

# California Arbovirus Surveillance Bulletin #31

Week 38 Friday, September 19, 2014

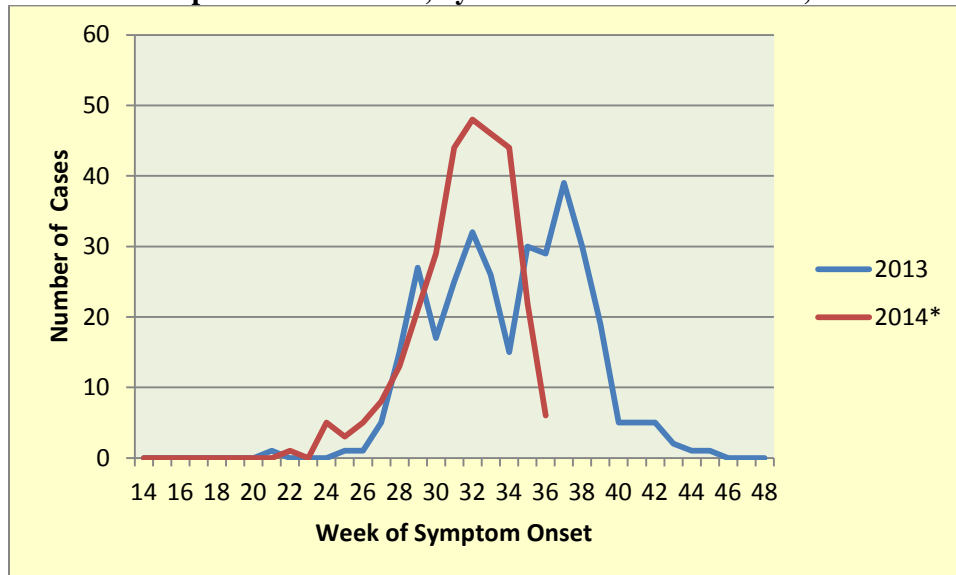


## WEEKLY UPDATE

### Humans

A total of 73 new cases of West Nile virus (WNV) disease were reported to the California Department of Public Health (CDPH) this week from the following 16 counties: Colusa (1), Fresno (2), Glenn (2), Los Angeles (20), Mendocino (1), Orange (31), Placer (2), Sacramento (3), San Bernardino (3), San Joaquin (1), Santa Clara (1), Shasta (1), Stanislaus (1), Tehama (1), Tulare (2), and Yolo (1). **These are the first human cases reported from Mendocino and Yolo counties this year.** As of September 15, a total of 311 human cases of WNV disease have been reported from 28 counties. As of this date in 2013, 150 cases had been reported from 24 counties. Of the 311 case-patients, 209 (67%) had neuroinvasive illness. The median age of the 311 individuals is 58 years (range: 6-90 years); 201 (65%) are male. Dates of symptom onset for individuals where data are available range from May 27 to September 5. Twelve WNV-related fatalities have been reported to CDPH from seven counties: Glenn (1), Los Angeles (2), Orange (3), Sacramento (1), Shasta (1), and Stanislaus (2), and Sutter (2). In addition, 44 asymptomatic WNV-positive blood donors have been reported this year from 16 counties: Butte (1), Contra Costa (1), Fresno (9), Kern (2), Kings (1), Los Angeles (7), Orange (10), Placer (1), Riverside (1), San Diego (1), San Joaquin (2), Santa Clara (2), Stanislaus (3), Sutter (1), Tulare (1), and Yuba (1).

Number of reported WNV cases, by week of onset—California, 2013-2014\*



\*Reported to CDPH as of 9/15/14. Data incomplete due to reporting delays.

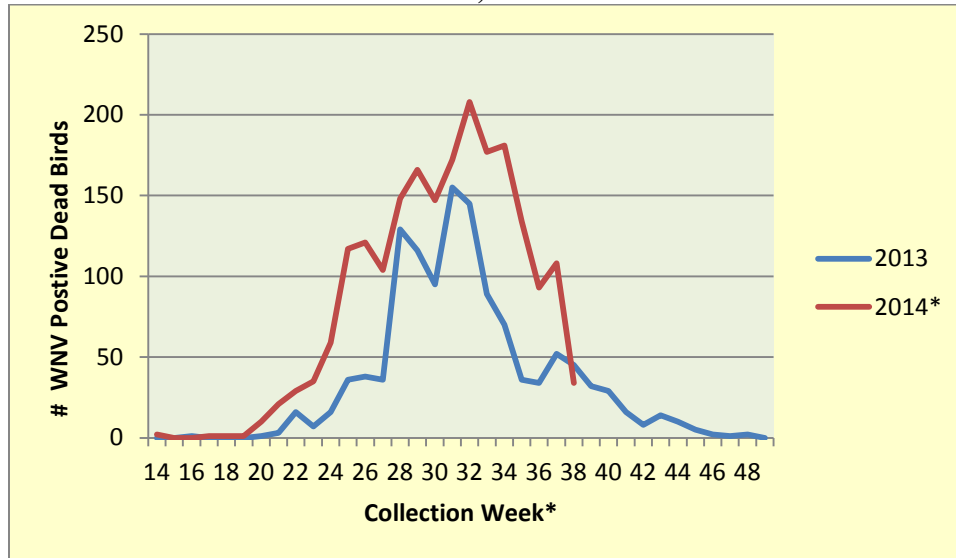
## California Arbovirus Surveillance Bulletin #31

