8/24/06	8/31/06	WN
AFSB0090	Kern	Lost Hills	5751	Cx tarsalis	8/24/06	8/31/06	WN
AFSB0038	Kern	Shafter	5753	Cx tarsalis	8/24/06	8/31/06	WN
AFSB0056	Kern	Buttonwillow	5758	Cx quinquefasciatus	8/24/06	8/31/06	WN
AFSB0056	Kern	Buttonwillow	5759	Cx quinquefasciatus	8/24/06	8/31/06	WN
CNSL2055	Fresno	Clovis	171	Cx tarsalis	8/25/06	8/30/06	WN
CNSL3124	Fresno	Dinuba	324	Cx stigmatosoma	8/29/06	9/1/06	WN
CNSL3120	Fresno	Orange Cove	326	Cx quinquefasciatus	8/29/06	8/30/06	WN
COAV5001	Imperial	Niland	1178	Cx tarsalis	8/23/06	9/1/06	WN
COAV5003	Imperial	Westmoreland	1182	Cx tarsalis	8/23/06	8/31/06	WN
COAV0033	Riverside	Mecca	1186	Cx quinquefasciatus	8/25/06	8/31/06	WN
DLTA5353	Tulare	Visalia	78	Cx quinquefasciatus	8/29/06	8/31/06	WN
GRLA2636	Los Angeles	Van Nuys	689	Cx quinquefasciatus	8/24/06	8/31/06	WN
GRLA2648	Los Angeles	Encino	690	Cx quinquefasciatus	8/24/06	8/31/06	WN
KERN0013	Kern	Bakersfield	463	Cx quinquefasciatus	8/22/06	8/31/06	WN
KERN0015	Kern	Pumpkin Center	465	Cx quinquefasciatus	8/22/06	9/1/06	WN
KERN0015	Kern	Pumpkin Center	466	Cx quinquefasciatus	8/22/06	8/31/06	WN
KERN0036	Kern	Bakersfield	470	Cx tarsalis	8/22/06	9/1/06	WN
KERN0036	Kern	Bakersfield	471	Cx tarsalis	8/22/06	8/31/06	WN
KERN0027	Kern	Bakersfield	473	Cx quinquefasciatus	8/24/06	8/31/06	WN
KERN0029	Kern	Lamont	478	Cx quinquefasciatus	8/24/06	8/31/06	WN
KERN0031	Kern	Arvin	482	Cx tarsalis	8/24/06	8/31/06	WN
KERN0031	Kern	Arvin	483	Cx tarsalis	8/24/06	8/31/06	WN
KERN0084	Kern	Arvin	486	Cx tarsalis	8/24/06	8/31/06	WN
KERN0033	Kern	Arvin	489	Cx quinquefasciatus	8/24/06	9/1/06	WN
KERN0044	Kern	Shafter	492	Cx quinquefasciatus	8/25/06	8/31/06	WN
KERN0044	Kern	Shafter	493	Cx quinquefasciatus	8/25/06	8/31/06	WN
KNGS3031	Kings	Stratford	280	Cx tarsalis	8/22/06	8/31/06	WN
KNGS4003	Kings	Hanford	287	Cx quinquefasciatus	8/29/06	8/31/06	WN
KNGS3031	Kings	Stratford	312	Cx quinquefasciatus	8/30/06	9/1/06	WN
LAKE1004	Lake	Upper Lake	249	Cx stigmatosoma	8/29/06	8/31/06	WN
MADR1212	Madera	Madera	10	Cx pipiens	8/29/06	8/31/06	WN
MERC0507	Merced	livingston	151	Cx pipiens	8/23/06	9/1/06	WN
NWST0020	Riverside	Santa Ana River Wildlife	122	Cx erythrothorax	8/16/06	8/29/06	WN
PLCR0026	Placer	Sheridan	346	Cx tarsalis	8/23/06	8/30/06	WN
SANB0001	San Bernardino	Needles	272	Cx tarsalis	8/9/06	8/31/06	WN
SANB0001	San Bernardino	Needles	273	Cx tarsalis	8/9/06	8/31/06	WN
SANB0024	San Bernardino	Needles	285	Cx tarsalis	8/9/06	8/31/06	WN

