

California Arbovirus Surveillance Bulletin #2

Week 15 Friday, April 13, 2018



Weekly Update

Humans

No human infections have been reported in 2018.

Dead Birds

No positive dead birds were reported this week. In 2018, a total of 4 West Nile virus (WNV) positive dead birds have been reported from 2 counties. At this time last year, 3 WNV positive dead birds had been reported from 3 counties.

Note: The WNV and Dead Bird Hotline will begin taking live calls on April 16. The public can report dead birds via the hotline (877-WNV-BIRD) or website (www.westnile.ca.gov).

Mosquito Pools

No positive mosquito pools have been reported in 2018.

Sentinel Chickens

No seroconversions have been reported in 2018.

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YTD WNV Activity by Element and County, 2018				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
San Mateo		2		
Santa Clara		2		
Totals	0	4	0	0

2017 & 2018 YTD West Nile Virus Comparisons		
	2017	2018
Total # Dead Bird Reports	797	618
# Positive Counties	3	2
# Human Cases	0	0
# Positive Dead Birds / # Tested	3 / 80	4 / 122
# Positive Mosquito Pools / # Tested	0 / 2,866	0 / 1,247
# Seroconversions / # Tested	0 / 64	0 / 186

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	23	0
	YTD	122	4

Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	116	0	0	0
	YTD	186	0	0	0

Mosquitoes

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Mosquito Pools	Week	0 / 367	0 / 367	0 / 367	0 / 0	0 / 0	0 / 0
	YTD	0 / 1,247	0 / 1,247	0 / 1,247	0 / 14	0 / 14	0 / 14

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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 with a plaque reduction neutralization test (PRNT).

Dead Birds

Oral swab samples collected from bird carcasses are tested at the UC Davis Arbovirus Research and Training laboratory (DART) or at a local agency for West Nile virus by RT-qPCR.

Sentinel Chickens:

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

Mosquito Pools:

Mosquito pools are tested at DART or at a local agency for West Nile, western equine encephalomyelitis, and St. Louis encephalitis viral RNA using a multiplex RT-qPCR. Invasive *Aedes* mosquitoes (*Ae. aegypti* and *Ae. albopictus*) are also tested at DART for chikungunya, dengue, and Zika viral RNA by a separate RT-qPCR.