Week 38 Friday, September 19, 2014

### Dead Birds

A total of 100 WNV positive dead birds were reported this week from the following 19 counties: Alameda (2), Butte (1), Contra Costa (2), El Dorado (1), Kings (1), Lake (3), Los Angeles (3), Merced (6), Orange (28), Sacramento (4), San Bernardino (1), San Joaquin (2), Santa Mateo (1), Santa Clara (31), Sonoma (3), Stanislaus (4), Tulare (2), Ventura (1), and Yolo (4). In 2014, 2,079 dead birds have tested positive for WNV from 35 counties. At this time last year, 1,061 WNV positive dead birds had been detected in 38 counties.

Number of reported WNV positive dead birds, by week of collection--  
California, 2013-2014\*



\*Reported to CDPH as of 9/19/14. Data incomplete due to reporting delays.

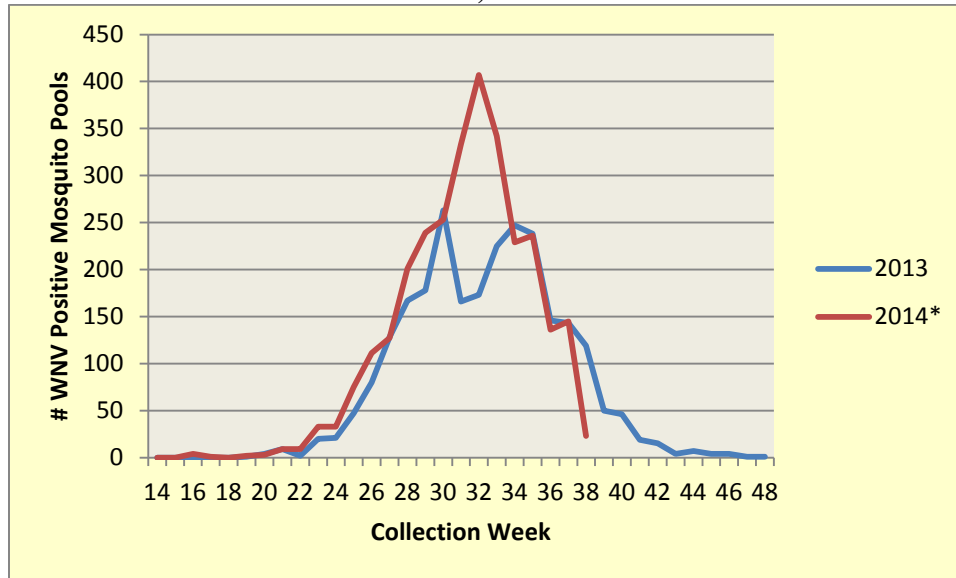
### Mosquito Pools

A total of 99 WNV positive mosquito pools were reported this week from the following 16 counties: Alameda (1), Contra Costa (1), Fresno (5), Kern (4), Los Angeles (30), Orange (26), Placer (1), Riverside (4), Sacramento (7), San Bernardino (4), San Joaquin (4), Santa Clara (1), Stanislaus (7), Sutter (1), Tulare (1), and Yolo (2). In 2014, 2,952 mosquito pools from 29 counties have tested positive for WNV. At this time last year, 2,314 WNV positive mosquito pools had been reported from 27 counties.

