

California Arbovirus Surveillance Bulletin # 26

Week 31 Monday, August 10, 2009

Weekly Summary

WEEKLY COMMENTS



As of August 7, 2009, 34 counties have reported West Nile virus (WNV) activity. At this time last year, 30 counties had reported WNV activity.

Humans

As of August 7, 2009, 5 cases of West Nile virus have been reported from the following 4 counties: Contra Costa (1), Kern (2), Orange (1), and San Diego (1). Of the 5 cases, 3 (60%) developed neuroinvasive symptoms. The median age of the cases is 66 years (range: 44-76 years), and 2 (40%) are male. No fatalities have been reported. In addition, 2 WNV-positive blood donation samples have been reported this year; both blood donors have remained asymptomatic. At this time last year, 29 human cases had been reported in California from 7 counties.

Horses

Two new equine cases of WNV were reported last week from San Joaquin and Stanislaus counties; symptom onset was 8/1/09 and 7/30/09, respectively. To date this year, 3 horses from 2 counties have been diagnosed with WNV infection; 2 of the cases have been euthanized as a result of their illness. At this time last year, 4 equine WNV cases had been reported from 3 counties.

Dead Birds & Tree Squirrels

Last week, 31 WNV positive dead birds were reported from 16 counties: Alameda (1), Contra Costa (2), El Dorado (1), Fresno (2), Kern (1), Kings (1), Los Angeles (4), Madera (2), Monterey (1), Orange (1), Sacramento (2), San Bernardino (3), San Joaquin (1), Santa Clara (2), Stanislaus (3), and Tulare (4). This is the first detection of WNV activity in Monterey County this year. In 2009, 271 birds from 32 counties have tested positive for WNV. At this time last year, 808 WNV positive dead birds had been reported from 27 counties.

No positive tree squirrels were reported last week. In 2009, one tree squirrel from Fresno County has tested positive for WNV. At this time last year, 5 WNV positive tree squirrels had been reported from 2 counties.

Mosquito Pools

Last week, 96 WNV positive mosquito pools were reported from the following 13 counties: Contra Costa (2), Fresno (8), Kern (23), Kings (15), Los Angeles (2), Madera (1), Orange (1), Placer (3), San Bernardino (2), San Joaquin (13), Stanislaus (6), Sutter (1), and Tulare (19). In 2009, 388 mosquito pools have tested positive for WNV from 18 counties. At this time last year, 604 WNV positive mosquito pools had been reported from 22 counties.

Sentinel Chickens

Eight WNV seroconversions were reported last week from the following 4 counties: Imperial (1), Los Angeles (3), Riverside (1), and San Bernardino (3). These the first WNV positive chickens detected in Riverside and San Bernardino counties this year. In 2009, 32 chickens from 9 counties have tested positive for WNV antibodies. At this time last year, 31 WNV seroconversions had been reported from 6 counties.

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 WNV Activity by Element and County, 2009

County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Alameda			8			
Butte			5			
Colusa			2			
Contra Costa	1		15	16	1	
El Dorado			3			
Fresno			51	87		1
Imperial				1	5	
Kern	2		24	69	5	
Kings			9	44		
Lake			1			
Los Angeles			42	8	13	
Madera			9	2		
Merced			2			
Modoc			1			
Monterey			1			
Orange	1		6	2		
Placer			3	4		
Riverside			1	6	1	
Sacramento			10	9	1	
San Bernardino			7	7	3	
San Diego	1		14		2	
San Francisco			1			
San Joaquin		2	11	46		
San Mateo			1			
Santa Barbara			1			
Santa Clara			10	14		
Santa Cruz			1			
Shasta			6			
Stanislaus		1	11	14		
Sutter				7		
Tulare			12	48		
Tuolumne			1			
Ventura			1			
Yolo			1	4	1	
Total	5	3	271	388	32	1

