

## California Arbovirus Surveillance Bulletin #13

Week 21 Friday, May 29, 2015



### Weekly Update

#### **Humans**

No human infections have been reported in 2015.

#### **Dead Birds**

Ten West Nile virus (WNV) positive dead birds were reported this week from San Diego (6), Santa Clara (3), and Solano (1) counties. **This is the first indication of WNV activity in Solano County this year.** To date this year, 49 birds have tested positive for WNV from eight counties. At this time last year, 33 WNV positive birds had been detected in nine counties.

#### **Mosquito Pools**

A total of 15 WNV positive mosquito pools were reported this week from Orange (2), Riverside (5), and Tulare (8) counties. **This is the first detection of WNV activity in Orange County in 2015.** To date this year, 40 WNV positive mosquito pools have been reported from six counties. At this time last year, 18 WNV positive mosquito pools had been detected from five counties.

#### **Sentinel Chickens**

No seroconversions have been reported in 2015.

2014 & 2015 YTD West Nile Virus Comparisons		
	2014	2015
Total # Dead Bird Reports	2,258	3,194
# Positive Counties	7	12
# Human Cases	0	0
# Positive Dead Birds / # Tested	33 / 313	49 / 565
# Positive Mosquito Pools / # Tested	18 / 3,283	40 / 4,932
# Seroconversions / # Tested	1 / 2,857	0 / 2,515

*Website Information:* For updated information on WNV in California, please visit the California WNV website, [www.westmile.ca.gov](http://www.westmile.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.westmilemaps.usgs.gov](http://www.westmilemaps.usgs.gov)

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YTD Activity by Element and County, 2015				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		1		
Los Angeles			2	
Orange			2	
Riverside		1	12	
San Diego		28	1	
San Mateo		2		
Santa Barbara			1	
Santa Clara		13		
Solano		1		
Sonoma		2		
Stanislaus		1		
Tulare			22	
<b>Totals</b>	<b>0</b>	<b>49</b>	<b>40</b>	<b>0</b>

### TESTING SUMMARIES

#### Humans

		WNV	SLE	WEE
Human Cases	Week	0	0	0
	YTD	0	0	0

#### Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	43	10
	YTD	565	49

#### Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	402	0	0	0
	YTD	2,515	0	0	0
Mosquito Pools	Week	815	15	0	0
	YTD	4,932	40	0	0

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## NEW POSITIVES

### Dead Birds

County	Agency	City	Zip	Species	Reported	Virus
San Diego	San Diego Co VCP	Chula Vista	91914	American Crow	5/26/2015	WNV
San Diego	San Diego Co VCP	La Mesa	91941	American Crow	5/26/2015	WNV
San Diego	San Diego Co VCP	La Mesa	91941	American Crow	5/26/2015	WNV
San Diego	San Diego Co VCP	La Mesa	91941	American Crow	5/26/2015	WNV
San Diego	San Diego Co VCP	Oceanside	92058	American Crow	5/27/2015	WNV
San Diego	San Diego Co VCP	Spring Valley	91977	American Crow	5/27/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94024	American Crow	5/21/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94024	Common Raven	5/27/2015	WNV
Santa Clara	Santa Clara Co VCD	Milpitas	95035	American Crow	5/27/2015	WNV
Solano	Solano Co MAD	Vallejo	94591	American Crow	5/27/2015	WNV

### Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Orange	ORCO1021	1007	Cx. quinquefasciatus	Tustin	41	GRVD	5/13/2015	WNV
Orange	ORCO1021	1008	Cx. quinquefasciatus	Tustin	48	GRVD	5/13/2015	WNV
Riverside	COAV3111	1357	Cx. quinquefasciatus	Indio	50	CO2	5/22/2015	WNV
Riverside	COAV3111	1360	Cx. quinquefasciatus	Indio	50	GRVD	5/22/2015	WNV
Riverside	COAV3111	1364	Cx. quinquefasciatus	Indio	43	CO2	5/22/2015	WNV
Riverside	COAV3111	1406	Cx. quinquefasciatus	Indio	50	GRVD	5/28/2015	WNV
Riverside	COAV3111	1415	Cx. quinquefasciatus	Indio	50	GRVD	5/28/2015	WNV
Tulare	DLTA6407	222	Cx. quinquefasciatus	Dinuba	12	GRVD	5/27/2015	WNV
Tulare	DLTA6519	223	Cx. quinquefasciatus	Cutler	45	GRVD	5/27/2015	WNV
Tulare	DLTA8324	224	Cx. quinquefasciatus	Goshen	9	GRVD	5/27/2015	WNV
Tulare	DLTA8413	201	Cx. quinquefasciatus	Visalia	22	GRVD	5/27/2015	WNV
Tulare	DLTA8423	202	Cx. quinquefasciatus	Visalia	37	GRVD	5/27/2015	WNV
Tulare	DLTA8425	205	Cx. quinquefasciatus	Visalia	50	GRVD	5/27/2015	WNV
Tulare	DLTA8425	206	Cx. quinquefasciatus	Visalia	50	GRVD	5/27/2015	WNV
Tulare	DLTA8532	194	Cx. quinquefasciatus	Visalia	43	GRVD	5/22/2015	WNV

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### 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.

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#### **Dead Birds**

Oral swab samples from corvids are collected onto RNA preservation cards and tested by the UC Davis Center for Vectorborne Diseases (CVEC) for West Nile virus by the singleplex RT-PCR Taqman assay and confirmed with a second primer set. Some local agencies test birds using the RAMP© test or conduct RT-PCR on tissue samples.

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#### **Sentinel Chickens:**

Dried blood spot specimens from sentinel chickens are submitted to the California Department of Public Health Vector-Borne Disease Laboratory and tested for the presence of antibodies to West Nile, western equine encephalomyelitis, and St. Louis encephalitis viruses by EIA. Positive samples are confirmed by IFA, western-blot, or PRNT.

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#### **Mosquito Pools:**

Mosquito pools are submitted to CVEC and screened for West Nile, western equine encephalomyelitis, and St. Louis encephalitis viral RNA using a Taqman multiplex RT-PCR. CVEC no longer performs confirmatory 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) 412-6253 or email: [tina.feiszli@cdph.ca.gov](mailto:tina.feiszli@cdph.ca.gov).*