

# California Arbovirus Surveillance Bulletin #20

Week 27 Thursday, July 3, 2014



## WEEKLY UPDATE

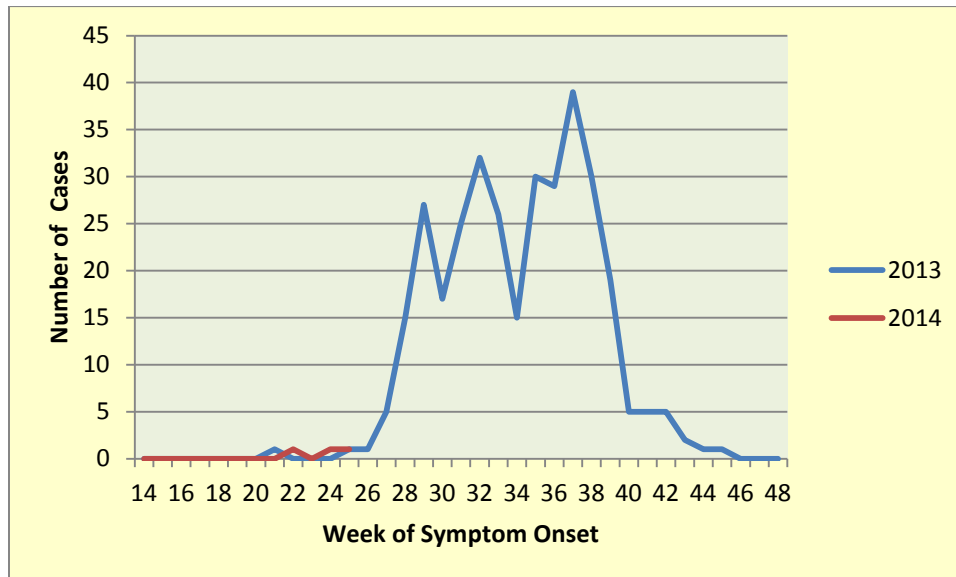
### Humans

**One new human case of West Nile virus (WNV) has been reported from Stanislaus County.**

As of June 30, 2014, a total of three human cases of WNV illness have been reported from three counties: Contra Costa (1), Stanislaus (1), and Tulare (1). Of the three case-patients, two (66%) had neuroinvasive illness. The median age of the three individuals where data are available is 72 years (range: 72-75 years); two (66%) of three case-patients are male. Dates of symptom onset range from May 27 to June 16, 2014. No WNV-related fatalities have been reported in 2014. In addition, two WNV-positive blood donors have been reported this year from San Joaquin and Stanislaus counties; none have developed symptoms. At this time last year, one human WNV case had been reported from Sacramento County.

National Comments: As of July 1, 2014, eight WNV human cases have been reported from six states. Of these, six (75%) were classified as neuroinvasive disease and one fatality has been reported.

**YTD WNV Human Cases**



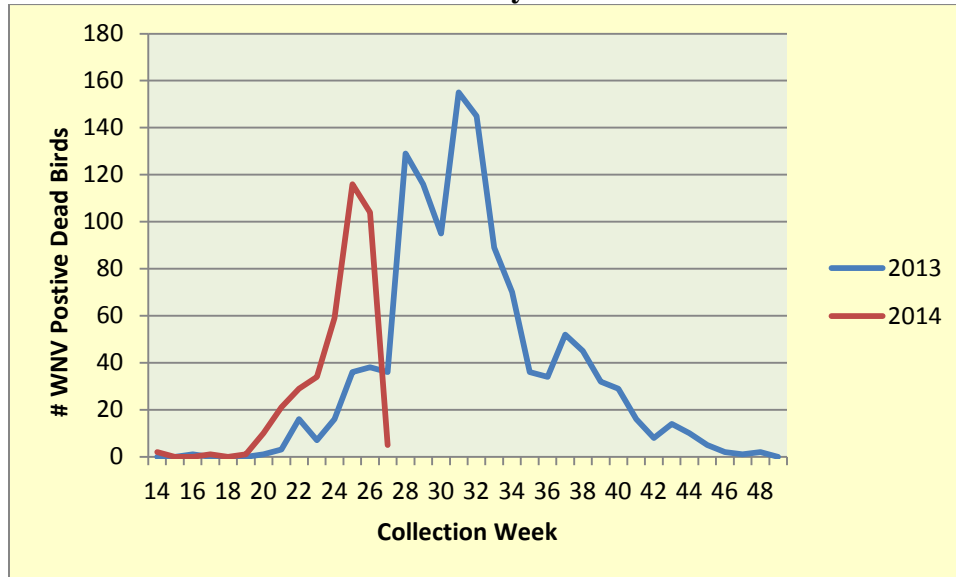
## California Arbovirus Surveillance Bulletin #20