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SANB0024	San Bernardino	Needles	286	Cx tarsalis	8/9/06	8/31/06	WN
SANB0024	San Bernardino	Needles	287	Cx tarsalis	8/9/06	8/31/06	WN
SANB0024	San Bernardino	Needles	288	Cx tarsalis	8/9/06	8/31/06	WN
SANB0024	San Bernardino	Needles	289	Cx tarsalis	8/9/06	8/31/06	WN
SANB0024	San Bernardino	Needles	290	Cx tarsalis	8/9/06	8/31/06	WN
SANB0024	San Bernardino	Needles	329	Cx tarsalis	8/22/06	8/31/06	WN
SANB0001	San Bernardino	Needles	332	Cx tarsalis	8/22/06	8/31/06	WN
SUYA0063	Sutter	Pennington	414	Cx tarsalis	8/24/06	8/31/06	WN
TRLK0516	Stanislaus	Denair	1183	Cx pipiens	8/24/06	9/1/06	WN
TRLK0535	Stanislaus	Keyes	1191	Cx pipiens	8/25/06	8/29/06	WN
TRLK0609	Stanislaus	Turlock	1196	Cx pipiens	8/25/06	9/1/06	WN
TRLK0540	Stanislaus	Keyes	1197	Cx pipiens	8/25/06	9/1/06	WN
TRLK0617	Stanislaus	Turlock	1209	Cx pipiens	8/30/06	8/31/06	WN
TRLK0617	Stanislaus	Turlock	1218	Cx pipiens	8/30/06	8/31/06	WN
VENT2009	Ventura	Thousand oaks	12	Cx quinquefasciatus	8/15/06	8/29/06	WN
TRLK0617	Stanislaus	Turlock	1227	Cx pipiens	8/30/06	8/31/06	WN
SAYO3276*	Yolo	Woodland	2716	Cx tarsalis	8/22/06	8/25/06	WN
SAYO4354*	Sacramento	Galt	2747	Cx tarsalis	8/23/06	8/25/06	WN
SAYO4204*	Sacramento	Sacramento	2779	Cx tarsalis	8/24/06	8/25/06	WN
SAYO1106*	Yolo	Woodland	2812	Cx tarsalis	8/24/06	8/25/06	WN
SAYO4309*	Sacramento	Elk Grove	2845	Cx tarsalis	8/22/2006	8/25/06	WN
SAYO3346*	Yolo	Davis	2872	Cx tarsalis	8/22/2006	8/25/06	WN
DAVI5115*	Yolo	Davis	1212	Cx tarsalis	8/23/06	8/28/06	WN
CNTR^	Contra Costa	Pleasant Hill	204	Cx pipiens	8/28/06	8/2/06	WN
SJCM8088^	Calaveras	Wallace	6943	Cx tarsalis	8/25/06	8/28/06	WN

\*Local agency RT-PCR

^Local agency RAMP

## Sentinel Chicken Seroconversions

Site Number	County	Nearest City	Date Bled	Virus	BAND 01	BAND 02	BAND 03	BAND 04	BAND 05	BAND 06
COAV5001	Imperial	Niland	8/21/06	WNV	1304					
GRLA2651	Los Angeles	Encino	8/22/06	WNV	1694					
IMPR0002	Imperial	Seeley	8/22/06	WNV	1782	1784				
IMPR0003	Imperial	El Centro	8/22/06	Flav	1772	1774	1775			
IMPR0013	Imperial	Calipatria	8/22/06	Flav	1757	1761	1762	1763	1764	1765
KNGS2001	Kings	Hanford	8/21/06	WNV	2002	2003				
KNGS2003	Kings	Stratford	8/21/06	WNV	2021	2029				
MADR4123	Madera	Chowchilla	8/23/06	WNV	2247	2256				
PLCR0027	Placer	Loomis	8/29/2006	Flav	2589					
SAYO6001	Yolo	Knights Landing	8/29/2006	Flav	2771					
SAYO6002	Yolo	Woodland	8/29/2006	Flav	2759					
SAYO7000	Sacramento	Elk Grove	8/29/2006	Flav	2705					
SAYO7002	Sacramento	Hood	8/29/2006	Flav	2716	2717	2719	2721		
SUYA0007	Yuba	Marysville	8/17/06	WNV	3437	3439				
SUYA0030	Sutter	Live Oak	8/17/06	WNV	3372	3374	3376			
TLRE0011	Tulare	Mefford Field	8/23/06	WNV	3482	3485	3489			
TLRE0012	Tulare	Alpaugh	8/23/06	WNV	3495	3496				
WVAL0004	San Bernardino	Ontario	8/22/06	Flav	3700					

