

California Arbovirus Surveillance Bulletin # 32

Week 38 Friday, September 23, 2005

Weekly Summary

Comments:

Humans:

As of September 23, 2005, 735 human West Nile virus (WNV) infections have been identified from the following local health jurisdictions: Alameda (1), Amador (2), Butte (19), Calaveras (1), Colusa (2), Contra Costa (9), El Dorado (1), Fresno (53), Glenn (12), Humboldt (1), Imperial (1), Kern (49), Kings (29), Los Angeles (30), Madera (7), Merced (15), Nevada (4), Orange (13), Placer (32), Plumas (1), Riverside (73), Sacramento (161), San Bernardino (27), San Diego (1), San Francisco (1), San Joaquin (32), Santa Barbara (1), Santa Clara (4), Solano (4), Sonoma (1), Stanislaus (71), Sutter (9), Tehama (3), Tulare (50), Ventura (1), Yolo (12), and Yuba (2). Eighty-seven of the 735 infections were initially detected in asymptomatic individuals through screening done at blood banks - thirty-seven individuals later developed symptoms. In addition to the individuals detected at blood banks, four individuals who had no symptoms for WNV were detected through the local health department. Of the 681 WNV cases with symptoms, 225 are classified as West Nile neuroinvasive disease cases, 395 are classified as West Nile fever, and 61 are of unknown clinical presentation. The median age for all symptomatic cases where data is available is 50 years (range: 2-93 years). 385 (57%) of the cases are male. There have been 15 WNV-related fatalities to date in California this year, from Amador (1), Butte (1), Fresno (2), Kings (2), Riverside (5), Sacramento (1), San Bernardino (1), San Joaquin (1), and Tulare (1) counties. The median age of the 15 fatalities was 81 years.

Horses:

The California Department of Food & Agriculture reported 33 new confirmed cases of equine WNV in Colusa (1), Contra Costa (2), El Dorado (2), Fresno (2), Kern (1), Lake (4), Lassen (1), Madera (1), Mariposa (1), Mendocino (1), Merced (1), Placer (1), Riverside (2), Sacramento (1), San Luis Obispo (5), Shasta (1), Solano (2), Stanislaus (2), Ventura (1), and Yolo (1) counties. These were the first WNV positive horses in Lassen and Mendocino counties. The YTD total for the State is 405.

Dead Birds:

This week the hotline received 2,418 dead bird reports, for a YTD total of 97,581 reports. 159 out of 270 (58.9%) dead birds collected from 40 counties tested positive for WNV this week.

- 88 out of 198 (44.4%) dead birds tested positive via RT-PCR.
- 62 out of 63 (98.4%) corvids tested positive via VecTest.
- 9 out of 9 (100%) corvids tested positive via RAMP.

The WNV positive dead birds were collected from the following counties: Alameda (8); Amador (3); Calaveras (1); Contra Costa (10); El Dorado (8); Inyo (1); Kings (1); Lake (1); Los Angeles (18); Mariposa (1); Mendocino (3); Merced (5); Modoc (1); Monterey (1); Nevada (4); Placer (5); Riverside (2); Sacramento (1); San Diego (12); San Luis Obispo (7); Santa Barbara (5); Santa Clara (19); Shasta (2); Siskiyou (2); Sonoma (4); Stanislaus (15); Tehama (2); Tulare (1); Tuolumne (13); and Ventura (3).

The following bird species tested positive for WNV: American crow (66); American goldfinch (1); American robin (1); Brewer's blackbird (1); California towhee (1); common raven (1); golden eagle (1); great-horned owl (1); house finch (5); house sparrow (1); red-tailed hawk (1); Steller's jay (2); western bluebird (1); western scrub-jay (54); white-breasted nuthatch (1); and yellow-billed magpie (21). See "WNV Positive Dead Birds" table for details.

Since January 1, 2005, 2,534 of 7,552 (33.6%) dead birds have tested positive for WNV.

Mosquito Pools:

WNV: CVEC reported 52 WNV positive mosquito pools from the following counties: Alameda (1), Contra Costa (1), Imperial (1), Kern (3), Lake (2), Los Angeles (4), Merced (2), Orange (4), Riverside (8), San Luis Obispo (1), Santa Barbara (3), and Stanislaus (24). The YTD total for the State is 1172.

Last week the US Army reported a mosquito pool of *Cx. quinquefasciatus* tested positive for WN at Point Mugu Naval Base in Ventura County. It was collected on 8/30/05.

WEE: CVEC also reported three positive WEE pools in Kern and Riverside counties. The YTD for the State is 43.

Sentinel Chickens: WNV: VRDL reported 59 seroconversions among 31 flocks from Fresno (3), Imperial (4), Los Angeles (3), Merced (1), Riverside (31), San Bernardino (5), Shasta (3), Stanislaus (6), Tehama (1), and Tulare (1). The current YTD total stands at 497 seroconversions. Additionally, there are 51 flavivirus positive seroconversions.

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WEE: VRDL reported 1 WEE seroconversion in a flock from San Bernardino County. The current YTD total stands at 89 seroconversions.

