

California Arbovirus Surveillance Bulletin # 33

Week 39 Friday, September 30, 2005

Weekly Summary

Comments:

Humans:

As of September 30, 2005, 801 human West Nile virus (WNV) infections have been identified from the following local health jurisdictions: Alameda (1), Amador (4), Butte (19), Calaveras (1), Colusa (2), Contra Costa (10), El Dorado (1), Fresno (58), Glenn (12), Humboldt (1), Imperial (1), Kern (54), Kings (32), Los Angeles (35), Madera (12), Merced (15), Nevada (4), Orange (14), Placer (35), Plumas (1), Riverside (82), Sacramento (170), San Bernardino (31), San Diego (1), San Francisco (2), San Joaquin (34), Santa Barbara (1), Santa Clara (5), Solano (4), Sonoma (1), Stanislaus (77), Sutter (9), Tehama (3), Tulare (52), Tuolumne (1), Ventura (1), Yolo (12), and Yuba (3). Ninety-three of the 801 infections were initially detected in asymptomatic individuals through screening done at blood banks - thirty-eight 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 742 WNV cases with symptoms, 245 are classified as West Nile neuroinvasive disease cases, 427 are classified as West Nile fever, and 70 are of unknown clinical presentation. The median age for all symptomatic cases where data is available is 50 years (range: 2-93 years). 414 (56%) of the cases are male. There have been 16 WNV-related fatalities to date in California this year, from Amador (1), Butte (1), Fresno (2), Kings (3), Riverside (5), Sacramento (1), San Bernardino (1), San Joaquin (1), and Tulare (1) counties. The median age of the 16 fatalities was 80.5 years.

Horses:

The California Department of Food & Agriculture reported 26 new confirmed cases of equine WNV in Butte (1), Calaveras (1), Kern (2), Los Angeles (4), Madera (1), Merced (2), Placer (3), Riverside (4), San Benito (2), San Joaquin (2), San Luis Obispo (1), Stanislaus (1), Tulare (1) and Ventura (1) counties. This was the first WNV positive horse in San Benito County. The YTD total for the State is 431.

Dead Birds:

This week the hotline received 1,880 dead bird reports, for a YTD total of 99,461 reports. 110 out of 199 (55.3%) dead birds collected from 32 counties tested positive for WNV this week.

- 60 out of 147 (40.8%) dead birds tested positive via RT-PCR.
- 44 out of 46 (95.7%) corvids tested positive via VecTest.
- 6 out of 6 (100%) corvids tested positive via RAMP.

The WNV positive dead birds were collected from the following counties: Alameda (3); Amador (1); Calaveras (1); El Dorado (4); Kern (2); Lake (3); Los Angeles (4); Marin (1); Mendocino (2); Napa (4); Nevada (2); Placer (3); Riverside (1); San Bernardino (4); San Diego (33); San Luis Obispo (3); Santa Barbara (4); Santa Clara (9); Shasta (2); Sonoma (4); Stanislaus (5); Tuolumne (12); and Ventura (3).

The following bird species tested positive for WNV: American crow (57); American kestrel (1); barn owl (1); cockatiel (1); common raven (1); Cooper's hawk (2); great egret (1); great-horned owl (1); house finch (3); house sparrow (1); oak titmouse (1); nuthatch (1); red-tailed hawk (1); rock dove (1); Steller's jay (1); western scrub-jay (29); yellow warbler (1); and yellow-billed magpie (6). See "WNV Positive Dead Birds" table for details.

Since January 1, 2005, 2,643 of 7,750 (34.1%) dead birds have tested positive for WNV.

Mosquito Pools:

WNV: CVEC reported 20 WNV positive mosquito pools from the following counties: Kern (1), Los Angeles (6), Merced (1), Riverside (8), Sacramento (2), and Yolo (2). The YTD total for the State is 1194.

WEE: CVEC also reported four positive WEE pools from Kern County. The YTD for the State is 47.

