

# California Arbovirus Surveillance Bulletin # 34

Week 40 Friday, October 7, 2005

## Weekly Summary

### Comments:

#### **Humans:**

As of October 7, 2005, 823 human West Nile virus (WNV) infections have been identified from the following local health jurisdictions: Alameda (1), Amador (4), Butte (21), Calaveras (2), Colusa (2), Contra Costa (10), El Dorado (1), Fresno (58), Glenn (13), Humboldt (1), Imperial (1), Kern (55), Kings (32), Los Angeles (37), Madera (12), Merced (24), Nevada (4), Orange (15), Placer (34), Plumas (1), Riverside (84), Sacramento (164), San Bernardino (32), San Diego (1), San Francisco (2), San Joaquin (35), San Mateo (1), Santa Barbara (1), Santa Clara (5), Solano (4), Sonoma (1), Stanislaus (82), Sutter (9), Tehama (3), Tulare (54), Tuolumne (1), Ventura (1), Yolo (12), and Yuba (3). Ninety-four of the 823 infections were initially detected in asymptomatic individuals through screening done at blood banks - thirty-eight individuals later developed symptoms. Eight of the 94 presumptively viremic blood donors did not confirm in follow-up testing, and have subsequently been removed from the list. 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 771 WNV cases with symptoms, 252 are classified as West Nile neuroinvasive disease cases, 447 are classified as West Nile fever, and 72 are of unknown clinical presentation. The median age for all symptomatic cases where data is available is 50 years (range: 2-95 years). 427 (55%) 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 11 new confirmed cases of equine WNV in Amador (2), Calaveras (1), El Dorado (1), Inyo (1), Monterey (1), Placer (1), Riverside (1), Sacramento (1), and San Joaquin (2) counties. This was the first WNV positive horse in Monterey County. The YTD total for the State is 442.

#### **Dead Birds:**

This week the hotline received 1,687 dead bird reports, for a YTD total of 101,148 reports. 104 out of 222 (46.8%) dead birds collected from 34 counties tested positive for WNV this week.

- 52 out of 156 (33.3%) dead birds tested positive via RT-PCR.
- 13 out of 15 (86.7%) corvids tested positive via VecTest.
- 4 out of 8 (50.0%) corvids tested positive via RAMP.
- 35 out of 43 (81.4%) dead birds tested positive via immunohistochemistry.

The WNV positive dead birds were collected from the following counties: Alameda (3); Amador (1); Butte (1); Colusa (1); Contra Costa (2); El Dorado (5); Fresno (1); Lake (1); Los Angeles (6); Mendocino (1); Merced (1); Napa (1); Nevada (2); Orange (35); Placer (2); Riverside (1); San Diego (7); San Francisco (2); San Luis Obispo (4); San Mateo (2); Santa Clara (10); Sonoma (8); Stanislaus (3); Tuolumne (1); and Ventura (3).

The following bird species tested positive for WNV: American crow (58); American kestrel (1); black phoebe (2); black-throated gray warbler (1); Cooper's hawk (1); fox sparrow (1); house finch (3); house sparrow (3); lesser goldfinch (2); Lincoln sparrow (1); mallard (2); mockingbird (1); mourning dove (1); oak titmouse (1); osprey (1); red-tailed hawk (3); sparrow (1); Swainson's thrush (1); western scrub-jay (16); western tanager (1); yellow warbler (1); and yellow-billed magpie (2). See "WNV Positive Dead Birds" table for details.

Since January 1, 2005, 2,746 of 7,971 dead birds have tested positive for WNV.

#### **Mosquito Pools:**

WNV: CVEC reported 21 WNV positive mosquito pools from the following counties: Imperial (2), Kern (5), Lake (2), Los Angeles (4), Merced (2), Orange (1), Riverside (1), Sacramento (1), and Stanislaus (3). The YTD total for the State is 1215.

WEE: CVEC also reported three positive WEE pools from Kern County. The YTD for the State is 50.

**Sentinel Chickens:** WNV: VRDL reported 100 seroconversions among 37 flocks from Butte (1), Fresno (6), Glenn (2), Imperial (21), Kern (4), Lake (1), Los Angeles (8), Napa (2), Riverside (22), San Bernardino (26), San Joaquin (3), San Luis Obispo (1), Shasta (1), Stanislaus (1) and Sutter (1) counties. This is the first seroconversion for Napa County. The current YTD total stands at 646 seroconversions. Additionally, there are 10 flavivirus positive seroconversions.

