

## California Arbovirus Surveillance Bulletin #18

Week 27 Friday, July 5, 2013



### WEEKLY UPDATE

#### Human Cases

No new cases were reported this week. In 2013, one human case of West Nile virus (WNV) has been reported from Sacramento County. At this time last year, one WNV case had been reported from Kern County.

#### Horses

No equine cases have been reported in 2013.

#### Dead Birds & Squirrels

Thirty-eight WNV positive birds were reported this week from Contra Costa (1), Glenn (1), Kings (1), Los Angeles (19), Merced (1), Orange (1), Sacramento (8), San Bernardino (1), San Joaquin (2), Santa Clara (1), and Yolo (2) counties. **These are the first indications of WNV activity in Glenn and Santa Clara counties this year**, and the first WNV positive bird detected in San Bernardino county. An additional two dead birds tested positive for chronic WNV infection from one county. In 2013, 106 dead birds have tested positive for WNV from 19 counties, 48 dead birds have tested positive for chronic WNV infection from 20 counties, and one dead squirrel has tested positive for WNV from one county. At this time last year, 315 dead birds had tested positive for WNV from 16 counties.

#### Mosquito Pools

A total of 113 WNV positive mosquito pools were reported this week from fourteen counties: Contra Costa (2), Fresno (4), Kern (10), Kings (1), Lake (1), Los Angeles (13), Placer (7), Sacramento (36), San Bernardino (8), San Joaquin (5), Stanislaus (4), Sutter (7), Tulare (1), and Yolo (14). This is the first WNV positive mosquito pool detected in Stanislaus county this year. In 2013, 237 mosquito pools from 17 counties have tested positive for WNV. At this time last year, 370 mosquito pools from 14 counties had tested positive for WNV.

#### Sentinel Chickens

Six chickens tested positive for WNV antibodies this week from 3 flocks in 2 counties: Los Angeles (4), and Riverside (2). These are the first seroconversions detected in Riverside County. In 2013, 7 WNV antibody-positive chickens have been detected among 3 flocks in 2 counties. At this time last year, 5 WNV antibody-positive chickens had been detected among 4 flocks in 2 counties.

2012 & 2013 YTD West Nile Virus Comparisons		
	2012	2013
Total # Dead Bird Reports	6,679	6,014
# Positive Counties	20	24
# Human Cases	1	1
# Horse Cases	0	0
# Positive Dead Birds / # Tested	315 / 1,485	106 / 1,183
# Positive Mosquito Pools / # Tested	370 / 10,452	237 / 12,745
# Seroconversions / # Tested	5 / 7,334	7 / 6,733
# Positive Squirrels / # Tested	0 / 55	1 / 55

Website Information: For updated information on WNV in California, please visit the California WNV website, [www.westnile.ca.gov](http://www.westnile.ca.gov), or the California Vectorborne Disease Surveillance System website, [www.calsurv.org](http://www.calsurv.org). For national information on WNV and other arboviruses, please visit the CDC website, [www.cdc.gov](http://www.cdc.gov), and the USGS website, [www.westnilemaps.usgs.gov](http://www.westnilemaps.usgs.gov)

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YTD WNV Activity by Element and County, 2013						
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Butte						1
Contra Costa			2	3		
Fresno			1	12		
Glenn			1			
Kern			1	24		
Kings			6	2		
Lake				2		
Los Angeles			38	50	5	
Marin			2			
Merced			12			
Orange			2	2		
Placer			1	12		
Riverside				6	2	
Sacramento	1		19	58		
San Bernardino			1	9		
San Joaquin			6	11		
Santa Clara			1			
Solano			2			
Stanislaus			2	4		
Sutter				15		
Tulare				5		
Ventura			1			
Yolo			7	19		
Yuba			1	3		
<b>Totals</b>	<b>1</b>	<b>0</b>	<b>106</b>	<b>237</b>	<b>7</b>	<b>1</b>

## TESTING SUMMARIES

### Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
<b>Human Cases</b>	Week	0	0	0	0	0	0
	YTD	1	0	0	0	0	0
<b>Horse Cases</b>	Week	0	0	0	0	0	0
	YTD	0	0	0	0	0	0

### Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
<b>Dead Birds</b>	Week	109	38
	YTD	1183	106
<b>Tree Squirrels</b>	Week	5	0
	YTD	55	1

### Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
<b>Chicken Sera</b>	Week	492	0	0	0
	YTD	6,733	7	0	0
<b>Mosquito Pools</b>	Week	1,225	113	0	0
	YTD	12,745	237	0	0

