

California Arbovirus Surveillance Bulletin # 27

Week 34 Friday, August 25, 2006

Weekly Summary

COMMENTS

Humans

This week, 28 new West Nile virus (WNV) cases were reported from 15 counties, including the first human cases from Contra Costa, El Dorado, and Mono Counties. **This is the first indication of WNV activity in Mono County in 2006.**

As of August 25, 2006, a total of 96 human West Nile virus (WNV) cases have been identified from the following 22 counties: Butte (5), Colusa (1), Contra Costa (3), El Dorado (1), Fresno (5), Glenn (3), Kern (25), Kings (1), Los Angeles (2), Merced (1), Modoc (1), Mono (1), Orange (2), Placer (2), Riverside (1), Sacramento (5), San Joaquin (5), Santa Clara (1), Solano (2), Stanislaus (4), Sutter (6), and Yolo (19). Of the 96 WNV cases, 23 (24%) have been classified as West Nile neuroinvasive disease, and 67 (70%) as West Nile fever. The clinical presentation of six cases is unknown. The median age of all cases is 46 years (range: 9 - 86 years). Of the 96 cases, 58 (60%) are male. **There have been two WNV-related fatalities reported in California in 2006, from Butte (1) and Contra Costa (1) counties.** Nineteen WNV-positive blood donation samples have been identified to date; eight of the individuals later developed symptoms compatible with West Nile fever and were consequently reclassified as cases.

Horses

The California Department of Food & Agriculture reported nine new equine cases of WNV this week from Fresno (1), Lake (1), Mendocino (1), Modoc (1), San Luis Obispo (3), Tulare (1), and Yuba (1) Counties. **These are the first WNV equine cases reported from Lake, Mendocino, Modoc, and San Luis Obispo counties this year.**

In 2006, 25 horses have tested positive for WNV from the following counties: Fresno (3); Kern (2); Lake (1); Lassen (2); Mendocino (1); Merced (2); Modoc (1); Sacramento (1); San Joaquin (1); San Luis Obispo (3); Shasta (1); Stanislaus (3); Tulare (2); and Yuba (2).

Dead Birds

This week, 102 out of 224 (45.5%) dead birds tested positive for WNV.

- 67/173 dead birds tested positive via RT-PCR.
- 12/16 dead birds tested positive via VecTest.
- 16/18 dead birds tested positive via RAMP.
- 7/17 dead birds tested positive via IHC.

The WNV positive dead birds were collected from 32 counties: Alameda (7); Butte (6); Contra Costa (5); El Dorado (4); Fresno (4); Glenn (2); Inyo (1); Kern (2); Lake (3); Lassen (1); Los Angeles (4); Marin (2); Mariposa (1); Mendocino (1); Merced (3); Modoc (1); Napa (1); Orange (7); Sacramento (14); San Benito (1); San Bernardino (2); San Diego (1); San Joaquin (3); San Luis Obispo (2); Santa Clara (3); Shasta (7); Solano (2); Sonoma (2); Stanislaus (3); Tulare (1); Ventura (5) and Yolo (1). **This is the first indication of WNV activity in Mariposa and San Benito counties in 2006.**

In 2006, 688 out of 4,003 (17.2%) dead birds have tested positive for WNV from 45 counties: Alameda (12); Butte (36); Calaveras (2); Colusa (9); Contra Costa (46); El Dorado (10); Fresno (55); Glenn (28); Humboldt (1); Inyo (4); Kern (16); Kings (9); Lake (6); Lassen (2); Los Angeles (16); Marin (3); Mariposa (1); Mendocino (3); Merced (26); Modoc (1); Monterey (2); Napa (2); Nevada (2); Orange (28); Placer (8); Sacramento (56); San Benito (1); San Bernardino (8); San Diego (5); San Joaquin (36); San Luis Obispo (4); San Mateo (2); Santa Barbara (1); Santa Clara (56); Shasta (40); Solano (13); Sonoma (5); Stanislaus (49); Sutter (2); Tehama (5); Trinity (1); Tulare (4); Ventura (23); Yolo (48) and Yuba (1).

The California Department of Health Services has received a total of 34,701 dead bird reports (hotline and website) this year.