Week 27 Thursday, July 3, 2014

### Dead Birds

A total of 68 WNV positive dead birds were reported this week from the following 11 counties: Alameda (5), Butte (1), Contra Costa (2), Orange (5), Sacramento (3), San Joaquin (3), Santa Clara (40), Solano (3), Stanislaus (2), Tulare (2), and Yolo (2). **This is the first indication of WNV activity in Alameda and Butte counties this year.** To date this year, 392 birds have tested positive for WNV from 21 counties. At this time last year, 106 WNV positive dead birds had been detected in 19 counties.

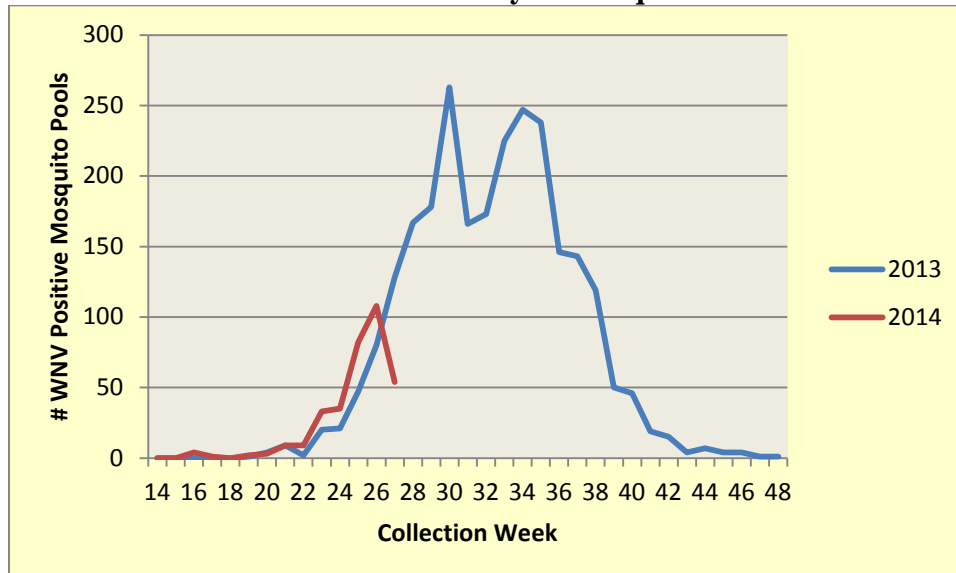
YTD WNV Activity in Dead Birds



### Mosquito Pools

A total of 106 WNV positive mosquito pools were reported this week from the following 16 counties: Fresno (2), Kern (7), Kings (4), Los Angeles (2), Madera (3), Marin (1), Orange (20), Placer (4), Sacramento (19), San Joaquin (9), Santa Clara (3), Shasta (2), Stanislaus (3), Sutter (2), Tulare (24), and Yuba (1). **This is the first indication of WNV activity in Kings and Shasta counties in 2014, and the first positive mosquito pool reported from Marin County this year.** In 2014, 340 mosquito pools from 23 counties have tested positive for WNV. At this time last year, 237 WNV positive mosquito pools had been reported from 17 counties.