# California Arbovirus Surveillance Bulletin #31

Week 38 Friday, September 19, 2014

### Number of reported WNV positive mosquito pools, by week of collection-- California, 2013-2014\*

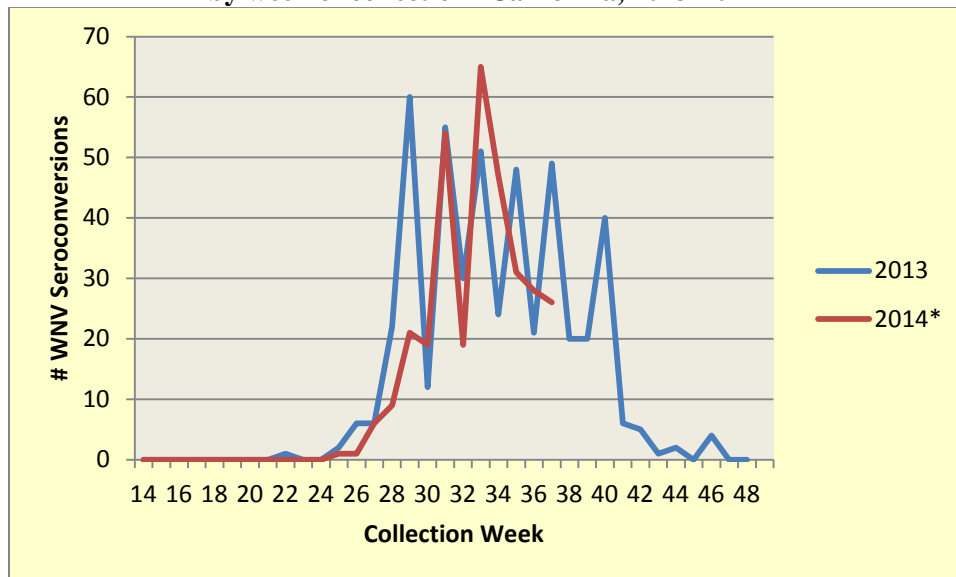


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## Sentinel Chickens

A total of 26 new WNV seroconversions were reported this week from 18 flocks located in the following 11 counties: Alameda (1), Butte (2), Colusa (2), Los Angeles (7), Merced (2), Riverside (2), Shasta (1), Sonoma (1), Sutter (1), Tehama (5), and Yuba (2). **This is the first WNV seroconversion detected in Alameda County this year.** In 2014, 328 WNV positive chickens have been reported from 83 flocks located in 21 counties. At this time last year, 374 WNV seroconversions had been reported from 91 flocks in 25 counties.

### Number of reported WNV sentinel chicken seroconversions, by week of collection--California, 2013-2014\*



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## California Arbovirus Surveillance Bulletin #31

Week 38 Friday, September 19, 2014

<b>YTD Activity by Element and County, 2014</b>				
County	Humans*	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		86	16	1
Butte	16	20	38	36
Colusa	3	4	1	8
Contra Costa	1	38	21	13
El Dorado		4		
Fresno	26	9	123	
Glenn	10	4	8	8
Humboldt		2		
Imperial	2			
Kern	5	3	103	
Kings	2	3	145	
Lake	1	18	68	4
Los Angeles	50	60	246	100
Madera	2	5	37	
Marin		3	3	
Mendocino	1			
Merced		7	10	8
Napa		12		
Orange	116	306	384	
Placer	3	38	76	
Riverside	1	1	70	13
Sacramento	7	275	474	8
San Bernardino	7	13	86	23
San Diego	2	7		
San Joaquin	4	47	198	
San Mateo		14	13	
Santa Clara	7	852	30	3
Santa Cruz		1		
Shasta	2	5	33	9
Solano	1	32	11	19
Sonoma		20	6	2
Stanislaus	25	43	148	12
Sutter	2	19	52	27
Tehama	2			13
Tulare	9	40	311	4
Ventura		5		
Yolo	1	67	217	8
Yuba	3	16	24	9
<b>Totals</b>	<b>311</b>	<b>2,079</b>	<b>2,952</b>	<b>328</b>

*\*Total does not include asymptomatic infections*

# California Arbovirus Surveillance Bulletin #31

Week 38 Friday, September 19, 2014

2013 & 2014 YTD West Nile Virus Comparisons		
	2013	2014
Total # Dead Bird Reports	12,720	12,200
# Positive Counties	40	38
# Human Cases	150	311
# Positive Dead Birds / # Tested	1,061 / 2,903	2,079 / 3,394
# Positive Mosquito Pools / # Tested	2,314 / 25,699	2,952 / 24,541
# Seroconversions / # Tested	374 / 13,375	328 / 11,914

## TESTING SUMMARIES

### Humans

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	73	0	0	0	0	0
	YTD	311	0	0	0	0	0

### Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	148	100
	YTD	3,394	2,079

### Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	432	26	0	0
	YTD	11,914	328	0	0
Mosquito Pools	Week	1,224	99	0	0
	YTD	24,541	2,952	0	0