Mosquito Pools

CVEC reported 63 WNV positive mosquito pools this week from the following counties: Alameda (4); Butte (1); Fresno (1); Kern (17); Kings (5); Lake (4); Los Angeles (16); Marin (1); Orange (2); Placer (3); Riverside (1); Shasta (1); Stanislaus (6) and Tulare (1).

Sac-Yolo MVCD reported 9 WNV positive mosquito pools from Sacramento (4) and Yolo (5) counties by RT-PCR. Eight mosquito pools tested positive for WNV by RAMP only from Riverside (1), San Bernardino (2), Santa Clara (4), and Stanislaus (1) counties. In addition, Contra Costa MVCD reported 2 RAMP positive pools which will be sent to CVEC for confirmation.

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In 2006, 575 mosquito pools have tested positive for WNV from 32 counties: Alameda (7), Butte (1), Calaveras (1), Contra Costa (13); El Dorado (2); Fresno (31); Glenn (1); Imperial (10); Inyo (3); Kern (167); Kings (24); Lake (9); Lassen (3); Los Angeles (46); Madera (1); Marin (1); Merced (2); Orange (6); Placer (15); Riverside (10); Sacramento (25); San Bernardino (11), San Joaquin (20); Santa Barbara (1); Santa Clara (9); Shasta (6); Solano (1); Stanislaus (34); Sutter (53); Tulare (2); Yolo (54); and Yuba (6).

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

Sentinel Chickens

VRDL reported 85 new WNV positive chickens this week from 13 counties: Butte (21); Colusa (1); Fresno (3); Glenn (5); Kern (13); Los Angeles (3); Sacramento (3); Solano (9); Stanislaus (5); Sutter (18); Tulare (1); and Yuba (2). There were 13 new flavivirus positive chickens from Butte (4), Fresno (2), Stanislaus (5), Sutter (2) Counties. In addition, San Joaquin MVCD reported 5 new WNV positive chickens this week. In 2006, 323 WNV seroconversions have been confirmed in chickens from Butte (35), Colusa (1), Contra Costa (24), Fresno (16), Glenn (9), Imperial (27), Kern (77), Kings (18), Los Angeles (8), Madera (2), Placer (5), Riverside (4), Sacramento (5), San Joaquin (12), Solano (16), Stanislaus (16), Sutter (27), Tulare (10), Yolo (9), and Yuba (2) 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, 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	52	0	28	0	0	0	0	0	0
	YTD	905	0	96	0	0	0	0	0	0
Horses Tested	Week	17	0	9	0	0	0	0	0	0
	YTD	305	0	25	0	0	0	0	0	0

