

# California Arbovirus Surveillance Bulletin #19

Week 26 Friday, June 27, 2014



## WEEKLY UPDATE

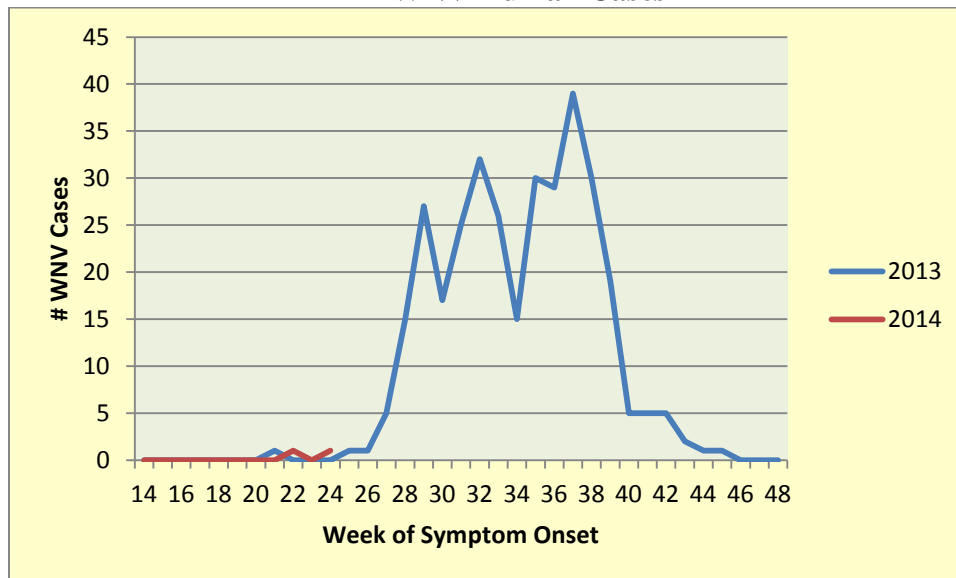
### Humans

**One new human case of West Nile virus (WNV) was reported this week from Tulare County.**

As of June 26, 2014, a total of two human cases of WNV illness have been reported from two counties: Contra Costa (1) and Tulare (1). Both case-patients (100%) had neuroinvasive illness. The median age of the two individuals is 74 years, and both are male. Dates of symptom onset range from May 27 to June 12. No WNV-related fatalities have been reported to date. A total of one asymptomatic WNV-positive blood donor has been reported this year. At this time last year, one human WNV case had been reported from Sacramento County.

National Comments: As of June 10, 2014, two WNV human cases have been reported from Mississippi. Of these, one (50%) was classified as neuroinvasive disease; no fatalities have been reported.

**YTD WNV Human Cases**



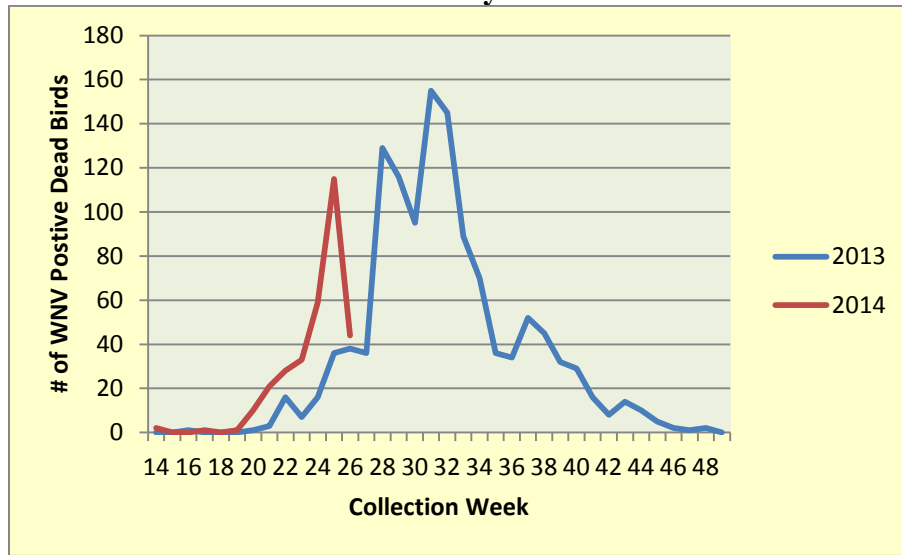
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### Dead Birds