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**WEE:** VRDL reported no WEE seroconversions for this week. The current YTD total stands at 98 seroconversions.

**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
<b>Humans Tested</b>	Week	57	0	30	0	0	0	0	0	0
	YTD	1829	0	823	0	0	0	0	0	0
<b>Horses Tested</b>	Week	11	0	11	0	0	0	0	0	0
	YTD	911	0	442	0	0	0	0	0	0

### Dead Birds

	Number Tested	WNV Positive
Week	222	104
YTD	7,971	2,744

### Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Other Positive
	YTD	28266	646	98	0	0
<b>Mosquito pools</b>	Week	609	21	3	0	0
	YTD	17839	1215	50	0	0

\*Total has been adjusted to include local agency submission

### Human Positives Reported (September 26 – September 30):

Virus	Onset Date	Status	Diagnosis	County <sup>1</sup>	Age
WNV	9/22/05	Probable	WNF	Stanislaus	63
WNV	8/19/05	Probable	WNF	Stanislaus	46
WNV	9/25/05	Probable	WNND	Stanislaus	95
WNV	8/20/05	Probable	WNND	Merced	73
WNV	9/6/05	Probable	WNF	Merced	51
WNV	9/20/05	Probable	WNND	Calaveras	21
WNV	8/12/05	Probable	WNND	Orange	<18
WNV	9/14/05	Probable	WNF	San Joaquin	69
WNV	9/12/05	Probable	WNF	Merced	20
WNV	9/19/05	Probable	WNF	Merced	54
WNV	9/16/05	Probable	WNF	Merced	31
WNV	9/14/05	Probable	WNF	Stanislaus	51
WNV	9/13/05	Probable	WNF	Tulare	41
WNV	9/6/05	Probable	WNF	Tulare	21
WNV	Unk	Probable	Unk	Kern	57

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WNV	9/11/05	Probable	WNF	Los Angeles	58
WNV	8/20/05	Probable	WNND	San Mateo	>18
WNV	9/20/05	Probable	WNF	Stanislaus	48
WNV	Unk	Probable	WNND	Riverside	48
WNV	9/13/05	Probable	WNND	Los Angeles	81
WNV	n/a	Probable	Unk	Glenn	n/a
WNV	9/1/05	Probable	WNF	Merced	43
WNV	8/25/05	Probable	WNF	Merced	57
WNV	9/11/05	Probable	WNF	Merced	35
WNV	Week 36	Probable	WNF	Butte	>18
WNV	Week 37	Probable	WNF	Butte	>65
WNV	9/22/05	Probable	WNF	Sacramento	36
WNV	8/5/05	Probable	WNND	Riverside	73
WNV	7/19/05	Probable	WNF	San Bernardino	79
WNV	9/30/05	Probable	Asymptomatic Blood Donor	Merced	70

**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	9/27/05	COAV5002	2650	Imperial	Niland	10/5/05
WN	Cx tarsalis	9/27/05	COAV5003	2651	Imperial	Westmorland	10/5/05
WN	Cx quinquefasciatus	9/29/05	COAV0301	2654	Riverside	Indio	10/5/05
WN	Cx quinquefasciatus	9/27/05	GRLA2954	1417	Los Angeles	Cerritos	10/5/05
WN	Cx quinquefasciatus	9/29/05	GRLA2878	1420	Los Angeles	Long Beach	10/5/05
WN	Cx quinquefasciatus	9/29/05	GRLA2879	1424	Los Angeles	Long Beach	10/5/05
WN	Cx quinquefasciatus	9/28/05	GRLA2968	6117	Los Angeles	Santa Clarita	10/5/05
WN	Cx quinquefasciatus	9/27/05	KERN0009	500	Kern	Bakersfield	10/5/05
WN	Cx tarsalis	9/27/05	KERN0045	5867	Kern	Buttonwillow	10/5/05
WN	Cx tarsalis	9/27/05	KERN0039	5875	Kern	Shafter	10/5/05
WN	Cx tarsalis	9/27/05	KERN0059	5884	Kern	Buttonwillow	10/5/05
WN	Cx tarsalis	9/27/05	KERN0059	5886	Kern	Buttonwillow	10/5/05
WN	Cx stigmatosoma	9/22/05	LAKE1004	330	Lake	Upper Lake	10/5/05
WN	Cx tarsalis	9/28/05	LAKE1101	334	Lake	Nice	10/5/05
WN	Cx quinquefasciatus	9/27/05	ORCO0002	2685	Orange	Fullerton	10/4/05
WN	Cx erythrothorax	9/27/05	SAYO4309	1895	Sacramento	Hood	10/3/05
WN	Cx pipiens	9/26/05	TRLK9742	986	Stanislaus	Crows Landing	9/30/05
WN	Cx pipiens	9/26/05	TRLK9751	995	Merced	Newman	9/30/05
WN	Cx pipiens	9/26/05	TRLK9772	1029	Stanislaus	Grayson	9/30/05
WN	Cx pipiens	9/26/05	TRLK0311	1078	Merced	Newman	9/30/05
WN	Cx pipiens	9/27/05	TRLK0535	1095	Stanislaus	Keyes	9/30/05
WEE	Cx tarsalis	9/27/05	KERN0014	503	Kern	Bakersfield	10/5/05
WEE	Cx tarsalis	9/27/05	KERN0056	5882	Kern	Buttonwillow	10/5/05
WEE	Cx tarsalis	9/27/05	KERN0040	5891	Kern	Lost Hills	10/5/05

