

# California Arbovirus Surveillance Bulletin # 35

Week 41 Friday, October 14, 2005

## Weekly Summary

### Comments:

#### **Humans:**

As of October 14, 2005, 844 human West Nile virus (WNV) infections have been identified from the following local health jurisdictions: Alameda (1), Amador (4), Butte (22), Calaveras (2), Colusa (2), Contra Costa (10), El Dorado (1), Fresno (58), Glenn (13), Humboldt (1), Imperial (1), Kern (59), Kings (32), Los Angeles (40), Madera (12), Merced (25), Nevada (4), Orange (16), Placer (34), Plumas (1), Riverside (85), Sacramento (170), San Bernardino (32), San Diego (1), San Francisco (2), San Joaquin (36), San Mateo (1), Santa Barbara (1), Santa Clara (5), Solano (4), Sonoma (1), Stanislaus (83), Sutter (9), Tehama (3), Tulare (55), Tuolumne (1), Ventura (1), Yolo (12), and Yuba (4). Ninety-five of the 844 infections were initially detected in asymptomatic individuals through screening done at blood banks; 39 individuals later developed symptoms. Eight of the 95 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 792 WNV cases with symptoms, 260 are classified as West Nile neuroinvasive disease cases, 460 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). 437 (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 two new confirmed cases of equine WNV in Fresno (1) and Tulare (1) counties. The YTD total for the State is 444.

#### **Dead Birds:**

This week the hotline received 1,496 dead bird reports, for a YTD total of 102,644 reports. 95 out of 190 (50.0%) dead birds collected from 38 counties tested positive for WNV this week.

- 41 out of 132 (31.1%) dead birds tested positive via RT-PCR.
- 40 out of 40 (100%) corvids tested positive via VecTest.
- 12 out of 14 (85.7%) corvids tested positive via RAMP.
- 2 out of 4 (50.0%) dead birds tested positive via immunohistochemistry.

The WNV positive dead birds were collected from the following counties: Alameda (4); Amador (2); Calaveras (2); Contra Costa (8); El Dorado (2); Humboldt (1); Inyo (3); Lake (1); Los Angeles (18); Marin (1); Merced (2); Napa (3); Orange (2); San Diego (15); San Luis Obispo (2); Santa Clara (8); Shasta (1); Solano (1); Sonoma (10); Stanislaus (5); Tuolumne (1); and Ventura (3).

The following bird species tested positive for WNV: American crow (47); barn owl (1); common raven (1); domestic turkey (1); fox sparrow (1); golden-crowned sparrow (1); goose (1); hermit thrush (1); house finch (1); mourning dove (1); northern mockingbird (1); sharp-shinned hawk (1); Stellar's jay (3); warbling vireo (1); western bluebird (1); western screech owl (1); western scrub-jay (27); Wilson's warbler (1); and yellow-billed magpie (3). See "WNV Positive Dead Birds" table for details.

Since January 1, 2005, 2,838 of 8,161 dead birds have tested positive for WNV.

#### **Mosquito Pools:**

WNV: CVEC reported one WNV positive mosquito pool from Stanislaus County. The YTD total for the State is 1216.

WEE: CVEC also reported no WEE positive mosquito pools for this week. The YTD for the State is 50.

**Sentinel Chickens: WNV:** VRDL reported 74 seroconversions among 43flocks from Fresno (13), Glenn (7), Imperial (5), Kern (15), Lake (3), Los Angeles (10), Madera (1), Moab (1), Merced (2), Riverside (1), San Luis Obispo (2), Stanislaus (5), Sutter (5), Tulare (3) and Ventura (1) counties. The current YTD total stands at 720 seroconversions. Additionally, there are 10 flavivirus positive seroconversions.

**WEE:** VRDL reported seven WEE seroconversions from Kern County this week. The current YTD total stands at 105 seroconversions.

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## Website Information:

For updated information on WNV, please visit the California WNV website, [www.westnile.ca.gov](http://www.westnile.ca.gov), the CDC website, [www.cdc.gov](http://www.cdc.gov), and the USGS website, [www.westnilemaps.usgs.gov](http://www.westnilemaps.usgs.gov). Please go to the Vector website at <http://vector.ucdavis.edu/arbo.html> for flock location and more information on WNV and other vector-borne diseases.