Dead Birds

	Number Tested	WNV Positive
Week	224	102
YTD	4003	688

Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Flavivirus* Positive
	YTD	21,854	323	2	0	40
Mosquito pools	Week	678	63	0	0	0
	YTD	10435	454	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	3895	80	0	0	0
RAMP	Week	138	8	N/A	N/A	N/A
	YTD	1307*	41	--	--	--
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 21 – August 25, 2006							
ID	Report Date	County ¹	Age	Sex	Clin Pres ²	Onset Date	WNV Fatality?
06-0069	08/18/06	PLACER	>18	F	WNF [^]	07/27/06	NO
06-0070	08/21/06	GLENN	>18	M	WNF	n/a	NO
06-0071	08/21/06	MONO	>18	n/a	n/a	n/a	NO
06-0072	08/22/06	SAN JOAQUIN	>18	F	WNF	07/30/06	NO
06-0073	08/22/06	SAN JOAQUIN	>18	F	WNND	08/10/06	NO
06-0074	08/22/06	STANISLAUS	<18	M	WNF	08/12/06	NO
06-0075	08/22/06	SUTTER	>18	n/a	WNF	07/28/06	NO
06-0076	08/22/06	SUTTER	>18	n/a	WNF	08/03/06	NO
06-0077	08/22/06	BUTTE	>18	M	WNF	08/05/06	NO
06-0078	08/22/06	LOS ANGELES	71	F	WNND	08/10/06	NO
06-0079	08/22/06	KERN	42	M	WNND	08/02/06	NO
06-0080	08/22/06	KERN	63	M	WNF	07/26/06	NO
06-0081	08/22/06	KERN	19	M	WNF	08/04/06	NO
06-0082	08/22/06	KERN	61	F	n/a	n/a	NO
06-0083	08/22/06	KERN	50	F	n/a	n/a	NO
06-0084	08/22/06	YOLO	>18	M	WNF [^]	07/29/06	NO
06-0085	08/22/06	EL DORADO	60	M	WNF	08/04/06	NO
06-0086	08/22/06	SUTTER	>28	n/a	WNND	08/07/06	NO
06-0087	08/23/06	FRESNO	79	M	WNF	08/04/06	NO
06-0088	08/23/06	YOLO	>18	F	WNF	08/07/06	NO
06-0089	08/24/06	SACRAMENTO	51	F	WNF	08/19/06	NO
06-0090	08/24/06	CONTRA COSTA	85	F	WNND	08/07/06	YES
06-0091	08/24/06	CONTRA COSTA	67	M	WNF	07/28/06	NO
06-0092	08/24/06	CONTRA COSTA	46	F	WNND	08/05/06	NO
06-0093	08/25/06	ORANGE	24	M	WNND	Week 31	NO
06-0094	08/25/06	ORANGE	85	M	WNND	Week 31	NO
06-0095	08/25/06	YOLO	>18	M	WNF	07/21/06	NO
06-0096	08/25/06	YOLO	>18	F	WNF	07/10/06	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	Species	Pool #	Collected	Tested	Virus
AFSB0035	Kern	Bakersfield	Cx quinquefasciatus	5716	8/18/2006	8/24/2006	WN
AFSB0050	Kern	Bakersfield	Cx tarsalis	5718	8/18/2006	8/24/2006	WN
AFSB0050	Kern	Bakersfield	Cx tarsalis	5719	8/18/2006	8/24/2006	WN
AFSB0070	Kern	Bakersfield	Cx tarsalis	5720	8/18/2006	8/24/2006	WN
AFSB0092	Kern	Bakersfield	Cx tarsalis	5722	8/18/2006	8/24/2006	WN
AFSB1002	Kern	Bakersfield	Cx quinquefasciatus	5704	8/16/2006	8/22/2006	WN
ALCO0214	Alameda	Livermore	Cx pipiens	171	8/16/2006	8/25/2006	WN
ALCO0214	Alameda	Livermore	Cx pipiens	173	8/16/2006	8/23/2006	WN
ALCO0214	Alameda	Livermore	Cx pipiens	183	8/17/2006	8/23/2006	WN
ALCO9038	Alameda	Pleasanton	Cx pipiens	187	8/17/2006	8/23/2006	WN
BUCO0072	Butte	Chico	Cx tarsalis	9	8/22/2006	8/24/2006	WN
CNSL5050	Kings	Kingsburg	Cx quinquefasciatus	308	8/22/2006	8/23/2006	WN
CNSL7031	Fresno	Fresno	Cx stigmatosoma	165	8/22/2006	8/23/2006	WN
COAV0033	Riverside	Mecca	Cx tarsalis	1168	8/16/2006	8/24/2006	WN
DAVI5102*	Yolo	Davis	Cx pipiens	1184	8/18/2006	8/21/2006	WN
DLTA5353	Tulare	Visalia	Cx quinquefasciatus	70	8/22/2006	8/25/2006	WN
EAST1022	Stanislaus	Modesto	Cx pipiens	60093	8/18/2006	8/23/2006	WN
GRLA2521	Los Angeles	Los Angeles	Cx quinquefasciatus	5506	8/17/2006	8/24/2006	WN
GRLA2523	Los Angeles	Los Angeles	Cx quinquefasciatus	5510	8/17/2006	8/24/2006	WN
GRLA2555	Los Angeles	Encino	Cx quinquefasciatus	5496	8/15/2006	8/25/2006	WN
GRLA2555	Los Angeles	Encino	Cx quinquefasciatus	5497	8/15/2006	8/25/2006	WN
GRLA2568	Los Angeles	Van Nuys	Cx quinquefasciatus	5511	8/18/2006	8/24/2006	WN
GRLA2570	Los Angeles	Van Nuys	Cx quinquefasciatus	5512	8/18/2006	8/24/2006	WN
GRLA2574	Los Angeles	Sherman Oaks	Cx quinquefasciatus	5499	8/15/2006	8/24/2006	WN
GRLA2583	Los Angeles	Studio City	Cx quinquefasciatus	5494	8/15/2006	8/24/2006	WN
GRLA2636	Los Angeles	Van Nuys	Cx quinquefasciatus	5521	8/20/2006	8/25/2006	WN
GRLA2637	Los Angeles	Van Nuys	Cx quinquefasciatus	682	8/19/2006	8/24/2006	WN
GRLA2648	Los Angeles	Encino	Cx quinquefasciatus	672	8/15/2006	8/24/2006	WN
GRLA2657	Los Angeles	Encino	Cx quinquefasciatus	673	8/15/2006	8/24/2006	WN
GRLA2661	Los Angeles	Encino	Cx quinquefasciatus	674	8/15/2006	8/24/2006	WN
GRLA2667	Los Angeles	Encino	Cx quinquefasciatus	681	8/19/2006	8/24/2006	WN
GRLA2667	Los Angeles	Encino	Cx quinquefasciatus	5522	8/20/2006	8/24/2006	WN
GRLA2849	Los Angeles	Panorama City	Cx quinquefasciatus	5519	8/17/2006	8/25/2006	WN
KERN2001	Kern	Bakersfield	Cx quinquefasciatus	440	8/18/2006	8/24/2006	WN
KERN2001	Kern	Bakersfield	Cx quinquefasciatus	442	8/18/2006	8/24/2006	WN
KERN2002	Kern	Bakersfield	Cx quinquefasciatus	444	8/18/2006	8/24/2006	WN
KERN2007	Kern	Bakersfield	Cx quinquefasciatus	447	8/18/2006	8/25/2006	WN
KERN2007	Kern	Bakersfield	Cx quinquefasciatus	448	8/18/2006	8/24/2006	WN
KERN2010	Kern	Bakersfield	Cx quinquefasciatus	449	8/18/2006	8/25/2006	WN
KERN2014	Kern	Bakersfield	Cx quinquefasciatus	450	8/18/2006	8/25/2006	WN
KERN2014	Kern	Bakersfield	Cx quinquefasciatus	452	8/18/2006	8/24/2006	WN
KERN2016	Kern	Bakersfield	Cx quinquefasciatus	454	8/18/2006	8/24/2006	WN
KERN2020	Kern	Bakersfield	Cx quinquefasciatus	458	8/18/2006	8/24/2006	WN
KERN2025	Kern	Bakersfield	Cx quinquefasciatus	459	8/18/2006	8/24/2006	WN
KNGS3018	Kings	Lemoore	Cx tarsalis	263	8/15/2006	8/22/2006	WN
KNGS3026	Kings	Hanford	Cx quinquefasciatus	258	8/15/2006	8/22/2006	WN
KNGS4003	Kings	Hanford	Cx tarsalis	268	8/16/2006	8/22/2006	WN
KNGS4003	Kings	Hanford	Cx quinquefasciatus	269	8/16/2006	8/22/2006	WN
LAKE1001	Lake	Upper Lake	Cx tarsalis	221	8/22/2006	8/24/2006	WN