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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	Band #8	Band #9	Band #10
*** WNV	BUCO0006	Butte	CA	Chico	River Marina	9/6/05	5457									
WNV	CNSL5001	Fresno	CA	Friant	Fish Hatchery	9/21/05	0004	0008	0009	0010						
*** WNV	CNSL5007	Fresno	CA	Laton	P. Balver	8/23/05	0059	0061								
*** WNV	GLEN9701	Glenn	CA	Willows	N. E. Willows	9/7/05	5803	5810								
*** WNV	COAV5001	Imperial	CA	Niland	Wister	8/29/05	8921	8922	8923	8924	8925	8926	8927	8928	8929	8930
WNV	IMPR0013	Imperial	CA	Brawley	Brawley	8/31/05	5848	5849	5851	5854	5855					
*** WNV	IMPR0016	Imperial	CA	Holtville	Zenos's Site	8/31/05	5856	5857	5860	5863	5871	5873				
*** WNV	DLNO0021	Kern	CA	Earlimart	Teviston	9/8/05	5494	5495								
*** WNV	DLNO0060	Kern	CA	Delano	Delano	9/8/05	5482	5488								
*** WNV	LAKE1000	Lake	CA	Upper Lake	MAD Fish Ponds	9/7/05	8732									
*** WNV	ANTV2878	Los Angeles	CA	Lancaster	Burton	8/31/05	8832	8834	8835							
WNV	ANTV3247	Los Angeles	CA	Lancaster	Fairgrounds	9/28/05	8827									
*** WNV	ANTV5662	Los Angeles	CA	Lancaster	Lombardo	8/31/05	8837	8839								
*** WNV	ANTV7947	Los Angeles	CA	Palmdale	PWD Headquarter	8/31/05	8801									
WNV	GRLA2056	Los Angeles	CA	Long Beach	El Dorado Park	9/26/05	7280									
*** WNV	NAPA2802	Napa	CA	Napa	Cabral's Dairy	7/25/05	6109									
*** WNV	NAPA2805	Napa	CA	American Canyon	District office	8/10/05	6146									
*** WNV	COAV0035	Riverside	CA	Mecca	Adohr	8/29/05	8862	8863	8864	8866	8867	8968				
WNV	COAV0122	Riverside	CA	Mecca	Gordon	9/26/05	8909	8936	8958							
*** WNV	COAV0203	Riverside	CA	Palm Desert	Cook	8/29/05	0765	0767	0769	0770	0772					
WNV	COAV0208	Riverside	CA	Palm Springs	Sewer Treatment Plant - Mesquite	9/26/05	0756									
*** WNV	NWST0002	Riverside	CA	Glen Ivy Hot Springs	Temescal Fire Station	8/30/05	1065	1066	1067	1068						
WNV	NWST6666	Riverside	CA	Lake Elsinore	Lake Elsinore	9/27/05	1055									
WNV	RIVR0008	Riverside	CA	Murrieta	Auld Rd	9/28/05	0968	0970								
WNV	SANB0007	San Bernardino	CA	Fontana	Fontana 11 Senior Center	9/28/05	5051	5052	5053	5054	5057	5059	5060			
WNV	SANB0008	San Bernardino	CA	Upland	Upland Crosswalls	9/28/05	5064	5068	5070	6954	6955					
WNV	SANB0009	San Bernardino	CA	Victorville	Mojave Narrows Regional Park	9/26/05	5071	5072	5073	5075	5077	5079				
*** WNV	SANB0011	San Bernardino	CA	Rialto	Rialto Frisbie Park Wash	8/16/05	5082	5084	5085	5090						
*** WNV	WVAL0006	San Bernardino	CA	Ontario	Hilardes	8/29/05	5715									
*** WNV	WVAL0007	San Bernardino	CA	Montclair	Water District	8/29/05	1104	5717	5718							
WNV	SLOC0030	San Luis Obispo	CA	Paso Rubles	Pat Butler School	9/7/05	0241									
WNV	SHAS9701	Shasta	CA	Cottonwood	Gover	9/8/05	0376									
WNV	TRLK0001	Stanislaus	CA	Vernalis	Dunne	9/19/05	0564									
*** WNV	SUYA0020	Sutter	CA	Meridian	Meridian	9/8/05	0456									
WNV	SJCM9908	San Joaquin	CA	Manteca	Two Rivers	10/3/05	0163	0171								
WNV	SJCM9909	San Joaquin	CA	Linden	Linden	10/3/05	0182									
Flav	COAV5002	Imperial	CA	Niland	Bono Wild Life Reserve	9/26/05	0738	0743								
*** Flav	IMPR0003	Imperial	CA	El Centro	Nichol's Flock	9/28/05	5834									
Flav	COAV0114	Riverside	CA	North Shore	Desert	9/26/05	8447	8450	8908							
Flav	SANB0001	San Bernardino	CA	Needles	Treatment Plant	9/27/05	5009	5010								
Flav	TLRE0011	Tulare	CA	Alpaugh	TMAD	9/28/05	0549									
*** Flav	VENT0500	Ventura	CA	Camarillo	Pancho Rd.	9/27/05	5756	5760								
Flav	VENT0700	Ventura	CA	Simi Valley	Simi Valley W.T.P.	9/27/05	5738									