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**POSITIVES**

**Dead Birds**

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	7/2/2013	WNV	Recent	RAMP
Glenn	Glenn Co MVCD	Orland	95963	American Crow	6/21/2013	WNV	Recent	RT-PCR
Kings	Kings MAD	Lemoore	93245	American Crow	6/27/2013	WNV	Recent	RAMP
Los Angeles	Greater LA VCD - Sylmar	Valley Village	91607	American Crow	6/24/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Gardena	90247	American Crow	6/14/2013	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Gardena	90248	American Crow	6/19/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	6/14/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Torrance	90504	American Crow	6/20/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Carson	90810	American Crow	6/16/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Los Angeles	90045	American Crow	6/24/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Palos Verdes Estates	90274	American Crow	6/19/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Rancho Palos Verdes	90275	American Crow	6/20/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Rancho Palos Verdes	90275	American Crow	6/23/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Redondo Beach	90277	American Crow	6/23/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Torrance	90501	American Crow	6/24/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Torrance	90501	American Crow	6/23/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Torrance	90503	American Crow	6/21/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Torrance	90503	American Crow	6/24/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Torrance	90503	American Crow	6/24/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Torrance	90504	American Crow	6/21/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Torrance	90504	American Crow	6/18/2013	WNV	Chronic	RT-PCR
Los Angeles	LA Co West VCD	Torrance	90505	American Crow	6/20/2013	WNV	Recent	RT-PCR
Los Angeles	San Gabriel Vall. MVCD	Arcadia	91007	American Crow	7/3/2013	WNV	Recent	RAMP
Los Angeles	San Gabriel Vall. MVCD	Covina	91724	American Crow	7/3/2013	WNV	Recent	RAMP
Merced	Merced Co MAD	Gustine	95322	American Crow	6/20/2013	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Brea	92821	House Finch	6/26/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Western Scrub-Jay	6/30/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95815	American Crow	6/27/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95815	American Robin	6/26/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95815	American Crow	6/27/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95819	American Crow	6/26/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	Western Scrub-Jay	6/27/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	American Crow	7/2/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95832	American Crow	7/1/2013	WNV	Recent	RT-PCR
San	West Valley MVCD	Ontario	91761	American Crow	6/21/2013	WNV	Recent	RT-PCR

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Bernardino								
San Joaquin	San Joaquin MVCD	Manteca	95336	American Crow	7/1/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Manteca	95336	American Crow	7/2/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95123	Common Raven	6/20/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	6/26/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	Yellow-billed Magpie	6/28/2013	WNV	Recent	RT-PCR