A total of 128 WNV positive dead birds were reported this week from the following 21 counties: Contra Costa (2), Fresno (1), Los Angeles (1), Marin (1), Orange (4), Placer (2), Sacramento (14), San Joaquin (3), Santa Clara (85), Solano (3), Sonoma (2), Stanislaus (2), Sutter (1), Tulare (6), and Yuba (1). **These are the first WNV positive dead birds detected in Sonoma and Yuba counties this year.** To date this year, 324 birds have tested positive for WNV from 19 counties. At this time last year, 66 WNV positive dead birds had been detected in 16 counties.

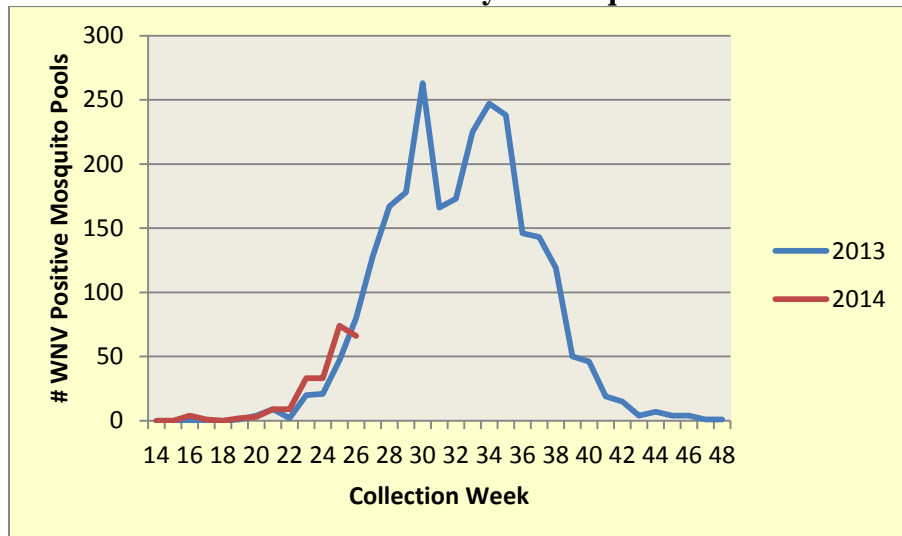
#### YTD WNV Activity in Dead Birds



### Mosquito Pools

This week, 111 WNV positive mosquito pools were reported from the following 17 counties: Contra Costa (1), Fresno (6), Kern (3), Lake (2), Los Angeles (1), Madera (2), Orange (10), Placer (1), Sacramento (35), San Joaquin (13), Santa Clara (4), Solano (3), Stanislaus (3), Sutter (4), Tulare (13), Yolo (9), and Yuba (1). **These are the first WNV positive mosquito pools reported from Contra Costa and Madera counties this year.** In 2014, 234 mosquito pools from 20 counties have tested positive for WNV. At this time last year, 124 WNV positive mosquito pools had been reported from 16 counties.

#### YTD WNV Activity in Mosquitoes



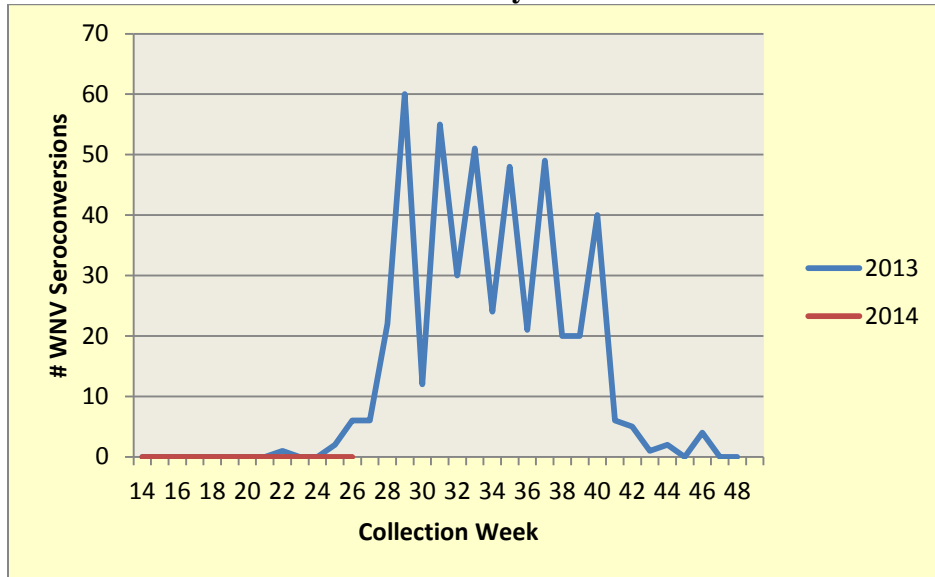
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### Sentinel Chickens