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## WNV Positive Dead Birds Reported (October 3-7)

Species	County	City	ZIP	Date Collected	Date Tested	Tested By
American Crow	Alameda	Livermore	94550	9/29/05	10/3/05	RT-PCR
American Crow	Fresno	Fresno	93706	9/22/05	10/3/05	RT-PCR
American Crow	Lake	Lucerne	95458	9/22/05	10/3/05	RT-PCR
American Crow	Los Angeles	Canyon Country	91351	9/23/05	10/3/05	RT-PCR
American Crow	Los Angeles	Newhall	91321	9/16/05	10/3/05	RT-PCR
American Crow	Los Angeles	Northridge	91324	9/26/05	10/3/05	RT-PCR
American Crow	Los Angeles	Sun Valley	91352	9/20/05	10/3/05	RT-PCR
American Crow	Orange	Anaheim	92804	8/30/05	8/30/05	IHC
American Crow	Orange	Anaheim	92806	9/1/05	9/1/05	IHC
American Crow	Orange	Costa Mesa	92627	9/8/05	9/8/05	IHC
American Crow	Orange	Costa Mesa	92627	9/13/05	9/13/05	IHC
American Crow	Orange	Garden Grove	92840	9/14/05	9/14/05	IHC
American Crow	Orange	Huntington Beach	92649	9/1/05	9/1/05	IHC
American Crow	Orange	Huntington Beach	92647	9/2/05	9/2/05	IHC
American Crow	Orange	Huntington Beach	92648	9/8/05	9/8/05	IHC
American Crow	Orange	Huntington Beach	92647	9/12/05	9/12/05	IHC
American Crow	Orange	Huntington Beach	92647	9/19/05	9/19/05	IHC
American Crow	Orange	Irvine	92614	8/29/05	8/29/05	IHC
American Crow	Orange	Irvine	92620	8/29/05	8/29/05	IHC
American Crow	Orange	Irvine	92620	8/30/05	8/30/05	IHC
American Crow	Orange	Irvine	92620	9/5/05	9/5/05	IHC
American Crow	Orange	Irvine	92604	9/6/05	9/6/05	IHC
American Crow	Orange	Irvine	92604	9/7/05	9/7/05	IHC
American Crow	Orange	Irvine	92620	9/13/05	9/13/05	IHC
American Crow	Orange	Lake Forest	92630	9/14/05	9/14/05	IHC
American Crow	Orange	Los Alamitos	90720	9/8/05	9/8/05	IHC
American Crow	Orange	Los Alamitos	90720	9/8/05	9/8/05	IHC
American Crow	Orange	Los Alamitos	90720	9/15/05	9/15/05	IHC
American Crow	Orange	Orange	92869	8/25/05	8/25/05	IHC
American Crow	Orange	Orange	92866	9/6/05	9/6/05	IHC
American Crow	Orange	Orange	92869	9/7/05	9/7/05	IHC
American Crow	Orange	Santa Ana	92704	8/25/05	8/25/05	IHC
American Crow	Orange	Santa Ana	92705	9/7/05	9/7/05	IHC
American Crow	Orange	Tustin	92780	8/25/05	8/25/05	IHC
American Crow	Orange	Tustin	92780	8/30/05	8/30/05	IHC
American Crow	Orange	Tustin	92780	9/8/05	9/8/05	IHC
American Crow	Orange	Villa Park	92861	9/1/05	9/1/05	IHC
American Crow	Orange	Yorba Linda	92886	9/11/05	9/11/05	IHC
American Crow	Riverside	Norco	92860	9/23/05	10/3/05	RT-PCR
American Crow	San Diego	Escondido	92026	9/27/05	10/3/05	RT-PCR
American Crow	San Diego	Lakeside	92040	9/24/05	10/3/05	RT-PCR
American Crow	San Diego	Dulzura	91917	9/26/05	9/26/05	VecTest
American Crow	San Diego	Vista	92084	9/27/05	9/27/05	VecTest
American Crow	Santa Clara	Los Gatos	95032	9/15/05	9/15/05	VecTest
American Crow	Santa Clara	Los Gatos	95030	9/21/05	9/21/05	VecTest

