

## California Arbovirus Surveillance Bulletin #16

Week 29 Friday, July 21, 2017



### Weekly Update

#### **Humans**

No new cases were reported this week. To date this year, four human cases of West Nile virus (WNV) illness have been reported from four counties. Of the four case-patients, one (25%) had neuroinvasive disease; no fatalities have been reported. The median age of the individuals is 41 years (range: 4–79 years) and three (75%) are male. Dates of symptom onset ranged from March 16 to June 4. In addition to the four cases, two asymptomatic WNV-positive blood donors have been reported from Los Angeles (1) and Orange (1) counties. As of this date in 2016, no human WNV cases had been reported.

#### **Dead Birds**

A total of 18 WNV positive dead birds were reported this week from nine counties: Alameda (1), Colusa (1), Los Angeles (4), Orange (1), Placer (1), Riverside (5), Sacramento (2), San Diego (1), and Tulare (2). **This is the first positive dead bird from Placer County this year. This is the first detection of WNV activity in Alameda, Colusa, and Counties in 2017.** To date this year, 89 birds from 17 counties have tested positive for WNV. As of this date in 2016, 656 WNV positive birds had been reported from 25 counties.

#### **Mosquito Pools**

##### West Nile Virus

A total of 214 WNV positive mosquito pools were reported this week from the following 16 counties: Butte (3), Fresno (13), Kern (19), Kings (13), Los Angeles (17), Madera (2), Merced (4), Orange (16), Riverside (11), Sacramento (9), San Bernardino (72), San Joaquin (14), Stanislaus (14), Sutter (2), Tulare (3), and Yuba (2). **This is the first detection of WNV activity in Madera County in 2017.** To date this year, 895 WNV positive mosquito pools have been reported from 20 counties. As of this date in 2016, 1,159 WNV positive mosquito pools had been reported from 28 counties.

##### St. Louis Encephalitis Virus

A total of four mosquito pools tested positive for St. Louis encephalitis virus (SLEV) this week from three counties: Fresno (1), Kern (2), and Kings (1). To date this year, 11 SLEV positive mosquito pools have been reported from Fresno (3), Kern (6), and Kings (2) counties. As of this date in 2016, 46 SLEV positive mosquito pools had been reported from 2 counties.

#### **Sentinel Chickens**

A total of four WNV seroconversions were reported this week from two counties: Merced (3), and Los Angeles (1). **These are the first WNV positive chickens reported from Merced County in 2017.** To date this year, 21 WNV seroconversions have been reported from three

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counties. As of this date in 2016, 30 WNV seroconversions had been reported from eight counties.

<b>2016 &amp; 2017 YTD West Nile Virus Comparisons</b>		
	<b>2016</b>	<b>2017</b>
Total # Dead Bird Reports	5,459	4,122
# Positive Counties	32	25
# Human Cases	0	4
# Positive Dead Birds / # Tested	656 / 1,570	89 / 1,020
# Positive Mosquito Pools / # Tested	1,159 / 22,887	895 / 21,913
# Seroconversions / # Tested	30 / 4,775	21 / 5,556

<b>YTD WNV Activity by Element and County, 2017</b>				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		1		
Butte			4	
Colusa		1		
Fresno		1	25	
Kern	1	3	82	
Kings	1		18	
Lake		1	5	
Los Angeles	1	13	70	11
Madera			2	
Merced			6	3
Nevada		1		
Orange		7	23	
Placer		1	1	
Riverside		11	89	
Sacramento		21	15	
San Bernardino	1	11	115	7
San Diego		5	2	
San Joaquin		2	74	
San Mateo		1		
Santa Cruz		1		
Stanislaus			44	
Sutter			3	
Tulare		8	310	
Yolo			3	
Yuba			4	
<b>Totals</b>	<b>4</b>	<b>89</b>	<b>895</b>	<b>21</b>

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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)

## TESTING SUMMARIES

### Humans

		WNV	SLE	WEE
Human Cases	Week	0	0	0
	YTD	4	0	0

### Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	54	18
	YTD	1,020	89

### Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	513	4	0	0
	YTD	5,556	21	0	0

### Mosquitoes

		Positive / Total Tested						
Mosquito Pools		WNV	SLEV	WEEV	CHIK	DENV	ZIKA	
		Week	214 / 1,872	4 / 1,553	0 / 1,467	0 / 54	0 / 54	0 / 54
		YTD	895 / 21,913	11 / 18,571	0 / 17,018	0 / 642	0 / 642	0 / 642

