

# California Arbovirus Surveillance Bulletin # 17

Week 24 Friday, June 11, 2008

## Weekly and Year-To-Date Summaries

### WEEKLY COMMENTS



#### Humans

No human cases have been reported in 2008.

#### Horses

No equine cases have been reported in 2008.

#### Dead Birds & Tree Squirrels

Thirty-three new West Nile virus (WNV) positive dead birds were reported this week from the following counties: Los Angeles (9), Orange (5), Riverside (1), San Diego (10), San Joaquin (1), Shasta (2), and Tulare (5). In 2008, 133 WNV positive dead birds have been detected in 18 counties.

No WNV positive tree squirrels have been reported in 2008.

#### Mosquito Pools

Ten new positive mosquito pools were reported this week from the following counties: Fresno (2), Kern (1), Los Angeles (4), San Joaquin (1), Santa Clara (1), and Tulare (1) counties. **This is the first indication of WNV activity in Fresno County this year.** In 2008, 33 WNV positive mosquito pools have been detected in nine counties.

#### Sentinel Chickens

No new seroconversions were reported this week. In 2008, two WNV seroconversions have been detected in chickens from Los Angeles County.

**Website Information:** For updated information on WNV in California, please visit the California WNV website, [www.westnile.ca.gov](http://www.westnile.ca.gov), or the California Vectorborne Disease Surveillance System website, [www.calsurv.org](http://www.calsurv.org). For national information on WNV and other arboviruses, please visit the CDC website, [www.cdc.gov](http://www.cdc.gov), and the USGS website, [www.westnilemaps.usgs.gov](http://www.westnilemaps.usgs.gov).

2007 & 2008 YTD West Nile Virus Comparisons		
	2007	2008
Total # Dead Bird Reports	9,698	9,875
# Positive Counties	12	19
# Human Cases/ # Tested	1 / 411	0 / 307
# Horse Cases/ # Tested	1 / 120	0 / n/a
# Positive Dead Birds/ # Tested	33 / 1,582	133 / 1,450
# Positive Mosquito Pools/ # Tested	18 / 5,393	33 / 5,465
# Positive Chicken Sera/ # Tested	2 / 9,391	2 / 9,571
# Positive Squirrels/ # Tested	0 / 44	0 / 46

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County	Humans*	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Butte			1			
Contra Costa			1	1		
El Dorado			1			
Fresno				2		
Kern			1	1		
Los Angeles			17	8	2	
Nevada			1			
Orange			40	2		
Riverside			2	16		
Sacramento			3			
San Bernardino			5			
San Diego			31			
San Joaquin			4	1		
San Mateo			1			
Santa Clara			3	1		
Shasta			5			
Stanislaus			2			
Sutter			1			
Tulare			14	1		
<b>Totals</b>	<b>0</b>	<b>0</b>	<b>133</b>	<b>33</b>	<b>2</b>	<b>0</b>

## 2008 TEST SUMMARIES

### Human & Horse Cases

		Number Tested	WNV		WEE		SLE		Other	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
<b>Humans Tested*</b>	Week	14	0	0	0	0	0	0	0	0
	YTD	307	0	0	0	0	0	0	0	0
<b>Horses Tested</b>	Week	0	0	0	0	0	0	0	0	0
	YTD	0	0	0	0	0	0	0	0	0

### Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
<b>Dead Birds</b>	Week	283	33
	YTD	1450	133
<b>Tree Squirrels</b>	Week	2	0
	YTD	46	0

### Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive
<b>Chicken Sera</b>	Week	1,002	0	0	0
	YTD	9,571	2	0	0
<b>Mosquito Pools: RT-PCR</b>	Week	569	10	0	0
	YTD	5,200	33	0	0
<b>Mosquito Pools: RAMP</b>	Week	131	0	N/A	N/A
	YTD	265	0	N/A	N/A

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## POSITIVES: 6/7/08 – 6/11/08