## NEW POSITIVES

### Dead Birds

County	Agency	City	Zip	Species	Reported	Virus	Method
Alameda	Alameda Co MAD	Livermore	94550	American Crow	9/15/2014	WNV	RAMP
Alameda	Alameda Co MAD	Livermore	94550	Cooper's Hawk	9/5/2014	WNV	RT-PCR
Butte	Butte Co MVCD	Chico	95926	Western Scrub-Jay	9/10/2014	WNV	RT-PCR
Contra Costa	Contra Costa MVCD	Danville	94526	American Crow	9/12/2014	WNV	RAMP
Contra Costa	Contra Costa MVCD	San Ramon	94583	American Crow	9/15/2014	WNV	RAMP
El Dorado	El Dorado Co Env Management	Shingle Springs	95682	Unknown	9/7/2014	WNV	RT-PCR
Kings	Kings MAD	Hanford	93230	American Crow	8/18/2014	WNV	RT-PCR
Lake	Lake Co VCD	Clearlake Oaks	95423	House Sparrow	9/3/2014	WNV	RT-PCR
Lake	Lake Co VCD	Lakeport	95453	Song Sparrow	9/11/2014	WNV	RT-PCR
Lake	Lake Co VCD	Middletown	95461	Steller's Jay	9/11/2014	WNV	RT-PCR
Los Angeles	Los Angeles Co West VCD	Culver City	90232	American Crow	9/10/2014	WNV	RT-PCR
Los Angeles	San Gabriel Valley MVCD	San Dimas	91773	Northern Mockingbird	8/28/2014	WNV	RT-PCR

## California Arbovirus Surveillance Bulletin #31

Week 38 Friday, September 19, 2014

Los Angeles	San Gabriel Valley MVCD	Sierra Madre	91024	Finch	9/9/2014	WNV	RT-PCR
Merced	Merced Co MAD	Dos Palos	93620	American Crow	9/17/2014	WNV	RT-PCR
Merced	Merced Co MAD	Gustine	95307	Yellow-billed Magpie	9/8/2014	WNV	RT-PCR
Merced	Merced Co MAD	Gustine	95322	American Crow	9/10/2014	WNV	RT-PCR
Merced	Merced Co MAD	Gustine	95322	Western Scrub-Jay	9/14/2014	WNV	RT-PCR
Merced	Merced Co MAD	Livingston	95334	Western Scrub-Jay	8/24/2014	WNV	RT-PCR
Merced	Merced Co MAD	Merced	95340	Western Scrub-Jay	9/5/2014	WNV	RT-PCR
Orange	Orange Co VCD	Anaheim	92804	American Crow	9/10/2014	WNV	RT-PCR
Orange	Orange Co VCD	Anaheim	92804	American Crow	9/15/2014	WNV	RT-PCR
Orange	Orange Co VCD	Anaheim	92806	American Crow	9/15/2014	WNV	RT-PCR
Orange	Orange Co VCD	Buena Park	90620	American Crow	9/15/2014	WNV	RT-PCR
Orange	Orange Co VCD	Corona Del Mar	92625	American Crow	9/11/2014	WNV	RT-PCR
Orange	Orange Co VCD	Costa Mesa	92627	American Crow	9/15/2014	WNV	RT-PCR
Orange	Orange Co VCD	Cypress	90630	American Crow	9/12/2014	WNV	RT-PCR
Orange	Orange Co VCD	Garden Grove	92868	American Crow	9/11/2014	WNV	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92647	American Crow	9/12/2014	WNV	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92647	American Crow	9/17/2014	WNV	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92648	American Crow	9/12/2014	WNV	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92649	American Crow	9/10/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92603	American Crow	9/12/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92618	American Crow	9/9/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92618	American Crow	9/11/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92618	American Crow	9/15/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92618	American Crow	9/15/2014	WNV	RT-PCR
Orange	Orange Co VCD	Laguna Hills	92651	American Coot	9/12/2014	WNV	RT-PCR
Orange	Orange Co VCD	Lake Forest	92630	American Crow	9/9/2014	WNV	RT-PCR
Orange	Orange Co VCD	Lake Forest	92630	American Crow	9/12/2014	WNV	RT-PCR
Orange	Orange Co VCD	Mission Viejo	92692	American Crow	9/12/2014	WNV	RT-PCR
Orange	Orange Co VCD	Orange	92687	American Crow	9/10/2014	WNV	RT-PCR
Orange	Orange Co VCD	Orange	92868	American Crow	9/11/2014	WNV	RT-PCR
Orange	Orange Co VCD	Placentia	92870	American Crow	9/12/2014	WNV	RT-PCR
Orange	Orange Co VCD	Santa Ana	92703	Rock Dove	9/10/2014	WNV	RT-PCR
Orange	Orange Co VCD	Santa Ana	92704	American Crow	9/16/2014	WNV	RT-PCR
Orange	Orange Co VCD	Santa Ana	92705	American Crow	9/15/2014	WNV	RT-PCR
Orange	Orange Co VCD	Tustin	92780	American Crow	9/10/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95652	Yellow-billed Magpie	9/11/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	Western Scrub-Jay	9/15/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95828	Western Scrub-Jay	9/11/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	9/10/2014	WNV	RT-PCR
San Bernardino	West Valley MVCD	Rancho Cucamonga	91730	American Crow	9/3/2014	WNV	RT-PCR
San Joaquin	San Joaquin Co MVCD	Lodi	95240	Western Scrub-Jay	9/15/2014	WNV	RT-PCR
San Joaquin	San Joaquin Co MVCD	Ripon	95366	Western Scrub-Jay	9/16/2014	WNV	RT-PCR
San Mateo	San Mateo Co MAD	Menlo Park	94025	Golden-Crowned Sparrow	9/10/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Campbell	95008	Common Raven	9/10/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Cupertino	95014	American Crow	9/17/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	9/12/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Los Altos	94024	American Crow	9/10/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Los Altos	94024	American Crow	9/17/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Los Altos Hills	94024	Steller's Jay	9/11/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Los Gatos	95030	American Crow	9/12/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Los Gatos	95032	American Crow	9/10/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Los Gatos	95032	American Crow	9/12/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Los Gatos	95032	Western Scrub-Jay	9/17/2014	WNV	RT-PCR

