Week 20 Friday, May 22, 2009

Weekly Summary

WEEKLY COMMENTS



Human

No human cases have been reported in 2009.

Horses

No equine cases have been reported in 2009.

Dead Birds & Tree Squirrels

One West Nile virus (WNV) positive dead bird from San Diego County was reported this week. To date this year, 12 birds have tested positive for WNV from four counties.

No WNV positive tree squirrels have been reported this year.

Mosquito Pools

CVEC reported 12 new WNV positive mosquito pools from Fresno (10) and Riverside (2) counties this week. **This is the first indication of WNV activity in Riverside County this year.** In 2009, 38 mosquito pools have tested positive for WNV from five counties.

Sentinel Chickens

No seroconversions were reported this week. In 2009, three chickens from Los Angeles County have tested positive for WNV.

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.

YTD WNV Activity by Element and County, 2009

County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Contra Costa				11		
Fresno			2	11		
Los Angeles			1	1	3	
Orange			2			
Riverside				2		
San Diego			7			
Santa Clara				13		
Total	0	0	12	38	3	0

Week 20 Friday, May 22, 2009

2009 & 2008 YTD West Nile Virus Comparisons								
	2008	2009						
Total # Dead Bird Reports	5,454	4,449						
# Positive Counties	9	7						
# Human Cases/ # Tested	0 / 250	0 / 326						
# Horse Cases/ # Tested	0/0	0 / 72						
# Positive Dead Birds/ # Tested	14 / 747	12 / 650						
# Positive Mosquito Pools/ # Tested	9 / 2,692	38 / 3,946						
# Positive Chicken Sera/ # Tested	2 / 5,629	3 / 4,923						
# Positive Squirrels/ # Tested	0/30	0 / 18						

2009 TEST SUMMARIES

Human & Horse Cases

		Number	WNV		WEE		SLE		Other	
		Tested	Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested*	Week	8	0	0	0	0	0	0	0	0
	YTD	326	0	0	0	0	0	0	0	0
Horses Tested	Week	6	0	0	0	0	0	0	0	0
norses resteu	YTD	72	0	0	0	0	0	0	0	0

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive	
Dead Birds	Week	114	1	
	YTD	650	12	
Tree Squirrels	Week	1	0	
	YTD	18	0	

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive
Chicken Sera	Week	658	0	0	0
Omonon Coru	YTD	4,923	3	0	0
Mosquito Pools: RT-PCR	Week	880	12	0	0
III I GII	YTD	3,742	14	0	0
Mosquito Pools:	Week	41	0	N/A	N/A
RAMP	YTD	204	24	N/A	N/A

Week 20 Friday, May 22, 2009

POSITIVES

Dead Birds

County	City	Zip	Species	Reported	Tested	Virus
San Diego	La Mesa	94941	Red-Shouldered Hawk	4/7/09	5/18/09	WNV

Mosquitoes

County	Site Code	Pool #	# in Pool	Species	Collected	Tested	City	Virus
County	Site Code	P001#	Pool	Species	Collected	restea	City	virus
Fresno	CNSL1624	35	50	Cx quinquefasciatus	5/19/2009	5/20/2009	Fresno	WNV
Fresno	CNSL1627	36	50	Cx quinquefasciatus	5/19/2009	5/20/2009	Fresno	WNV
Fresno	CNSL1629	37	50	Cx quinquefasciatus	5/19/2009	5/20/2009	Fresno	WNV
Fresno	CNSL1630	38	50	Cx quinquefasciatus	5/19/2009	5/20/2009	Fresno	WNV
Fresno	CNSL1623	39	50	Cx quinquefasciatus	5/19/2009	5/20/2009	Fresno	WNV
Fresno	CNSL1624	42	50	Cx quinquefasciatus	5/19/2009	5/20/2009	Fresno	WNV
Fresno	CNSL1630	43	50	Cx quinquefasciatus	5/19/2009	5/20/2009	Fresno	WNV
Fresno	CNSL1630	44	50	Cx quinquefasciatus	5/19/2009	5/20/2009	Fresno	WNV
Fresno	CNSL1629	46	49	Cx quinquefasciatus	5/19/2009	5/20/2009	Fresno	WNV
Fresno	CNSL1628	47	50	Cx tarsalis	5/19/2009	5/20/2009	Fresno	WNV
Riverside	RIVR0019	92	50	Cx erythrothorax	5/20/2009	5/21/2009	Murietta	WNV
Riverside	RIVR0019	93	50	Cx erythrothorax	5/20/2009	5/21/2009	Murietta	WNV

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:

Dead birds and tree 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 West Nile virus 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 the California Department of Public Health Vector-Borne Disease Laboratory and tested for the presence of antibodies to West Nile, western equine encephalomyelitis (WEE), and St. Louis encephalitis (SLE) viruses by EIA and IFA. Positive samples are confirmed by western-blot or PRNT.

Week 20 Friday, May 22, 2009

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 or email: tina.feiszli@cdph.ca.gov