## TEST SUMMARIES

### Humans and Horses

		Number Tested	WNV Positive		WEE Positive		SLE Positive		Other Positive	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested	Week	38	0	21	0	0	0	0	0	0
	YTD	1867	0	844	0	0	0	0	0	0
Horses Tested	Week	2	0	2	0	0	0	0	0	0
	YTD	913	0	444	0	0	0	0	0	0

### Dead Birds

	Number Tested	WNV Positive
Week	190	95
YTD	8,161	2,838

### Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Other Positive
	YTD	29540	720	105	0	0
Mosquito pools	Week	621	1	0	0	0
	YTD	18460	1216	50	0	0

\*Total has been adjusted to include local agency submission

### Human Positives Reported (October 10 – October 14):

Virus	Onset Date	Status	Diagnosis	County <sup>1</sup>	Age
WNV	Unknown	Probable	Unknown	Kern	47
WNV	9/22/2005	Probable	WNF	Kern	48
WNV	9/13/2005	Probable	WNND	Kern	75
WNV	8/30/2005	Probable	WNF	Merced	37
WNV	9/20/2005	Probable	WNF	Sacramento	57
WNV	8/25/2005	Probable	WNF	Sacramento	73
WNV	8/13/2005	Probable	WNF	Sacramento	91
WNV	9/2/2005	Probable	WNND	San Joaquin	65
WNV	9/15/2005	Probable	WNF	Tulare	<18
WNV	8/1/2005	Probable	WNF	Sacramento	41
WNV	10/3/2005	Probable	WNND	Sacramento	61
WNV	8/24/2005	Probable	WNF	Sacramento	70
WNV	9/26/2005	Probable	WNF	Stanislaus	81
WNV	Week 34	Probable	WNF	Butte	>18
WNV	9/13/2005	Probable	WNND	Orange	83
WNV	Unknown	Probable	WNF*	Riverside	21
WNV	n/a	Probable	n/a	Yuba	n/a

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WNV	10/1/2005	Probable	WNF	Kern	56
WNV	9/3/2005	Probable	WNND	Los Angeles	<18
WNV	9/15/2005	Probable	WNND	Los Angeles	57
WNV	9/18/2005	Probable	WNND	Los Angeles	73

### Virus Positive From Mosquito Pools:

Results	Species	Date Collected	Site	Pool #	County	City	Date Received
WN	Cx pipiens	10/11/05	TRLK0538	1222	Stanislaus	Hughson	10/13/05

### 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	CNSL5004	Fresno	CA	Caruthers	S. Turner	9/6/05	22	23								
WNV	CNSL5005	Fresno	CA	Fresno	Fresno Roofing	8/22/05	39									
WNV	CNSL5007	Fresno	CA	Laton	P. Balver	7/26/05	58									
WNV	CNSL5007	Fresno	CA	Laton	P. Balver	8/9/05	57	60	64	65	66					
WNV	CNSL5007	Fresno	CA	Laton	P. Balver	8/23/05	62									
WNV	CNSL5007	Fresno	CA	Laton	P. Balver	9/7/05	63									
WNV	CNSL5008	Fresno	CA	Orange Cove	O. Mitchell	8/23/05	74	81								
WNV	GLEN9701	Glenn	CA	Willows	N.E. Willows	7/26/05	5809									
WNV	GLEN9701	Glenn	CA	Willows	N.E. Willows	8/10/05	5802	5806	5812							
WNV	GLEN9701	Glenn	CA	Willows	N.E. Willows	8/24/05	5801	5811	5813							
WNV	COAV5003	Imperial	CA	Westmorland	Westmorland	7/5/05	752									
****	WNV	IMPR0003	Imperial	CA	El Centro	Nichol's Flock	9/14/05	5870								
WNV	IMPR0013	Imperial	CA	Brawley	Brawley	6/20/05	5848									
WNV	IMPR0013	Imperial	CA	Brawley	Brawley	9/14/05	5849	5854								
WNV	DLNO0021	Kern	CA	Earlimart	Teviston	7/28/05	5499									
WNV	DLNO0021	Kern	CA	Earlimart	Teviston	8/11/05	5492	5493								
WNV	DLNO0021	Kern	CA	Earlimart	Teviston	8/25/05	5491	5496								
WNV	DLNO0060	Kern	CA	Delano	Delano	7/28/05	5481	5485	5486	5490						
WNV	DLNO0060	Kern	CA	Delano	Delano	8/11/05	5484	5487	5489							
WNV	DLNO0060	Kern	CA	Delano	Delano	8/25/05	5482	5483								
WNV	KERN0107	Kern	CA	Arvin	John Dale	10/3/05	3716									
WNV	LAKE1000	Lake	CA	Upper Lake	MAD Fish Pond	8/24/05	8728	8729	8734							
WNV	GRLA2056	Los Angeles	CA	Long Beach	El Dorado Park	7/5/05	7266									
WNV	GRLA2056	Los Angeles	CA	Long Beach	El Dorado Park	7/18/05	7262	7264	7267							
WNV	GRLA2222	Los Angeles	CA	Rowland Heights	Rowland Heights	9/12/05	7257									
WNV	LACW1002	Los Angeles	CA	Torrance	Madrona Marsh	9/26/05	3812									
****	WNV	LACW1005	Los Angeles	CA	El Segundo	Chevron Refinery	9/26/05	3827								
****	WNV	LACW1022	Los Angeles	CA	Pacific Palisades	Will Rogers SP	9/27/05	3881								
****	WNV	LONG0002	Los Angeles	CA	Long Beach	LB Harbor Terminal	9/12/05	6767	6769							
WNV	MADR4123	Madera	CA	Chowchilla	Calley Farm	8/24/05	4576									
WNV	MERC0501	Merced	CA	El Nido	Homen	8/23/05	5991	5993								
****	WNV	MOAB0003	Grand	UT	Moab	Sloughs	9/14/05	943								
WNV	RIVR0008	Riverside	CA	Murrieta	Auld Road	7/20/05	5269									
WNV	SLOC0030	San Luis Obispo	CA	Paso Robles	Pat Butler School	9/7/05	243	248								
WNV	TRLK0001	Stanislaus	CA	Vernalis	Dunne	9/6/05	560									
WNV	TRLK0401	Stanislaus	CA	Hickman	Redding	10/3/05	620									
WNV	TRLK0402	Stanislaus	CA	Denair	Bettencourt/Mendes	10/3/05	1120									
WNV	TRLK9701	Stanislaus	CA	Grayson	Dykzeuf Dairy	9/6/05	575									