2009 & 2008 YTD West Nile Virus Comparisons		
	2008	2009
Total # Dead Bird Reports	19,727	11,023
# Positive Counties	30	34
# Human Cases / # Tested	29 / 497	5 / 575
# Horse Cases / # Tested	4 / 158	3 / 120
# Positive Dead Birds / # Tested	808 / 3,148	271 / 1,830
# Positive Mosquito Pools / # Tested	604 / 14,858	388 / 15,143
# Positive Chicken Sera / # Tested	31 / 16,414	32 / 14,504
# Positive Squirrels / # Tested	5 / 100	1 / 60

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TEST SUMMARIES

Human & Horse Cases

		Number Tested	WNV		WEE		SLE		Other	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested*	Week	25	0	4	0	0	0	0	0	0
	YTD	575	1	4	0	0	0	0	0	0
Horses Tested	Week	2	0	2	0	0	0	0	0	0
	YTD	120	0	3	0	0	0	0	0	0

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead Birds	Week	91	31
	YTD	1,830	271
Tree Squirrels	Week	2	0
	YTD	60	1

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	SLE Positive	WEE Positive
Chicken Sera	Week	887	8	0	0
	YTD	14,504	32	0	0
Mosquito Pools: RT-PCR	Week	969	91	0	0
	YTD	14,669	357	0	0
Mosquito Pools: RAMP	Week	81	5	N/A	N/A
	YTD	474	31	N/A	N/A

POSITIVES

Dead Birds & Tree Squirrels

County	City	Zip Code	Species	Reported	Tested	Virus	Method
Alameda	Livermore	94551	Western Scrub-Jay	7/23/09	8/3/09	WNV	RT-PCR
Contra Costa	Alamo	94507	Western Scrub-Jay	7/22/09	8/3/09	WNV	RT-PCR
Contra Costa	Brentwood	94513	American Crow	8/4/09	8/5/09	WNV	RAMP
El Dorado	Placerville	95667	Sparrow	7/20/09	8/3/09	WNV	RT-PCR
Fresno	Fresno	93710	American Crow	8/3/09	8/3/09	WNV	RAMP
Fresno	Fresno	93711	American Crow	8/3/09	8/4/09	WNV	RAMP
Kern	Bakersfield	93311	American Robin	7/23/09	8/3/09	WNV	RT-PCR
Kings	Hanford	93230	Brewer's Blackbird	7/23/09	8/3/09	WNV	RT-PCR
Los Angeles	Canyon Country	91387	American Crow	7/23/09	8/3/09	WNV	RT-PCR
Los Angeles	Hacienda Heights	91745	House Finch	7/27/09	8/3/09	WNV	RT-PCR
Los Angeles	Palmdale	93551	House Sparrow	7/28/09	8/3/09	WNV	RT-PCR
Los Angeles	Topanga	90290	American Goldfinch	7/27/09	8/3/09	WNV	RT-PCR
Madera	Madera	93636	House Finch	7/28/09	8/3/09	WNV	RT-PCR
Madera	Madera	93638	American Crow	7/27/09	8/3/09	WNV	RT-PCR
Monterey	Salinas	93906	Goldfinch	7/27/09	8/3/09	WNV	RT-PCR
Orange	Cypress	90630	House Finch	7/27/09	8/3/09	WNV	RT-PCR
Sacramento	Sacramento	95817	Anna's Hummingbird	7/29/09	8/3/09	WNV	RT-PCR
Sacramento	Sacramento	95832	Yellow-billed Magpie	7/29/09	8/3/09	WNV	RT-PCR
San Bernardino	Chino	91710	American Crow	7/30/09	7/29/09	WNV	VecTest