### Dead Birds

County	City	Zip	Species	Reported	Tested	Test Method
Los Angeles	La Mirada	90638	American Crow	5/27/08	6/9/08	RT-PCR
Los Angeles	Hacienda Heights	91745	American Crow	5/28/08	6/9/08	RT-PCR
Los Angeles	Monterey Park	91754	American Crow	6/2/08	6/9/08	RT-PCR
Los Angeles	Covina	91724	American Crow	6/2/08	6/9/08	RT-PCR
Los Angeles	Alhambra	91803	American Crow	6/3/08	6/4/08	RAMP
Los Angeles	San Gabriel	91775	American Crow	6/5/08	6/6/08	VecTest
Los Angeles	Beverly Hills	90211	American Crow	6/5/08	6/5/08	VecTest
Los Angeles	Newhall	91321	American Crow	6/5/08	6/5/08	VecTest
Los Angeles	Downey	90241	Common Raven	6/5/08	6/6/08	VecTest
Orange	Anaheim	92804	Western Scrub-Jay	6/5/08	6/5/08	RT-PCR
Orange	Anaheim	92804	American Crow	6/5/08	6/5/08	RT-PCR
Orange	Garden Grove	92841	American Crow	6/6/08	6/6/08	RT-PCR
Orange	Garden Grove	92841	American Crow	6/6/08	6/6/08	RT-PCR
Orange	Anaheim	92804	American Crow	6/6/08	6/6/08	RT-PCR
Riverside	Norco	92860	American Crow	6/3/08	6/9/08	RT-PCR
San Diego	El Cajon	92019	Common Raven	5/27/08	6/2/08	RT-PCR
San Diego	La Mesa	91941	American Crow	6/2/08	6/4/08	RT-PCR
San Diego	San Diego	92130	American Crow	6/2/08	6/4/08	RT-PCR
San Diego	San Diego	92130	American Crow	6/2/08	6/4/08	RT-PCR
San Diego	Encinitas	92024	American Crow	6/2/08	6/4/08	RT-PCR
San Diego	San Diego	92129	American Crow	6/2/08	6/4/08	RT-PCR
San Diego	Carlsbad	92011	American Crow	6/2/08	6/4/08	RT-PCR
San Diego	Vista	92081	American Crow	6/2/08	6/4/08	RT-PCR
San Diego	San Diego	92115	American Crow	6/3/08	6/4/08	RT-PCR
San Diego	Del Mar	92014	American Crow	6/4/08	6/4/08	RT-PCR
San Joaquin	Tracy	95376	American Crow	6/3/08	6/3/08	RAMP
Shasta	Palo Cedro	96073	Yellow-billed Magpie	6/9/08	6/9/08	RAMP
Shasta	Palo Cedro	96073	Yellow-billed Magpie	6/9/08	6/9/08	RAMP
Tulare	Visalia	93277	Starling	5/23/08	6/9/08	RT-PCR
Tulare	Visalia	93277	Western Scrub-Jay	5/28/08	6/9/08	RT-PCR
Tulare	Visalia	93277	Western Scrub-Jay	5/29/08	6/9/08	RT-PCR
Tulare	Visalia	93277	Western Scrub-Jay	5/30/08	6/9/08	RT-PCR
Tulare	Visalia	93292	House Sparrow	6/4/08	6/9/08	RT-PCR

### Mosquito Pools

Site Code	Pool #	Species	# in Pool	Collected	Tested	City	County	Virus
DLTA9402	18	Cx quinquefasciatus	15	6/4/2008	6/12/2008	Visalia	Tulare	WNV
FRNO0005	4	Cx tarsalis	18	5/21/2008	6/13/2008	Highway City	Fresno	WNV
FRWS0019	10	Cx tarsalis	50	5/28/2008	6/13/2008	Mendota	Fresno	WNV
GRLA2065	361	Cx quinquefasciatus	50	6/4/2008	6/13/2008	Gardena	Los Angeles	WNV
GRLA2771	371	Cx quinquefasciatus	18	6/4/2008	6/12/2008	Whittier	Los Angeles	WNV

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GRLA2774	363	Cx quinquefasciatus	21	6/4/2008	6/13/2008	Whittier	Los Angeles	WNV
KERN2031	105	Cx quinquefasciatus	30	6/6/2008	6/11/2008	Bakersfield	Kern	WNV
LACW1079	38	Cx erythrothorax	50	6/4/2008	6/13/2008	Playa Vista	Los Angeles	WNV
SJCM8100	159	Cx tarsalis	50	6/10/2008	6/10/2008	Tracy	San Joaquin	WNV
STCL594	534	Cx pipiens	6	5/29/2008	5/29/2008	San Jose	Santa Clara	WNV

## NATIONAL COMMENTS

As of June 9, 2008, 8 human cases have been reported nationwide this year in Arizona (1), Mississippi (3), Oklahoma (1), Tennessee (1), and Texas (2). None of the cases have resulted in fatalities. In addition, Alabama, California, Florida, Illinois, Indiana, Louisiana, South Carolina, and Utah have reported non-human WNV activity. At this time last year, 6 human cases had been reported nationwide.

## TEST PROTOCOLS

### **Humans:**

Specimens are tested by local laboratories with an IgM or IgG immunofluorescent assay (IFA) and/or an IgM enzyme immunoassay (EIA). Specimens with inconclusive results are forwarded to the California Department of Public Health Viral and Rickettsial Disease Laboratory (VRDL) for further testing or confirmation by plaque reduction neutralization test (PRNT).

\*Human denominator data only includes specimens tested at VRDL and does not include additional negative specimens that are tested by local agencies only.

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### **Horses:**

Serum or brain tissue specimens from horses displaying neurological symptoms are submitted to the California Animal Health and Safety Laboratory (CAHFS) and tested by EIA and PRNT.

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### **Dead Birds and Tree Squirrels:**

All bird and tree squirrel species from all zip codes are currently being accepted for testing unless otherwise requested by a local agency. Additionally, once WNV has been detected within a county, doves, pigeons, and chickens will no longer be accepted for testing from that county. Corvids that test positive via RAMP or VecTest are no longer confirmed. Dead birds and squirrels are necropsied at CAHFS laboratory at University of California, Davis. Oral swabs from American Crows and kidney tissue from all other dead birds and squirrels are forwarded to the UC Davis Center for Vectorborne Diseases (CVEC) for WNV testing using the singleplex RT-PCR Taqman assay and confirmed with a second primer set. The WNV Dead Bird Surveillance Coordinator, Erin Parker, can be reached directly at (510) 412-6254.

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### **Sentinel Chickens:**

Dried blood spot specimens from sentinel chickens are submitted to VBDS Laboratory and 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. Positive samples are confirmed by western-blot or PRNT.

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### **Mosquito Pools:**

Mosquito pools are submitted to CVEC and 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), California Department of Public Health, 850 Marina Bay Parkway, Richmond, CA 94804. Questions concerning this bulletin should be addressed to Tina Feiszli by phone (510) 412-6298, FAX (510) 412-6263, or email: [tina.feiszli@cdph.ca.gov](mailto:tina.feiszli@cdph.ca.gov)

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