### Mosquito Pools

County	Site Code	Pool #	City	Species	# in Pool	Trap Type	Collected	Virus	Method
Contra Costa	CNTR2972	135	Discovery Bay	Cx. tarsalis	50	CO2	7/1/13	WNV	RAMP
Contra Costa	CNTR2972	137	Discovery Bay	Cx. pipiens	14	CO2	7/1/13	WNV	RAMP
Fresno	CNSL1312	168	Clovis	Cx. quinquefasciatus	50	GRVD	6/28/13	WNV	RTPCR
Fresno	CNSL1790	165	Clovis	Cx. quinquefasciatus	46	GRVD	6/28/13	WNV	RTPCR
Fresno	CNSL1798	163	Clovis	Cx. quinquefasciatus	50	GRVD	6/28/13	WNV	RTPCR
Fresno	CNSL2347	172	Sanger	Cx. quinquefasciatus	14	GRVD	7/2/13	WNV	RTPCR
Kern	KERN114	213	Bakersfield	Cx. quinquefasciatus	50	CO2	6/27/13	WNV	RTPCR
Kern	KERN121	204	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/27/13	WNV	RTPCR
Kern	KERN2001	201	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/27/13	WNV	RTPCR
Kern	KERN2002	202	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/27/13	WNV	RTPCR
Kern	KERN2018	195	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/26/13	WNV	RTPCR
Kern	KERN2024	220	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/28/13	WNV	RTPCR
Kern	KERN2027	193	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/26/13	WNV	RTPCR
Kern	KERN2030	194	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/26/13	WNV	RTPCR
Kern	KERN3017	200	Bakersfield	Cx. quinquefasciatus	50	CO2	6/26/13	WNV	RTPCR
Kern	KERN3037	212	Bakersfield	Cx. quinquefasciatus	50	CO2	6/27/13	WNV	RTPCR
Kings	KNGS4001	64	Hanford	Cx. tarsalis	39	CO2	6/26/13	WNV	RTPCR
Lake	LAKE80	33		Cx. tarsalis	50	CO2	7/2/13	WNV	RTPCR
Los Angeles	GRLA2093	565	South Gate	Cx. quinquefasciatus	39	GRVD	6/26/13	WNV	RTPCR
Los Angeles	GRLA2166	548	Montebello	Cx. quinquefasciatus	50	GRVD	6/25/13	WNV	RTPCR
Los Angeles	GRLA2270	566	Bellflower	Cx. quinquefasciatus	36	GRVD	6/26/13	WNV	RTPCR
Los Angeles	GRLA2297	580	Los Angeles	Cx. quinquefasciatus	50	GRVD	6/27/13	WNV	RTPCR
Los Angeles	GRLA2450	5609	Glendale	Cx. quinquefasciatus	50	GRVD	6/28/13	WNV	RTPCR
Los Angeles	GRLA2890	573	Lakewood	Cx. quinquefasciatus	50	GRVD	6/27/13	WNV	RTPCR
Los Angeles	GRLA2953	553	Santa Fe Springs	Cx. quinquefasciatus	50	GRVD	6/25/13	WNV	RTPCR
Los Angeles	GRLA3047	568	Downey	Cx. quinquefasciatus	39	GRVD	6/26/13	WNV	RTPCR
Los Angeles	GRLA3048	549	Pico Rivera	Cx. quinquefasciatus	50	GRVD	6/25/13	WNV	RTPCR
Los Angeles	GRLA3049	557	Downey	Cx. quinquefasciatus	50	GRVD	6/26/13	WNV	RTPCR
Los Angeles	GRLA3056	560	Cudahy	Cx. quinquefasciatus	50	GRVD	6/26/13	WNV	RTPCR
Los Angeles	GRLA3066	5600	North Hollywood	Cx. quinquefasciatus	50	GRVD	6/28/13	WNV	RTPCR
Los Angeles	GRLA3076	5601	Valley Glen	Cx. quinquefasciatus	31	GRVD	6/28/13	WNV	RTPCR
Placer	PLCR1113	557	Pleasant Grove	Cx. tarsalis	50	CO2	7/2/13	WNV	RTPCR
Placer	PLCR1113	558	Pleasant Grove	Cx. tarsalis	50	CO2	7/2/13	WNV	RTPCR