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San Bernardino	Ontario	91762	House Finch	7/27/09	8/3/09	WNV	RT-PCR
San Bernardino	Ontario	91762	American Crow	7/30/09	7/30/09	WNV	VecTest
San Joaquin	Stockton	95210	American Crow	8/3/09	8/4/09	WNV	RAMP
Santa Clara	San Jose	95134	American Crow	7/27/09	7/20/09	WNV	VecTest
Santa Clara	Santa Clara	95050	American Crow	7/27/09	7/20/09	WNV	VecTest
Stanislaus	Ceres	95307	Western Scrub-Jay	7/26/09	8/3/09	WNV	RT-PCR
Stanislaus	Ceres	95307	Western Scrub-Jay	7/27/09	8/3/09	WNV	RT-PCR
Stanislaus	Modesto	95350	Western Scrub-Jay	7/23/09	8/3/09	WNV	RT-PCR
Tulare	Tulare	93274	American Crow	7/23/09	8/3/09	WNV	RT-PCR
Tulare	Visalia	93277	Western Scrub-Jay	7/23/09	8/3/09	WNV	RT-PCR
Tulare	Visalia	93291	Western Scrub-Jay	7/26/09	8/3/09	WNV	RT-PCR
Tulare	Visalia	93291	American Crow	7/28/09	8/3/09	WNV	RT-PCR

Mosquitoes

County	Site Code	Pool #	Species	# in Pool	Collected	Tested	City	Virus	Method
Contra Costa	CNTR9223	542	Cx tarsalis	27	8/3/2009	8/6/2009	Antioch	WNV	RTPCR
Contra Costa	CNTR9223	543	Cx pipiens	45	8/3/2009	8/6/2009	Antioch	WNV	RTPCR
Fresno	CNSL1062	335	Cx quinquefasciatus	48	7/29/2009	8/5/2009	Fresno	WNV	RTPCR
Fresno	CNSL1136	334	Cx quinquefasciatus	50	7/29/2009	8/5/2009	Fresno	WNV	RTPCR
Fresno	CNSL1678	338	Cx quinquefasciatus	37	7/30/2009	8/7/2009	Clovis	WNV	RTPCR
Fresno	CNSL2263	623	Cx quinquefasciatus	50	8/4/2009	8/5/2009	Sanger	WNV	RTPCR
Fresno	CNSL3214	622	Cx quinquefasciatus	28	8/4/2009	8/5/2009	Reedley	WNV	RTPCR
Fresno	CNSL3217	616	Cx tarsalis	50	7/29/2009	8/7/2009	Orange Cove	WNV	RTPCR
Fresno	CNSL4028	619	Cx quinquefasciatus	50	7/31/2009	8/5/2009	Selma	WNV	RTPCR
Fresno	FRNO0012	31	Cx tarsalis	14	8/4/2009	8/4/2009	Fresno	WNV	RAMP
Kern	AFSB0119	5122	Cx quinquefasciatus	7	7/30/2009	8/5/2009	Bakersfield	WNV	RTPCR
Kern	AFSB0121	5124	Cx quinquefasciatus	34	7/30/2009	8/5/2009	Bakersfield	WNV	RTPCR
Kern	AFSB0121	5129	Cx quinquefasciatus	20	7/30/2009	8/5/2009	Bakersfield	WNV	RTPCR
Kern	KERN0013	363	Cx quinquefasciatus	24	7/28/2009	8/5/2009	Bakersfield	WNV	RTPCR
Kern	KERN0029	388	Cx quinquefasciatus	50	7/29/2009	8/5/2009	Lamont	WNV	RTPCR
Kern	KERN0032	391	Cx tarsalis	45	7/29/2009	8/5/2009	Arvin	WNV	RTPCR
Kern	KERN0033	392	Cx tarsalis	50	7/29/2009	8/5/2009	Arvin	WNV	RTPCR
Kern	KERN0043	405	Cx quinquefasciatus	40	7/31/2009	8/5/2009	Shafter	WNV	RTPCR
Kern	KERN0044	406	Cx quinquefasciatus	39	7/31/2009	8/5/2009	Shafter	WNV	RTPCR
Kern	KERN0045	408	Cx quinquefasciatus	50	7/31/2009	8/5/2009	Buttonwillow	WNV	RTPCR
Kern	KERN1002	373	Cx quinquefasciatus	23	7/28/2009	8/5/2009	Bakersfield	WNV	RTPCR
Kern	KERN1005	376	Cx quinquefasciatus	50	7/28/2009	8/5/2009	Bakersfield	WNV	RTPCR
Kern	KERN2001	394	Cx quinquefasciatus	15	7/30/2009	8/5/2009	Bakersfield	WNV	RTPCR
Kern	KERN2011	378	Cx quinquefasciatus	50	7/28/2009	8/5/2009	Bakersfield	WNV	RTPCR
Kern	KERN2016	384	Cx quinquefasciatus	35	7/29/2009	8/5/2009	Bakersfield	WNV	RTPCR
Kern	KERN2018	385	Cx quinquefasciatus	21	7/29/2009	8/5/2009	Bakersfield	WNV	RTPCR
Kern	KERN2022	404	Cx quinquefasciatus	20	7/31/2009	8/5/2009	Shafter	WNV	RTPCR
Kern	KERN2031	395	Cx quinquefasciatus	16	7/30/2009	8/5/2009	Bakersfield	WNV	RTPCR
Kern	KERN2034	375	Cx quinquefasciatus	19	7/28/2009	8/5/2009	Bakersfield	WNV	RTPCR
Kern	KERN2040	400	Cx quinquefasciatus	27	7/30/2009	8/5/2009	Arvin	WNV	RTPCR
Kern	KERN2044	365	Cx quinquefasciatus	10	7/28/2009	8/5/2009	Bakersfield	WNV	RTPCR
Kern	KERN3018	381	Cx quinquefasciatus	17	7/29/2009	8/5/2009	Bakersfield	WNV	RTPCR
Kern	WEST6231	52	Cx quinquefasciatus	44	7/29/2009	8/4/2009	Taft	WNV	RTPCR
Kings	KNGS3022	230	Cx tarsalis	50	8/5/2009	8/6/2009	Hanford	WNV	RTPCR

