Week 23 Friday, June 12, 2015



## **Weekly Update**

#### Humans

No human infections have been reported in 2015.

### **Dead Birds**

Eight West Nile virus (WNV) positive dead birds were reported this week from the following five counties: Marin (1), Sacramento (1), San Diego (3), Santa Clara (1) and Stanislaus (2). **This is the first detection of WNV activity in Marin and Sacramento counties this year**. In 2015, 58 birds have tested positive for WNV from ten counties. At this time last year, 74 WNV positive birds had been detected in 11 counties.

## **Mosquito Pools**

A total of 18 WNV positive mosquito pools were reported this week from the following six counties: Fresno (1), Kern (1), Orange (1), Riverside (8), Tulare (6), and Yolo (1). **This is the first detection of WNV activity in Fresno, Kern, and Yolo counties this year.** In 2015, 84 WNV positive mosquito pools have been reported from 10 counties. At this time last year, 37 WNV positive mosquito pools had been detected from 10 counties.

#### **Sentinel Chickens**

One WNV seroconversion was reported this week from a flock located in Placer County. This is the first WNV positive chicken detected in California this year, and the first detection of WNV activity in Placer County in 2015. At this time last year, one WNV seroconversion had been reported from one county (Los Angeles).

2014 & 2015 YTD West Nile Virus Comparisons							
	2014	2015					
Total # Dead Bird Reports	2,958	3,847					
# Positive Counties	13	19					
# Human Cases	0	0					
# Positive Dead Birds / # Tested	74 / 501	61 / 797					
# Positive Mosquito Pools / # Tested	37 / 5,036	84 / 7,449					
# Seroconversions / # Tested	1 / 3,859	1 / 3,749					

Website Information: For updated information on WNV in California, please visit the California WNV website, <a href="https://www.westnile.ca.gov">www.westnile.ca.gov</a>, or the California Vectorborne Disease Surveillance System website, <a href="https://www.calsurv.org">www.calsurv.org</a>. For national information on WNV and other arboviruses, please visit the CDC website, <a href="https://www.cdc.gov">www.cdc.gov</a>, and the USGS website, <a href="https://www.westnilemaps.usgs.gov">www.westnilemaps.usgs.gov</a>

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YTD Activity by Element and County, 2015								
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens				
Alameda		2						
Fresno			1					
Kern			1					
Kings			4					
Los Angeles			2					
Marin		1						
Orange			4					
Placer				1				
Riverside		2	24					
Sacramento		1						
San Diego		31	2					
San Mateo		2						
Santa Barbara			1					
Santa Clara		15						
Solano		1						
Sonoma		2						
Stanislaus		3						
Tulare		1	44					
Yolo			1					
Totals	0	61	84	1				

# **TESTING SUMMARIES**

### Humans

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

### **Dead Birds**

		Number Tested	WNV Positive
Dead	Week	58	8
Birds	YTD	797	61

## Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	704	1	0	0
	YTD	3,749	1	0	0
Mosquito Pools	Week	1,197	18	0	0
	YTD	7,449	84	0	0

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# **NEW POSITIVES**

## **Dead Birds**

County	Agency	City	Zip	Species	Reported	Virus
Marin	Marin-Sonoma MVCD	Novato	94949	American Crow	6/9/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Isleton	95641	American Crow	6/8/2015	WNV
San Diego	San Diego Co VCP	Lemon Grove	91945	American Crow	6/3/2015	WNV
San Diego	San Diego Co VCP	Oceanside	92054	American Crow	6/8/2015	WNV
San Diego	San Diego Co VCP	San Diego	92101	American Crow	6/2/2015	WNV
Santa Clara	Santa Clara Co VCD	Cupertino	95014	American Crow	6/3/2015	WNV
Stanislaus	Turlock MAD	Modesto	95356	American Crow	6/7/2015	WNV
Stanislaus	Turlock MAD	Modesto	95356	Western Scrub-Jay	6/9/2015	WNV

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Тгар Туре	Collected	Virus
Fresno	CNSL6124	295	Cx. quinquefasciatus	Riverdale	50	GRVD	6/9/2015	WNV
Kern	KERN121	87	Cx. quinquefasciatus	Bakersfield	50	GRVD	6/4/2015	WNV
Orange	ORCO1020	1238	Cx. quinquefasciatus	Seal Beach	40	GRVD	6/3/2015	WNV
Riverside	COAV3112	1599	Cx. quinquefasciatus	Indio	50	GRVD	6/9/2015	WNV
Riverside	COAV3112	1604	Cx. quinquefasciatus	Indio	50	GRVD	6/9/2015	WNV
Riverside	COAV3112	1606	Cx. quinquefasciatus	Indio	15	CO2	6/9/2015	WNV
Riverside	COAV3112	1609	Cx. quinquefasciatus	Indio	14	CO2	6/9/2015	WNV
Riverside	COAV3112	1672	Cx. quinquefasciatus	Indio	50	GRVD	6/11/2015	WNV
Riverside	COAV3112	1673	Cx. quinquefasciatus	Indio	50	GRVD	6/11/2015	WNV
Riverside	COAV3112	1674	Cx. quinquefasciatus	Indio	32	GRVD	6/11/2015	WNV
Riverside	COAV3112	1675	Cx. quinquefasciatus	Indio	21	GRVD	6/11/2015	WNV
Tulare	DLTA8529	306	Cx. quinquefasciatus	Visalia	40	GRVD	6/9/2015	WNV
Tulare	DLTA8529	329	Cx. quinquefasciatus	Visalia	50	GRVD	6/11/2015	WNV
Tulare	DLTA8530	305	Cx. quinquefasciatus	Visalia	34	GRVD	6/9/2015	WNV
Tulare	DLTA9401	318	Cx. quinquefasciatus	Visalia	22	GRVD	6/10/2015	WNV
Tulare	DLTA9401	319	Cx. quinquefasciatus	Visalia	32	GRVD	6/10/2015	WNV
Tulare	DLTA9505	314	Cx. quinquefasciatus	Visalia	12	GRVD	6/9/2015	WNV
Yolo	SAYO136010	981	Cx. pipiens	Woodland	45	CO2	6/11/2015	WNV

## **Sentinel Chickens**

County	Site Code	City	Date Bled	Virus	Band 01
Placer	PLCR0756	Roseville	6/4/2015	WNV	2682

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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.

#### **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.

#### **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.

#### **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.

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: <a href="mailto:tina.feiszli@cdph.ca.gov">tina.feiszli@cdph.ca.gov</a>.