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Placer	PLCR1113	565	Pleasant Grove	Cx. tarsalis	50	CO2	7/2/13	WNV	RTPCR
Placer	PLCR1113	567	Pleasant Grove	Cx. tarsalis	21	CO2	7/2/13	WNV	RTPCR
Placer	PLCR139	613	Roseville	Cx. tarsalis	50	CO2	7/2/13	WNV	RTPCR
Placer	PLCR25	592	Lincoln	Cx. tarsalis	50	CO2	7/2/13	WNV	RTPCR
Placer	PLCR88	638	Lincoln	Cx. tarsalis	30	CO2	7/3/13	WNV	RTPCR
Sacramento	SAYO201009	2180	Sacramento	Cx. tarsalis	50	CO2	7/2/13	WNV	RTPCR
Sacramento	SAYO201009	2182	Sacramento	Cx. tarsalis	50	CO2	7/2/13	WNV	RTPCR
Sacramento	SAYO202006	2184	Sacramento	Cx. tarsalis	50	CO2	7/2/13	WNV	RTPCR
Sacramento	SAYO202006	2188	Sacramento	Cx. tarsalis	50	CO2	7/2/13	WNV	RTPCR
Sacramento	SAYO202006	2189	Sacramento	Cx. tarsalis	15	GRVD	7/2/13	WNV	RTPCR
Sacramento	SAYO203011	2031	Antelope	Cx. pipiens	50	CO2	7/2/13	WNV	RTPCR
Sacramento	SAYO204007	1813	Antelope	Cx. tarsalis	25	CO2	6/28/13	WNV	RTPCR
Sacramento	SAYO204007	1814	Antelope	Cx. tarsalis	1	GRVD	6/28/13	WNV	RTPCR
Sacramento	SAYO204009	1781	Citrus Heights	Cx. pipiens	25	GRVD	6/28/13	WNV	RTPCR
Sacramento	SAYO204013	1787	Citrus Heights	Cx. pipiens	4	GRVD	6/28/13	WNV	RTPCR
Sacramento	SAYO204014	2002	Citrus Heights	Cx. tarsalis	34	CO2	7/2/13	WNV	RTPCR
Sacramento	SAYO204025	1810	Citrus Heights	Cx. pipiens	50	GRVD	6/28/13	WNV	RTPCR
Sacramento	SAYO204025	1811	Citrus Heights	Cx. pipiens	50	GRVD	6/28/13	WNV	RTPCR
Sacramento	SAYO205013	2072	Folsom	Cx. tarsalis	6	CO2	7/2/13	WNV	RTPCR
Sacramento	SAYO205013	2073	Folsom	Cx. pipiens	8	CO2	7/2/13	WNV	RTPCR
Sacramento	SAYO205013	2074	Folsom	Cx. pipiens	7	GRVD	7/2/13	WNV	RTPCR
Sacramento	SAYO212021	2025	Sacramento	Cx. tarsalis	17	CO2	7/2/13	WNV	RTPCR
Sacramento	SAYO212021	2026	Sacramento	Cx. pipiens	24	CO2	7/2/13	WNV	RTPCR
Sacramento	SAYO212026	1766	Sacramento	Cx. pipiens	38	CO2	6/28/13	WNV	RTPCR
Sacramento	SAYO213036	1771	Sacramento	Cx. pipiens	22	CO2	6/28/13	WNV	RTPCR
Sacramento	SAYO222001	2117	Sacramento	Cx. pipiens	50	CO2	7/2/13	WNV	RTPCR
Sacramento	SAYO222019	1819	Sacramento	Cx. tarsalis	15	CO2	6/28/13	WNV	RTPCR
Sacramento	SAYO232012	2100	Elk Grove	Cx. tarsalis	12	CO2	7/2/13	WNV	RTPCR
Sacramento	SAYO232020	1802	Sacramento	Cx. tarsalis	50	CO2	6/28/13	WNV	RTPCR
Sacramento	SAYO232020	1805	Sacramento	Cx. pipiens	50	CO2	6/28/13	WNV	RTPCR
Sacramento	SAYO232020	1807	Sacramento	Cx. pipiens	46	GRVD	6/28/13	WNV	RTPCR
Sacramento	SAYO233015	2071	Sacramento	Cx. pipiens	2	GRVD	7/2/13	WNV	RTPCR
Sacramento	SAYO243025	2128	Elk Grove	Cx. pipiens	19	CO2	7/2/13	WNV	RTPCR
Sacramento	SAYO254011	2139	Galt	Cx. tarsalis	7	CO2	7/2/13	WNV	RTPCR
Sacramento	SAYO254011	2140	Galt	Cx. tarsalis	2	GRVD	7/2/13	WNV	RTPCR
Sacramento	SAYO254011	2141	Galt	Cx. pipiens	1	CO2	7/2/13	WNV	RTPCR
Sacramento	SAYO254011	2142	Galt	Cx. pipiens	2	GRVD	7/2/13	WNV	RTPCR
Sacramento	SAYO255007	2150	Herald	Cx. tarsalis	50	CO2	7/2/13	WNV	RTPCR
Sacramento	SAYO280001	2055	Rio Vista	Cx. tarsalis	35	CO2	7/2/13	WNV	RTPCR
Sacramento	SAYO280003	2027	Rio Vista	Cx. tarsalis	50	CO2	7/2/13	WNV	RTPCR
Sacramento	SAYO280003	2028	Rio Vista	Cx. tarsalis	43	CO2	7/2/13	WNV	RTPCR
San Bernardino	WVAL1007	550	Ontario	Cx. quinquefasciatus	50	CO2	7/2/13	WNV	RTPCR
San Bernardino	WVAL1007	551	Ontario	Cx. quinquefasciatus	50	CO2	7/2/13	WNV	RTPCR
San Bernardino	WVAL1007	552	Ontario	Cx. quinquefasciatus	50	CO2	7/2/13	WNV	RTPCR
San Bernardino	WVAL1007	553	Ontario	Cx. quinquefasciatus	50	CO2	7/2/13	WNV	RTPCR
San Bernardino	WVAL2018	544	Chino	Cx. quinquefasciatus	22	GRVD	7/2/13	WNV	RTPCR
San Bernardino	WVAL2022	545	Fwy CA 60	Cx. quinquefasciatus	50	GRVD	7/2/13	WNV	RTPCR
San Bernardino	WVAL6004	513	Ontario	Cx. quinquefasciatus	50	GRVD	7/2/13	WNV	RTPCR
San Bernardino	WVAL6004	516	Ontario	Cx. quinquefasciatus	7	GRVD	7/2/13	WNV	RTPCR