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Kings	KNGS3022	231	Cx tarsalis	50	8/5/2009	8/6/2009	Hanford	WNV	RTPCR
Kings	KNGS3022	232	Cx tarsalis	50	8/5/2009	8/6/2009	Hanford	WNV	RTPCR
Kings	KNGS3022	238	Cx tarsalis	50	8/5/2009	8/6/2009	Hanford	WNV	RTPCR
Kings	KNGS3022	239	Cx tarsalis	50	8/5/2009	8/6/2009	Hanford	WNV	RTPCR
Kings	KNGS3022	240	Cx tarsalis	50	8/5/2009	8/7/2009	Hanford	WNV	RTPCR
Kings	KNGS3022	241	Cx tarsalis	40	8/5/2009	8/6/2009	Hanford	WNV	RTPCR
Kings	KNGS3022	242	Cx quinquefasciatus	14	8/5/2009	8/6/2009	Hanford	WNV	RTPCR
Kings	KNGS3022	245	Cx tarsalis	50	8/5/2009	8/6/2009	Hanford	WNV	RTPCR
Kings	KNGS3042	221	Cx tarsalis	50	8/4/2009	8/6/2009	Hanford	WNV	RTPCR
Kings	KNGS3042	222	Cx tarsalis	12	8/4/2009	8/6/2009	Hanford	WNV	RTPCR
Kings	KNGS3057	209	Cx tarsalis	50	8/4/2009	8/6/2009	Hanford	WNV	RTPCR
Kings	KNGS3057	211	Cx tarsalis	33	8/4/2009	8/6/2009	Hanford	WNV	RTPCR
Kings	KNGS4003	216	Cx tarsalis	50	8/4/2009	8/6/2009	Hanford	WNV	RTPCR
Kings	KNGS4003	219	Cx tarsalis	43	8/4/2009	8/6/2009	Hanford	WNV	RTPCR
Los Angeles	GRLA2278	1378	Cx quinquefasciatus	23	7/30/2009	8/7/2009	Long Beach	WNV	RTPCR
Los Angeles	GRLA2334	1400	Cx quinquefasciatus	50	7/31/2009	8/7/2009	Whittier	WNV	RTPCR
Madera	MADR6345	23	Cx pipiens	38	8/4/2009	8/7/2009	Madera	WNV	RTPCR
Orange	ORCO0036	920	Cx quinquefasciatus	22	7/30/2009	8/5/2009	Cypress	WNV	RTPCR
Placer	PLCR0117	350	Cx tarsalis	14	7/30/2009	8/5/2009	Newcastle	WNV	RTPCR
Placer	PLCR0296	337	Cx pipiens	32	7/29/2009	8/7/2009	Auburn	WNV	RTPCR
Placer	PLCR0296	338	Cx tarsalis	28	7/29/2009	8/5/2009	Auburn	WNV	RTPCR
San Bernardino	WVAL2008	690	Cx quinquefasciatus	50	7/29/2009	8/6/2009	Chino	WNV	RTPCR
San Bernardino	WVAL6005	675	Cx quinquefasciatus	34	7/28/2009	8/6/2009	Ontario	WNV	RTPCR
San Joaquin	SJCM8018	612	Cx tarsalis	48	8/4/2009	8/6/2009	Stockton	WNV	RTPCR
San Joaquin	SJCM8056	601	Cx pipiens	12	7/30/2009	8/4/2009	Manteca	WNV	RTPCR
San Joaquin	SJCM8056	630	Cx pipiens	18	8/6/2009	8/6/2009	Manteca	WNV	RAMP