YTD WNV Activity in Mosquitoes



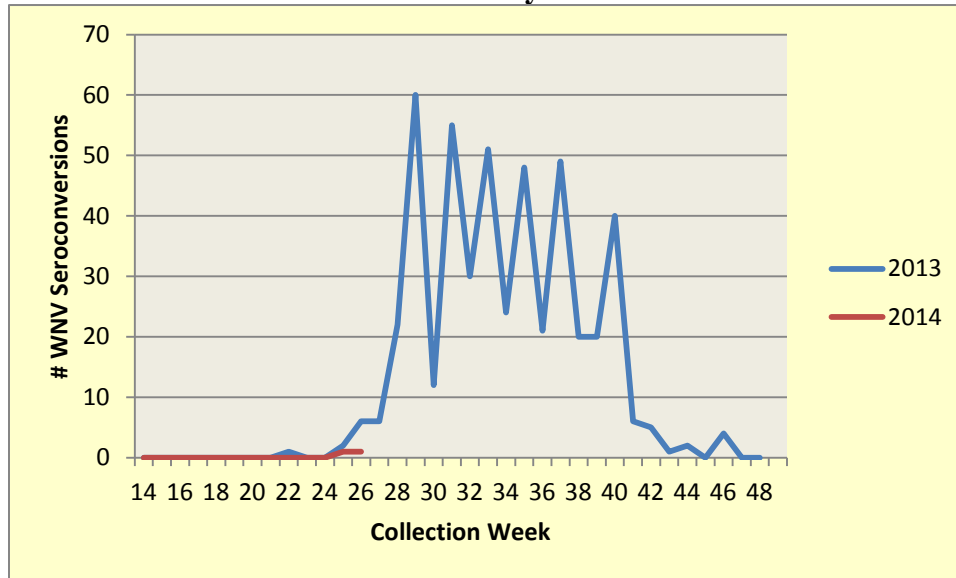
## California Arbovirus Surveillance Bulletin #20

Week 27 Thursday, July 3, 2014

### Sentinel Chickens

Two WNV seroconversions were reported this week from flocks located in Contra Costa (1) and San Bernardino (1) counties. These are the first seroconversions reported from both of these counties in 2014. To date this year, three WNV positive chickens have been reported from three flocks in three counties. At this time last year, seven WNV seroconversions had been reported from three flocks in two counties.

YTD WNV Activity in Chickens



## California Arbovirus Surveillance Bulletin #20

Week 27 Thursday, July 3, 2014

<b>YTD Activity by Element and County, 2014</b>				
County	Humans*	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		5		
Butte		1		
Contra Costa	1	10	1	1
Fresno		3	14	
Kern			11	
Kings			4	
Lake		3	4	
Los Angeles		3	5	1
Madera		2	5	
Marin		2	1	
Orange		17	33	
Placer		3	6	
Sacramento		38	76	
San Bernardino			8	1
San Joaquin		8	47	
San Mateo		1	1	
Santa Clara		237	16	
Shasta			2	
Solano		10	5	
Sonoma		2	2	
Stanislaus	1	10	10	
Sutter		2	7	
Tulare	1	28	64	
Yolo		6	15	
Yuba		1	3	
<b>Totals</b>	<b>3</b>	<b>392</b>	<b>340</b>	<b>3</b>

*\*Total does not include asymptomatic infections*

<b>2013 &amp; 2014 YTD West Nile Virus Comparisons</b>		
	<b>2013</b>	<b>2014</b>
Total # Dead Bird Reports	6,014	4,981
# Positive Counties	24	25
# Human Cases	1	3
# Positive Dead Birds / # Tested	106 / 1,183	392 / 1,085
# Positive Mosquito Pools / # Tested	237 / 12,745	340 / 9,467
# Seroconversions / # Tested	7 / 6,773	3 / 5,970