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San Joaquin	SJCM8018	609	Stockton	Cx. tarsalis	50	CO2	7/2/13	WNV	RTPCR
San Joaquin	SJCM8018	610	Stockton	Cx. tarsalis	50	CO2	7/2/13	WNV	RTPCR
San Joaquin	SJCM8100	658	Tracy	Cx. pipiens	15	CO2	7/2/13	WNV	RTPCR
San Joaquin	SJCM8143	638	Stockton	Cx. tarsalis	50	CO2	7/2/13	WNV	RTPCR
San Joaquin	SJCM8191	646	Lodi	Cx. tarsalis	50	CO2	7/2/13	WNV	RTPCR
Stanislaus	TRLK1306	199	Patterson	Cx. tarsalis	48	CO2	7/2/13	WNV	RTPCR
Stanislaus	TRLK305	194	Grayson	Cx. tarsalis	50	CO2	7/2/13	WNV	RTPCR
Stanislaus	TRLK305	195	Grayson	Cx. tarsalis	50	CO2	7/2/13	WNV	RTPCR
Stanislaus	TRLK307	201	Grayson	Cx. pipiens	17	CO2	7/2/13	WNV	RTPCR
Sutter	SUYA31	145	Rio Oso	Cx. tarsalis	50	REST	7/1/13	WNV	RTPCR
Sutter	SUYA31	146	Rio Oso	Cx. tarsalis	50	REST	7/1/13	WNV	RTPCR
Sutter	SUYA31	147	Rio Oso	Cx. tarsalis	50	REST	7/1/13	WNV	RTPCR
Sutter	SUYA31	150	Rio Oso	Cx. tarsalis	41	REST	7/1/13	WNV	RTPCR
Sutter	SUYA44	155	Pleasant Grove	Cx. tarsalis	38	REST	7/1/13	WNV	RTPCR
Sutter	SUYA63	138	Pennington	Cx. tarsalis	50	REST	7/1/13	WNV	RTPCR
Sutter	SUYA63	139	Pennington	Cx. tarsalis	46	REST	7/1/13	WNV	RTPCR
Tulare	TLRE86	12	Tulare93274	Cx. tarsalis	37	CO2	7/2/13	WNV	RTPCR
Yolo	SAYO103006	1953	Dunnigan	Cx. tarsalis	50	CO2	6/28/13	WNV	RTPCR
Yolo	SAYO116002	1981	Knights Landing	Cx. tarsalis	50	CO2	6/28/13	WNV	RTPCR
Yolo	SAYO125004	1885	Woodland	Cx. tarsalis	50	CO2	6/28/13	WNV	RTPCR
Yolo	SAYO125011	1946	Woodland	Cx. pipiens	4	GRVD	6/28/13	WNV	RTPCR
Yolo	SAYO135016	1913	Woodland	Cx. tarsalis	50	CO2	6/28/13	WNV	RTPCR
Yolo	SAYO136010	1890	Woodland	Cx. tarsalis	50	CO2	6/28/13	WNV	RTPCR
Yolo	SAYO144002	1899	Davis	Cx. tarsalis	50	CO2	6/28/13	WNV	RTPCR
Yolo	SAYO144002	1900	Davis	Cx. tarsalis	47	CO2	6/28/13	WNV	RTPCR
Yolo	SAYO146002	1868	Davis	Cx. tarsalis	50	CO2	6/28/13	WNV	RTPCR
Yolo	SAYO146002	1869	Davis	Cx. tarsalis	50	CO2	6/28/13	WNV	RTPCR
Yolo	SAYO146002	1870	Davis	Cx. tarsalis	11	CO2	6/28/13	WNV	RTPCR
Yolo	SAYO146017	1882	Davis	Cx. pipiens	50	CO2	6/28/13	WNV	RTPCR
Yolo	SAYO146017	1883	Davis	Cx. pipiens	13	CO2	6/28/13	WNV	RTPCR
Yolo	SAYO146018	1851	Davis	Cx. pipiens	4	GRVD	6/28/13	WNV	RTPCR

### Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02
Los Angeles	ANTV008656	Lancaster	6/26/2013	WNV	3609	3610
Los Angeles	LACW001001	Rolling Hills Estates	6/19/2013	WNV	1301	1306
Riverside	COAV000035	Mecca	6/24/2013	WNV	3144	3147

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### Test Protocols

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#### **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.

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#### **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.

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#### **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.

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#### **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 (WEEV), and St. Louis encephalitis (SLEV) viruses by EIA and IFA. Positive samples are confirmed by western-blot or PRNT.

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#### **Mosquito Pools:**

Mosquito pools are submitted to CVEC and screened for WEEV, SLEV, 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.

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