San Joaquin	SJCM8159	609	Cx pipiens	50	8/4/2009	8/6/2009	Stockton	WNV	RTPCR
San Joaquin	SJCM8159	652	Cx pipiens	47	8/7/2009	8/7/2009	Stockton	WNV	RAMP
San Joaquin	SJCM8161	573	Cx pipiens	50	7/28/2009	8/5/2009	Ripon	WNV	RTPCR
San Joaquin	SJCM8161	577	Cx pipiens	50	7/28/2009	8/4/2009	Ripon	WNV	RTPCR
San Joaquin	SJCM8161	578	Cx pipiens	50	7/28/2009	8/7/2009	Ripon	WNV	RTPCR
San Joaquin	SJCM8161	581	Cx pipiens	26	7/28/2009	8/4/2009	Ripon	WNV	RTPCR
San Joaquin	SJCM8161	647	Cx pipiens	50	8/7/2009	8/7/2009	Ripon	WNV	RAMP
San Joaquin	SJCM8161	648	Cx pipiens	50	8/7/2009	8/7/2009	Ripon	WNV	RAMP
San Joaquin	SJCM8185	565	Cx tarsalis	17	7/28/2009	8/5/2009	Manteca	WNV	RTPCR
San Joaquin	SJCM9906	589	Cx pipiens	21	7/28/2009	8/4/2009	French Camp	WNV	RTPCR
Stanislaus	EAST1023	9127	Cx pipiens	26	7/28/2009	8/7/2009	Modesto	WNV	RTPCR
Stanislaus	TRLK0421	532	Cx pipiens	21	8/4/2009	8/7/2009	Hughson	WNV	RTPCR
Stanislaus	TRLK0432	514	Cx pipiens	50	8/4/2009	8/5/2009	Turlock	WNV	RTPCR
Stanislaus	TRLK0516	526	Cx pipiens	50	8/4/2009	8/5/2009	Denair	WNV	RTPCR
Stanislaus	TRLK0516	530	Cx pipiens	50	8/4/2009	8/7/2009	Denair	WNV	RTPCR
Stanislaus	TRLK0526	522	Cx pipiens	50	8/4/2009	8/7/2009	Denair	WNV	RTPCR
Sutter	SUYA0044	224	Cx tarsalis	50	8/3/2009	8/7/2009	Pleasant Grove	WNV	RTPCR
Tulare	DLTA6405	556	Cx quinquefasciatus	31	8/5/2009	8/6/2009	Dinuba	WNV	RTPCR
Tulare	DLTA6408	560	Cx quinquefasciatus	50	8/5/2009	8/7/2009	Dinuba	WNV	RTPCR
Tulare	DLTA6408	561	Cx quinquefasciatus	40	8/5/2009	8/6/2009	Dinuba	WNV	RTPCR
Tulare	DLTA6408	562	Cx quinquefasciatus	50	8/5/2009	8/7/2009	Dinuba	WNV	RTPCR
Tulare	DLTA6409	563	Cx quinquefasciatus	50	8/5/2009	8/7/2009	Dinuba	WNV	RTPCR
Tulare	DLTA6409	564	Cx quinquefasciatus	50	8/5/2009	8/7/2009	Dinuba	WNV	RTPCR
Tulare	DLTA8413	499	Cx quinquefasciatus	50	7/31/2009	8/5/2009	Visalia	WNV	RTPCR
Tulare	DLTA8413	509	Cx quinquefasciatus	50	7/31/2009	8/7/2009	Visalia	WNV	RTPCR
Tulare	DLTA8413	520	Cx quinquefasciatus	50	7/31/2009	8/5/2009	Visalia	WNV	RTPCR
Tulare	DLTA8413	523	Cx tarsalis	36	7/31/2009	8/5/2009	Visalia	WNV	RTPCR