No seroconversions were reported this week. To date this year, one WNV positive chicken has been reported from Los Angeles County. At this time last year, one WNV seroconversion had been reported from Los Angeles County.

YTD WNV Activity in Chickens



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YTD Activity by Element and County, 2014				
County	Humans*	Dead Birds	Mosquito Pools	Sentinel Chickens
Contra Costa	1	8	1	
Fresno		3	12	
Kern			4	
Lake		3	4	
Los Angeles		3	3	1
Madera		2	2	
Marin		2		
Orange		12	13	
Placer		3	2	
Sacramento		35	57	
San Bernardino			8	
San Joaquin		5	38	
San Mateo		1	1	
Santa Clara		197	13	
Solano		7	5	
Sonoma		2	2	
Stanislaus		8	7	
Sutter		2	5	
Tulare	1	26	40	
Yolo		4	15	
Yuba		1	2	
<b>Totals</b>	<b>2</b>	<b>324</b>	<b>234</b>	<b>1</b>

*\*Total does not include asymptomatic infections*

2013 & 2014 YTD West Nile Virus Comparisons		
	2013	2014
Total # Dead Bird Reports	5,468	4,490
# Positive Counties	19	21
# Human Cases	1	2
# Positive Dead Birds / # Tested	66 / 1,072	324 / 941
# Positive Mosquito Pools / # Tested	124 / 12,632	234 / 8,259
# Seroconversions / # Tested	1 / 6,241	1 / 5,465

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## TESTING SUMMARIES

### Humans

Human Cases	Week	WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
		1	0	0	0	0	0
YTD	2	0	0	0	0	0	

### Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	185	128
	YTD	941	324

### Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	437	0	0	0
	YTD	5,465	1	0	0
Mosquito Pools	Week	1,181	111	0	0
	YTD	8,259	234	0	0

## NEW POSITIVES

### Dead Birds

County	Agency	City	Zip	Species	Reported	Virus	Method
Contra Costa	Contra Costa MVCD	Antioch	94509	American Crow	6/25/2014	WNV	RAMP
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	6/20/2014	WNV	RAMP
Fresno	Fresno MVCD	Fresno	93711	Western Scrub-Jay	6/19/2014	WNV	RAMP
Los Angeles	Greater LA Co VCD - SFS	Hacienda Heights	91745	American Crow	6/5/2014	WNV	RT-PCR
Marin	Marin-Sonoma MVCD	Novato	94945	Western Scrub-Jay	6/17/2014	WNV	RT-PCR
Orange	Orange Co VCD	Costa Mesa	92626	American Crow	6/16/2014	WNV	RT-PCR
Orange	Orange Co VCD	Costa Mesa	92626	American Crow	6/16/2014	WNV	RT-PCR
Orange	Orange Co VCD	Costa Mesa	92626	American Crow	6/16/2014	WNV	RT-PCR
Orange	Orange Co VCD	Anaheim	92804	American Crow	6/17/2014	WNV	RT-PCR
Placer	Placer MVCD	Lincoln	95648	American Robin	6/19/2014	WNV	RT-PCR
Placer	Placer MVCD	Loomis	95650	Western Scrub-Jay	6/19/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	6/21/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	House Finch	6/22/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95621	Western Scrub-Jay	6/23/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	6/18/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	6/20/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	6/19/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	American Crow	6/19/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95757	American Crow	6/23/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95818	American Crow	6/20/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	American Crow	6/19/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	6/20/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	6/18/2014	WNV	RT-PCR