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## WNV Positive Dead Birds

County	City	Zip	Species	Collected	Tested	Tested By
Alameda	Fremont	94536	House Finch	08/16/06	08/28/06	RT-PCR
Alameda	Livermore	94550	American Crow	08/16/06	08/28/06	RT-PCR
Alameda	Oakland	94619	House Finch	08/17/06	08/28/06	RT-PCR
Alameda	Pleasanton	94566	American Crow	08/22/06	08/22/06	RAMP
Butte	Biggs	95917	Yellow-billed Magpie	08/17/06	08/28/06	RT-PCR
Butte	Chico	95926	Western Scrub-Jay	08/18/06	08/28/06	RT-PCR
Butte	Chico	95928	American Crow	08/18/06	08/28/06	RT-PCR
Butte	Oroville	95966	Black-headed Grosbeak	08/08/06	08/28/06	RT-PCR
Contra Costa	Alamo	94507	Steller's Jay	08/16/06	08/28/06	RT-PCR
Contra Costa	Brentwood	94513	American Kestrel	08/16/06	08/28/06	RT-PCR
Contra Costa	Clayton	94517	Western Scrub-Jay	08/24/06	08/24/06	RAMP
Contra Costa	Concord	94518	American Crow	08/24/06	08/24/06	RAMP
Contra Costa	Knightsen	94548	American Crow	08/22/06	08/28/06	RT-PCR
Contra Costa	Oakley	94561	Western Scrub-Jay	08/15/06	08/28/06	RT-PCR
Contra Costa	Walnut Creek	94598	Western Scrub-Jay	08/17/06	08/28/06	RT-PCR
Contra Costa	Walnut Creek	94595	Western Scrub-Jay	08/22/06	08/28/06	RT-PCR
El Dorado	South Lake Tahoe	96150	Steller's Jay	08/17/06	08/28/06	RT-PCR
Fresno	Caruthers	93609	Great Horned Owl	08/15/06	08/28/06	RT-PCR
Fresno	Clovis	93611	Western Scrub-Jay	08/18/06	08/28/06	RT-PCR
Fresno	Fowler	93625	Brewer's Blackbird	08/20/06	08/28/06	RT-PCR
Fresno	Fresno	93727	Parakeet	08/09/06	08/28/06	RT-PCR
Fresno	Fresno	93725	Western Scrub-Jay	08/14/06	08/28/06	RT-PCR
Fresno	Fresno	93710	Western Scrub-Jay	08/18/06	08/28/06	RT-PCR
Fresno	Fresno	93702	Northern Mockingbird	08/21/06	08/28/06	RT-PCR
Humboldt	Eureka	95503	White-crowned Sparrow	08/09/06	08/28/06	RT-PCR
Inyo	Big Pine	93513	European Starling	08/16/06	08/28/06	RT-PCR
Inyo	Bishop	93514	American Crow	08/17/06	08/28/06	RT-PCR
Inyo	Bishop	93514	American Crow	08/20/06	08/28/06	RT-PCR
Kern	Bakersfield	93306	Western Scrub-Jay	07/21/06	08/28/06	RT-PCR
Kern	Bakersfield	93308	Western Scrub-Jay	08/15/06	08/28/06	RT-PCR
Kern	Bakersfield	93301	House Finch	08/17/06	08/28/06	RT-PCR
Lassen	Mcarthur	93907	Rufous Hummingbird	08/21/06	08/28/06	RT-PCR
Los Angeles	North Hollywood	91601	American Crow	08/18/06	08/28/06	RT-PCR
Los Angeles	Van Nuys	91401	American Crow	08/25/06	08/25/06	VecTest
Los Angeles	Westlake Village	91361	American Crow	08/25/06	08/25/06	VecTest
Los Angeles	Winnetka	91306	American Crow	08/25/06	08/25/06	VecTest
Mendocino	Ukiah	95482	Western Scrub-Jay	08/21/06	08/28/06	RT-PCR
Merced	Atwater	95301	Yellow-billed Magpie	08/16/06	08/28/06	RT-PCR
Mono	Chalfant Valley	93514	American Crow	08/17/06	08/28/06	RT-PCR
Napa	Saint Helena	94574	Western Scrub-Jay	08/23/06	08/23/06	VecTest
Nevada	Penn Valley	95946	House Sparrow	08/09/06	08/28/06	RT-PCR
Placer	Roseville	95747	House Finch	08/16/06	08/28/06	RT-PCR
Sacramento	Carmichael	95608	House Finch	08/21/06	08/28/06	RT-PCR
Sacramento	Citrus Heights	95610	American Crow	08/21/06	08/28/06	RT-PCR
Sacramento	Elk Grove	95757	Pelagic Cormorant	08/16/06	08/28/06	RT-PCR
Sacramento	Elk Grove	95624	American Crow	08/17/06	08/28/06	RT-PCR