# California Arbovirus Surveillance Bulletin #20

Week 27 Thursday, July 3, 2014

## TESTING SUMMARIES

### Humans

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	1	0	0	0	0	0
	YTD	3	0	0	0	0	0

### Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	144	68
	YTD	1,085	392

### Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	505	2	0	0
	YTD	5,970	3	0	0
Mosquito Pools	Week	1,208	106	0	0
	YTD	9,467	340	0	0

## NEW POSITIVES

### Dead Birds

County	Agency	City	Zip	Species	Reported	Virus	Method
Alameda	Alameda Co MAD	Castro Valley	94546	American Crow	6/30/2014	WNV	RAMP
Alameda	Alameda Co MAD	Livermore	94550	American Crow	5/27/2014	WNV	RAMP
Alameda	Alameda Co MAD	Livermore	94550	American Crow	6/27/2014	WNV	RAMP
Alameda	Alameda Co MAD	Livermore	94551	American Crow	6/6/2014	WNV	RAMP
Alameda	Alameda Co MAD	Livermore	94551	American Crow	6/25/2014	WNV	RAMP
Butte	Butte Co MVCD	Oroville	95965	American Crow	6/24/2014	WNV	RT-PCR
Contra Costa	Contra Costa MVCD	Bethel Island	94511	American Crow	7/2/2014	WNV	RAMP
Contra Costa	Contra Costa MVCD	San Ramon	94583	American Crow	6/26/2014	WNV	RAMP
Orange	Orange Co VCD	Santa Ana	92704	House Finch	6/19/2014	WNV	RT-PCR
Orange	Orange Co VCD	Santa Ana	92704	American Crow	6/24/2014	WNV	RT-PCR
Orange	Orange Co VCD	Santa Ana	92706	American Crow	6/19/2014	WNV	RT-PCR
Orange	Orange Co VCD	Santa Ana	92706	American Crow	6/23/2014	WNV	RT-PCR
Orange	Orange Co VCD	Santa Ana	92780	American Crow	6/26/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Yellow-billed Magpie	6/24/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95817	American Crow	6/24/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	6/25/2014	WNV	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95207	Western Scrub-Jay	6/30/2014	WNV	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95210	House Sparrow	6/25/2014	WNV	RT-PCR
San Joaquin	San Joaquin Co MVCD	Lodi	95240	American Crow	6/26/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94086	American Crow	6/27/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94086	American Crow	6/27/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94086	American Crow	6/27/2014	WNV	RT-PCR

## California Arbovirus Surveillance Bulletin #20

Week 27 Thursday, July 3, 2014

Santa Clara	Santa Clara Co VCD	Sunnyvale	94086	American Crow	6/27/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94086	American Crow	6/25/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	6/24/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	6/26/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	6/26/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	6/27/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	6/27/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	6/27/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	6/27/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	6/25/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	6/25/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	6/25/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	6/25/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Campbell	95008	American Crow	6/27/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Cupertino	95014	American Crow	6/23/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Cupertino	95014	American Crow	6/27/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95117	American Crow	6/26/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95117	American Crow	6/26/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95117	American Crow	6/27/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95118	American Crow	6/27/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95118	American Crow	6/27/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95118	American Crow	6/25/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95123	American Crow	6/25/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	6/23/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	6/26/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	6/26/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	6/25/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	6/27/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	6/27/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	6/25/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	6/25/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	6/25/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	6/27/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	6/27/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95129	American Crow	6/27/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95129	American Crow	6/26/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95129	American Crow	6/26/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95129	American Crow	6/25/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95129	American Crow	6/25/2014	WNV	RT-PCR
Solano	Solano Co MAD	Fairfield	94533	American Crow	6/29/2014	WNV	RAMP
Solano	Solano Co MAD	Vacaville	95687	Western Scrub-Jay	6/27/2014	WNV	RAMP
Solano	Solano Co MAD	Vacaville	95687	American Crow	6/27/2014	WNV	RAMP
Stanislaus	East Side MAD	Oakdale	95361	Western Scrub-Jay	6/25/2014	WNV	RT-PCR
Stanislaus	Turlock MAD	Turlock	95382	Yellow-billed Magpie	6/25/2014	WNV	RT-PCR
Tulare	Delta VCD	Visalia	93277	American Crow	6/30/2014	WNV	RT-PCR
Tulare	Delta VCD	Visalia	93277	Western Scrub-Jay	6/27/2014	WNV	RT-PCR
Yolo	Sacramento-Yolo MVCD	Davis	95616	House Finch	6/25/2014	WNV	RT-PCR
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	6/25/2014	WNV	RT-PCR

### Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus	Method
Fresno	CNSL1292	352	Cx. quinquefasciatus	Fresno	37	GRVD	7/1/2014	WNV	RTPCR
Fresno	CNSL1846	351	Cx. quinquefasciatus	Fresno	50	GRVD	7/1/2014	WNV	RTPCR
Kern	KERN2001	172	Cx. quinquefasciatus	Bakersfield	45	CO2	6/26/2014	WNV	RTPCR

## California Arbovirus Surveillance Bulletin #20

Week 27 Thursday, July 3, 2014

Kern	KERN2018	163	Cx. quinquefasciatus	Bakersfield	18	GRVD	6/25/2014	WNV	RTPCR
Kern	KERN2028	167	Cx. quinquefasciatus	Bakersfield	50	GRVD	6/25/2014	WNV	RTPCR
Kern	KERN2030	164	Cx. quinquefasciatus	Bakersfield	50	GRVD	6/25/2014	WNV	RTPCR
Kern	KERN3017	168	Cx. quinquefasciatus	Bakersfield	50	CO2	6/25/2014	WNV	RTPCR
Kern	WEST6231	50	Cx. quinquefasciatus	Taft	50	GRVD	7/2/2014	WNV	RTPCR
Kern	WEST6231	51	Cx. quinquefasciatus	Taft	50	GRVD	7/2/2014	WNV	RTPCR
Kings	KNGS3102	40	Cx. pipiens	Armona	19	CO2	6/24/2014	WNV	RTPCR
Kings	KNGS3102	41	Cx. tarsalis	Armona	50	CO2	6/24/2014	WNV	RTPCR
Kings	KNGS3102	42	Cx. tarsalis	Armona	50	CO2	6/24/2014	WNV	RTPCR
Kings	KNGS3102	43	Cx. tarsalis	Armona	37	CO2	6/24/2014	WNV	RTPCR
Los Angeles	GRLA2029	5332	Cx. quinquefasciatus	Canoga Park	50	GRVD	6/24/2014	WNV	RTPCR
Los Angeles	GRLA2593	5369	Cx. quinquefasciatus	San Marino	50	GRVD	6/27/2014	WNV	RTPCR
Madera	MADR202	43	Cx. tarsalis	Madera	25	CO2	6/24/2014	WNV	RTPCR
Madera	MADR203	53	Cx. tarsalis		20	CO2	7/1/2014	WNV	RTPCR
Madera	MADR204	54	Cx. tarsalis	Madera	40	CO2	7/1/2014	WNV	RTPCR
Marin	MARN224	300	Cx. tarsalis	Novato	5	CO2	6/27/2014	WNV	RTPCR
Orange	ORCO168	528	Cx. quinquefasciatus	Santa Ana	50	GRVD	6/24/2014	WNV	RTPCR
Orange	ORCO170	525	Cx. quinquefasciatus	Anaheim	52	GRVD	6/24/2014	WNV	RTPCR
Orange	ORCO198	422	Cx. quinquefasciatus	La Habra	50	GRVD	6/17/2014	WNV	RTPCR
Orange	ORCO198	513	Cx. quinquefasciatus	La Habra	50	GRVD	6/24/2014	WNV	RTPCR
Orange	ORCO198	514	Cx. quinquefasciatus	La Habra	50	GRVD	6/24/2014	WNV	RTPCR
Orange	ORCO204	504	Cx. quinquefasciatus	Fullerton	38	GRVD	6/24/2014	WNV	RTPCR
Orange	ORCO205	507	Cx. quinquefasciatus	Tustin	50	GRVD	6/24/2014	WNV	RTPCR
Orange	ORCO217	565	Cx. quinquefasciatus	Santa Ana	18	CO2	6/26/2014	WNV	RTPCR
Orange	ORCO217	566	Cx. quinquefasciatus	Santa Ana	19	CO2	6/26/2014	WNV	RTPCR