## New Positives

### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Oakland	94618	American Crow	7/3/2017	WNV
Colusa	Colusa MAD	Colusa	95932	European Starling	7/12/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	Tarzana	91356	American Crow	7/19/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	Thousand Oaks	91302	American Crow	7/13/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	unknown	91302	American Crow	7/19/2017	WNV
Los Angeles	San Gabriel Valley MVCD	Arcadia	91006	American Crow	7/13/2017	WNV

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Orange	Orange Co VCD	Fullerton	92835	American Crow	7/11/2017	WNV
Placer	Placer MVCD	Roseville	95747	Western Scrub-Jay	7/17/2017	WNV
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	7/10/2017	WNV
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	7/10/2017	WNV
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	7/10/2017	WNV
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	7/11/2017	WNV
Riverside	Northwest Mosquito VCD	Riverside	92503	American Crow	7/7/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	American Crow	7/13/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	7/17/2017	WNV
San Diego	San Diego Co VCP	Oceanside	92056	American Crow	7/13/2017	WNV
Tulare	Delta VCD	Visalia	93277	American Crow	7/17/2017	WNV
Tulare	Delta VCD	Visalia	93277	Cooper's Hawk	7/17/2017	WNV

### Mosquito Pools

County	Site Code	Pool #	City	Species	# in Pool	Trap	Collected	Virus
Butte	BUCO28	152	Biggs	Cx. tarsalis	50	CO2	7/17/2017	WNV
Butte	BUCO68	148	Gridley	Cx. tarsalis	50	CO2	7/17/2017	WNV
Butte	BUCO69	135	Oroville	Cx. tarsalis	50	CO2	7/12/2017	WNV
Fresno	CNSL1356	241	Clovis	Cx. quinquefasciatus	35	GRVD	7/13/2017	SLEV
Fresno	FRWS100006	239	Dos Palos	Cx. tarsalis	50	CO2	7/18/2017	WNV
Fresno	FRWS1101	249	Dos Palos	Cx. tarsalis	50	CO2	7/18/2017	WNV
Fresno	FRWS1101	251	Dos Palos	Cx. tarsalis	50	CO2	7/18/2017	WNV
Fresno	FRWS1202	247	Dos Palos	Cx. tarsalis	48	CO2	7/18/2017	WNV
Fresno	FRWS2105	237	Dos Palos	Cx. tarsalis	21	OTHER	7/18/2017	WNV
Fresno	FRWS300031	243		Cx. tarsalis	41	CO2	7/18/2017	WNV
Fresno	FRWS300031	244		Cx. quinquefasciatus	50	GRVD	7/18/2017	WNV
Fresno	FRWS3104	253	Firebaugh	Cx. quinquefasciatus	49	GRVD	7/18/2017	WNV
Fresno	FRWS400003	254	Mendota	Cx. quinquefasciatus	20	OTHER	7/18/2017	WNV
Fresno	FRWS400017	221	Mendota	Cx. tarsalis	46	CO2	7/14/2017	WNV
Fresno	FRWS400047	208		Cx. tarsalis	50	CO2	7/13/2017	WNV
Fresno	FRWS500034	231		Cx. tarsalis	50	CO2	7/14/2017	WNV
Fresno	FRWS60020	219		Cx. quinquefasciatus	28	OTHER	7/13/2017	WNV
Kern	DLNO103	159	McFarland	Cx. quinquefasciatus	50	CO2	7/13/2017	WNV
Kern	DLNO105	163	Delano	Cx. quinquefasciatus	23	GRVD	7/18/2017	WNV
Kern	DLNO2	158	Delano	Cx. quinquefasciatus	50	CO2	7/13/2017	WNV
Kern	DLNO34	162	McFarland	Cx. quinquefasciatus	22	GRVD	7/14/2017	WNV
Kern	DLNO40	165	Delano	Cx. quinquefasciatus	17	GRVD	7/18/2017	WNV
Kern	DLNO89	161	Delano	Cx. quinquefasciatus	15	GRVD	7/14/2017	WNV
Kern	KERN111	406	Arvin	Cx. quinquefasciatus	50	CO2	7/11/2017	WNV
Kern	KERN1156	404	Arvin	Cx. quinquefasciatus	50	CO2	7/11/2017	WNV
Kern	KERN118	412	Buttonwillow	Cx. tarsalis	26	CO2	7/12/2017	WNV
Kern	KERN2007	419	Bakersfield	Cx. quinquefasciatus	20	GRVD	7/14/2017	WNV
Kern	KERN2011	410	Bakersfield	Cx. quinquefasciatus	19	GRVD	7/12/2017	WNV
Kern	KERN2051	413	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/13/2017	WNV
Kern	KERN3004	414	Bakersfield	Cx. quinquefasciatus	50	CO2	7/13/2017	WNV
Kern	KERN3023	407	Wasco	Cx. tarsalis	35	CO2	7/11/2017	WNV
Kern	KERN3023	407	Wasco	Cx. tarsalis	35	CO2	7/11/2017	SLEV
Kern	KERN3031	416	Shafter	Cx. tarsalis	25	CO2	7/13/2017	WNV
Kern	KERN3032	408	Bakersfield	Cx. tarsalis	20	CO2	7/11/2017	WNV