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LAKE1400	Lake	Lakeport	Cx stigmatosoma	214	8/21/2006	8/24/2006	WN
LAKE1501	Lake	Kelseyville	Cx tarsalis	204	8/17/2006	8/25/2006	WN
LAKE2002	Lake	Lower Lake	Cx tarsalis	232	8/22/2006	8/24/2006	WN
MARN0151	Marin	San Rafael	Cx tarsalis	129	8/18/2006	8/25/2006	WN
ORCO0002	Orange	Fullerton	Cx quinquefasciatus	586	8/15/2006	8/25/2006	WN
ORCO0021	Orange	Orange	Cx quinquefasciatus	600	8/18/2006	8/25/2006	WN
PLCR0025	Placer	Lincoln	Cx tarsalis	306	8/17/2006	8/23/2006	WN
PLCR0155	Placer	Sheridan	Cx tarsalis	314	8/17/2006	8/23/2006	WN
PLCR0320	Placer	Roseville	Cx pipiens	322	8/17/2006	8/23/2006	WN
SAYO2112*	Sacramento	Sacramento	Cx pipiens	2604	8/17/2006	8/21/2006	WN
SAYO3270*	Yolo	Woodland	Cx pipiens	2497	8/15/2006	8/18/2006	WN
SAYO3276*	Yolo	Woodland	Cx tarsalis	2503	8/15/2006	8/18/2006	WN
SAYO3334*	Yolo	Davis	Cx pipiens	2654	8/18/2006	8/21/2006	WN
SAYO4260*	Sacramento	Elk Grove	Cx tarsalis	2670	8/18/2006	8/21/2006	WN
SAYO4260*	Sacramento	Elk Grove	Cx pipiens	2673	8/18/2006	8/21/2006	WN
SAYO4321*	Yolo	Wilton	Cx tarsalis	2640	8/18/2006	8/21/2006	WN
SAYO4333*	Sacramento	Wilton	Cx tarsalis	2634	8/18/2006	8/21/2006	WN
SHAS0009	Shasta	Cottonwood	Cx tarsalis	56	8/18/2006	8/23/2006	WN
STCL^	Santa Clara	Campbell	Cx pipiens	651	7/26/2006	7/26/2006	WN
STCL^	Santa Clara	San Jose	Cx pipiens	664	8/4/2006	8/4/2006	WN
STCL^	Santa Clara	San Jose	Cx pipiens	665	8/4/2006	8/4/2006	WN
STCL^	Santa Clara	San Jose	Cx pipiens	669	8/4/2006	8/4/2006	WN
TRLK0434	Stanislaus	Ceres	Cx pipiens	1123	8/22/2006	8/23/2006	WN
TRLK0524	Stanislaus	Keyes	Cx pipiens	1117	8/17/2006	8/22/2006	WN
TRLK0524	Stanislaus	Keyes	Cx pipiens	1118	8/17/2006	8/22/2006	WN
TRLK0524	Stanislaus	Keyes	Cx pipiens	1120	8/17/2006	8/25/2006	WN
TRLK0530	Stanislaus	Turlock	Cx pipiens	1144	8/22/2006	8/23/2006	WN
TRLK0535	Stanislaus	Keyes	Cx pipiens	1114	8/17/2006	8/22/2006	WN
WVAL5005^	San Bernardino	Rancho Cucamonga	Cx quinquefasciatus	507	8/22/2006	8/24/2006	WN
WVAL7002^	San Bernardino	Montclair	Cx quinquefasciatus	518	8/23/2006	8/24/2006	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	BAND 07
BUCO0001	BUTTE	Chico	7/31/06	WNV	1601						
BUCO0001	BUTTE	Chico	8/14/06	WNV	1605	1606	1607	1609	1611		
BUCO0002	BUTTE	Oroville	8/14/06	WNV	1612	1613	1618	1621	1622		
BUCO0003	BUTTE	Oroville	8/14/06	WNV	1623	1625	1633				
BUCO0005	BUTTE	Honcut	8/14/06	WNV	1645	1647	1649	1650	1652	1654	1655
BUCO0006	BUTTE	Chico	8/14/06	Flav	1664	1666					
BUCO0007	BUTTE	Chico	8/14/06	Flav	1668	1672					
CLSA0001	COLUSA	Colusa	8/8/06	WNV	1340						
CNSL5005	FRESNO	Fresno-Yosemite Airp	8/21/06	WNV	1363	1368					
FRNO0002	FRESNO	Kerman	8/7/06	WNV	1570						
FRWS0001	FRESNO	The Mendota Airport	8/8/06	Flav	4113						
FRWS0021	FRESNO	Firebaugh	8/8/06	Flav	4110						
GLEN9701	GLENN	Center of City of Wi	8/16/06	WNV	1591	1592	1594	1596	1597		
KERN0102	KERN	Buttonwillow	8/14/06	WNV	1936	1937	1939	1940	1951		
KERN0105	KERN	Pumpkin Center	8/14/06	WNV	1953	1954	1955	1956	1957	1960	