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Santa Clara	Santa Clara Co VCD	San Jose	95117	American Crow	6/20/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95117	American Crow	6/18/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95117	American Crow	6/24/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95117	American Crow	6/24/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95118	American Crow	6/17/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95118	American Crow	6/18/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95118	American Crow	6/19/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95118	American Crow	6/24/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95118	American Crow	6/24/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	6/19/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	6/19/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	6/24/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	6/22/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	6/20/2014	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	6/22/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	6/19/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	6/19/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	6/19/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	6/19/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	6/19/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	6/19/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	6/19/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	6/19/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	6/19/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	6/18/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	6/20/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	6/23/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	6/20/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	6/24/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95128	American Crow	6/17/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95128	American Crow	6/18/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95128	American Crow	6/23/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95129	American Crow	6/20/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95129	American Crow	6/23/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95129	American Crow	6/23/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95129	American Crow	6/23/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95129	American Crow	6/24/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95130	American Crow	6/20/2014	WNV	RT-PCR
Solano	Solano Co MAD	Fairfield	94534	Common Raven	6/26/2014	WNV	RAMP
Solano	Solano Co MAD	Vacaville	95687	American Crow	6/19/2014	WNV	RAMP
Solano	Solano Co MAD	Vacaville	95687	American Crow	6/19/2014	WNV	RAMP
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95403	Common Raven	6/23/2014	WNV	RT-PCR
Sonoma	Marin-Sonoma MVCD	Sebastopol	95472	Western Scrub-Jay	6/18/2014	WNV	RT-PCR
Stanislaus	East Side MAD	Modesto	95350	Western Scrub-Jay	6/16/2014	WNV	RT-PCR
Stanislaus	Turlock MAD	Turlock	95382	Common Raven	6/20/2014	WNV	RT-PCR
Sutter	Sutter-Yuba MVCD	Yuba City	95991	Northern Mockingbird	6/23/2014	WNV	RT-PCR
Tulare	Delta VCD	Visalia	93277	American Crow	6/18/2014	WNV	RT-PCR
Tulare	Delta VCD	Visalia	93277	Western Scrub-Jay	6/18/2014	WNV	RT-PCR
Tulare	Delta VCD	Visalia	93277	American Crow	6/23/2014	WNV	RT-PCR
Tulare	Delta VCD	Visalia	93277	American Crow	6/26/2014	WNV	RT-PCR
Tulare	Delta VCD	Visalia	93291	American Crow	6/17/2014	WNV	RT-PCR
Tulare	Delta VCD	Visalia	93291	House Finch	6/18/2014	WNV	RT-PCR
Yuba	Sutter-Yuba MVCD	Marysville	95901	American Crow	6/20/2014	WNV	RT-PCR