Orange	ORCO217	583	Cx. quinquefasciatus	Santa Ana	50	CO2	6/26/2014	WNV	RTPCR
Orange	ORCO29	569	Cx. quinquefasciatus	Santa Ana	37	CO2	6/26/2014	WNV	RTPCR
Orange	ORCO3	378	Cx. quinquefasciatus	Garden Grove	27	CO2	6/12/2014	WNV	RTPCR
Orange	ORCO3	393	Cx. quinquefasciatus	Garden Grove	50	CO2	6/12/2014	WNV	RTPCR
Orange	ORCO3	457	Cx. quinquefasciatus	Garden Grove	48	CO2	6/19/2014	WNV	RTPCR
Orange	ORCO3	483	Cx. quinquefasciatus	Garden Grove	28	CO2	6/19/2014	WNV	RTPCR
Orange	ORCO3	488	Cx. quinquefasciatus	Garden Grove	50	CO2	6/19/2014	WNV	RTPCR
Orange	ORCO3	489	Cx. quinquefasciatus	Garden Grove	50	CO2	6/19/2014	WNV	RTPCR
Orange	ORCO3	491	Cx. quinquefasciatus	Garden Grove	50	CO2	6/19/2014	WNV	RTPCR
Orange	ORCO3	492	Cx. quinquefasciatus	Garden Grove	50	CO2	6/19/2014	WNV	RTPCR
Orange	ORCO62	496	Cx. quinquefasciatus	San Clemente	35	CO2	6/19/2014	WNV	RTPCR
Placer	PLCR1113	620	Cx. tarsalis	Pleasant Grove	50	CO2	7/1/2014	WNV	RTPCR
Placer	PLCR1113	623	Cx. tarsalis	Pleasant Grove	50	CO2	7/1/2014	WNV	RTPCR
Placer	PLCR672	677	Cx. tarsalis	Granite Bay	6	CO2	7/2/2014	WNV	RTPCR
Placer	PLCR82	692	Cx. stigmatosoma	Lincoln	8	CO2	7/2/2014	WNV	RTPCR
Sacramento	SAYO204013	2093	Cx. tarsalis	Citrus Heights	16	CO2	7/1/2014	WNV	RTPCR
Sacramento	SAYO204013	2094	Cx. pipiens	Citrus Heights	6	CO2	7/1/2014	WNV	RTPCR
Sacramento	SAYO204013	2095	Cx. pipiens	Citrus Heights	18	GRVD	7/1/2014	WNV	RTPCR
Sacramento	SAYO204023	2076	Cx. pipiens	Citrus Heights	17	GRVD	7/1/2014	WNV	RTPCR
Sacramento	SAYO204037	2116	Cx. pipiens	Citrus Heights	43	GRVD	7/1/2014	WNV	RTPCR
Sacramento	SAYO214011	2077	Cx. tarsalis	Fair Oaks	13	CO2	7/1/2014	WNV	RTPCR
Sacramento	SAYO214013	2117	Cx. tarsalis	Carmichael	50	CO2	7/1/2014	WNV	RTPCR
Sacramento	SAYO214013	2118	Cx. tarsalis	Carmichael	41	CO2	7/1/2014	WNV	RTPCR
Sacramento	SAYO214013	2119	Cx. pipiens	Carmichael	21	CO2	7/1/2014	WNV	RTPCR
Sacramento	SAYO233009	2209	Cx. tarsalis	Elk Grove	50	CO2	7/1/2014	WNV	RTPCR
Sacramento	SAYO233015	2174	Cx. pipiens	Sacramento	50	GRVD	7/1/2014	WNV	RTPCR
Sacramento	SAYO233052	2179	Cx. tarsalis	Sacramento	50	CO2	7/1/2014	WNV	RTPCR
Sacramento	SAYO233052	2180	Cx. tarsalis	Sacramento	31	CO2	7/1/2014	WNV	RTPCR
Sacramento	SAYO233052	2181	Cx. pipiens	Sacramento	12	CO2	7/1/2014	WNV	RTPCR