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	110	0	72	0	0	0	0	0	0
	YTD	1674	0	735	0	0	0	0	0	0
Horses Tested	Week	33	0	33	0	0	0	0	0	0
	YTD	874	0	405	0	0	0	0	0	0

Dead Birds

	Number Tested	WNV Positive
Week	270	159
YTD	7,552	2,534

Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Other Positive
	YTD	26431	497	89	0	0
Mosquito pools	Week	795	52	3	0	0
	YTD	16633	1172	43	0	0

*Total has been adjusted to include local agency submission

Human Positives Reported (September 19 – September 23):

Virus	Onset Date	Status	Diagnosis	County	Age
WNV	08/18/05	Probable	West Nile Fever	Merced	49
WNV	09/06/05	Probable	West Nile Fever	Placer	>18
WNV	Unk	Probable	West Nile Neuroinvasive Disease	San Bernardino	64
WNV	07/01/05	Probable	West Nile Fever	San Bernardino	59
WNV	09/02/05	Probable	West Nile Neuroinvasive Disease	San Joaquin	43
WNV	Unk	Probable	West Nile Fever	Stanislaus	75
WNV	09/15/05	Probable	West Nile Fever	Sutter	>65
WNV	07/24/05	Probable	West Nile Fever	Sacramento	57
WNV	08/13/05	Probable	West Nile Fever	Sacramento	51
WNV	09/02/05	Probable	West Nile Fever	Sacramento	33
WNV	09/15/05	Probable	West Nile Fever	Sacramento	81
WNV	09/06/05	Probable	West Nile Neuroinvasive Disease	Placer	>65
WNV	09/01/05	Probable	West Nile Neuroinvasive Disease	Placer	>65
WNV	08/30/05	Probable	West Nile Neuroinvasive Disease	Placer	>18

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WNV	08/15/05	Probable	Unk	Placer	>18
WNV	n/a	Probable	West Nile Neuroinvasive Disease	Amador	>65
WNV	Week 34	Probable	West Nile Fever	Butte	>65
WNV	Week 34	Probable	West Nile Fever	Butte	>18
WNV	09/09/05	Probable	West Nile Fever *	Contra Costa	53
WNV	09/05/05	Probable	Unk	Fresno	44
WNV	09/07/05	Probable	Unk	Fresno	58
WNV	Unk	Probable	Unk	Fresno	69
WNV	Unk	Probable	West Nile Neuroinvasive Disease	Kern	38
WNV	09/02/05	Probable	West Nile Fever	Kern	53
WNV	09/11/05	Probable	West Nile Neuroinvasive Disease	Kern	33
WNV	09/04/05	Probable	West Nile Fever	Kern	50
WNV	09/12/05	Probable	West Nile Fever	Kern	38
WNV	09/09/05	Probable	West Nile Fever	Kern	49
WNV	Unk	Probable	Unk	Kern	32
WNV	08/29/05	Probable	West Nile Fever*	Kern	46
WNV	09/13/05	Probable	West Nile Neuroinvasive Disease	Los Angeles	71
WNV	09/10/05	Probable	West Nile Neuroinvasive Disease	Los Angeles	24
WNV	08/20/05	Probable	West Nile Neuroinvasive Disease	Los Angeles	20
WNV	09/07/05	Probable	West Nile Neuroinvasive Disease	Los Angeles	50
WNV	09/01/05	Probable	West Nile Neuroinvasive Disease	Los Angeles	49
WNV	08/17/05	Probable	West Nile Fever	Los Angeles	28
WNV	09/02/05	Probable	West Nile Neuroinvasive Disease	Los Angeles	80
WNV	08/31/05	Probable	West Nile Neuroinvasive Disease	Los Angeles	69
WNV	09/03/05	Probable	West Nile Fever	Los Angeles	50
WNV	08/03/05	Probable	West Nile Neuroinvasive Disease	Madera	>18
WNV	08/28/05	Probable	West Nile Fever	Merced	38
WNV	08/19/05	Probable	West Nile Neuroinvasive Disease	Nevada	46
WNV	09/01/05	Probable	West Nile Fever	Nevada	53
WNV	09/13/05	Probable	West Nile Neuroinvasive Disease	Orange	47
WNV	08/xx/05	Probable	West Nile Neuroinvasive Disease	Orange	36
WNV	09/03/05	Probable	West Nile Neuroinvasive Disease	Orange	83
WNV	09/01/05	Probable	West Nile Fever	San Joaquin	70
WNV	09/03/05	Probable	West Nile Neuroinvasive Disease	San Joaquin	<18
WNV	08/20/05	Probable	West Nile Fever	Solano	>18
WNV	08/28/05	Probable	West Nile Neuroinvasive Disease	Placer	>18
WNV	08/30/05	Probable	West Nile Fever	Placer	>18
WNV	08/02/05	Probable	West Nile Fever *	Orange	33
WNV	08/26/05	Probable	West Nile Fever *	Sacramento	51
WNV	08/01/05	Probable	West Nile Fever	Sacramento	29
WNV	09/08/05	Probable	West Nile Fever	Sacramento	29
WNV	08/22/05	Probable	West Nile Fever	Sacramento	57
WNV	09/15/05	Probable	West Nile Fever	Sacramento	57
WNV	08/22/05	Probable	West Nile Fever	Sacramento	23
WNV	08/25/05	Probable	West Nile Neuroinvasive Disease	Sacramento	40