Sentinel Chickens: WNV: VRDL reported 49 seroconversions among 26 flocks from Contra Costa (3), Fresno (6), Kern (8), Los Angeles (5), San Bernardino (5), San Joaquin (8), Solano (1), and Stanislaus (13) counties. The current YTD total stands at 546 seroconversions. Additionally, there are 17 flavivirus positive seroconversions.

WEE: VRDL reported nine WEE seroconversions in four flocks from Kern (7) and Los Angeles (2) counties. This is the first WEE reporting for Los Angeles County. The current YTD total stands at 98 seroconversions.

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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	98	0	66	0	0	0	0	0	0
	YTD	1772	0	801	0	0	0	0	0	0
Horses Tested	Week	26	0	26	0	0	0	0	0	0
	YTD	900	0	431	0	0	0	0	0	0

Dead Birds

	Number Tested	WNV Positive
Week	199	110
YTD	7,750	2,463

Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Other Positive
	YTD	27387	546	98	0	0
Mosquito pools	Week	597	20	4	0	0
	YTD	17230	1194	47	0	0

*Total has been adjusted to include local agency submission

Human Positives Reported (September 26 – September 30):

Virus	Onset Date	Status	Diagnosis	County ¹	Age
WNV	n/a	Probable	Unk	Yuba	n/a
WNV	8/29/2005	Probable	WNND	Los Angeles	44
WNV	9/5/2005	Probable	WNND	Riverside	45
WNV	8/28/2005	Probable	WNND	Riverside	43
WNV	8/19/2005	Probable	WNND	Riverside	58
WNV	Unk	Probable	WNND	Riverside	50
WNV	9/2/2005	Probable	WNF	Riverside	26
WNV	8/13/2005	Probable	WNND	Riverside	68
WNV	8/10/2005	Probable	WNF	Sacramento	43
WNV	8/20/2005	Probable	WNF	Sacramento	71
WNV	8/24/2005	Probable	WNF	Sacramento	58
WNV	n/a	Probable	Unk	Tuolumne	>18
WNV	8/1/2005	Probable	WNND	Riverside	72
WNV	8/31/2005	Probable	WNF	Stanislaus	55
WNV	8/30/2005	Probable	WNF	Stanislaus	65
WNV	Unk	Probable	WNND	Kings	>65
WNV	9/13/2005	Probable	WNF	Kings	>18

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WNV	Unk	Probable	Unk	Madera	>18
WNV	9/20/2005	Probable	Unk	Madera	>18
WNV	Unk	Probable	Unk	Madera	>18
WNV	Unk	Probable	Unk	Madera	>18
WNV	9/9/2005	Probable	WNF	San Joaquin	33
WNV	8/31/2005	Probable	WNF	San Joaquin	<18
WNV	n/a	Probable	WNF	Amador	>18
WNV	n/a	Probable	WNF	Amador	>18
WNV	9/11/2005	Probable	WNND	Contra Costa	40
WNV	9/7/2005	Probable	WNND	Fresno	84
WNV	Unk	Probable	Unk	Fresno	56
WNV	9/16/2005	Probable	Unk	Fresno	<18
WNV	8/19/2005	Probable	Unk	Fresno	<18
WNV	8/27/2005	Probable	WNND	Fresno	70
WNV	8/29/2005	Probable	WNF	Kern	29
WNV	8/29/2005	Probable	WNF	Kern	49
WNV	Unk	Probable	Unk	Kern	35
WNV	Unk	Probable	Unk	Kern	53
WNV	9/4/2005	Probable	WNF	Kern	66
WNV	9/9/2005	Probable	WNF	Kings	>65
WNV	9/11/2005	Probable	WNF	Los Angeles	33
WNV	9/12/2005	Probable	WNND	Los Angeles	49
WNV	9/11/2005	Probable	WNF	Orange	61
WNV	9/1/2005	Probable	WNF	Placer	>18
WNV	9/19/2005	Probable	WNF*	Placer	>18
WNV	Unk	Probable	Unk	Placer	>18
WNV	9/9/2005	Probable	WNND	Riverside	52
WNV	8/20/2005	Probable	WNF	Riverside	53
WNV	8/13/2005	Probable	WNF	San Bernardino	54
WNV	8/2/2005	Probable	WNND	San Bernardino	54
WNV	9/2/2005	Probable	WNND	San Bernardino	53
WNV	9/7/2005	Probable	WNF	Santa Clara	63
WNV	9/17/2005	Probable	WNND	Stanislaus	63
WNV	9/14/2005	Probable	WNF	Stanislaus	50
WNV	Unk	Probable	WNF	Stanislaus	62
WNV	8/28/2005	Probable	WNF	Tulare	43
WNV	8/28/2005	Probable	WNND	Tulare	21
WNV	8/22/2005	Probable	WNF	Stanislaus	45
WNV	8/1/2005	Probable	WNF	Sacramento	71
WNV	7/18/2005	Probable	WNND	Sacramento	45