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Sacramento	Galt	95632	Barn Owl	08/18/06	08/28/06	RT-PCR
Sacramento	Gold River	95670	House Finch	08/15/06	08/28/06	RT-PCR
Sacramento	Sacramento	95833	Western Scrub-Jay	08/15/06	08/28/06	RT-PCR
Sacramento	Sacramento	95833	Western Scrub-Jay	08/16/06	08/28/06	RT-PCR
Sacramento	Sacramento	95831	Western Scrub-Jay	08/17/06	08/28/06	RT-PCR
Sacramento	Sacramento	95833	Western Scrub-Jay	08/17/06	08/28/06	RT-PCR
Sacramento	Sacramento	95831	American Crow	08/18/06	08/28/06	RT-PCR
Sacramento	Sacramento	95818	House Finch	08/21/06	08/28/06	RT-PCR
San Bernardino	Loma Linda	92354	American Goldfinch	08/15/06	08/28/06	RT-PCR
San Bernardino	Ontario	91762	American Crow	08/25/06	08/25/06	RAMP
San Bernardino	Sam Bernardino	92401	European Starling	08/17/06	08/28/06	RT-PCR
San Joaquin	Manteca	95336	American Crow	08/20/06	08/20/06	VecTest
San Joaquin	Stockton	95210	American Crow	08/23/06	08/23/06	RAMP
San Joaquin	Tracy	95304	American Crow	08/25/06	08/25/06	VecTest
San Joaquin	Woodbridge	95258	Western Scrub-Jay	08/17/06	08/28/06	RT-PCR
San Luis Obispo	Arroyo Grande	93420	American Robin	06/21/06	08/28/06	RT-PCR
San Luis Obispo	Paso Robles	93446	House Finch	08/15/06	08/28/06	RT-PCR
San Mateo	Burlingame	94010	California Towhee	08/08/06	08/28/06	RT-PCR
Santa Barbara	Montecito	93108	American Crow	08/18/06	08/28/06	RT-PCR
Santa Barbara	Santa Ynez	93460	Western Scrub-Jay	08/17/06	08/28/06	RT-PCR
Santa Clara	Campbell	95008	American Crow	08/10/06	08/10/06	VecTest
Santa Clara	Campbell	95008	American Crow	08/11/06	08/11/06	VecTest
Santa Clara	Campbell	95008	American Crow	08/11/06	08/11/06	VecTest
Santa Clara	Campbell	95008	American Crow	08/11/06	08/11/06	VecTest
Santa Clara	Campbell	95008	American Crow	08/08/06	08/08/06	VecTest
Santa Clara	Campbell	95008	American Crow	08/09/06	08/09/06	VecTest
Santa Clara	Campbell	95008	American Crow	08/10/06	08/10/06	VecTest
Santa Clara	Campbell	95008	American Crow	08/16/06	08/16/06	VecTest
Santa Clara	Cupertino	95014	American Crow	08/02/06	08/02/06	VecTest
Santa Clara	Cupertino	95014	American Crow	08/10/06	08/10/06	VecTest
Santa Clara	Cupertino	95014	American Crow	08/11/06	08/11/06	VecTest
Santa Clara	Cupertino	95014	American Crow	08/08/06	08/08/06	VecTest
Santa Clara	Cupertino	95014	American Crow	08/08/06	08/08/06	VecTest
Santa Clara	Los Gatos	95032	American Crow	08/04/06	08/04/06	VecTest
Santa Clara	Los Gatos	95030	American Crow	08/04/06	08/04/06	VecTest
Santa Clara	San Jose	95117	American Crow	08/01/06	08/01/06	VecTest
Santa Clara	San Jose	95117	American Crow	08/01/06	08/01/06	VecTest
Santa Clara	San Jose	95125	American Crow	08/01/06	08/01/06	VecTest
Santa Clara	San Jose	95129	American Crow	08/03/06	08/03/06	VecTest
Santa Clara	San Jose	95129	American Crow	08/03/06	08/03/06	VecTest
Santa Clara	San Jose	95129	American Crow	08/04/06	08/04/06	VecTest
Santa Clara	San Jose	95130	American Crow	08/04/06	08/04/06	VecTest
Santa Clara	San Jose	95129	American Crow	08/04/06	08/04/06	VecTest
Santa Clara	San Jose	95129	American Crow	08/04/06	08/04/06	VecTest
Santa Clara	San Jose	95130	Western Scrub-Jay	08/07/06	08/07/06	VecTest
Santa Clara	San Jose	95129	Western Scrub-Jay	08/07/06	08/07/06	VecTest
Santa Clara	San Jose	95129	American Crow	08/06/06	08/06/06	VecTest
Santa Clara	San Jose	95129	American Crow	08/06/06	08/06/06	VecTest
Santa Clara	San Jose	95125	American Crow	08/07/06	08/07/06	VecTest
Santa Clara	San Jose	95124	American Crow	08/08/06	08/08/06	VecTest

