

California Arbovirus Surveillance Bulletin #12

Week 20 Friday, May 22, 2015



Weekly Update

Humans

No human infections have been reported in 2015.

Dead Birds

Twenty-one West Nile virus (WNV) positive dead birds were reported this week from Riverside (1), San Diego (16), and Santa Clara (4) counties. This is the first WNV positive dead bird in Riverside County this year. To date this year, 39 birds have tested positive for WNV from seven counties. At this time last year, 18 WNV positive birds had been detected in seven counties.

Mosquito Pools

Eight WNV positive mosquito pools were reported this week from Los Angeles (1), Riverside (4), and Tulare (3) counties. To date this year, 25 WNV positive mosquito pools have been reported from five counties. At this time last year, seven WNV positive mosquito pools had been detected from three counties.

Sentinel Chickens

No seroconversions have been reported in 2015.

2014 & 2015 YTD West Nile Virus Comparisons		
	2014	2015
Total # Dead Bird Reports	1,855	2,865
# Positive Counties	7	10
# Human Cases	0	0
# Positive Dead Birds / # Tested	18 / 219	39 / 522
# Positive Mosquito Pools / # Tested	7 / 2,481	25 / 4,117
# Seroconversions / # Tested	1 / 2,050	0 / 2,113

Website Information: For updated information on WNV in California, please visit the California WNV website, www.westnile.ca.gov, or the California Vectorborne Disease Surveillance System website, www.calsurv.org. For national information on WNV and other arboviruses, please visit the CDC website, www.cdc.gov, and the USGS website, www.westnilemaps.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	
Riverside		1	7	
San Diego		22	1	
San Mateo		2		
Santa Barbara			1	
Santa Clara		10		
Sonoma		2		
Stanislaus		1		
Tulare			14	
Totals	0	39	25	0

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	126	21
	YTD	522	39

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	426	0	0	0
	YTD	2,113	0	0	0
Mosquito Pools	Week	501	8	0	0
	YTD	4,117	25	0	0

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NEW POSITIVES

Dead Birds

County	Agency	City	Zip	Species	Reported	Virus
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	5/4/2015	WNV
San Diego	San Diego Co VCP	El Cajon	92020	American Crow	5/15/2015	WNV
San Diego	San Diego Co VCP	El Cajon	92020	American Crow	5/19/2015	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	5/20/2015	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	5/20/2015	WNV
San Diego	San Diego Co VCP	Lakeside	92040	American Crow	5/12/2015	WNV
San Diego	San Diego Co VCP	Lakeside	92040	American Crow	5/14/2015	WNV
San Diego	San Diego Co VCP	Lakeside	92040	American Crow	5/14/2015	WNV
San Diego	San Diego Co VCP	Lemon Grove	91945	American Crow	5/13/2015	WNV
San Diego	San Diego Co VCP	Lemon Grove	91945	American Crow	5/13/2015	WNV
San Diego	San Diego Co VCP	San Diego	92114	American Crow	5/10/2015	WNV
San Diego	San Diego Co VCP	San Diego	92114	American Crow	5/11/2015	WNV
San Diego	San Diego Co VCP	San Diego	92117	American Crow	5/19/2015	WNV
San Diego	San Diego Co VCP	San Diego	92123	American Crow	5/13/2015	WNV
San Diego	San Diego Co VCP	Santee	92071	American Crow	5/8/2015	WNV
San Diego	San Diego Co VCP	Spring Valley	91977	American Crow	5/14/2015	WNV
San Diego	San Diego Co VCP	Spring Valley	91977	American Crow	5/18/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95120	American Crow	5/19/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95131	American Crow	5/19/2015	WNV
Santa Clara	Santa Clara Co VCD	Santa Clara	95050	American Crow	5/19/2015	WNV
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	5/19/2015	WNV

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Los Angeles	GRLA3056	160	Cx. quinquefasciatus	Cudahy	41	GRVD	5/14/2015	WNV
Riverside	COAV311	1252	Cx. quinquefasciatus	Indio	6	CO2	5/14/2015	WNV
Riverside	COAV311	1332	Cx. quinquefasciatus	Indio	17	GRVD	5/20/2015	WNV
Riverside	COAV311	1333	Cx. quinquefasciatus	Indio	23	GRVD	5/20/2015	WNV
Riverside	COAV6	1306	Cx. tarsalis	Mecca	10	CO2	5/19/2015	WNV
Tulare	DLTA8532	178	Cx. quinquefasciatus	Visalia	24	GRVD	5/20/2015	WNV
Tulare	DLTA8534	173	Cx. quinquefasciatus	Visalia	22	GRVD	5/20/2015	WNV
Tulare	DLTA9504	172	Cx. quinquefasciatus	Visalia	10	GRVD	5/19/2015	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.

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.

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