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KERN0107	KERN	Arvin	8/14/06	WNV	1958					
KERN0111	KERN	Arvin	8/14/06	WNV	1921					
GRLA2651	LOS ANGELES	Encino	8/8/06	WNV	1691	1695	1696			
SJCM9901	SAN JOAQUIN	Lodi	8/21/06	WNV	3070	3076				
SJCM9906	SAN JOAQUIN	French Camp	8/21/06	WNV	3100	3102	3103			
SAYO7000	SACRAMENTO	Elk Grove	8/18/06	WNV	2706	2711				
SAYO7001	SACRAMENTO	Galt	8/18/06	WNV	2727					
SOLA0125	SOLANO	Cordelta	8/3/06	WNV	3344	3349	3350	3352	3353	
SOLA0125	SOLANO	Cordelta	8/17/06	WNV	3342	3343	3347	3348		
EAST1947	STANISLAUS	Modesto	8/16/06	Flav	1539	1542				
TRLK0402	STANISLAUS	Denair	8/14/06	Flav	3570	3572	3574			
TRLK9701	STANISLAUS	Grayson	8/14/06	WNV	3520					
TRLK9703	STANISLAUS	Crows Landing	7/31/06	WNV	3547	3552	3553			
TRLK9703	STANISLAUS	Crows Landing	8/14/06	WNV	3545					
SUYA0014	SUTTER	Sutter	8/3/06	WNV	3382	3383	3386	3388	3390	
SUYA0014	SUTTER	Sutter	8/17/06	WNV	3381	3384	3385			
SUYA0015	SUTTER	Robbins	8/17/06	WNV	3401	3402	3403	3406	3406	
SUYA0020	SUTTER	Meridian	8/3/06	WNV	3392	3397	3399			
SUYA0020	SUTTER	Meridian	8/17/06	WNV	3398					
SUYA0030	SUTTER	Live Oak	8/17/06	Flav	3372	3374				
SUYA0031	SUTTER	Rio Oso	8/17/06	WNV	3418					
DLNO0060	Tulare	Delano	8/17/06	WNV	1490					
SAYO6001	YOLO	Knights Landing	8/18/06	WNV	2778					
SUYA0071	YUBA	Olivehurst	8/3/06	WNV	3425	3492				