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### Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus	Method
Contra Costa	CNTR8152	138	Cx. tarsalis	Knightsen	10	CO2	6/23/2014	WNV	RTPCR
Fresno	CNSL1121	39	Cx. quinquefasciatus	Fresno	21	GRVD	6/20/2014	WNV	RTPCR
Fresno	CNSL1793	37	Cx. quinquefasciatus	Clovis	50	GRVD	6/19/2014	WNV	RTPCR
Fresno	CNSL1843	331	Cx. quinquefasciatus	Clovis	50	GRVD	6/19/2014	WNV	RTPCR
Fresno	CNSL1844	332	Cx. quinquefasciatus	Clovis	50	GRVD	6/19/2014	WNV	RTPCR
Fresno	CNSL1845	40	Cx. quinquefasciatus	Fresno	40	GRVD	6/24/2014	WNV	RTPCR
Fresno	CNSL2020	35	Cx. quinquefasciatus	Clovis	50	GRVD	6/18/2014	WNV	RTPCR
Kern	KERN12	148	Cx. quinquefasciatus	Bakersfield	34	CO2	6/20/2014	WNV	RTPCR
Kern	KERN121	132	Cx. quinquefasciatus	Bakersfield	18	GRVD	6/19/2014	WNV	RTPCR
Kern	KERN15	138	Cx. quinquefasciatus	Bakersfield	50	CO2	6/19/2014	WNV	RTPCR
Lake	LAKE202	137	Cx. tarsalis		50	CO2	6/24/2014	WNV	RTPCR
Lake	LAKE328	143	Cx. tarsalis	Upper Lake	50	CO2	6/24/2014	WNV	RTPCR
Los Angeles	GRLA2230	293	Cx. quinquefasciatus	Diamond Bar	33	GRVD	6/18/2014	WNV	RTPCR
Madera	MADR197	35	Cx. tarsalis	madera	40	CO2	6/17/2014	WNV	RTPCR
Madera	MADR198	33	Cx. tarsalis	Madera	30	CO2	6/13/2014	WNV	RTPCR
Orange	ORCO198	422	Cx. quinquefasciatus	La Habra	50	GRVD	6/17/2014	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	PLCR516	577	Cx. pipiens	Roseville	5	CO2	6/24/2014	WNV	RTPCR
Sacramento	SAYO204032	1848	Cx. pipiens	Citrus Heights	1	GRVD	6/24/2014	WNV	RTPCR
Sacramento	SAYO212021	1883	Cx. pipiens	Sacramento	28	GRVD	6/24/2014	WNV	RTPCR
Sacramento	SAYO213017	1871	Cx. pipiens	Sacramento	1	CO2	6/24/2014	WNV	RTPCR
Sacramento	SAYO213047	1718	Cx. pipiens	Carmichael	9	GRVD	6/20/2014	WNV	RTPCR
Sacramento	SAYO214004	1828	Cx. pipiens	Fair Oaks	3	CO2	6/24/2014	WNV	RTPCR
Sacramento	SAYO214013	1853	Cx. pipiens	Carmichael	50	CO2	6/24/2014	WNV	RTPCR
Sacramento	SAYO214013	1854	Cx. pipiens	Carmichael	10	CO2	6/24/2014	WNV	RTPCR
Sacramento	SAYO214025	1890	Cx. tarsalis	Sacramento	7	CO2	6/24/2014	WNV	RTPCR
Sacramento	SAYO214025	1892	Cx. pipiens	Sacramento	2	GRVD	6/24/2014	WNV	RTPCR
Sacramento	SAYO222003	1994	Cx. pipiens	Sacramento	23	GRVD	6/26/2014	WNV	RTPCR
Sacramento	SAYO222011	1997	Cx. pipiens	Sacramento	50	GRVD	6/26/2014	WNV	RTPCR
Sacramento	SAYO222011	1998	Cx. pipiens	Sacramento	50	GRVD	6/26/2014	WNV	RTPCR
Sacramento	SAYO222015	1975	Cx. pipiens	Sacramento	18	GRVD	6/26/2014	WNV	RTPCR
Sacramento	SAYO222031	1775	Cx. pipiens	Sacramento	7	CO2	6/24/2014	WNV	RTPCR
Sacramento	SAYO222031	1776	Cx. pipiens	Sacramento	13	GRVD	6/24/2014	WNV	RTPCR
Sacramento	SAYO222032	1978	Cx. pipiens	Sacramento	9	CO2	6/26/2014	WNV	RTPCR
Sacramento	SAYO222042	1720	Cx. pipiens	Sacramento	42	CO2	6/20/2014	WNV	RTPCR
Sacramento	SAYO222042	1721	Cx. pipiens	Sacramento	8	GRVD	6/20/2014	WNV	RTPCR
Sacramento	SAYO223001	1730	Cx. pipiens	Sacramento	50	CO2	6/20/2014	WNV	RTPCR
Sacramento	SAYO223001	1733	Cx. pipiens	Sacramento	35	GRVD	6/20/2014	WNV	RTPCR
Sacramento	SAYO223016	1734	Cx. tarsalis	Sacramento	4	CO2	6/20/2014	WNV	RTPCR
Sacramento	SAYO223052	1772	Cx. tarsalis	Sacramento	52	CO2	6/24/2014	WNV	RTPCR
Sacramento	SAYO223052	1774	Cx. pipiens	Sacramento	9	GRVD	6/24/2014	WNV	RTPCR
Sacramento	SAYO233009	1817	Cx. tarsalis	Elk Grove	33	CO2	6/24/2014	WNV	RTPCR