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WNV	08/15/05	Probable	West Nile Fever	Sutter	>65
WNV	Unk	Probable	West Nile Fever	Tulare	18
WNV	09/08/05	Probable	West Nile Fever	Tulare	85
WNV	08/26/05	Probable	West Nile Fever	Tulare	55
WNV	Week 36	Probable	West Nile Fever *	Yolo	>18
WNV	Week 35	Probable	West Nile Neuroinvasive Disease	Yolo	>65
WNV	Week 35	Probable	West Nile Fever	Yolo	>18
WNV	Unk	Probable	West Nile Fever	Stanislaus	40
WNV	n/a	Probable	West Nile Fever	Glenn	n/a
WNV	09/09/05	Probable	West Nile Neuroinvasive Disease	Santa Clara	84
WNV	08/09/05	Probable	West Nile Fever	Santa Clara	<18
WNV	09/10/05	Probable	West Nile Fever	Colusa	>18
WNV	09/02/05	Probable	West Nile Fever	Nevada	51
WNV	09/05/05	Probable	West Nile Fever	San Bernardino	37
WNV	09/09/05	Probable	West Nile Neuroinvasive Disease	San Bernardino	71
WNV	n/a	Probable	Asymptomatic Blood Donor	Sacramento	23
WNV	n/a	Probable	Asymptomatic Blood Donor	Fresno	39

Bolded entries refer to fatalities.

* = Initially detected by blood bank screening; later became symptomatic

Virus Positive From Mosquito Pools:

Results	Species	Date Collected	Site	Pool #	County	City	Date Received
WN	Cx pipiens	9/15/05	ALCO0001	331	Alameda	Mountain House	9/20/05
WN	Cx tarsalis	9/20/05	CNTR8142	312	Contra Costa	Knightsen	9/22/05
WN	Cx tarsalis	9/8/05	COAV0046	2398	Riverside	Mecca	9/15/05
WN	Cx tarsalis	9/11/05	COAV0030	2438	Riverside	Mecca	9/21/05
WN	Cx tarsalis	9/13/05	COAV5001	2446	Imperial	Niland	9/21/05
WN	Cx tarsalis	9/11/05	COAV0033	2475	Riverside	Mecca	9/21/05
WN	Cx quinquefasciatus	9/15/05	COAV0309	2481	Riverside	Indian Wells	9/21/05
WN	Cx tarsalis	9/15/05	COAV0030	2499	Riverside	Mecca	9/21/05
WN	Cx tarsalis	9/15/05	COAV0033	2501	Riverside	Mecca	9/21/05
WN	Cx tarsalis	9/15/05	COAV0035	2508	Riverside	Mecca	9/21/05
WN	Cx tarsalis	9/15/05	COAV0045	2514	Riverside	Mecca	9/21/05
WN	Cx quinquefasciatus	9/15/05	GRLA2164	1354	Los Angeles	Downey	9/21/05
WN	Cx quinquefasciatus	9/15/05	GRLA2165	1365	Los Angeles	Downey	9/21/05
WN	Cx quinquefasciatus	9/15/05	GRLA2892	1384	Los Angeles	Hawaiian Gardens	9/21/05
WN	Cx quinquefasciatus	9/13/05	GRLA2995	6010	Los Angeles	Woodland Hills	9/21/05
WN	Cx tarsalis	9/13/05	KERN0014	455	Kern	Bakersfield	9/21/05
WN	Cx quinquefasciatus	9/13/05	KERN0015	457	Kern	Pumpkin Center	9/21/05
WN	Cx quinquefasciatus	9/15/05	KERN0046	477	Kern	Wasco	9/21/05
WN	Cx stigmatosoma	9/20/05	LAKE1004	327	Lake	Upper Lake	9/21/05
WN	Cx tarsalis	9/20/05	LAKE1101	328	Lake	Nice	9/21/05
WN	Cx tarsalis	9/13/05	MERC0512	361	Merced	Atwater	9/16/05
WN	Cx pipiens	9/13/05	MERC0512	365	Merced	Atwater	9/16/05
WN	Cx quinquefasciatus	9/13/05	ORCO0003	2645	Orange	Garden Grove	9/20/05
WN	Cx quinquefasciatus	9/13/05	ORCO0005	2649	Orange	Huntington Beach	9/20/05