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Kern	KERN47	411	Buttonwillow	Cx. quinquefasciatus	47	GRVD	7/12/2017	WNV
Kern	KERN83	403	Arvin	Cx. tarsalis	50	CO2	7/11/2017	WNV
Kern	KERN83	403	Arvin	Cx. tarsalis	50	CO2	7/11/2017	SLEV
Kern	KERN91	409	Lost Hills	Cx. tarsalis	37	CO2	7/11/2017	WNV
Kings	KNGS3000	195		Cx. tarsalis	31	CO2	7/12/2017	WNV
Kings	KNGS3018	217	Lemoore	Cx. tarsalis	50	CO2	7/14/2017	WNV
Kings	KNGS3018	218	Lemoore	Cx. tarsalis	50	CO2	7/14/2017	WNV
Kings	KNGS3018	219	Lemoore	Cx. tarsalis	50	CO2	7/14/2017	WNV
Kings	KNGS3018	220	Lemoore	Cx. tarsalis	50	CO2	7/14/2017	WNV
Kings	KNGS3018	221	Lemoore	Cx. tarsalis	38	CO2	7/14/2017	WNV
Kings	KNGS3030	197	Lemoore	Cx. tarsalis	50	CO2	7/12/2017	WNV
Kings	KNGS3030	197	Lemoore	Cx. tarsalis	50	CO2	7/12/2017	SLEV
Kings	KNGS3043	199	Lemoore	Cx. tarsalis	50	CO2	7/12/2017	WNV
Kings	KNGS3043	200	Lemoore	Cx. tarsalis	50	CO2	7/12/2017	WNV
Kings	KNGS3083	204	Lemoore	Cx. tarsalis	50	CO2	7/12/2017	WNV
Kings	KNGS3084	214	Lemoore	Cx. tarsalis	50	CO2	7/14/2017	WNV
Kings	KNGS3084	215	Lemoore	Cx. tarsalis	50	CO2	7/14/2017	WNV
Kings	KNGS4004	206	Hanford	Cx. tarsalis	44	CO2	7/13/2017	WNV
Los Angeles	ANTV4466	32	Lancaster	Cx. quinquefasciatus	2	CO2	7/18/2017	WNV
Los Angeles	GRLA2221	450	Rowland Heights	Cx. quinquefasciatus	50	GRVD	7/12/2017	WNV
Los Angeles	GRLA2222	449	Rowland Heights	Cx. quinquefasciatus	50	GRVD	7/12/2017	WNV
Los Angeles	GRLA2325	469	Boyle Heights	Cx. quinquefasciatus	50	GRVD	7/14/2017	WNV
Los Angeles	GRLA2383	455	Whittier	Cx. quinquefasciatus	50	GRVD	7/12/2017	WNV
Los Angeles	GRLA2465	5484	Los Feliz	Cx. quinquefasciatus	28	GRVD	7/13/2017	WNV
Los Angeles	GRLA2651	5465	Encino	Cx. quinquefasciatus	50	GRVD	7/11/2017	WNV
Los Angeles	LACW1049	271	Inglewood	Cx. quinquefasciatus	26	GRVD	7/11/2017	WNV
Los Angeles	SGVA24	1714	Altadena	Cx. tarsalis	4	GRVD	7/11/2017	WNV
Los Angeles	SGVA5	1723	Irwindale	Cx. quinquefasciatus	25	GRVD	7/13/2017	WNV
Los Angeles	SGVA5	1724	Irwindale	Cx. quinquefasciatus	7	GRVD	7/13/2017	WNV
Los Angeles	SGVA62	1702	Covina	Cx. quinquefasciatus	18	GRVD	7/11/2017	WNV
Los Angeles	SGVA705	1750	Sierra Madre	Cx. quinquefasciatus	19	GRVD	7/13/2017	WNV
Los Angeles	SGVA867	1720	west covina	Cx. quinquefasciatus	7	GRVD	7/12/2017	WNV
Los Angeles	SGVA869	1735	San Dimas91773	Cx. quinquefasciatus	5	GRVD	7/13/2017	WNV
Los Angeles	SGVA9	1697	Walnut	Cx. tarsalis	2	GRVD	7/11/2017	WNV
Los Angeles	SGVA9	1701	Walnut	Cx. tarsalis	1	GRVD	7/11/2017	WNV
Madera	MADR266	135		Cx. quinquefasciatus	50	CO2	7/14/2017	WNV
Madera	MADR3334	134	Madera	Cx. tarsalis	25	CO2	7/14/2017	WNV
Merced	FRWS100023	212		Cx. tarsalis	50	CO2	7/13/2017	WNV
Merced	FRWS100023	213		Cx. tarsalis	50	CO2	7/13/2017	WNV
Merced	FRWS100023	214		Cx. tarsalis	50	CO2	7/13/2017	WNV
Merced	FRWS100023	216		Cx. tarsalis	50	CO2	7/13/2017	WNV
Orange	ORCO1009	2645	Garden Grove	Cx. quinquefasciatus	44	GRVD	7/12/2017	WNV
Orange	ORCO1011	2707	La Habra	Cx. quinquefasciatus	46	GRVD	7/13/2017	WNV
Orange	ORCO1011	2710	La Habra	Cx. quinquefasciatus	50	GRVD	7/13/2017	WNV
Orange	ORCO1011	2768	La Habra	Cx. quinquefasciatus	51	GRVD	7/18/2017	WNV
Orange	ORCO1037	2674	La Habra	Cx. quinquefasciatus	20	GRVD	7/13/2017	WNV
Orange	ORCO1037	2827	La Habra	Cx. quinquefasciatus	19	GRVD	7/20/2017	WNV
Orange	ORCO111	2711	Lake Forest	Cx. quinquefasciatus	50	GRVD	7/13/2017	WNV
Orange	ORCO111	2712	Lake Forest	Cx. quinquefasciatus	50	GRVD	7/13/2017	WNV
Orange	ORCO170	2835	Anaheim	Cx. quinquefasciatus	50	GRVD	7/20/2017	WNV
Orange	ORCO198	2684	La Habra	Cx. quinquefasciatus	50	GRVD	7/13/2017	WNV
Orange	ORCO198	2685	La Habra	Cx. quinquefasciatus	50	GRVD	7/13/2017	WNV