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Santa Clara	San Jose	95117	American Crow	08/10/06	08/10/06	VecTest
Santa Clara	San Jose	95130	American Crow	08/10/06	08/10/06	VecTest
Santa Clara	San Jose	95117	American Crow	08/10/06	08/10/06	VecTest
Santa Clara	San Jose	95117	American Crow	08/10/06	08/10/06	VecTest
Santa Clara	San Jose	95129	American Crow	08/13/06	08/13/06	VecTest
Santa Clara	San Jose	95116	American Crow	08/08/06	08/08/06	VecTest
Santa Clara	San Jose	95129	American Crow	08/09/06	08/09/06	VecTest
Santa Clara	San Jose	95129	American Crow	08/09/06	08/09/06	VecTest
Santa Clara	San Jose	95130	American Crow	08/11/06	08/11/06	VecTest
Santa Clara	Santa Clara	95050	American Crow	08/01/06	08/01/06	VecTest
Santa Clara	Santa Clara	95050	American Crow	08/03/06	08/03/06	VecTest
Santa Clara	Santa Clara	95051	American Crow	08/09/06	08/09/06	VecTest
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
Santa Clara	Saratoga	95070	American Crow	08/01/06	08/01/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/02/06	08/02/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/02/06	08/02/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/02/06	08/02/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/03/06	08/03/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/04/06	08/04/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/08/06	08/08/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/08/06	08/08/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/09/06	08/09/06	VecTest
Santa Clara	Saratoga	95070	Western Scrub-Jay	08/10/06	08/10/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/10/06	08/10/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/10/06	08/10/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/16/06	08/16/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/16/06	08/16/06	VecTest
Santa Clara	Saratoga	95070	Western Scrub-Jay	08/13/06	08/13/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/13/06	08/13/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/13/06	08/13/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/13/06	08/13/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/12/06	08/12/06	VecTest
Santa Clara	Saratoga	95070	Western Scrub-Jay	08/11/06	08/11/06	VecTest
Santa Clara	Saratoga	95070	Western Scrub-Jay	08/11/06	08/11/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/11/06	08/11/06	VecTest
Santa Clara	Saratoga	95070	Western Scrub-Jay	08/11/06	08/11/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/08/06	08/08/06	VecTest
Santa Clara	Saratoga	95070	Steller's Jay	08/08/06	08/08/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/09/06	08/09/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/16/06	08/16/06	VecTest
Santa Clara	Saratoga	95070	American Crow	08/16/06	08/16/06	VecTest
Santa Clara	Sunnyvale	94087	American Crow	07/31/06	07/31/06	VecTest
Santa Cruz	Aptos	95003	American Goldfinch	08/17/06	08/28/06	RT-PCR
Santa Cruz	Santa Cruz	95060	Steller's Jay	08/16/06	08/28/06	RT-PCR
Shasta	Redding	96001	Western Screech Owl	08/17/06	08/28/06	RT-PCR
Shasta	Redding	96002	Yellow-billed Magpie	08/21/06	08/21/06	VecTest
Shasta	Redding	96001	Yellow-billed Magpie	08/21/06	08/21/06	VecTest
Shasta	Redding	96002	Western Scrub-Jay	08/23/06	08/23/06	VecTest
Shasta	Redding	96002	Western Scrub-Jay	08/23/06	08/23/06	VecTest