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WNV	8/12/2005	Probable	WNF	Sacramento	75
WNV	9/18/2005	Probable	WNF	Sacramento	55
WNV	9/8/2005	Probable	WNND	Sacramento	29
WNV	n/a	Probable	WNND	San Francisco	>18
WNV	n/a	Probable	Asympt- Blood Donor	Sacramento	48
WNV	n/a	Probable	Asympt- Blood Donor	Madera	Unk
WNV	n/a	Probable	Asympt- Blood Donor	Los Angeles	Unk
WNV	n/a	Probable	Asympt- Blood Donor	San Bernardino	53
WNV	n/a	Probable	Asympt- Blood Donor	Los Angeles	33

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 tarsalis	9/19/05	COAV0017	2557	Riverside	Mecca	9/28/05
WN	Cx tarsalis	9/21/05	COAV0121	2573	Riverside	Mecca	9/28/05
WN	Cx tarsalis	9/21/05	COAV0035	2594	Riverside	Mecca	9/28/05
WN	Cx tarsalis	9/21/05	COAV0035	2596	Riverside	Mecca	9/28/05
WN	Cx tarsalis	9/21/05	COAV0045	2599	Riverside	Mecca	9/28/05
WN	Cx tarsalis	9/12/05	COAV0030	2606	Riverside	Mecca	9/28/05
WN	Cx tarsalis	9/19/05	COAV0035	2610	Riverside	Mecca	9/28/05
WN	Cx tarsalis	9/19/05	COAV0033	2621	Riverside	Mecca	9/28/05
WN	Cx quinquefasciatus	9/20/05	GRLA2427	6031	Los Angeles	Chatsworth	9/28/05
WN	Cx stigmatosoma	9/20/05	GRLA2472	6037	Los Angeles	Sunland	9/28/05
WN	Cx thriambus	9/20/05	GRLA2468	6040	Los Angeles	Sunland	9/28/05
WN	Cx quinquefasciatus	9/22/05	GRLA2651	6089	Los Angeles	Encino	9/28/05
WN	Cx quinquefasciatus	9/23/05	GRLA2548	6097	Los Angeles	Sylmar	9/28/05
WN	Cx quinquefasciatus	9/22/05	KERN1003	5859	Kern	Oildale	9/28/05
WN	Cx quinquefasciatus	9/27/05	LONG0203	390	Los Angeles	Long Beach	9/28/05
WN	Cx pipiens	9/19/05	MERC0514	417	Merced	Merced	9/28/05
WN	Cx pipiens	9/22/05	SAYO3233	1637	Yolo	Woodland	9/26/05
WN	Cx pipiens	9/22/05	SAYO4340	1669	Sacramento	Locke	9/26/05
WN	Cx pipiens	9/23/05	SAYO3234	1688	Yolo	Woodland	9/26/05
WN	Cx tarsalis	9/23/05	SAYO4250	1758	Sacramento	Sacramento	9/27/05
WEE	Cx tarsalis	9/20/05	KERN0035	5829	Kern	Bakersfield	9/28/05
WEE	Cx tarsalis	9/20/05	KERN0050	5836	Kern	Bakersfield	9/28/05
WEE	Cx tarsalis	9/20/05	KERN0055	5840	Kern	Bakersfield	9/28/05
WN	Cx tarsalis	9/20/05	KERN0055	5848	Kern	Bakersfield	9/28/05