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WN	Cx quinquefasciatus	9/13/05	ORCO0014	2653	Orange	Yorba Linda	9/20/05
WN	Cx quinquefasciatus	9/13/05	ORCO0052	2656	Orange	Anaheim	9/20/05
WN	Cx tarsalis	9/9/05	SBCO0033	371	Santa Barbara	101 Freeway	9/20/05
WN	Cx tarsalis	9/9/05	SBCO0055	377	Santa Barbara	Santa Barbara	9/20/05
WN	Cx erythrothorax	9/9/05	SBCO0055	379	Santa Barbara	Santa Barbara	9/20/05
WN	Cx stigmatosoma	9/20/05	SLOCO030	405	San Luis Obispo	Paso Robles	9/22/05
WN	Cx pipiens	9/8/05	TRLK0540	832	Stanislaus	Keyes	9/15/05
WN	Cx pipiens	9/8/05	TRLK0524	835	Stanislaus	Keyes	9/15/05
WN	Cx pipiens	9/8/05	TRLK0524	842	Stanislaus	Keyes	9/15/05
WN	Cx pipiens	9/8/05	TRLK0437	847	Stanislaus	Patterson	9/15/05
WN	Cx pipiens	9/8/05	TRLK0521	850	Stanislaus	Turlock	9/15/05
WN	Cx pipiens	9/8/05	TRLK0521	851	Stanislaus	Turlock	9/15/05
WN	Cx pipiens	9/8/05	TRLK0540	858	Stanislaus	Keyes	9/15/05
WN	Cx pipiens	9/12/05	TRLK9743	864	Stanislaus	Crows Landing	9/15/05
WN	Cx pipiens	9/12/05	TRLK0306	890	Stanislaus	Grayson	9/15/05
WN	Cx tarsalis	9/12/05	TRLK0309	896	Stanislaus	Grayson	9/15/05
WN	Cx pipiens	9/12/05	TRLK0437	917	Stanislaus	Patterson	9/15/05
WN	Cx pipiens	9/12/05	TRLK0437	918	Stanislaus	Patterson	9/15/05
WN	Cx pipiens	9/12/05	TRLK0437	919	Stanislaus	Patterson	9/15/05
WN	Cx pipiens	9/13/05	TRLK0526	933	Stanislaus	Denair	9/16/05
WN	Cx pipiens	9/13/05	TRLK0530	948	Stanislaus	Turlock	9/16/05
WN	Cx pipiens	9/13/05	TRLK0530	949	Stanislaus	Turlock	9/16/05
WN	Cx pipiens	9/13/05	TRLK0530	951	Stanislaus	Turlock	9/16/05
WN	Cx pipiens	9/13/05	TRLK0526	955	Stanislaus	Denair	9/16/05
WN	Cx pipiens	9/13/05	TRLK0526	956	Stanislaus	Denair	9/16/05
WN	Cx pipiens	9/15/05	TRLK0530	959	Stanislaus	Turlock	9/22/05
WN	Cx pipiens	9/15/05	TRLK0530	964	Stanislaus	Turlock	9/22/05
WN	Cx pipiens	9/15/05	TRLK0421	965	Stanislaus	Hughson	9/22/05
WN	Cx pipiens	9/20/05	TRLK0545	973	Stanislaus	Patterson	9/22/05
WN	Cx pipiens	9/20/05	TRLK0526	983	Stanislaus	Denair	9/22/05
WEE	Cx tarsalis	9/7/05	COAV0027	2409	Riverside	North Shore	9/21/05
WEE	Cx tarsalis	9/13/05	KERN0008	450	Kern	Bakersfield	9/21/05
WEE	Cx tarsalis	9/13/05	KERN0013	452	Kern	Bakersfield	9/21/05

* Bold indicates RAMP tested.

Chicken Seroconversions Reported by DHS:

	Virus	Site Number	County	State	Nearest City	Location	Date Seroconverted	Band #1	Band #2	Band #3	Band #4	Band #5	Band #6	Band #7
****	WNV	CNSL5004	Fresno	CA	Caruthers	S. Turner	8/23/05	0019						
****	WNV	CNSL5001	Fresno	CA	Friant	Fish Hatchery	8/22/05	3	7					
****	WNV	COAV5003	Imperial	CA	Westmoreland	Westmoreland	8/15/05	0750	752	782	783			
****	WNV	SGVA0007	Los Angeles	CA	Claremont	Bernard Bio Station	8/30/05	6640	6642	6649				
****	WNV	MERC0005	Merced	CA	Los Banos	E.G. Crema	8/23/05	4750						
	WNV	RIVR0006	Riverside	CA	Blythe	4th Avenue	9/15/05	5263						
	WNV	NWST9401	Riverside	CA	Corona	Corona Airport	9/13/05	1036	1039	1040				
	WNV	COAV0204	Riverside	CA	Indio	York	9/12/05	0775	776					