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	WNV	TRLK9703	Stanislaus	CA	Crows Landing	Vitoria's Dairy	10/3/05	655											
	WNV	SUYA0020	Sutter	CA	Meridian	Meridian	7/28/05	459	465										
	WNV	SUYA0020	Sutter	CA	Meridian	Meridian	8/11/05	457	463										
	WNV	SUYA0020	Sutter	CA	Meridian	Meridian	8/25/05	458											
	WNV	DLTA1002	Tulare	CA	Reedley	Brant, J	8/1/05	4965	4966	4968									
****	WNV	VENT0700	Ventura	CA	Simi Valley	Simi Valley WTP	9/13/05	5740											
	Flav	BUCO0003	Butte	CA	Palermo	Beach Ranch	10/4/05	5425											
****	Flav	SCSD9901	Calaveras	CA	Copperopolis	Sewer Lift station	10/3/05	4288											
	Flav	FRWS0021	Fresno	CA	Firebaugh	Knight's	10/4/05	8771											
****	Flav	KERN0102	Kern	CA	Buttonwillow	Tracy RNCH	10/3/05	4312											
****	Flav	KERN0104	Kern	CA	Bakersfield	Old River	10/3/05	3705	3709										
	Flav	MERC0004	Merced	CA	Los Banos	Lucky Seven	10/3/05	4748											
	Flav	TRLK9702	Stanislaus	CA	Patterson	Modesto Sewer	10/3/05	582	584										
	Flav	SUYA0030	Sutter	CA	Live Oak	Sheppard	10/6/05	451											
	WEE	KERN0101	Kern	CA	Lost Hills	Kern NWR	10/3/05	4305	4391										
	WEE	KERN0102	Kern	CA	Buttonwillow	Tracy RNCH	10/3/05	4317											
	WEE	KERN0104	Kern	CA	Bakersfield	Old River	10/3/05	3707											
	WEE	KERN0113	Kern	CA	Bakersfield	Kern River	10/3/05	4368	4395	4397									