WNV Positive Dead Birds

County	City	ZIP	Species	Collected	Tested	Tested By
Alameda	Fremont	94539	American Crow	08/09/06	08/09/06	RAMP
Alameda	Livermore	94550	American Crow	08/06/06	08/06/06	RAMP
Alameda	Livermore	94550	American Crow	08/13/06	08/13/06	RAMP
Alameda	Livermore	94550	American Crow	08/15/06	08/15/06	RAMP
Alameda	Pleasanton	94566	American Crow	08/15/06	08/15/06	RAMP
Alameda	Pleasanton	94588	American Crow	08/15/06	08/15/06	RAMP
Alameda	Pleasanton	94566	Western Scrub-Jay	08/18/06	08/18/06	RAMP
Butte	Chico	95927	American Crow	08/09/06	08/21/06	RT-PCR
Butte	Chico	95926	American Crow	08/15/06	08/21/06	RT-PCR
Butte	Chico	95926	Western Scrub-Jay	08/08/06	08/21/06	RT-PCR
Butte	Chico	95973	Western Scrub-Jay	08/15/06	08/21/06	RT-PCR
Butte	Oroville	95965	Western Scrub-Jay	08/14/06	08/21/06	RT-PCR
Butte	Gridley	95948	Yellow-billed Magpie	08/14/06	08/21/06	RT-PCR
Contra Costa	Concord	94518	American Crow	08/08/06	08/21/06	RT-PCR
Contra Costa	Concord	94518	American Crow	08/15/06	08/15/06	RAMP
Contra Costa	Walnut Creek	94597	American Crow	08/15/06	08/15/06	RAMP
Contra Costa	Brentwood	94513	Unknown-hawk	08/17/06	08/17/06	RAMP
Contra Costa	Concord	94521	Western Scrub-Jay	08/15/06	08/15/06	RAMP
El Dorado	South Lake Tahoe	96158	American Robin	08/03/06	08/21/06	RT-PCR
El Dorado	South Lake Tahoe	96150	Barn Swallow	08/08/06	08/21/06	RT-PCR
El Dorado	South Lake Tahoe	96150	Steller's Jay	08/10/06	08/21/06	RT-PCR
El Dorado	South Lake Tahoe	96150	Steller's Jay	08/15/06	08/21/06	RT-PCR