## California Arbovirus Surveillance Bulletin #20

Week 27 Thursday, July 3, 2014

Sacramento	SAYO261002	2220	Cx. tarsalis	Isleton	50	CO2	7/1/2014	WNV	RTPCR
Sacramento	SAYO261002	2221	Cx. tarsalis	Isleton	17	CO2	7/1/2014	WNV	RTPCR
Sacramento	SAYO261003	2225	Cx. tarsalis	Isleton	50	CO2	7/1/2014	WNV	RTPCR
Sacramento	SAYO261003	2226	Cx. tarsalis	Isleton	50	CO2	7/1/2014	WNV	RTPCR
Sacramento	SAYO261003	2227	Cx. tarsalis	Isleton	46	CO2	7/1/2014	WNV	RTPCR
San Joaquin	SJCM7021	744	Cx. pipiens	Stockton	15	GRVD	7/1/2014	WNV	RTPCR
San Joaquin	SJCM7025	736	Cx. pipiens	Tracy	16	GRVD	7/1/2014	WNV	RTPCR
San Joaquin	SJCM8018	740	Cx. tarsalis	Stockton	58	CO2	7/1/2014	WNV	RTPCR
San Joaquin	SJCM8100	729	Cx. tarsalis	Tracy	39	CO2	7/1/2014	WNV	RTPCR
San Joaquin	SJCM8109	722	Cx. tarsalis	Escalon	50	CO2	7/1/2014	WNV	RTPCR
San Joaquin	SJCM8109	723	Cx. tarsalis	Escalon	50	CO2	7/1/2014	WNV	RTPCR
San Joaquin	SJCM8159	742	Cx. tarsalis	Stockton	13	CO2	7/1/2014	WNV	RTPCR
San Joaquin	SJCM8161	720	Cx. pipiens	Ripon	50	CO2	7/1/2014	WNV	RTPCR
San Joaquin	SJCM8161	721	Cx. pipiens	Ripon	53	CO2	7/1/2014	WNV	RTPCR
Santa Clara	STCL1620	5284	Cx. pipiens	San Jose	10	CO2	6/28/2014	WNV	RTPCR
Santa Clara	STCL1784	5274	Cx. pipiens	Cupertino	25	CO2	6/27/2014	WNV	RTPCR
Santa Clara	STCL1784	5277	Cx. tarsalis	Cupertino	17	CO2	6/27/2014	WNV	RTPCR
Shasta	SHAS10110	142	Cx. pipiens	Anderson	24	CO2	7/2/2014	WNV	RTPCR
Shasta	SHAS116	105	Cx. pipiens	Anderson	30	CO2	6/24/2014	WNV	RTPCR
Stanislaus	EAST1078	14081	Cx. pipiens	Riverbank	50	CO2	6/25/2014	WNV	RTPCR
Stanislaus	TRLK1303	242	Cx. tarsalis	Patterson	14	CO2	7/1/2014	WNV	RTPCR
Stanislaus	TRLK424	246	Cx. tarsalis	Patterson	45	CO2	7/1/2014	WNV	RTPCR
Sutter	SUYA16	146	Cx. tarsalis	Pleasant Grove	50	REST	6/30/2014	WNV	RTPCR
Sutter	SUYA31	144	Cx. tarsalis	Rio Oso	50	REST	6/30/2014	WNV	RTPCR
Tulare	DLTA6417	298	Cx. quinquefasciatus	Dinuba	9	GRVD	6/25/2014	WNV	RTPCR
Tulare	DLTA8413	321	Cx. quinquefasciatus	Visalia	20	GRVD	6/27/2014	WNV	RTPCR
Tulare	DLTA8419	296	Cx. quinquefasciatus	Goshen	50	GRVD	6/25/2014	WNV	RTPCR
Tulare	DLTA8424	301	Cx. quinquefasciatus	Visalia	22	GRVD	6/25/2014	WNV	RTPCR