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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	CNTR7402	Contra Costa	CA	Oakley	CA ISD	9/19/05	4490	4491	4494				
	WNV	CNSL5004	Fresno	CA	Caruthers	S. Turner	9/20/05	15	17	21	24	25		
	WNV	CNSL5008	Fresno	CA	Orange Cove	O. Mitchell	9/19/05	81						
	WNV	KERN0105	Kern	CA	Bakersfield	Wible/Houghton	9/19/05	4340						
	WNV	KERN0106	Kern	CA	Bakersfield	Oilale	9/19/05	4348						
	WNV	KERN0107	Kern	CA	Arvin	John Dale	9/19/05	4399						
	WNV	KERN0111	Kern	CA	Arvin	Blackburn residence	9/19/05	4372	4376					
	WNV	KERN0112	Kern	CA	Wasco	Wells residence	9/19/05	3715	4388	4393				
****	WNV	GRLA1004	Los Angeles	CA	Valencia	Vista Valencia	8/31/05	7233						
****	WNV	GRLA1010	Los Angeles	CA	Chatsworth	Chatsworth	8/30/05	9311						
****	WNV	GRLA2222	Los Angeles	CA	Rowland Heights	Rowland Heights	8/29/05	7251	7255					
	WNV	LACW1007	Los Angeles	CA	Baldwin Hills	Baldwin Hills	9/12/05	3841						
****	WNV	SANB0007	San Bernardino	CA	Fontana	Fontana Sr. Ctr.	8/1/05	5055	5058					
****	WNV	SANB0008	San Bernardino	CA	Upland	Upland Crosswalls	8/15/05	5065	6953					
****	WNV	SANB0009	San Bernardino	CA	Victorville	Mojave Narrows	8/16/05	5074						
****	WNV	SJCM9901	San Joaquin	CA	Lodi	White Slough	9/6/05	205	208	212				
****	WNV	SJCM9906	San Joaquin	CA	French Camp	Roberts Island	9/6/05	217	220					
****	WNV	SJCM9908	San Joaquin	CA	Manteca	Two Rivers	9/6/05	169	170					
****	WNV	SJCM9909	San Joaquin	CA	Linden	Linden	9/6/05	224						
****	WNV	SOLA0224	Solano	CA	Collinsville	Jean Anderson Ranch	8/30/05	440						
	WNV	TRLK0001	Stanislaus	CA	Vernalis	Dunne	9/19/05	560						
	WNV	TRLK0401	Stanislaus	CA	Hickman	Redding	9/19/05	617	1125					
	WNV	TRLK0402	Stanislaus	CA	Denair	Bettencourt/Mendes	9/19/05	630	1115					
	WNV	TRLK0403	Stanislaus	CA	Newman/Hillsferry	Thomas	9/19/05	605	607	610	611	613		
	WNV	TRLK9701	Stanislaus	CA	Grayson	Dykzeul Dairy	9/19/05	576						
	WNV	TRLK9703	Stanislaus	CA	Crows Landing	Vitoria's Dairy	9/19/05	600	650					
****	WEE	KERN0104	Kern	CA	Bakersfield	Old River	9/21/05	3705	3712					
****	WEE	KERN0113	Kern	CA	Bakersfield	Kern River	9/21/05	4365	4366	4369	4370	4398		
****	WEE	ANTV2878	Los Angeles	CA	Lancaster	Burton	9/14/05	8834						
****	WEE	ANTV5662	Los Angeles	CA	Lancaster	Lombardo	9/14/05	8837						
	Flav +	FRNO0002	Fresno	CA	Kerman	Kerman	9/19/05	7594	7596	7599				
	Flav +	FRNO0012	Fresno	CA	Fresno	Liddel's	9/20/05	7585						
	Flav +	FRWS0001	Fresno	CA	Mendota	Mendota Wildlife Refug	9/20/05	8759						
	Flav +	KERN0104	Kern	CA	Bakersfield	Old River	9/21/05	3711						
****	Flav +	SFMO1001	Kern	CA	Weldon	Haferfeld Ranch	9/1/05	3737						
	Flav +	ANTV2878	Los Angeles	CA	Lancaster	Burton	9/14/05	8834	8835					
	Flav +	ANTV5662	Los Angeles	CA	Lancaster	Lombardo	9/14/05	8840						
	Flav +	MERC0001	Merced	CA	Merced	Veldhuis Dairy	9/21/05	4726						
****	Flav +	MERC0003	Merced	CA	Gustine	Newman Gun Club	9/21/05	4738	4741					
****	Flav +	MERC0004	Merced	CA	Los Banos	Lucky Eleven	9/21/05	4747						
	Flav +	TRLK9702	Stanislaus	CA	Patterson	Modesto Sewer	9/19/05	590	591					
	Flav +	SUYA0030	Sutter	CA	Live Oak	Sheppard	9/22/05	449						