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Orange	ORCO198	2825	La Habra	Cx. quinquefasciatus	50	GRVD	7/20/2017	WNV
Orange	ORCO215	2794	La Habra	Cx. quinquefasciatus	29	CO2	7/19/2017	WNV
Orange	ORCO242	2841	Fountain Valley	Cx. quinquefasciatus	31	GRVD	7/20/2017	WNV
Orange	ORCO80	2736	San Clemente	Cx. quinquefasciatus	3	GRVD	7/18/2017	WNV
Orange	ORCO81	2852	Seal Beach	Cx. quinquefasciatus	43	GRVD	7/20/2017	WNV
Riverside	COAV0	2974		Cx. tarsalis	50	CO2	7/21/2017	WNV
Riverside	COAV200	2919	Mecca	Cx. tarsalis	50	CO2	7/18/2017	WNV
Riverside	COAV200	2921	Mecca	Cx. tarsalis	50	CO2	7/18/2017	WNV
Riverside	COAV200	2922	Mecca	Cx. tarsalis	50	CO2	7/18/2017	WNV
Riverside	COAV200	2923	Mecca	Cx. tarsalis	46	CO2	7/18/2017	WNV
Riverside	COAV200	2924	Mecca	Cx. quinquefasciatus	40	CO2	7/18/2017	WNV
Riverside	COAV35	2928	Mecca	Cx. tarsalis	50	CO2	7/18/2017	WNV
Riverside	COAV536	2942	Thermal	Cx. tarsalis	23	CO2	7/18/2017	WNV
Riverside	COAV8	2912	Mecca	Cx. tarsalis	29	CO2	7/18/2017	WNV
Riverside	NWST190	148	Eastvale	Cx. quinquefasciatus	33	CO2	7/18/2017	WNV
Riverside	NWST92	140	Lake Elsinore	Cx. quinquefasciatus	23	CO2	7/7/2017	WNV
Sacramento	SAYO223006	2988	South Watt Avenue	Cx. pipiens	10	CO2	7/18/2017	WNV
Sacramento	SAYO223007	2989	Sacramento	Cx. tarsalis	50	CO2	7/18/2017	WNV
Sacramento	SAYO223007	2990	Sacramento	Cx. tarsalis	50	CO2	7/18/2017	WNV
Sacramento	SAYO223007	2991	Sacramento	Cx. tarsalis	50	CO2	7/18/2017	WNV
Sacramento	SAYO223007	2994	Sacramento	Cx. pipiens	19	CO2	7/18/2017	WNV
Sacramento	SAYO223023	3002	Rancho Cordova	Cx. pipiens	15	CO2	7/18/2017	WNV
Sacramento	SAYO232038	3148	Sacramento	Cx. tarsalis	3	CO2	7/18/2017	WNV
Sacramento	SAYO233001	3142	Elk Grove	Cx. pipiens	7	GRVD	7/18/2017	WNV
Sacramento	SAYO243035	3293	Elk Grove	Cx. pipiens	39	CO2	7/20/2017	WNV
San Bernardino	SANB2	621	Redlands	Cx. stigmatosoma	14	GRVD	7/13/2017	WNV
San Bernardino	SANB2	623	Redlands	Cx. stigmatosoma	31	CO2	7/13/2017	WNV
San Bernardino	SANB2	624	Redlands	Cx. quinquefasciatus	24	CO2	7/13/2017	WNV