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	WNV	NWST6666	Riverside	CA	Lake Elsinore	Lake Elsinore	9/13/05	1053	1056	1057	1058					
	WNV	RIVR0016	Riverside	CA	Lake Matthews	17221 Owl Tree St	9/14/05	5235								
	WNV	COAV0200	Riverside	CA	Mecca	Mecca	9/12/05	8934								
	WNV	COAV0122	Riverside	CA	Mecca	Gordon	9/12/05	8575	8935	8937	8938	8940	8976			
	WNV	RIVR0008	Riverside	CA	Murrieta	Auld Rd	9/14/05	0961	966	969						
	WNV	COAV0208	Riverside	CA	Palm Springs	Sewer Treatment Plant - Mesquite	9/12/05	0726	727	762	8978					
	WNV	NWST0004	Riverside	CA	Rubidoux	Rancho Jurupa	9/13/05	1059	1061	1062						
	WNV	RIVR0001	Riverside	CA	San Jacinto	Country Lakes Mobile Home Park	9/14/05	5273	5275	5277						
	WNV	WVAL0001	San Bernardino	CA	Chino	Kimball	9/12/05	1103	5702							
	WNV	SANB0003	San Bernardino	CA	Colton	Agua Mansa Flood Control	9/13/05	5021								
	WNV	WVAL0004	San Bernardino	CA	Ontario	4th street	9/12/05	5712								
	WNV	SANB0006	San Bernardino	CA	Yucaipa	Yucaipa Regional Park	9/12/05	5050								
****	WNV	SLOC0030	San Luis Obispo	CA	Paso Robles	Pat Butler School	8/24/05	0249								
						Burney Basin MAD										
****	WNV	BURN0001	Shasta	CA	Burney	Burney Basin MAD	8/26/05	2051	2060							
****	WNV	SHAS9701	Shasta	CA	Cottonwood	Gover	8/24/05	0377								
****	WNV	TRLK9703	Stanislaus	CA	Crows Landing	Vitoria's Dairy	8/8/05	0601								
****	WNV	TRLK0402	Stanislaus	CA	Denair	Bettencourt/Mendes	8/22/05	0635								
****	WNV	TRLK9701	Stanislaus	CA	Grayson	Dykzeul Dairy	8/22/05	0572								
****	WNV	TRLK0401	Stanislaus	CA	Hickman	Redding	8/22/05	0643								
****	WNV	TRLK0403	Stanislaus	CA	Newman/Hillsferry	Thomas	7/25/05	0615								
****	WNV	TRLK0001	Stanislaus	CA	Vernalis	Dunne	8/22/05	0558								
****	WNV	TEHA0002	Tehama	CA	Corning	Woodson Bridge	8/24/05	0530								
****	WNV	DLTA1002	Tulare	CA	Reedley	Brant, J	8/30/05	4962								
	WEE	SANB0001	San Bernardino	CA	Needles	Treatment Plant	9/12/05	5007								
	Flav +	IMPR0013	Imperial	CA	Brawley	Brawley	9/14/05	5848	5849	5854	5855					
	Flav +	IMPR0003	Imperial	CA	El Centro	Nichol's Flock	9/14/05	5826	5827	5832	5833	5868	5869	5870		
	Flav +	IMPR0016	Imperial	CA	Holtville	Zenos's Site	9/14/05	5860								
	Flav +	COAV5002	Imperial	CA	Niland	Bono Wild Life Reserve	9/12/05	0737	740	741	744					
****	Flav +	LONG0002	Los Angeles	CA	Long Beach	LB Harbor Terminal	9/12/05	6767	6769	6770						
****	Flav +	SGVA0002	Los Angeles	CA	Monterey Park	Monterey Park City Yard	9/12/05	2523								
	Flav +	GRLA2222	Los Angeles	CA	Rowland Heights	Rowland Heights	9/12/05	7257								
	Flav +	GRLA1004	Los Angeles	CA	Valencia	Vista Valencia	9/13/05	7236								
	Flav +	MOAB0003	Moab	UT	Moab	Sloughs	9/14/05	0943								
	Flav +	COAV0035	Riverside	CA	Mecca	Adohr	9/12/05	8868								
	Flav +	COAV0114	Riverside	CA	North Shore	Desert	9/12/05	8941								
	Flav +	COAV0203	Riverside	CA	Palm Desert	Cook	9/12/05	0765	772							
	Flav +	SAYO7001	Sacramento	CA	Galt	Galt	9/21/05	6043								
	Flav +	SANB0001	San Bernardino	CA	Needles	Treatment Plant	9/12/05	5002	5003	5005	5006					
	Flav +	SANB0004	San Bernardino	CA	San Bernardino	Wildwood Park Flood Basin	9/12/05	5033								
	Flav +	SANB0009	San Bernardino	CA	Victorville	Mojave Narrows Regional Park	9/15/05	5071	5072	5073	5077					
	Flav +	SJCM9902	San Joaquin	CA	Clements	Clements	9/19/05	188	190							
	Flav +	SJCM9901	San Joaquin	CA	Lodi	Lodi	9/19/05	206	207	209						
	Flav +	SJCM9908	San Joaquin	CA	Manteca	Manteca	9/19/05	164	165	166	167					
****	Flav +	VENT0700	Ventura	CA	Simi Valley	Simi Valley W.T.P.	9/13/05	5740	5742	5743						
	Flav +	SAYO6003	Yolo	CA	Winters	Winters	9/21/05	6071	6079							

WNV Positive Dead Birds Reported (September 19- September 23)

Species	County	City	ZIP	Date Collected	Date Tested	Tested By
American Crow	Alameda	Pleasanton	94566	09/12/05	09/12/05	RAMP
American Crow	Alameda	Pleasanton	94566	09/12/05	09/12/05	RAMP
American Crow	Contra Costa	Walnut Creek	94598	09/13/05	09/13/05	RAMP
American Crow	El Dorado	El Dorado Hills	95762	09/07/05	09/19/05	RT-PCR
American Crow	Inyo	Bishop	93514	09/12/05	09/19/05	RT-PCR