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Fresno	Fresno	93722	Black-headed Grosbeak	08/09/06	08/21/06	RT-PCR
Fresno	Friant	93626	House Finch	08/08/06	08/21/06	RT-PCR
Fresno	Fresno	93726	House Sparrow	08/08/06	08/21/06	RT-PCR
Fresno	Kerman	93630	Western Scrub-Jay	08/10/06	08/21/06	RT-PCR
Glenn	Orland	95963	Western Scrub-Jay	08/11/06	08/21/06	RT-PCR
Glenn	Willows	95988	Yellow-billed Magpie	08/09/06	08/21/06	RT-PCR
Inyo	Bishop	93514	American Crow	08/09/06	08/21/06	RT-PCR
Kern	Bakersfield	93312	House Sparrow	08/14/06	08/21/06	RT-PCR
Kern	Bakersfield	93304	Western Scrub-Jay	08/09/06	08/21/06	RT-PCR
Lake	Kelseyville	95451	American Crow	08/10/06	08/10/06	VecTest
Lake	Lower Lake	95457	American Crow	08/16/06	08/16/06	VecTest
Lake	Kelseyville	95451	Western Scrub-Jay	08/14/06	08/21/06	RT-PCR
Lassen	Doyle	96109	American Robin	08/08/06	08/21/06	RT-PCR
Los Angeles	Palmdale	93551	European Starling	08/07/06	08/21/06	RT-PCR
Los Angeles	San Gabriel	91776	House Finch	08/15/06	08/21/06	RT-PCR
Los Angeles	Westlake Village	91361	American Crow	08/15/06	08/15/06	VecTest
Los Angeles	Westlake Village	91361	American Crow	08/15/06	08/15/06	VecTest
Marin	San Rafael	94903	American Crow	08/07/06	08/21/06	RT-PCR
Marin	San Anselmo	94960	American Crow	08/11/06	08/11/06	RAMP
Mariposa	Mariposa	95338	House Finch	08/09/06	08/21/06	RT-PCR
Mendocino	Ukiah	95482	European Starling	08/03/06	08/21/06	RT-PCR
Merced	Los Banos	93635	American Crow	08/09/06	08/21/06	RT-PCR
Merced	Merced	95340	House Finch	08/08/06	08/21/06	RT-PCR
Merced	Atwater	95301	Western Scrub-Jay	08/09/06	08/21/06	RT-PCR
Modoc	Lookout	96054	Steller's Jay	08/14/06	08/21/06	RT-PCR
Napa	Napa	94559	Western Scrub-Jay	08/12/06	08/21/06	RT-PCR
Orange	Orange	92866	American Crow	08/02/06	08/02/06	IHC
Orange	Santa Ana	92706	American Crow	08/09/06	08/09/06	IHC
Orange	Tustin	92780	American Crow	08/09/06	08/09/06	IHC
Orange	Lake Forest	92630	American Crow	08/15/06	08/15/06	IHC
Orange	Anaheim Hills	92807	House Finch	08/02/06	08/02/06	IHC
Orange	Huntington Beach	92646	House Sparrow	08/02/06	08/02/06	IHC
Orange	Laguna Hills	92653	Mourning Dove	08/03/06	08/03/06	IHC
Sacramento	Galt	95632	American Crow	08/09/06	08/21/06	RT-PCR
Sacramento	Sacramento	95820	American Crow	08/13/06	08/21/06	RT-PCR
Sacramento	Sacramento	95838	American Crow	08/14/06	08/21/06	RT-PCR
Sacramento	Sacramento	95823	American Crow	08/14/06	08/21/06	RT-PCR
Sacramento	Sacramento	95829	American Crow	08/15/06	08/21/06	RT-PCR
Sacramento	Wilton	95693	American Robin	08/02/06	08/21/06	RT-PCR
Sacramento	Folsom	95630	California Quail	08/02/06	08/21/06	RT-PCR
Sacramento	Sacramento	95835	House Finch	08/09/06	08/21/06	RT-PCR
Sacramento	Sacramento	95835	House Finch	08/09/06	08/21/06	RT-PCR
Sacramento	Sacramento	95835	Red-tailed Hawk	08/09/06	08/21/06	RT-PCR
Sacramento	Carmichael	95608	Western Scrub-Jay	08/11/06	08/21/06	RT-PCR
Sacramento	Elk Grove	95758	Western Scrub-Jay	08/14/06	08/21/06	RT-PCR
Sacramento	Sacramento	95834	Western Scrub-Jay	08/11/06	08/21/06	RT-PCR
Sacramento	Folsom	95630	Yellow-billed Magpie	08/14/06	08/21/06	RT-PCR
San Benito	Hollister	95023	American Crow	08/14/06	08/21/06	RT-PCR
San Bernardino	Fontana	92335	American Crow	08/17/06	08/17/06	RAMP
San Bernardino	Upland	91786	American Crow	08/14/06	08/14/06	RAMP