San Bernardino	SANB45	618	Fontana	Cx. quinquefasciatus	1	GRVD	7/13/2017	WNV
San Bernardino	SANB49	614	Rialto	Cx. stigmatosoma	8	CO2	7/12/2017	WNV
San Bernardino	SANB49	616	Rialto	Cx. quinquefasciatus	12	CO2	7/12/2017	WNV
San Bernardino	SANB49	617	Rialto	Cx. tarsalis	24	CO2	7/12/2017	WNV
San Bernardino	WVAL1008	1440	Ontario	Cx. quinquefasciatus	29	CO2	7/12/2017	WNV
San Bernardino	WVAL2006	1406	Chino	Cx. quinquefasciatus	9	CO2	7/6/2017	WNV
San Bernardino	WVAL2006	1519	Chino	Cx. quinquefasciatus	10	CO2	7/19/2017	WNV
San Bernardino	WVAL2008	1386	Chino	Cx. quinquefasciatus	14	CO2	7/6/2017	WNV
San Bernardino	WVAL2008	1445	Chino	Cx. quinquefasciatus	18	CO2	7/12/2017	WNV
San Bernardino	WVAL2011	1515	Chino	Cx. quinquefasciatus	31	CO2	7/19/2017	WNV
San Bernardino	WVAL2012	1393	Chino	Cx. quinquefasciatus	30	CO2	7/6/2017	WNV
San Bernardino	WVAL2018	1372	Chino	Cx. quinquefasciatus	26	GRVD	7/6/2017	WNV
San Bernardino	WVAL2018	1446	Chino	Cx. quinquefasciatus	8	GRVD	7/12/2017	WNV
San Bernardino	WVAL2022	1521	Fwy CA 60	Cx. quinquefasciatus	11	GRVD	7/19/2017	WNV
San Bernardino	WVAL2024	1419	Chino Hills	Cx. quinquefasciatus	36	GRVD	7/6/2017	WNV
San Bernardino	WVAL2024	1473	Chino Hills	Cx. quinquefasciatus	7	GRVD	7/12/2017	WNV
San Bernardino	WVAL3141	1438	Upland	Cx. quinquefasciatus	31	BGSENT	7/7/2017	WNV
San Bernardino	WVAL3142	1439	Upland	Cx. quinquefasciatus	15	BGSENT	7/7/2017	WNV
San Bernardino	WVAL3143	1435	Upland	Cx. quinquefasciatus	30	BGSENT	7/7/2017	WNV
San Bernardino	WVAL3143	1437	Upland	Cx. quinquefasciatus	30	BGSENT	7/7/2017	WNV
San Bernardino	WVAL3144	1433	Upland	Cx. quinquefasciatus	50	BGSENT	7/7/2017	WNV
San Bernardino	WVAL3145	1429	Upland	Cx. quinquefasciatus	50	BGSENT	7/7/2017	WNV
San Bernardino	WVAL3146	1481	Chino	Cx. quinquefasciatus	25	BGSENT	7/12/2017	WNV
San Bernardino	WVAL3146	1482	Chino	Cx. quinquefasciatus	50	BGSENT	7/12/2017	WNV
San Bernardino	WVAL3147	1480	Chino	Cx. quinquefasciatus	34	BGSENT	7/12/2017	WNV