## California Arbovirus Surveillance Bulletin #31

Week 38 Friday, September 19, 2014

Santa Clara	Santa Clara Co VCD	San Jose	95117	American Crow	9/18/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95120	American Crow	9/8/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95120	American Crow	9/14/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95120	American Crow	9/17/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	9/15/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	Common Raven	9/11/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	9/12/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	9/12/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	9/16/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	9/18/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95129	American Crow	9/9/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95130	American Crow	9/12/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95138	American Crow	9/12/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Santa Clara	95050	American Crow	9/17/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Santa Clara	95051	American Crow	9/17/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	9/11/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	9/16/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	9/17/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	9/17/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	9/18/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94086	American Crow	9/16/2014	WNV	RT-PCR
Sonoma	Marin-Sonoma MVCD	Healdsburg	95448	Steller's Jay	9/17/2014	WNV	RT-PCR
Sonoma	Marin-Sonoma MVCD	Healdsburg	95448	Western Scrub-Jay	9/10/2014	WNV	RT-PCR
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95403	American Crow	9/10/2014	WNV	RT-PCR
Stanislaus	Merced Co MAD	Newman	95360	Western Scrub-Jay	9/7/2014	WNV	RT-PCR
Stanislaus	Turlock MAD	Ceres	95307	American Crow	9/9/2014	WNV	RT-PCR
Stanislaus	Turlock MAD	Modesto	95358	Unknown	9/8/2014	WNV	RT-PCR
Stanislaus	Turlock MAD	Turlock	95382	Yellow-billed Magpie	9/9/2014	WNV	RT-PCR
Tulare	Delta VCD	Visalia	93292	Scarlett Chested Parakeet	8/19/2014	WNV	RT-PCR
Tulare	Delta VCD	Visalia	93292	Western Scrub-Jay	8/13/2014	WNV	RT-PCR
Ventura	Ventura Co Env Health Dept	Port Hueneme	93041	American Crow	9/11/2014	WNV	RT-PCR
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/12/2014	WNV	RT-PCR
Yolo	Sacramento-Yolo MVCD	Davis	95618	Western Scrub-Jay	9/10/2014	WNV	RT-PCR
Yolo	Sacramento-Yolo MVCD	Davis	95618	Western Scrub-Jay	9/15/2014	WNV	RT-PCR
Yolo	Sacramento-Yolo MVCD	Woodland	95776	Western Scrub-Jay	9/11/2014	WNV	RT-PCR

### Mosquitoes

County	Site Code	Pool #	City	Species	# in Pool	Trap	Collected	Virus	Method
Alameda	ALCO217	203	Livermore	Cx. pipiens	30	CO2	9/11/14	WNV	RTPCR
Contra Costa	CNTR5548	449	Byron	Cx. pipiens	9	CO2	9/16/14	WNV	RAMP
Fresno	CNSL1202	114	Fresno	Cx. quinquefasciatus	35	BGSENT	9/11/14	WNV	RTPCR
Fresno	CNSL1628	107	Fresno	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Fresno	CNSL3335	474	Reedley	Cx. tarsalis	50	CO2	9/11/14	WNV	RTPCR
Fresno	CNSL9013	109	Clovis	Ae. aegypti	50	BGSENT	8/27/14	WNV	RTPCR
Fresno	FRWS4102	187	Kerman	Cx. tarsalis	32	CO2	9/16/14	WNV	RTPCR
Kern	KERN1105	485	Lost Hills	Cx. tarsalis	50	CO2	9/9/14	WNV	RTPCR
Kern	KERN114	483	Bakersfield	Cx. tarsalis	39	CO2	9/9/14	WNV	RTPCR
Kern	KERN3021	484	Wasco	Cx. tarsalis	20	CO2	9/9/14	WNV	RTPCR
Kern	KERN40	487	Lost Hills	Cx. tarsalis	50	CO2	9/9/14	WNV	RTPCR
Los Angeles	GRLA2081	644	Lynwood	Cx. quinquefasciatus	50	GRVD	9/12/14	WNV	RTPCR
Los Angeles	GRLA2093	646	South Gate	Cx. quinquefasciatus	26	GRVD	9/12/14	WNV	RTPCR
Los Angeles	GRLA2100	628	Norwalk	Cx. quinquefasciatus	11	GRVD	9/10/14	WNV	RTPCR