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Sacramento	SAYO233009	1818	Cx. tarsalis	Elk Grove	1	GRVD	6/24/2014	WNV	RTPCR
Sacramento	SAYO233009	1819	Cx. pipiens	Elk Grove	21	CO2	6/24/2014	WNV	RTPCR
Sacramento	SAYO233009	1820	Cx. pipiens	Elk Grove	30	GRVD	6/24/2014	WNV	RTPCR
Sacramento	SAYO233015	1787	Cx. tarsalis	Sacramento	28	GRVD	6/24/2014	WNV	RTPCR
Sacramento	SAYO233021	1887	Cx. tarsalis	Elk Grove	16	CO2	6/24/2014	WNV	RTPCR
Sacramento	SAYO233021	1889	Cx. pipiens	Elk Grove	13	GRVD	6/24/2014	WNV	RTPCR
Sacramento	SAYO233060	1812	Cx. pipiens	Elk Grove	20	GRVD	6/24/2014	WNV	RTPCR
Sacramento	SAYO261003	1794	Cx. tarsalis	Isleton	50	CO2	6/24/2014	WNV	RTPCR
Sacramento	SAYO271007	1821	Cx. tarsalis	Isleton	50	CO2	6/24/2014	WNV	RTPCR
Sacramento	SAYO271007	1822	Cx. tarsalis	Isleton	8	CO2	6/24/2014	WNV	RTPCR
Sacramento	SAYO280001	1824	Cx. tarsalis	Rio Vista	55	CO2	6/24/2014	WNV	RTPCR
San Joaquin	SJCM7021	671	Cx. pipiens	Stockton	26	GRVD	6/24/2014	WNV	RTPCR
San Joaquin	SJCM7023	638	Cx. pipiens	Stockton	11	GRVD	6/24/2014	WNV	RTPCR
San Joaquin	SJCM8018	663	Cx. tarsalis	Stockton	50	CO2	6/24/2014	WNV	RTPCR
San Joaquin	SJCM8049	682	Cx. tarsalis	Stockton	50	CO2	6/24/2014	WNV	RTPCR
San Joaquin	SJCM8049	683	Cx. tarsalis	Stockton	50	CO2	6/24/2014	WNV	RTPCR
San Joaquin	SJCM8079	625	Cx. pipiens	Manteca	50	CO2	6/24/2014	WNV	RTPCR
San Joaquin	SJCM8089	633	Cx. tarsalis	Tracy	8	CO2	6/24/2014	WNV	RTPCR
San Joaquin	SJCM8100	651	Cx. tarsalis	Tracy	50	CO2	6/24/2014	WNV	RTPCR
San Joaquin	SJCM8100	652	Cx. tarsalis	Tracy	50	CO2	6/24/2014	WNV	RTPCR
San Joaquin	SJCM8100	653	Cx. tarsalis	Tracy	50	CO2	6/24/2014	WNV	RTPCR
San Joaquin	SJCM8100	654	Cx. tarsalis	Tracy	41	CO2	6/24/2014	WNV	RTPCR
San Joaquin	SJCM8109	604	Cx. tarsalis	Escalon	50	CO2	6/24/2014	WNV	RTPCR
San Joaquin	SJCM8143	613	Cx. tarsalis	Stockton	54	CO2	6/24/2014	WNV	RTPCR
Santa Clara	STCL1618	5244	Cx. pipiens	San Jose	25	CO2	6/19/2014	WNV	RTPCR
Santa Clara	STCL1618	5245	Cx. tarsalis	San Jose	14	CO2	6/19/2014	WNV	RTPCR
Santa Clara	STCL184	5255	Cx. pipiens	Na	7	CO2	6/21/2014	WNV	RTPCR
Santa Clara	STCL3654	5246	Cx. pipiens	San Jose	19	CO2	6/19/2014	WNV	RTPCR
Solano	SOLA102	21	Cx. pipiens	Vacaville	50	CO2	6/19/2014	WNV	RTPCR
Solano	SOLA107	15	Cx. pipiens	Vacaville	18	CO2	6/19/2014	WNV	RTPCR
Solano	SOLA107	16	Cx. tarsalis	Vacaville	15	CO2	6/19/2014	WNV	RTPCR
Stanislaus	TRLK1219	194	Cx. tarsalis	Modesto	11	CO2	6/24/2014	WNV	RTPCR
Stanislaus	TRLK432	158	Cx. pipiens	Turlock	47	CO2	6/19/2014	WNV	RTPCR
