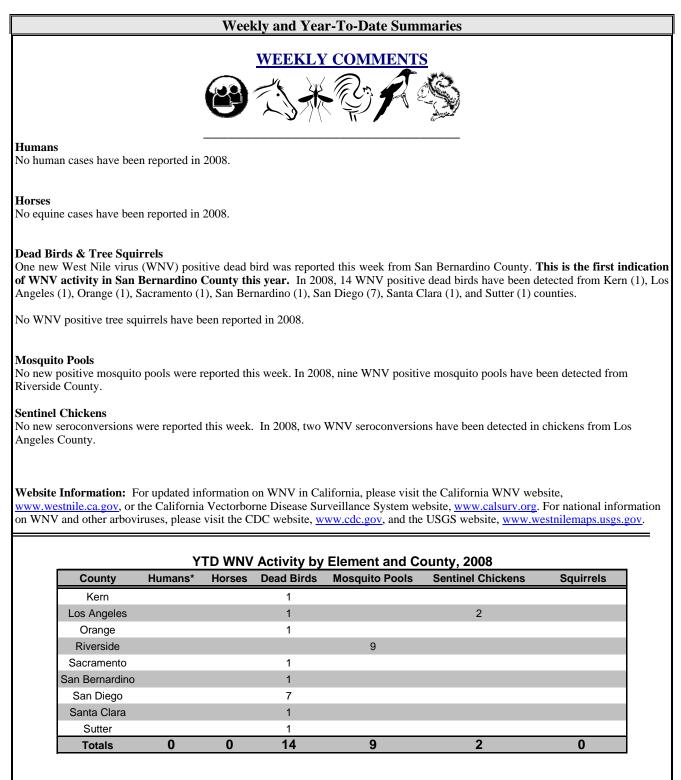
California Arbovirus Surveillance Bulletin # 13

Week 20 Friday, May 16, 2008



California Arbovirus Surveillance Bulletin # 13

Week 20 Friday, May 16, 2008

2008 & 2007 YTD West Nile Virus Comparisons					
	2008	2007			
Total # Dead Bird Reports	5,454	6,426			
# Positive Counties	9	9			
# Human Cases/ # Tested	0 / 250	1* / 331			
# Horse Cases/ # Tested	0 / 0	1 / 95			
# Positive Dead Birds/ # Tested	14 / 747	22 / 1,144			
# Positive Mosquito Pools/ # Tested	9 / 2,692	2 / 3,099			
# Positive Chicken Sera/ # Tested	2 / 5,629	2 / 5,688			
# Positive Squirrels/ # Tested	0 / 30	0 / 35			
*Total adjusted to include a 2007 human case reported in 2008					

2008 TEST SUMMARIES

Human & Horse Cases

			Number Tested	WNV		WEE		SLE		Other	
			resteu	Imported	Local	Imported	Local	Imported	Local	Imported	Local
Hu	mans Tested*	Week	26	0	0	0	0	0	0	0	0
		YTD	250	0	0	0	0	0	0	0	0
н	orses Tested	Week	0	0	0	0	0	0	0	0	0
Tiorses resteu	YTD	0	0	0	0	0	0	0	0	0	

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead	Week	61	1
Birds	YTD	747	14
Tree	Week	2	0
Squirrels	YTD	30	0

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive
Chicken Sera	Week	1,003	0	0	0
onionon oonu	YTD	5,629	2	0	0
Mosquito Pools:	Week	432	0	0	0
RT-PCR	YTD	2,658	9	0	0
Mosquito Pools:	Week	6	0	N/A	N/A
RAMP	YTD	34	0	N/A	N/A

POSITIVES: 5/12/08 - 5/16/08

Dead Birds

County	City	Zip Code	Species	Reported	Tested	Test Method
San Bernardino	Ontario	91764	American Crow	5-9-08	5-9-08	RT-PCR

California Arbovirus Surveillance Bulletin # 13

Week 20 Friday, May 16, 2008

NATIONAL COMMENTS

No New Update. As of May 6, 2008, 4 human cases have been reported nationwide this year in Arizona (1), Mississippi (2), and Tennessee (1). None of the cases have resulted in fatalities. In addition, Alabama, California, Florida, and South Carolina have reported non-human WNV activity.

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.

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.

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.

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.

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.

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: <u>tina.feiszli@cdph.ca.gov</u>