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San Diego	Campo	91906	Barn Owl	08/02/06	08/21/06	RT-PCR
San Joaquin	Stockton	95219	American Crow	08/14/06	08/14/06	VecTest
San Joaquin	Lodi	95242	American Kestrel	08/11/06	08/21/06	RT-PCR
San Joaquin	Tracy	95376	Western Scrub-Jay	08/10/06	08/21/06	RT-PCR
San Luis Obispo	Santa Margarita	93453	American Crow	08/03/06	08/21/06	RT-PCR
San Luis Obispo	Paso Robles	93446	European Starling	06/27/06	08/21/06	RT-PCR
Santa Clara	Cupertino	95014	Cooper's Hawk	08/08/06	08/21/06	RT-PCR
Santa Clara	San Jose	95129	Western Scrub-Jay	08/09/06	08/21/06	RT-PCR
Santa Clara	Saratoga	95070	Western Scrub-Jay	08/06/06	08/21/06	RT-PCR
Shasta	Redding	96001	American Crow	08/15/06	08/15/06	VecTest
Shasta	Redding	96002	American Crow	08/15/06	08/15/06	VecTest
Shasta	Shasta Lake	96019	American Crow	08/16/06	08/16/06	VecTest
Shasta	Redding	96001	Western Scrub-Jay	08/18/06	08/18/06	VecTest
Shasta	Redding	96003	Western Scrub-Jay	08/14/06	08/14/06	VecTest
Shasta	Redding	96002	Western Scrub-Jay	08/16/06	08/16/06	VecTest
Shasta	Anderson	96007	Yellow-billed Magpie	08/15/06	08/15/06	VecTest
Solano	Dixon	95620	American Crow	08/17/06	08/17/06	RAMP
Solano	Dixon	95620	Yellow-billed Magpie	08/14/06	08/14/06	RAMP
Sonoma	Sonoma	95476	American Crow	08/10/06	08/21/06	RT-PCR
Sonoma	Rohnert Park	94928	Western Scrub-Jay	08/07/06	08/21/06	RT-PCR
Stanislaus	Modesto	95350	American Crow	08/11/06	08/21/06	RT-PCR
Stanislaus	Modesto	95356	Northern Mockingbird	08/10/06	08/21/06	RT-PCR
Stanislaus	Salida	95368	Western Scrub-Jay	08/14/06	08/21/06	RT-PCR
Tulare	Visalia	93277	Western Scrub-Jay	08/15/06	08/21/06	RT-PCR
Ventura	Simi Valley	93065	American Crow	08/15/06	08/21/06	RT-PCR
Ventura	Thousand Oaks	91360	American Crow	08/11/06	08/21/06	RT-PCR
Ventura	Thousand Oaks	91362	American Crow	08/11/06	08/21/06	RT-PCR
Ventura	Oxnard	93030	Glaucous-winged Gull	08/02/06	08/21/06	RT-PCR
Ventura	Simi Valley	93065	Western Scrub-Jay	08/10/06	08/21/06	RT-PCR
Yolo	Davis	95618	American Crow	08/10/06	08/21/06	RT-PCR

National Comments: As of August 22, 2006, WNV activity had been reported from 45 states and New York City (NYC). A total of 581 human cases were reported to the Centers for Disease Control and Prevention (CDC) from 29 states: Arizona (5), Arkansas (4), California (62), Colorado (41), Connecticut (1), Georgia (1), Idaho (116), Illinois (6), Indiana (1), Iowa (7), Kansas (1), Louisiana (17), Michigan (2), Minnesota (27), Mississippi (31), Missouri (7), Montana (2), Nebraska (8), Nevada (55), New York (1), North Dakota (24), Oklahoma (4), Oregon (7), Pennsylvania (5), South Dakota (46), Texas (68), Utah (27), Wisconsin (1), and Wyoming (4). Of the 581 cases, 236 (41%) had West Nile neuroinvasive disease (i.e. encephalitis or meningitis). The median age of the 576 cases where data was available was 50 years (range: 3 months - 91 years) and 56% were male. Nineteen WNV-associated fatalities have been reported in 2006, from California (1), Idaho (2), Minnesota (2), Mississippi (2), North Dakota (1), Oklahoma (1), Pennsylvania (1), South Dakota (1), Texas (6), and Utah (2).

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