**California Arbovirus Surveillance Bulletin #31**  
 Week 38 Friday, September 19, 2014

Los Angeles	GRLA2116	642	Bell	Cx. quinquefasciatus	17	GRVD	9/12/14	WNV	RTPCR
Los Angeles	GRLA2247	619	Pico Rivera	Cx. quinquefasciatus	50	GRVD	9/10/2014	WNV	RTPCR
Los Angeles	GRLA2580	5699	Sherman Oaks	Cx. quinquefasciatus	34	GRVD	9/10/14	WNV	RTPCR
Los Angeles	GRLA2592	5721	San Marino	Cx. quinquefasciatus	50	GRVD	9/12/14	WNV	RTPCR
Los Angeles	GRLA2604	5722	Los Angeles	Cx. quinquefasciatus	21	GRVD	9/12/14	WNV	RTPCR
Los Angeles	GRLA2637	5710	Van Nuys	Cx. quinquefasciatus	42	GRVD	9/10/14	WNV	RTPCR
Los Angeles	GRLA2650	5709	Encino	Cx. quinquefasciatus	50	GRVD	9/10/14	WNV	RTPCR
Los Angeles	GRLA2953	624	Santa Fe Springs	Cx. quinquefasciatus	50	GRVD	9/10/2014	WNV	RTPCR
Los Angeles	GRLA2955	625	Cerritos	Cx. quinquefasciatus	50	GRVD	9/10/14	WNV	RTPCR
Los Angeles	GRLA3034	5706	North Hills	Cx. quinquefasciatus	50	GRVD	9/10/14	WNV	RTPCR
Los Angeles	GRLA3035	5705	North Hills	Cx. quinquefasciatus	50	GRVD	9/10/14	WNV	RTPCR
Los Angeles	GRLA3040	623	La Mirada	Cx. quinquefasciatus	42	GRVD	9/10/2014	WNV	RTPCR
Los Angeles	GRLA3041	626	Artesia	Cx. quinquefasciatus	50	GRVD	9/10/14	WNV	RTPCR
Los Angeles	GRLA3047	650	Downey	Cx. quinquefasciatus	50	GRVD	9/12/14	WNV	RTPCR
Los Angeles	GRLA3048	618	Pico Rivera	Cx. quinquefasciatus	50	GRVD	9/10/14	WNV	RTPCR
Los Angeles	GRLA3054	639	Bell Gardens	Cx. quinquefasciatus	50	GRVD	9/12/14	WNV	RTPCR
Los Angeles	GRLA3057	643	Huntington Park	Cx. quinquefasciatus	50	GRVD	9/12/14	WNV	RTPCR
Los Angeles	GRLA3058	645	Lynwood	Cx. quinquefasciatus	50	GRVD	9/12/14	WNV	RTPCR
Los Angeles	GRLA3059	647	Paramount	Cx. quinquefasciatus	50	GRVD	9/12/14	WNV	RTPCR
Los Angeles	GRLA3060	627	Norwalk	Cx. quinquefasciatus	39	GRVD	9/10/14	WNV	RTPCR
Los Angeles	GRLA3061	630	Los Angeles	Cx. quinquefasciatus	37	GRVD	9/11/14	WNV	RTPCR
Los Angeles	GRLA3063	634	Watts	Cx. quinquefasciatus	50	GRVD	9/11/14	WNV	RTPCR
Los Angeles	GRLA3064	635	Los Angeles	Cx. quinquefasciatus	50	GRVD	9/11/14	WNV	RTPCR
Los Angeles	GRLA3065	637	Los Angeles	Cx. quinquefasciatus	50	GRVD	9/11/14	WNV	RTPCR
Los Angeles	GRLA3078	5713	Los Feliz	Cx. quinquefasciatus	50	GRVD	9/11/14	WNV	RTPCR