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WNV Positive Dead Birds Reported (September 26- September 30)

Species	County	City	ZIP	Date Collected	Date Tested	Tested By
American Crow	Alameda	Pleasanton	94566	09/23/05	09/23/05	RAMP
American Crow	El Dorado	Shingle Springs	95682	09/15/05	09/26/05	RT-PCR
American Crow	Kern	Bakersfield	93307	09/08/05	09/26/05	RT-PCR
American Crow	Lake	Clearlake Park	95424	09/19/05	09/26/05	RT-PCR
American Crow	Lake	Kelseyville	95451	09/23/05	09/23/05	VecTest
American Crow	Lake	Lucerne	95458	09/19/05	09/19/05	VecTest
American Crow	Los Angeles	Chatsworth	91311	09/14/05	09/26/05	RT-PCR
American Crow	Los Angeles	Redondo Beach	90278	09/22/05	09/22/05	VecTest
American Crow	Mendocino	Potter Valley	95469	09/15/05	09/26/05	RT-PCR
American Crow	Mendocino	Ukiah	95482	09/20/05	09/26/05	RT-PCR
American Crow	Napa	Angwin	94508	09/21/05	09/21/05	VecTest
American Crow	Napa	Napa	94558	09/14/05	09/14/05	VecTest
American Crow	Napa	Napa	94558	09/21/05	09/21/05	VecTest
American Crow	Riverside	Riverside	92503	09/19/05	09/26/05	RT-PCR
American Crow	San Bernardino	Redlands	92374	09/14/05	09/14/05	VecTest
American Crow	San Bernardino	Redlands	92374	09/15/05	09/15/05	VecTest
American Crow	San Bernardino	Yucaipa	92399	09/12/05	09/12/05	VecTest
American Crow	San Bernardino	Yucaipa	92399	09/13/05	09/13/05	VecTest
American Crow	San Diego	Ramona	92065	09/14/05	09/26/05	RT-PCR
American Crow	San Diego	San Marcos	92078	09/14/05	09/26/05	RT-PCR
American Crow	San Diego	San Marcos	92078	09/17/05	09/26/05	RT-PCR
American Crow	San Diego	Alpine	91901	09/18/05	09/18/05	VecTest
American Crow	San Diego	Alpine	91901	09/18/05	09/18/05	VecTest
American Crow	San Diego	Bonsall	92003	09/15/05	09/15/05	VecTest
American Crow	San Diego	Campo	91906	09/20/05	09/20/05	VecTest
American Crow	San Diego	El Cajon	92021	09/14/05	09/14/05	VecTest
American Crow	San Diego	El Cajon	92021	09/23/05	09/23/05	VecTest
American Crow	San Diego	Jamul	91935	09/22/05	09/22/05	VecTest
American Crow	San Diego	Lakeside	92040	09/20/05	09/20/05	VecTest
American Crow	San Diego	Lemon Grove	91945	09/21/05	09/21/05	VecTest
American Crow	San Diego	Oceanside	92057	09/15/05	09/15/05	VecTest
American Crow	San Diego	Oceanside	92057	09/22/05	09/22/05	VecTest
American Crow	San Diego	Poway	92064	09/20/05	09/20/05	VecTest
American Crow	San Diego	Poway	92064	09/23/05	09/23/05	VecTest
American Crow	San Diego	Ramona	92065	09/15/05	09/15/05	VecTest
American Crow	San Diego	Ramona	92065	09/19/05	09/19/05	VecTest
American Crow	San Diego	Ramona	92065	09/20/05	09/20/05	VecTest
American Crow	San Diego	Ramona	92065	09/22/05	09/22/05	VecTest
American Crow	San Diego	San Diego	92122	09/16/05	09/16/05	VecTest
American Crow	San Diego	Valley Center	92082	09/15/05	09/15/05	VecTest
American Crow	San Luis Obispo	Atascadero	93422	09/05/05	09/26/05	RT-PCR
American Crow	San Luis Obispo	Atascadero	93422	09/05/05	09/26/05	RT-PCR
American Crow	San Luis Obispo	Atascadero	93422	09/09/05	09/26/05	RT-PCR
American Crow	Santa Barbara	Santa Barbara	93111	09/16/05	09/26/05	RT-PCR
American Crow	Santa Barbara	Santa Barbara	93105	09/19/05	09/26/05	RT-PCR