## WNV Positive Dead Birds Reported (October 10-14)

Species	County	City	ZIP	Date Collected	Date Tested	Tested By
American Crow	Alameda	Livermore	94550	9/28/05	9/28/05	RAMP
American Crow	Alameda	Livermore	94550	9/30/05	9/30/05	RAMP
American Crow	Inyo	Bishop	93514	10/3/05	10/10/05	RT-PCR
American Crow	Inyo	Bishop	93514	10/3/05	10/10/05	RT-PCR
American Crow	Inyo	Independence	93526	9/28/05	10/10/05	RT-PCR
American Crow	Lake	Clearlake	95422	10/3/05	10/3/05	VecTest
American Crow	Los Angeles	Mission Hills	91345	10/3/05	10/10/05	RT-PCR
American Crow	Los Angeles	Newhall	91321	10/3/05	10/10/05	RT-PCR
American Crow	Los Angeles	West Hills	91307	9/29/05	10/10/05	RT-PCR
American Crow	Los Angeles	Canyon Country	91387	10/3/05	10/3/05	VecTest
American Crow	Los Angeles	Castaic	91384	10/5/05	10/5/05	VecTest
American Crow	Los Angeles	Encino	91316	9/20/05	9/20/05	VecTest
American Crow	Los Angeles	Newhall	91321	10/3/05	10/3/05	VecTest
American Crow	Los Angeles	North Hills	91343	9/29/05	9/29/05	VecTest
American Crow	Los Angeles	Santa Clarita	91351	10/5/05	10/5/05	VecTest
American Crow	Los Angeles	Santa Clarita	91355	10/6/05	10/6/05	VecTest
American Crow	Los Angeles	Santa Clarita	91354	10/5/05	10/5/05	VecTest
American Crow	Los Angeles	Santa Clarita	91350	9/28/05	9/28/05	VecTest
American Crow	Los Angeles	Santa Clarita	91355	9/28/05	9/28/05	VecTest
American Crow	Los Angeles	Santa Clarita	91351	9/28/05	9/28/05	VecTest
American Crow	Los Angeles	Santa Clarita	91354	10/4/05	10/4/05	VecTest
American Crow	Los Angeles	Valencia	91355	10/3/05	10/3/05	VecTest
American Crow	Merced	Merced	95340	9/29/05	10/10/05	RT-PCR
American Crow	Napa	Napa	94558	9/28/05	9/28/05	VecTest
American Crow	Napa	Napa	94558	9/28/05	9/28/05	VecTest
American Crow	Orange	Costa Mesa	92626	9/28/05	9/28/05	IHC
American Crow	Orange	Santa Ana	92705	9/28/05	9/28/05	IHC
American Crow	San Diego	Ramona	92065	10/4/05	10/10/05	RT-PCR
American Crow	San Diego	Alpine	91901	10/3/05	10/3/05	VecTest
American Crow	San Diego	Escondido	92026	10/3/05	10/3/05	VecTest

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American Crow	San Diego	Julian	92036	10/3/05	10/3/05	VecTest
American Crow	San Diego	Pacific Beach	92109	10/2/05	10/2/05	VecTest
American Crow	San Diego	Pauma Valley	92061	10/4/05	10/4/05	VecTest
American Crow	San Diego	Ramona	92065	10/4/05	10/4/05	VecTest
American Crow	San Diego	San Diego	92111	10/5/05	10/5/05	VecTest
American Crow	San Diego	Santee	92071	10/6/05	10/6/05	VecTest
American Crow	San Luis Obispo	Creston	93432	9/22/05	10/10/05	RT-PCR
American Crow	Santa Clara	Los gatos	95030	10/5/05	10/5/05	VecTest
American Crow	Santa Clara	San Jose	95120	9/12/05	9/12/05	VecTest
American Crow	Santa Clara	San Jose	95123	9/29/05	9/29/05	VecTest
American Crow	Santa Clara	San Jose	95129	9/30/05	9/30/05	VecTest
American Crow	Santa Clara	Saratoga	95070	9/29/05	9/29/05	VecTest
American Crow	Solano	Vallejo	94591	10/6/05	10/6/05	RAMP
American Crow	Sonoma	Windsor	95492	10/4/05	10/4/05	RAMP
American Crow	Ventura	Camarillo	93010	9/29/05	10/10/05	RT-PCR
American Crow	Ventura	Simi Valley	93065	9/26/05	10/10/05	RT-PCR
American Crow	Ventura	Ventura	93003	9/30/05	10/10/05	RT-PCR
Barn Owl	Alameda	Livermore	94550	9/21/05	10/10/05	RT-PCR
Common Raven	Los Angeles	West Hills	91307	10/3/05	10/3/05	VecTest
Domestic Turkey	Sonoma	Sebastopol	95472	9/27/05	10/10/05	RT-PCR
Fox Sparrow	Sonoma	Santa Rosa	95404	9/22/05	10/10/05	RT-PCR
Golden-crowned Sparrow	Alameda	Fremont	94539	9/22/05	10/10/05	RT-PCR
Goose	Sonoma	Sebastopol	95472	9/23/05	10/10/05	RT-PCR
Hermit Thrush	Contra Costa	Walnut Creek	94597	9/23/05	10/10/05	RT-PCR
House Finch	Amador	Jackson	95642	10/4/05	10/10/05	RT-PCR
Mourning Dove	Los Angeles	Chatsworth	91311	10/3/05	10/10/05	RT-PCR
Northern Mockingbird	Sonoma	Santa Rosa	95403	9/22/05	10/10/05	RT-PCR
Sharp-shinned Hawk	Humboldt	Arcata	95521	10/3/05	10/10/05	RT-PCR
Steller's Jay	Contra Costa	Oakley	94561	9/29/05	9/29/05	RAMP
Steller's Jay	Shasta	Cottonwood	96022	9/30/05	9/30/05	VecTest
Steller's Jay	Stanislaus	Turlock	95382	9/26/05	10/10/05	RT-PCR
Warbling Vireo	Marin	Mill Valley	94941	9/22/05	10/10/05	RT-PCR
Western Bluebird	Calaveras	Angels Camp	95222	9/26/05	10/10/05	RT-PCR
Western Screech Owl	Santa Clara	San Jose	95124	9/26/05	10/10/05	RT-PCR
Western Scrub-Jay	Amador	Jackson	95642	10/3/05	10/10/05	RT-PCR
Western Scrub-Jay	Calaveras	Copperopolis	95228	9/30/05	10/10/05	RT-PCR
Western Scrub-Jay	Contra Costa	Concord	94518	9/29/05	10/10/05	RT-PCR
Western Scrub-Jay	Contra Costa	Byron	94514	9/29/05	9/29/05	RAMP
Western Scrub-Jay	Contra Costa	Concord	94518	10/5/05	10/5/05	RAMP
Western Scrub-Jay	Contra Costa	Knightsen	94548	9/27/05	9/27/05	RAMP
Western Scrub-Jay	Contra Costa	Walnut Creek	94598	9/28/05	9/28/05	RAMP
Western Scrub-Jay	Contra Costa	Walnut Creek	94598	10/6/05	10/6/05	RAMP
Western Scrub-Jay	El Dorado	El Dorado Hills	95762	9/26/05	10/10/05	RT-PCR
Western Scrub-Jay	El Dorado	Placerville	95667	10/3/05	10/10/05	RT-PCR
Western Scrub-Jay	Napa	Saint Helena	94574	10/4/05	10/10/05	RT-PCR
Western Scrub-Jay	San Diego	Escondido	92027	9/29/05	10/10/05	RT-PCR
Western Scrub-Jay	San Diego	San Diego	92122	9/30/05	10/10/05	RT-PCR
Western Scrub-Jay	San Diego	El Cajon	92021	10/5/05	10/5/05	VecTest
Western Scrub-Jay	San Diego	Lakeside	92040	10/1/05	10/1/05	VecTest