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American Crow	Santa Clara	San Jose	95124	9/22/05	9/22/05	VecTest
American Crow	Santa Clara	San Jose	95123	9/23/05	9/23/05	VecTest
American Crow	Santa Clara	Santa Clara	95051	9/23/05	9/23/05	VecTest
American Crow	Santa Clara	San Jose	95118	9/23/05	9/23/05	VecTest
American Crow	Santa Clara	Los Altos	94022	9/26/05	9/26/05	VecTest
American Crow	Santa Clara	San Jose	95123	9/26/05	9/26/05	VecTest
American Crow	Santa Clara	San Jose	95123	9/27/05	9/27/05	VecTest
American Crow	Sonoma	Santa Rosa	95401	9/22/05	9/22/05	RAMP
American Crow	Sonoma	Healdsburg	95448	9/26/05	9/26/05	RAMP
American Crow	Stanislaus	Modesto	95356	9/23/05	10/3/05	RT-PCR
American Crow	Ventura	Santa Paula	93060	9/27/05	10/3/05	RT-PCR
American Crow	Ventura	Ventura	93003	9/21/05	10/3/05	RT-PCR
American Crow	Ventura	Ventura	93003	9/28/05	10/3/05	RT-PCR
American Kestrel	Merced	Los Banos	93635	9/24/05	10/3/05	RT-PCR
Black Phoebe	Contra Costa	Concord	94518	9/15/05	10/3/05	RT-PCR
Black Phoebe	Placer	Newcastle	95658	9/22/05	10/3/05	RT-PCR
Black-Throated Gray Warbler	El Dorado	South Lake Tahoe	96150	9/20/05	10/3/05	RT-PCR
Cooper's Hawk	San Diego	San Diego	92104	9/21/05	10/3/05	RT-PCR
Fox Sparrow	Placer	Auburn	95603	9/19/05	10/3/05	RT-PCR
House Finch	El Dorado	Shingle Springs	95682	9/25/05	10/3/05	RT-PCR
House Finch	Orange	Anaheim	92804	8/30/05	8/30/05	IHC
House Finch	Orange	Rancho Santa Margarita	92688	9/15/05	9/15/05	IHC
House Finch	San Diego	San Diego	92121	9/23/05	10/3/05	RT-PCR
House Sparrow	Los Angeles	Norwalk	90650	9/21/05	10/3/05	RT-PCR
House Sparrow	San Francisco	San Francisco	94131	9/23/05	10/3/05	RT-PCR
Lesser Goldfinch	Contra Costa	Walnut Creek	94598	9/20/05	10/3/05	RT-PCR
Lesser Goldfinch	Nevada	Grass Valley	95949	9/22/05	10/3/05	RT-PCR
Lincoln's Sparrow	Alameda	Fremont	94539	9/22/05	10/3/05	RT-PCR
Mallard	Colusa	Colusa	95932	9/27/05	10/3/05	RT-PCR
Mallard	San Mateo	Montara	94037	9/20/05	10/3/05	RT-PCR
Mourning Dove	Orange	Santa Ana	92705	9/7/05	9/7/05	IHC
Oak Titmouse	Amador	Plymouth	95669	9/23/05	10/3/05	RT-PCR
Osprey	Los Angeles	West Hills	91307	9/22/05	10/3/05	RT-PCR
Red-Tailed Hawk	Sonoma	Santa Rosa	95401	9/18/05	10/3/05	RT-PCR
Red-Tailed Hawk	Sonoma	Santa Rosa	95407	9/20/05	10/3/05	RT-PCR
Red-Tailed Hawk	Sonoma	Santa Rosa	95403	9/21/05	10/3/05	RT-PCR
Sparrow	Tuolumne	Soulsbyville	95372	9/19/05	10/3/05	RT-PCR
Swainson's Thrush	Mendocino	Willits	95490	9/21/05	10/3/05	RT-PCR
Western Scrub-Jay	Alameda	Fremont	94536	9/21/05	10/3/05	RT-PCR
Western Scrub-Jay	Butte	Gridley	95948	9/29/05	9/29/05	VecTest
Western Scrub-Jay	El Dorado	El Dorado Hills	95762	9/22/05	10/3/05	RT-PCR
Western Scrub-Jay	El Dorado	El Dorado Hills	95762	9/26/05	10/3/05	RT-PCR
Western Scrub-Jay	Napa	Napa	94558	9/26/05	10/3/05	RT-PCR
Western Scrub-Jay	Nevada	Auburn	95602	9/26/05	10/3/05	RT-PCR
Western Scrub-Jay	San Diego	El Cajon	92020	9/28/05	10/3/05	RT-PCR
Western Scrub-Jay	San Luis Obispo	Atascadero	93422	9/13/05	10/3/05	RT-PCR
Western Scrub-Jay	San Luis Obispo	Atascadero	93422	9/13/05	10/3/05	RT-PCR