Los Angeles	GRLA3133	5691	San Fernando	Cx. quinquefasciatus	50	GRVD	9/9/14	WNV	RTPCR
Los Angeles	LONG307	56	Long Beach	Cx. quinquefasciatus	27	CO2	9/16/14	WNV	RTPCR
Orange	ORCO1	1767	Irvine	Cx. quinquefasciatus	16	GRVD	9/11/14	WNV	RTPCR
Orange	ORCO1009	1776	Garden Grove	Cx. quinquefasciatus	50	GRVD	9/11/14	WNV	RTPCR
Orange	ORCO1015	1744	Orange	Cx. quinquefasciatus	50	GRVD	9/11/14	WNV	RTPCR
Orange	ORCO1015	1746	Orange	Cx. quinquefasciatus	56	GRVD	9/11/14	WNV	RTPCR
Orange	ORCO1020	1693	Seal Beach	Cx. quinquefasciatus	42	GRVD	9/9/14	WNV	RTPCR
Orange	ORCO130	1681	Garden Grove	Cx. quinquefasciatus	43	GRVD	9/9/14	WNV	RTPCR
Orange	ORCO16	1753	San Clemente	Cx. tarsalis	50	CO2	9/11/14	WNV	RTPCR
Orange	ORCO169	1690	Orange	Cx. quinquefasciatus	30	GRVD	9/9/14	WNV	RTPCR
Orange	ORCO193	1725	Huntington Beach	Cx. quinquefasciatus	17	GRVD	9/10/14	WNV	RTPCR
Orange	ORCO198	1709	La Habra	Cx. quinquefasciatus	50	GRVD	9/9/14	WNV	RTPCR
Orange	ORCO198	1710	La Habra	Cx. quinquefasciatus	28	GRVD	9/9/14	WNV	RTPCR
Orange	ORCO2	1705	Fullerton	Cx. quinquefasciatus	50	GRVD	9/9/14	WNV	RTPCR
Orange	ORCO205	1689	Tustin	Cx. quinquefasciatus	43	GRVD	9/9/14	WNV	RTPCR
Orange	ORCO222	1731	San Clemente	Cx. quinquefasciatus	41	GRVD	9/10/14	WNV	RTPCR
Orange	ORCO222	1732	San Clemente	Cx. quinquefasciatus	50	GRVD	9/10/14	WNV	RTPCR
Orange	ORCO222	1733	San Clemente	Cx. quinquefasciatus	15	GRVD	9/10/14	WNV	RTPCR
Orange	ORCO222	1760	San Clemente	Cx. quinquefasciatus	48	GRVD	9/11/14	WNV	RTPCR
Orange	ORCO3	1698	Garden Grove	Cx. quinquefasciatus	40	GRVD	9/9/14	WNV	RTPCR
Orange	ORCO34	1703	Brea	Cx. quinquefasciatus	50	GRVD	9/9/14	WNV	RTPCR
Orange	ORCO34	1704	Brea	Cx. quinquefasciatus	18	GRVD	9/9/14	WNV	RTPCR
Orange	ORCO36	1708	Cypress	Cx. quinquefasciatus	41	GRVD	9/9/14	WNV	RTPCR
Orange	ORCO4	1722	Huntington Beach	Cx. quinquefasciatus	49	GRVD	9/10/14	WNV	RTPCR
Orange	ORCO5	1724	Huntington Beach	Cx. quinquefasciatus	42	GRVD	9/10/14	WNV	RTPCR
Orange	ORCO7	1691	Seal Beach	Cx. quinquefasciatus	50	CO2	9/9/14	WNV	RTPCR
Orange	ORCO81	1697	Seal Beach	Cx. quinquefasciatus	48	GRVD	9/9/14	WNV	RTPCR
Orange	ORCO84	1688	Orange	Cx. quinquefasciatus	33	GRVD	9/9/14	WNV	RTPCR
Placer	PLCR688	1759	Elverta	Cx. tarsalis	10	CO2	9/16/14	WNV	RTPCR