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Shasta	Redding	96002	Western Scrub-Jay	08/23/06	08/23/06	VecTest
Shasta	Redding	96001	Western Scrub-Jay	08/23/06	08/23/06	VecTest
Shasta	Redding	96003	American Crow	08/23/06	08/23/06	VecTest
Stanislaus	Ceres	95307	Western Scrub-Jay	08/17/06	08/28/06	RT-PCR
Stanislaus	Modesto	95350	American Crow	08/15/06	08/28/06	RT-PCR
Stanislaus	Modesto	95355	American Crow	08/16/06	08/28/06	RT-PCR
Stanislaus	Modesto	95350	American Crow	08/21/06	08/28/06	RT-PCR
Stanislaus	Turlock	95382	American Crow	08/24/06	08/24/06	VecTest
Tehama	Gerber	96035	European Starling	08/09/06	08/28/06	RT-PCR
Tehama	Los Molinos	96055	European Starling	08/09/06	08/28/06	RT-PCR
Tulare	Visalia	93291	Greater Roadrunner	08/09/06	08/28/06	RT-PCR
Ventura	Thousand Oaks	91362	House Finch	08/16/06	08/28/06	RT-PCR
Ventura	Thousand Oaks	91362	American Crow	08/21/06	08/28/06	RT-PCR
Ventura	Ventura	93003	American Crow	08/18/06	08/28/06	RT-PCR
Ventura	Ventura	93003	American Crow	08/18/06	08/28/06	RT-PCR
Yolo	Davis	95616	American Crow	08/18/06	08/28/06	RT-PCR
Yolo	West Sacramento	95691	Brewer's Blackbird	08/21/06	08/28/06	RT-PCR

**National Comments:** As of August 29, 2006, WNV activity had been reported from 47 states and New York City (NYC). A total of 901 human cases were reported to the Centers for Disease Control and Prevention (CDC) from 33 states: Arizona (10), Arkansas (9), California (96), Colorado (41), Connecticut (3), Florida (2), Georgia (1), Idaho (157), Illinois (25), Indiana (1), Iowa (9), Kansas (18), Louisiana (43), Michigan (4), Minnesota (34), Mississippi (32), Missouri (12), Montana (2), Nebraska (41), Nevada (68), New Jersey (1), New Mexico (1), New York (1), North Dakota (46), Ohio (1), Oklahoma (12), Oregon (7), Pennsylvania (5), South Dakota (68), Texas (93), Utah (47), Wisconsin (2), and Wyoming (9). Of the 901 cases, 371 (41%) had West Nile neuroinvasive disease (i.e. encephalitis or meningitis). The median age of the 894 cases where data was available was 50 years (range: 3 months - 95 years) and 55% were male. Thirty-one WNV-associated fatalities have been reported in 2006, from California (2), Connecticut (1), Idaho (3), Illinois (1), Kansas (3), Minnesota (3), Mississippi (2), North Dakota (1), Oklahoma (1), Pennsylvania (1), South Dakota (1), Texas (10), and Utah (2).

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## TEST PROTOCOLS

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### **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.

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### **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.

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### **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.

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*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].*