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Western Scrub-Jay	San Diego	San Diego	92130	10/6/05	10/6/05	VecTest
Western Scrub-Jay	San Diego	Valley Center	92082	10/1/05	10/1/05	VecTest
Western Scrub-Jay	Santa Clara	San Jose	95120	9/30/05	9/30/05	VecTest
Western Scrub-Jay	Santa Clara	San Jose	95120	10/3/05	10/3/05	VecTest
Western Scrub-Jay	Sonoma	Cloverdale	95425	9/25/05	10/10/05	RT-PCR
Western Scrub-Jay	Sonoma	Forestville	95436	9/26/05	10/10/05	RT-PCR
Western Scrub-Jay	Sonoma	Geyserville	95441	9/26/05	10/10/05	RT-PCR
Western Scrub-Jay	Sonoma	Healdsburg	95448	10/3/05	10/3/05	RAMP
Western Scrub-Jay	Sonoma	Santa Rosa	95401	10/5/05	10/5/05	RAMP
Western Scrub-Jay	Stanislaus	Modesto	95351	10/4/05	10/10/05	RT-PCR
Western Scrub-Jay	Stanislaus	Ceres	95307	10/4/05	10/4/05	VecTest
Western Scrub-Jay	Tuolumne	Sonora	95370	9/27/05	10/10/05	RT-PCR
Wilson's Warbler	San Luis Obispo	San Luis Obispo	93405	9/23/05	10/10/05	RT-PCR
Yellow-billed Magpie	Merced	Winton	95388	9/29/05	10/10/05	RT-PCR
Yellow-billed Magpie	Stanislaus	Turlock	95380	10/5/05	10/5/05	VecTest
Yellow-billed Magpie	Stanislaus	Turlock	95380	10/3/05	10/3/05	VecTest

## National Comments:

As of October 12, 2005, West Nile virus (WNV) activity has been detected in 48 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 2,148 human WNV cases have been reported in 2005 from 42 states. At this time in 2004, 1,951 cases had been reported from 40 states and NYC. In 2005, of the 1,995 cases with available data, the median age is 51 years (range: 3 months-92 years) and 1,127 (56%) of the cases are male. Eight hundred twenty-three (41%) of the cases are neuroinvasive. There have been 59 reported WNV-related fatalities. The median age of the 55 decedents where data is available was 78 years (range: 44-96 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].*