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Western Scrub-Jay	San Luis Obispo	Paso Robles	93446	9/20/05	10/3/05	RT-PCR
Western Scrub-Jay	San Luis Obispo	Templeton	93465	9/21/05	10/3/05	RT-PCR
Western Scrub-Jay	Santa Clara	San Jose	95120	9/27/05	9/27/05	VecTest
Western Scrub-Jay	Sonoma	Santa Rosa	95401	9/21/05	10/3/05	RT-PCR
Western Scrub-Jay	Sonoma	Cloverdale	95425	9/22/05	9/22/05	RAMP
Western Scrub-Jay	Sonoma	Santa Rosa	95409	9/23/05	9/23/05	RAMP
Western Scrub-Jay	Stanislaus	Turlock	95380	9/20/05	10/3/05	RT-PCR
Western Tanager	San Francisco	San Francisco	94129	9/23/05	10/3/05	RT-PCR
Yellow Warbler	San Mateo	Belmont	94002	9/20/05	10/3/05	RT-PCR
Yellow-billed Magpie	El Dorado	Cool	95614	9/21/05	10/3/05	RT-PCR
Yellow-billed Magpie	Stanislaus	Modesto	95351	9/22/05	10/3/05	RT-PCR

### National Comments:

As of October 4, 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 2,016 human WNV cases have been reported in 2005 from 41 states. At this time in 2004, 1,865 cases had been reported from 39 states and NYC. In 2005, of the 1,865 cases with available data, the median age is 51 years (range: 3 months-92 years) and 1,058 (57%) of the cases are male. Seven hundred fifty-six (41%) of the cases are neuroinvasive. There have been 55 reported WNV-related fatalities. The median age of the 51 decedents where data is available was 80 years (range: 51-96 years).

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## TEST PROTOCOLS

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### **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.

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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. The VRDL also forwards selected serum to CVEC for additional testing for WNV, WEE, and SLE antibodies as needed.

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