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American Crow	Santa Barbara	Santa Ynez	93460	09/16/05	09/26/05	RT-PCR
American Crow	Santa Clara	Campbell	95008	09/20/05	09/20/05	VecTest
American Crow	Santa Clara	San Jose	95120	09/15/05	09/15/05	VecTest
American Crow	Santa Clara	San Jose	95118	09/16/05	09/16/05	VecTest
American Crow	Santa Clara	San Jose	95124	09/20/05	09/20/05	VecTest
American Crow	Santa Clara	Santa Clara	95051	09/13/05	09/13/05	VecTest
American Crow	Shasta	Redding	96001	09/20/05	09/20/05	VecTest
American Crow	Sonoma	Healdsburg	95448	09/15/05	09/15/05	RAMP
American Crow	Sonoma	Kenwood	95452	09/16/05	09/16/05	RAMP
American Crow	Stanislaus	Hughson	95326	09/16/05	09/26/05	RT-PCR
American Crow	Ventura	Simi Valley	93065	09/13/05	09/26/05	RT-PCR
American Crow	Ventura	Ventura	93003	09/16/05	09/26/05	RT-PCR
American Kestrel	Kern	Bakersfield	93301	09/12/05	09/26/05	RT-PCR
Barn Owl	San Diego	Ramona	92065	09/18/05	09/26/05	RT-PCR
Cockatiel	Sonoma	Santa Rosa	95401	09/13/05	09/26/05	RT-PCR
Common Raven	San Diego	Ramona	92065	09/16/05	09/16/05	VecTest
Cooper's Hawk	Santa Barbara	New Cuyama	93254	09/20/05	09/26/05	RT-PCR
Cooper's Hawk	Stanislaus	Modesto	95355	09/19/05	09/26/05	RT-PCR
Great Egret	Ventura	Simi Valley	93065	09/19/05	09/26/05	RT-PCR
Great-Horned Owl	San Diego	Carlsbad	92009	09/18/05	09/26/05	RT-PCR
House Finch	Los Angeles	Sunland	91040	09/14/05	09/26/05	RT-PCR
House Finch	Nevada	Grass Valley	95949	09/15/05	09/26/05	RT-PCR
House Finch	Nevada	Rough and Ready	95975	09/16/05	09/26/05	RT-PCR
House Sparrow	Tuolumne	Sonora	95370	09/19/05	09/26/05	RT-PCR
Oak Titmouse	Tuolumne	Sonora	95370	09/19/05	09/26/05	RT-PCR
Red-Breasted Nuthatch	Sonoma	Petaluma	94952	09/07/05	09/26/05	RT-PCR
Red-Tailed Hawk	Los Angeles	Rancho Palos Verdes	90275	09/20/05	09/26/05	RT-PCR
Rock Dove	Placer	Auburn	95603	09/19/05	09/26/05	RT-PCR
Steller's Jay	Tuolumne	Twain Harte	95383	09/12/05	09/26/05	RT-PCR
Western Scrub-Jay	Alameda	Livermore	94550	09/19/05	09/19/05	RAMP
Western Scrub-Jay	Alameda	Pleasanton	94566	09/22/05	09/22/05	RAMP
Western Scrub-Jay	Amador	Sutter Creek	95685	09/19/05	09/26/05	RT-PCR
Western Scrub-Jay	Calaveras	Valley Springs	95252	09/16/05	09/26/05	RT-PCR
Western Scrub-Jay	El Dorado	Cool	95614	09/19/05	09/26/05	RT-PCR
Western Scrub-Jay	El Dorado	Shingle Springs	95682	09/15/05	09/26/05	RT-PCR
Western Scrub-Jay	El Dorado	Shingle Springs	95682	09/15/05	09/26/05	RT-PCR
Western Scrub-Jay	Marin	San Anselmo	94960	09/15/05	09/15/05	RAMP
Western Scrub-Jay	Napa	Saint Helena	94574	09/14/05	09/14/05	VecTest
Western Scrub-Jay	Placer	Auburn	95602	09/09/05	09/26/05	RT-PCR
Western Scrub-Jay	San Diego	Alpine	91901	09/14/05	09/26/05	RT-PCR
Western Scrub-Jay	San Diego	Carlsbad	92009	09/14/05	09/26/05	RT-PCR
Western Scrub-Jay	San Diego	Pine Valley	91962	09/16/05	09/26/05	RT-PCR
Western Scrub-Jay	San Diego	Alpine	91901	09/17/05	09/17/05	VecTest
Western Scrub-Jay	San Diego	Descanso	91916	09/14/05	09/14/05	VecTest
Western Scrub-Jay	San Diego	Escondido	92025	09/21/05	09/21/05	VecTest
Western Scrub-Jay	San Diego	Jamul	91935	09/19/05	09/19/05	VecTest
Western Scrub-Jay	San Diego	Vista	92083	09/16/05	09/16/05	VecTest