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American Crow	Kings	Hanford	93230	09/13/05	09/19/05	RT-PCR
American Crow	Lake	Lakeport	95453	09/13/05	09/19/05	RT-PCR
American Crow	Los Angeles	Hidden Hills	91302	09/15/05	09/15/05	VecTest
American Crow	Los Angeles	Long beach	90815	09/15/05	09/15/05	VecTest
American Crow	Los Angeles	North Hollywood	91602	09/14/05	09/14/05	VecTest
American Crow	Los Angeles	Santa Clarita	91351	09/12/05	09/12/05	VecTest
American Crow	Los Angeles	Santa Clarita	91351	09/12/05	09/12/05	VecTest
American Crow	Los Angeles	Santa Clarita	91321	09/12/05	09/12/05	VecTest
American Crow	Los Angeles	Santa Clarita	91350	09/12/05	09/12/05	VecTest
American Crow	Los Angeles	Santa Clarita	91351	09/12/05	09/12/05	VecTest
American Crow	Los Angeles	Santa Clarita	91321	09/14/05	09/14/05	VecTest
American Crow	Los Angeles	Santa Clarita	91321	09/14/05	09/14/05	VecTest
American Crow	Los Angeles	Santa Clarita	91387	09/14/05	09/14/05	VecTest
American Crow	Los Angeles	Santa Clarita	91351	09/14/05	09/14/05	VecTest
American Crow	Mendocino	Covelo	95428	09/07/05	09/19/05	RT-PCR
American Crow	Mendocino	Covelo	95428	09/07/05	09/19/05	RT-PCR
American Crow	Mendocino	Potter Valley	95469	09/14/05	09/19/05	RT-PCR
American Crow	Nevada	Grass Valley	95949	09/13/05	09/19/05	RT-PCR
American Crow	Riverside	Lake Elsinore	92530	08/31/05	09/19/05	RT-PCR
American Crow	Sacramento	Elk Grove	95758	09/12/05	09/19/05	RT-PCR
American Crow	San Diego	Oceanside	92057	09/10/05	09/10/05	VecTest
American Crow	San Diego	Oceanside	92054	09/14/05	09/14/05	VecTest
American Crow	San Diego	Oceanside	92057	09/14/05	09/14/05	VecTest
American Crow	San Diego	Pala	92059	09/14/05	09/14/05	VecTest
American Crow	San Diego	Pala	92059	09/14/05	09/14/05	VecTest
American Crow	San Diego	Ramona	92065	09/14/05	09/14/05	VecTest
American Crow	San Diego	San Diego	92131	09/12/05	09/12/05	VecTest
American Crow	San Diego	Valley Center	92082	09/10/05	09/10/05	VecTest
American Crow	San Diego	Valley Center	92082	09/10/05	09/10/05	VecTest
American Crow	San Luis Obispo	Atascadero	93422	08/30/05	09/19/05	RT-PCR
American Crow	San Luis Obispo	Templeton	93465	09/01/05	09/19/05	RT-PCR
American Crow	Santa Barbara	Santa Barbara	93111	09/06/05	09/19/05	RT-PCR
American Crow	Santa Barbara	Santa Barbara	93111	09/07/05	09/19/05	RT-PCR
American Crow	Santa Barbara	Santa Barbara	93105	09/12/05	09/19/05	RT-PCR
American Crow	Santa Barbara	Santa Barbara	93101	09/12/05	09/19/05	RT-PCR
American Crow	Santa Clara	San Jose	95123	08/17/05	08/25/05	RT-PCR
American Crow	Santa Clara	San Jose	95119	08/23/05	08/25/05	RT-PCR
American Crow	Santa Clara	Santa Clara	95123	08/01/05	08/25/05	RT-PCR
American Crow	Santa Clara	Palo Alto	94303	09/12/05	09/12/05	VecTest
American Crow	Santa Clara	San Jose	95118	08/19/05	08/19/05	VecTest
American Crow	Santa Clara	San Jose	95119	08/24/05	08/24/05	VecTest
American Crow	Santa Clara	San Jose	95111	08/25/05	08/25/05	VecTest
American Crow	Santa Clara	San Jose	95136	08/25/05	08/25/05	VecTest
American Crow	Santa Clara	San Jose	95123	08/25/05	08/25/05	VecTest
American Crow	Santa Clara	San Jose	95123	08/25/05	08/25/05	VecTest
American Crow	Santa Clara	San Jose	95139	08/29/05	08/29/05	VecTest
American Crow	Santa Clara	San Jose	95123	08/29/05	08/29/05	VecTest
American Crow	Santa Clara	San Jose	95129	09/07/05	09/07/05	VecTest
American Crow	Santa Clara	San Jose	95120	09/08/05	09/08/05	VecTest