Stanislaus	TRLK432	178	Cx. pipiens	Turlock	50	CO2	6/24/2014	WNV	RTPCR
Sutter	SUYA107	95	Cx. tarsalis	Live Oak	50	REST	6/23/2014	WNV	RTPCR
Sutter	SUYA16	104	Cx. tarsalis	Pleasant Grove	50	REST	6/23/2014	WNV	RTPCR
Sutter	SUYA16	105	Cx. tarsalis	Pleasant Grove	50	REST	6/23/2014	WNV	RTPCR
Sutter	SUYA44	121	Cx. tarsalis	Pleasant Grove	45	REST	6/24/2014	WNV	RTPCR
Tulare	DLTA8427	257	Cx. quinquefasciatus	Visalia	10	GRVD	6/18/2014	WNV	RTPCR
Tulare	DLTA8434	255	Cx. quinquefasciatus	Visalia	24	GRVD	6/18/2014	WNV	RTPCR
Tulare	DLTA8436	258	Cx. quinquefasciatus	Visalia	8	GRVD	6/18/2014	WNV	RTPCR
Tulare	DLTA8528	260	Cx. quinquefasciatus	Visalia	43	GRVD	6/19/2014	WNV	RTPCR
Tulare	DLTA8531	259	Cx. quinquefasciatus	Visalia	10	GRVD	6/18/2014	WNV	RTPCR
Tulare	DLTA8534	263	Cx. quinquefasciatus	Visalia	12	GRVD	6/19/2014	WNV	RTPCR
Tulare	DLTA9402	275	Cx. quinquefasciatus	Visalia	22	GRVD	6/24/2014	WNV	RTPCR
Tulare	DLTA9402	276	Cx. quinquefasciatus	Visalia	20	GRVD	6/24/2014	WNV	RTPCR
Tulare	DLTA9402	277	Cx. quinquefasciatus	Visalia	16	GRVD	6/24/2014	WNV	RTPCR
Tulare	DLTA9403	256	Cx. quinquefasciatus	Visalia	29	GRVD	6/18/2014	WNV	RTPCR
Tulare	DLTA9504	265	Cx. quinquefasciatus	Visalia	25	GRVD	6/19/2014	WNV	RTPCR
Tulare	DLTA9512	261	Cx. quinquefasciatus	Farmersville	14	GRVD	6/19/2014	WNV	RTPCR
Tulare	TLRE86	8	Cx. quinquefasciatus	Tulare93274	15	CO2	6/18/2014	WNV	RTPCR
Yolo	SAYO125016	1927	Cx. tarsalis	Woodland	28	CO2	6/26/2014	WNV	RTPCR
Yolo	SAYO125016	1928	Cx. pipiens	Woodland	5	CO2	6/26/2014	WNV	RTPCR
Yolo	SAYO125017	1946	Cx. pipiens	Woodland	42	GRVD	6/26/2014	WNV	RTPCR

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Yolo	SAYO135016	1947	Cx. tarsalis	Woodland	50	CO2	6/26/2014	WNV	RTPCR
Yolo	SAYO137007	1770	Cx. pipiens	West Sacramento	50	GRVD	6/24/2014	WNV	RTPCR
Yolo	SAYO143009	1961	Cx. pipiens	Winters	18	GRVD	6/26/2014	WNV	RTPCR
Yolo	SAYO145016	1962	Cx. tarsalis	Davis	16	CO2	6/26/2014	WNV	RTPCR
Yolo	SAYO146017	1747	Cx. tarsalis	Davis	50	CO2	6/24/2014	WNV	RTPCR
Yolo	SAYO146019	1757	Cx. pipiens	Davis	33	GRVD	6/24/2014	WNV	RTPCR
Yuba	SUYA8	110	Cx. tarsalis	Marysville	50	CO2	6/23/2014	WNV	RTPCR

### 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.

#### **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.

#### **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.

#### **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.

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