**California Arbovirus Surveillance Bulletin #31**  
 Week 38 Friday, September 19, 2014

Riverside	COAV34	1205	Mecca	Cx. tarsalis	50	CO2	9/10/14	WNV	RTPCR
Riverside	COAV37	1193	Mecca	Cx. tarsalis	50	CO2	9/10/14	WNV	RTPCR
Riverside	COAV37	1195	Mecca	Cx. tarsalis	50	CO2	9/10/14	WNV	RTPCR
Riverside	COAV5	1203	Mecca	Cx. quinquefasciatus	9	CO2	9/10/14	WNV	RTPCR
Sacramento	SAYO213030	6219	Sacramento	Cx. tarsalis	37	CO2	9/16/14	WNV	RTPCR
Sacramento	SAYO232001	6425	Sacramento	Cx. pipiens	30	GRVD	9/18/14	WNV	RTPCR
Sacramento	SAYO233074	6463	Sacramento	Cx. tarsalis	8	CO2	9/18/14	WNV	RTPCR
Sacramento	SAYO234010	6474	Sacramento	Cx. pipiens	18	GRVD	9/18/14	WNV	RTPCR
Sacramento	SAYO234013	6482	Elk Grove	Cx. pipiens	30	GRVD	9/18/14	WNV	RTPCR
Sacramento	SAYO242017	6458	Hood	Cx. pipiens	50	CO2	9/18/14	WNV	RTPCR
Sacramento	SAYO242017	6459	Hood	Cx. pipiens	50	CO2	9/18/14	WNV	RTPCR
San Bernardino	WVAL6004	1116	Ontario	Cx. quinquefasciatus	49	GRVD	9/12/14	WNV	RTPCR
San Bernardino	WVAL6004	1118	Ontario	Cx. quinquefasciatus	32	GRVD	9/12/14	WNV	RTPCR
San Bernardino	WVAL6004	1148	Ontario	Cx. quinquefasciatus	28	GRVD	9/17/14	WNV	RTPCR
San Bernardino	WVAL6004	1149	Ontario	Cx. quinquefasciatus	15	GRVD	9/17/14	WNV	RTPCR
San Joaquin	SJCM8011	1528	Ripon	Cx. tarsalis	6	CO2	9/16/14	WNV	RTPCR
San Joaquin	SJCM8111	1536	Stockton	Cx. pipiens	50	CO2	9/16/14	WNV	RTPCR
San Joaquin	SJCM8125	1546	Stockton	Cx. tarsalis	12	CO2	9/16/14	WNV	RTPCR
San Joaquin	SJCM8161	1525	Ripon	Cx. tarsalis	21	CO2	9/16/14	WNV	RTPCR
Santa Clara	STCL1114	5499	Cupertino	Cx. pipiens	17	CO2	9/11/14	WNV	RTPCR
Stanislaus	TRLK1202	950	Hughson	Cx. pipiens	17	CO2	9/16/14	WNV	RTPCR
Stanislaus	TRLK1301	924	Denair	Cx. pipiens	50	CO2	9/11/14	WNV	RTPCR
Stanislaus	TRLK1301	926	Denair	Cx. pipiens	50	CO2	9/11/14	WNV	RTPCR
Stanislaus	TRLK1302	907	turlock	Cx. pipiens	47	CO2	9/11/14	WNV	RTPCR
Stanislaus	TRLK432	969	Turlock	Cx. pipiens	50	CO2	9/16/14	WNV	RTPCR
Stanislaus	TRLK536	910	Turlock	Cx. pipiens	50	CO2	9/11/14	WNV	RTPCR
Stanislaus	TRLK705	940	Turlock	Cx. pipiens	50	CO2	9/15/14	WNV	RTPCR
Sutter	SUYA31	378	Rio Oso	Cx. tarsalis	50	REST	9/15/14	WNV	RTPCR
Tulare	TLRE65	48	Tulare	Cx. quinquefasciatus	29	CO2	9/10/14	WNV	RTPCR
Yolo	SAYO145005	6359	Davis	Cx. tarsalis	50	CO2	9/18/14	WNV	RTPCR
Yolo	SAYO145005	6361	Davis	Cx. tarsalis	50	CO2	9/18/14	WNV	RTPCR

**Sentinel Chickens**

County	Site Code	City	Date Bled	Virus	Band 01	Band 02
Alameda	ALCO0021	Livermore	9/10/2014	WNV	1011	
Butte	BUCO0007	Chico	9/9/2014	WNV	1137	1139
Colusa	CLSA0001	Colusa	9/10/2014	WNV	1283	1288
Los Angeles	LACW1006	Playa del Rey	9/10/2014	WNV	1635	1709
Los Angeles	LACW1007	Baldwin Hills	9/11/2014	WNV	1640	
Los Angeles	LACW1009	Los Angeles	9/3/2014	WNV	1646	1648
Los Angeles	LACW1026	Beverly Hills	9/9/2014	WNV	1692	1696
Merced	MERC0001	Merced	9/5/2014	WNV	1786	
Merced	MERC0502	Hilmar	9/5/2014	WNV	1764	
Riverside	NWST9227	Riverside	9/8/2014	WNV	2296	
Riverside	NWST9401	Corona	9/8/2014	WNV	2274	
Shasta	SHAS9702	Millville	9/11/2014	WNV	2173	
Sonoma	MARN0118	Cloverdale	9/8/2014	WNV	1525	
Sutter	SUYA0014	Sutter	9/11/2014	WNV	2248	
Tehama	TEHA0001	Red Bluff	9/10/2014	WNV	2512	
Tehama	TEHA0100	Corning	9/10/2014	WNV	2525	2528
Tehama	TEHA0066	Cottonwood	9/10/2014	WNV	2508	2509
Yuba	SUYA0010	Olivehurst	9/11/2014	WNV	2215	2218

## California Arbovirus Surveillance Bulletin #31

Week 38 Friday, September 19, 2014

### 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.

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**Dead Birds**

Oral swab samples from corvids are collected onto RNase 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.

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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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*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) 412-6253 or email: [tina.feiszli@cdph.ca.gov](mailto:tina.feiszli@cdph.ca.gov).*

*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)*