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American Crow	Santa Clara	San Jose	95120	09/08/05	09/08/05	VecTest
American Crow	Santa Clara	San Jose	95123	09/08/05	09/08/05	VecTest
American Crow	Santa Clara	San Jose	95123	09/08/05	09/08/05	VecTest
American Crow	Santa Clara	Santa Clara	95050	08/24/05	08/24/05	VecTest
American Crow	Santa Clara	Saratoga	95070	09/09/05	09/09/05	VecTest
American Crow	Shasta	Palo Cedro	96073	09/13/05	09/13/05	VecTest
American Crow	Sonoma	Santa Rosa	95404	08/29/05	08/29/05	RAMP
American Crow	Sonoma	Santa Rosa	95403	09/13/05	09/13/05	RAMP
American Crow	Sonoma	Sebastopol	95472	09/12/05	09/12/05	RAMP
American Crow	Stanislaus	Campbell	95008	08/29/05	08/29/05	VecTest
American Crow	Ventura	Ventura	93001	09/09/05	09/19/05	RT-PCR
American Crow	Ventura	Ventura	93003	09/14/05	09/19/05	RT-PCR
American Goldfinch	Alameda	Fremont	94538	09/07/05	09/19/05	RT-PCR
American Robin	Modoc	Adin	96006	09/06/05	09/19/05	RT-PCR
Brewer's Blackbird	Amador	Jackson	95642	09/08/05	09/19/05	RT-PCR
California Towhee	Tuolumne	Sonora	95370	09/12/05	09/19/05	RT-PCR
Common Raven	Los Angeles	Castaic	91384	09/12/05	09/12/05	VecTest
Golden Eagle	Siskiyou	Greenview	96037	09/12/05	09/19/05	RT-PCR
Great-Horned Owl	Los Angeles	Santa Clarita	91350	09/14/05	09/19/05	RT-PCR
House Finch	Calaveras	Copperopolis	95228	09/14/05	09/19/05	RT-PCR
House Finch	Contra Costa	Walnut Creek	94598	09/13/05	09/19/05	RT-PCR
House Finch	Contra Costa	Walnut Creek	94597	09/13/05	09/19/05	RT-PCR
House Finch	Merced	Merced	95348	09/12/05	09/19/05	RT-PCR
House Finch	Tuolumne	Jamestown	95327	09/08/05	09/19/05	RT-PCR
House Sparrow	Riverside	Riverside	92508	09/07/05	09/19/05	RT-PCR
Red-Tailed Hawk	Los Angeles	West Hills	91307	09/13/05	09/19/05	RT-PCR
Steller's Jay	El Dorado	Camino	95709	08/24/05	08/25/05	RT-PCR
Steller's Jay	Tuolumne	Twain Harte	95383	09/12/05	09/19/05	RT-PCR
Western Bluebird	Nevada	Grass Valley	95949	09/14/05	09/19/05	RT-PCR
Western Scrub-Jay	Alameda	Livermore	94551	09/01/05	09/19/05	RT-PCR
Western Scrub-Jay	Alameda	Pleasanton	94566	09/08/05	09/19/05	RT-PCR
Western Scrub-Jay	Alameda	Pleasanton	94588	09/12/05	09/19/05	RT-PCR
Western Scrub-Jay	Alameda	Dublin	94568	09/13/05	09/13/05	RAMP
Western Scrub-Jay	Amador	Jackson	95642	09/07/05	09/19/05	RT-PCR
Western Scrub-Jay	Amador	Sutter Creek	95685	09/12/05	09/19/05	RT-PCR
Western Scrub-Jay	Contra Costa	Concord	94521	09/07/05	09/19/05	RT-PCR
Western Scrub-Jay	Contra Costa	Concord	94521	09/13/05	09/19/05	RT-PCR
Western Scrub-Jay	Contra Costa	Antioch	94509	09/15/05	09/15/05	VecTest
Western Scrub-Jay	Contra Costa	Antioch	94509	09/16/05	09/16/05	VecTest
Western Scrub-Jay	Contra Costa	Knightsen	94548	09/14/05	09/14/05	VecTest
Western Scrub-Jay	Contra Costa	Walnut Creek	94598	09/12/05	09/12/05	RAMP
Western Scrub-Jay	Contra Costa	Walnut Creek	94598	09/13/05	09/13/05	RAMP
Western Scrub-Jay	El Dorado	El Dorado Hills	95762	09/07/05	09/19/05	RT-PCR
Western Scrub-Jay	El Dorado	El Dorado Hills	95762	09/08/05	09/19/05	RT-PCR
Western Scrub-Jay	El Dorado	Placerville	95667	09/08/05	09/19/05	RT-PCR
Western Scrub-Jay	El Dorado	Placerville	95667	09/13/05	09/19/05	RT-PCR
Western Scrub-Jay	El Dorado	Shingle Springs	95682	09/06/05	09/19/05	RT-PCR
Western Scrub-Jay	El Dorado	Shingle Springs	95682	09/08/05	09/19/05	RT-PCR
Western Scrub-Jay	Los Angeles	Castaic	91384	09/09/05	09/19/05	RT-PCR