Tulare	DLTA8521	314	Cx. quinquefasciatus	Visalia	11	GRVD	6/26/2014	WNV	RTPCR
Tulare	DLTA8532	337	Cx. quinquefasciatus	Visalia	12	GRVD	7/1/2014	WNV	RTPCR
Tulare	DLTA8532	339	Cx. quinquefasciatus	Visalia	26	GRVD	7/1/2014	WNV	RTPCR
Tulare	DLTA8532	340	Cx. quinquefasciatus	Visalia	12	GRVD	7/1/2014	WNV	RTPCR
Tulare	DLTA8533	346	Cx. quinquefasciatus	Visalia	20	GRVD	7/1/2014	WNV	RTPCR
Tulare	DLTA8533	347	Cx. quinquefasciatus	Visalia	23	GRVD	7/1/2014	WNV	RTPCR
Tulare	DLTA8533	348	Cx. quinquefasciatus	Visalia	32	GRVD	7/1/2014	WNV	RTPCR
Tulare	DLTA8534	343	Cx. quinquefasciatus	Visalia	8	GRVD	7/1/2014	WNV	RTPCR
Tulare	DLTA8534	345	Cx. quinquefasciatus	Visalia	32	GRVD	7/1/2014	WNV	RTPCR
Tulare	DLTA9401	307	Cx. quinquefasciatus	Visalia	15	GRVD	6/25/2014	WNV	RTPCR
Tulare	DLTA9403	309	Cx. quinquefasciatus	Visalia	13	GRVD	6/25/2014	WNV	RTPCR
Tulare	DLTA9504	330	Cx. quinquefasciatus	Visalia	41	GRVD	6/27/2014	WNV	RTPCR
Tulare	DLTA9504	331	Cx. quinquefasciatus	Visalia	26	GRVD	6/27/2014	WNV	RTPCR
Tulare	DLTA9504	332	Cx. quinquefasciatus	Visalia	50	GRVD	6/27/2014	WNV	RTPCR
Tulare	DLTA9504	333	Cx. quinquefasciatus	Visalia	21	GRVD	6/27/2014	WNV	RTPCR
Tulare	DLTA9505	334	Cx. quinquefasciatus	Visalia	15	GRVD	7/1/2014	WNV	RTPCR
Tulare	DLTA9505	335	Cx. quinquefasciatus	Visalia	8	GRVD	7/1/2014	WNV	RTPCR
Tulare	DLTA9506	323	Cx. quinquefasciatus	Visalia	22	GRVD	6/27/2014	WNV	RTPCR
Tulare	DLTA9506	325	Cx. quinquefasciatus	Visalia	19	GRVD	6/27/2014	WNV	RTPCR
Tulare	DLTA9506	328	Cx. quinquefasciatus	Visalia	28	GRVD	6/27/2014	WNV	RTPCR
Yuba	SUYA97	141	Cx. tarsalis	Marysville	42	REST	6/30/2014	WNV	RTPCR



## California Arbovirus Surveillance Bulletin #20

Week 27 Thursday, July 3, 2014

### Chickens

County	Site Code	City	Date Bled	Virus	Band 01
Contra Costa	CNTR8152	Knightsen	6/16/2014	WNV	1304
San Bernardino	SANB0011	Rialto	6/24/2014	WNV	2026

## 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.westmile.ca.gov](http://www.westmile.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.westmilemaps.usgs.gov](http://www.westmilemaps.usgs.gov).*