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Tulare	DLTA8413	554	Cx quinquefasciatus	42	8/4/2009	8/7/2009	Visalia	WNV	RTPCR
Tulare	DLTA8414	538	Cx tarsalis	28	7/31/2009	8/5/2009	Visalia	WNV	RTPCR
Tulare	DLTA8414	548	Cx quinquefasciatus	50	8/4/2009	8/7/2009	Visalia	WNV	RTPCR
Tulare	DLTA8532	534	Cx quinquefasciatus	15	7/31/2009	8/5/2009	Visalia	WNV	RTPCR
Tulare	DLTA8534	555	Cx quinquefasciatus	49	8/4/2009	8/6/2009	Visalia	WNV	RTPCR
Tulare	DLTA9504	542	Cx quinquefasciatus	28	7/31/2009	8/5/2009	Visalia	WNV	RTPCR
Tulare	DLTA9504	544	Cx quinquefasciatus	37	7/31/2009	8/5/2009	Visalia	WNV	RTPCR
Tulare	DLTA9504	545	Cx quinquefasciatus	26	7/31/2009	8/5/2009	Visalia	WNV	RTPCR
Tulare	DLTA9506	493	Cx quinquefasciatus	26	7/30/2009	8/5/2009	Visalia	WNV	RTPCR

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03
Imperial	COAV5001	Niland	7/27/2009	WNV	3166		
Los Angeles	ANTV7945	Quartz Hill	7/29/2009	WNV	3375		
Los Angeles	ANTV3247	Lancaster	7/29/2009	WNV	3362	3366	
Riverside	NWST9401	Corona	7/15/2009	WNV	2104		
San Bernardino	SANB0016	Havasu Landing	7/13/2009	WNV	1785	1790	1792

NATIONAL COMMENTS

As of August 4, 2009, 35 human cases had been reported nationwide in the following 14 states: Arizona (5), Arkansas (1), California (5), Colorado (2), Idaho (1), Minnesota (1), Mississippi (6), Montana (1), Nebraska (1), Nevada (5), New York (1), South Dakota (3), Tennessee (1), and Texas (2). Of the 35 individuals, 23 (66%) have neuroinvasive illness. There has been one fatality in Mississippi. At this time last year, 114 cases had been reported nationwide.

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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 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.

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