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Western Scrub-Jay	Los Angeles	Santa Clarita	91355	09/12/05	09/12/05	VecTest
Western Scrub-Jay	Los Angeles	Sylmar	91342	09/12/05	09/12/05	VecTest
Western Scrub-Jay	Mariposa	Mariposa	95338	09/14/05	09/19/05	RT-PCR
Western Scrub-Jay	Merced	Atwater	95301	09/07/05	09/19/05	RT-PCR
Western Scrub-Jay	Nevada	Grass Valley	95949	09/13/05	09/19/05	RT-PCR
Western Scrub-Jay	Nevada	Penn Valley	95946	09/13/05	09/19/05	RT-PCR
Western Scrub-Jay	Placer	Auburn	95603	08/30/05	09/19/05	RT-PCR
Western Scrub-Jay	Placer	Auburn	95602	08/26/05	08/26/05	VecTest
Western Scrub-Jay	Placer	Auburn	95603	08/31/05	08/31/05	VecTest
Western Scrub-Jay	Placer	Auburn	95602	09/01/05	09/01/05	VecTest
Western Scrub-Jay	Placer	Auburn	95602	09/02/05	09/02/05	VecTest
Western Scrub-Jay	San Diego	Poway	92064	09/12/05	09/12/05	VecTest
Western Scrub-Jay	San Diego	Ramoa	92065	09/14/05	09/14/05	VecTest
Western Scrub-Jay	San Diego	Valley Center	92082	09/11/05	09/11/05	VecTest
Western Scrub-Jay	San Luis Obispo	Atascadero	93422	08/30/05	09/19/05	RT-PCR
Western Scrub-Jay	San Luis Obispo	Atascadero	93422	08/30/05	09/19/05	RT-PCR
Western Scrub-Jay	San Luis Obispo	Atascadero	93422	08/30/05	09/19/05	RT-PCR
Western Scrub-Jay	San Luis Obispo	Atascadero	93422	08/31/05	09/19/05	RT-PCR
Western Scrub-Jay	San Luis Obispo	Nipomo	93444	09/07/05	09/19/05	RT-PCR
Western Scrub-Jay	Santa Barbara	Santa Ynez	93460	09/06/05	09/19/05	RT-PCR
Western Scrub-Jay	Sonoma	Santa Rosa	95401	09/13/05	09/19/05	RT-PCR
Western Scrub-Jay	Stanislaus	Turlock	95380	09/15/05	09/15/05	VecTest
Western Scrub-Jay	Tulare	Columbia	95310	09/12/05	09/19/05	RT-PCR
Western Scrub-Jay	Tuolumne	Jamestown	95327	09/08/05	09/19/05	RT-PCR
Western Scrub-Jay	Tuolumne	Jamestown	95327	09/12/05	09/19/05	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	95370	09/08/05	09/19/05	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	95370	09/08/05	09/19/05	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	95370	09/08/05	09/19/05	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	95370	09/08/05	09/19/05	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	95370	09/08/05	09/19/05	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	95370	09/08/05	09/19/05	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	95370	09/12/05	09/19/05	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	95370	09/12/05	09/19/05	RT-PCR
Western Scrub-Jay	Tuolumne	Tuolumne	95379	09/12/05	09/19/05	RT-PCR
Western Scrub-Jay	Ventura	Ojai	93023	09/08/05	09/19/05	RT-PCR
White-Breasted Nuthatch	Siskiyou	Yreka	96097	09/13/05	09/19/05	RT-PCR
Yellow-billed Magpie	Alameda	Livermore	94550	09/08/05	09/19/05	RT-PCR
Yellow-billed Magpie	Merced	Gustine	95322	09/13/05	09/19/05	RT-PCR
Yellow-billed Magpie	Merced	Los Banos	93635	09/12/05	09/19/05	RT-PCR
Yellow-billed Magpie	Merced	Planada	95365	09/12/05	09/19/05	RT-PCR
Yellow-billed Magpie	Monterey	San Miguel	93451	07/13/05	09/19/05	RT-PCR
Yellow-billed Magpie	Shasta	Anderson	96007	09/13/05	09/13/05	VecTest
Yellow-billed Magpie	Stanislaus	Hughson	95326	09/07/05	09/19/05	RT-PCR
Yellow-billed Magpie	Stanislaus	Modesto	95358	09/11/05	09/19/05	RT-PCR
Yellow-billed Magpie	Stanislaus	Modesto	95351	09/13/05	09/19/05	RT-PCR
Yellow-billed Magpie	Stanislaus	Modesto	95358	09/13/05	09/19/05	RT-PCR
Yellow-billed Magpie	Stanislaus	Patterson	95363	09/07/05	09/19/05	RT-PCR
Yellow-billed Magpie	Stanislaus	Patterson	95363	09/13/05	09/13/05	VecTest
Yellow-billed Magpie	Stanislaus	Patterson	95363	09/15/05	09/15/05	VecTest
Yellow-billed Magpie	Stanislaus	Turlock	95382	09/12/05	09/12/05	VecTest

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Yellow-billed Magpie	Stanislaus	Turlock	95382	09/12/05	09/12/05	VecTest
Yellow-billed Magpie	Stanislaus	Turlock	95380	08/23/05	08/23/05	VecTest
Yellow-billed Magpie	Stanislaus	Turlock	95382	09/14/05	09/14/05	VecTest
Yellow-billed Magpie	Stanislaus	Turlock	95382	09/15/05	09/15/05	VecTest
Yellow-billed Magpie	Stanislaus	Turlock	95382	09/16/05	09/16/05	VecTest
Yellow-billed Magpie	Tehama	Red Bluff	96080	09/09/05	09/19/05	RT-PCR
Yellow-billed Magpie	Tehama	Red Bluff	96080	09/12/05	09/19/05	RT-PCR

National Comments:

As of September 20, 2005, West Nile virus (WNV) activity has been detected in 45 states, New York City (NYC), and the District of Columbia (DC). At this time in 2004, a total of 47 states, Puerto Rico, and NYC had published WNV activity. A total of 1,512 human WNV cases have been reported in 2005 from 38 states. At this time in 2004, 1,604 cases had been reported from 39 states and NYC. In 2005, of the 1,396 cases with available data, the median age is 50 years (range: 3 months-92 years) and 780 (56%) of the cases are male. Five hundred forty-nine (39%) of the cases are neuroinvasive. There have been 41 reported WNV-related fatalities. The median age of the 39 decedents where data is available was 80 years (range: 54-92 years).

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TEST PROTOCOLS

Dead Birds:

All bird species, except chickens, doves, and pigeons, from all zip codes are currently being accepted for testing unless otherwise requested by a local agency. Positive RAMP and Vec-Tests from oral swabs from corvids are no longer confirmed. Other bird species are tested by singleplex RT-PCR and confirmed with a second primer set.

Dead birds are necropsied at the California Animal Health and Food Safety (CAHFS) Laboratories and kidney tissue from the dead birds are forward to the UC Davis Center for Vectorborne Diseases (CVEC) for WNV using the PCR Taqman assay. Organ pools from PCR positive carcasses are tested using cell culture for virus isolation. 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. The VRDL also forwards selected serum to CVEC for additional testing for WNV, WEE, and SLE antibodies as needed.

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 Al Hom by phone (510) 412-6252, FAX (510) 412-6263, or email [ahom@dhs.ca.gov].