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Western Scrub-Jay	Santa Clara	Los Gatos	95032	09/19/05	09/26/05	RT-PCR
Western Scrub-Jay	Santa Clara	San Jose	95139	09/16/05	09/26/05	RT-PCR
Western Scrub-Jay	Santa Clara	San Jose	95117	09/20/05	09/20/05	VecTest
Western Scrub-Jay	Tuolumne	Columbia	95310	09/19/05	09/26/05	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	95370	09/15/05	09/26/05	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	95370	09/15/05	09/26/05	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	95370	09/15/05	09/26/05	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	95370	09/19/05	09/26/05	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	95370	09/19/05	09/26/05	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	95370	09/19/05	09/26/05	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	95370	09/19/05	09/26/05	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	95370	09/19/05	09/26/05	RT-PCR
Yellow Warbler	Tuolumne	Sonora	95370	09/12/05	09/26/05	RT-PCR
Yellow-billed Magpie	Placer	Auburn	95603	09/18/05	09/26/05	RT-PCR
Yellow-billed Magpie	Santa Clara	Gilroy	95020	09/19/05	09/26/05	RT-PCR
Yellow-billed Magpie	Shasta	Anderson	96007	09/23/05	09/23/05	VecTest
Yellow-billed Magpie	Stanislaus	Turlock	95380	09/13/05	09/26/05	RT-PCR
Yellow-billed Magpie	Stanislaus	Turlock	95380	09/16/05	09/26/05	RT-PCR
Yellow-billed Magpie	Stanislaus	Waterford	95386	09/15/05	09/26/05	RT-PCR

National Comments:

As of September 27, 2005, West Nile virus (WNV) activity has been detected in 46 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 1,804 human WNV cases have been reported in 2005 from 40 states. At this time in 2004, 1,784 cases had been reported from 39 states and NYC. In 2005, of the 1,669 cases with available data, the median age is 50 years (range: 3 months-92 years) and 735 (56%) of the cases are male. Six hundred sixty-four (40%) of the cases are neuroinvasive. There have been 52 reported WNV-related fatalities. The median age of the 49 decedents where data is available was 78 years (range: 51-92 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].