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San Bernardino	WVAL3148	1449	Chino	Cx. quinquefasciatus	45	BGSENT	7/12/2017	WNV
San Bernardino	WVAL3148	1450	Chino	Cx. quinquefasciatus	50	BGSENT	7/12/2017	WNV
San Bernardino	WVAL3148	1451	Chino	Cx. quinquefasciatus	5	BGSENT	7/12/2017	WNV
San Bernardino	WVAL3149	1479	Chino	Cx. quinquefasciatus	46	BGSENT	7/12/2017	WNV
San Bernardino	WVAL3156	1531	Montclair	Cx. quinquefasciatus	8	BGSENT	7/13/2017	WNV
San Bernardino	WVAL3174	1536	Upland	Cx. quinquefasciatus	10	BGSENT	7/20/2017	WNV
San Bernardino	WVAL5002	1423	Rancho Cucamonga	Cx. quinquefasciatus	6	GRVD	7/6/2017	WNV
San Bernardino	WVAL5004	1453	Rancho Cucamonga	Cx. quinquefasciatus	21	GRVD	7/12/2017	WNV
San Bernardino	WVAL5005	1411	Rancho Cucamonga	Cx. stigmatosoma	7	GRVD	7/6/2017	WNV
San Bernardino	WVAL5005	1455	Rancho Cucamonga	Cx. quinquefasciatus	12	GRVD	7/12/2017	WNV
San Bernardino	WVAL6002	1385	Ontario	Cx. quinquefasciatus	27	CO2	7/6/2017	WNV
San Bernardino	WVAL6005	1397	Ontario	Cx. tarsalis	38	GRVD	7/6/2017	WNV
San Bernardino	WVAL6005	1471	Ontario	Cx. quinquefasciatus	30	GRVD	7/12/2017	WNV
San Bernardino	WVAL6005	1491	Ontario	Cx. quinquefasciatus	17	GRVD	7/18/2017	WNV
San Bernardino	WVAL6009	1507	Ontario	Cx. quinquefasciatus	13	GRVD	7/19/2017	WNV
San Bernardino	WVAL6011	1444	Ontario	Cx. quinquefasciatus	14	GRVD	7/12/2017	WNV
San Bernardino	WVAL6012	1417	Ontario	Cx. quinquefasciatus	51	GRVD	7/6/2017	WNV
San Bernardino	WVAL6012	1470	Ontario	Cx. quinquefasciatus	15	GRVD	7/12/2017	WNV
San Bernardino	WVAL6012	1490	Ontario	Cx. quinquefasciatus	29	GRVD	7/18/2017	WNV
San Bernardino	WVAL6013	1510	Ontario	Cx. quinquefasciatus	6	CO2	7/19/2017	WNV
San Bernardino	WVAL6015	1459	Ontario	Cx. quinquefasciatus	26	GRVD	7/12/2017	WNV
San Bernardino	WVAL6015	1460	Ontario	Cx. quinquefasciatus	27	GRVD	7/12/2017	WNV
San Bernardino	WVAL6015	1493	Ontario	Cx. quinquefasciatus	24	GRVD	7/18/2017	WNV
San Bernardino	WVAL70	1508	Ontario	Cx. quinquefasciatus	27	GRVD	7/19/2017	WNV
San Bernardino	WVAL7001	1496	Montclair	Cx. quinquefasciatus	12	GRVD	7/18/2017	WNV
San Bernardino	WVAL7002	1462	Montclair	Cx. quinquefasciatus	11	GRVD	7/12/2017	WNV
San Bernardino	WVAL7002	1488	Montclair	Cx. quinquefasciatus	25	GRVD	7/18/2017	WNV
San Bernardino	WVAL7002	1489	Montclair	Cx. quinquefasciatus	11	GRVD	7/18/2017	WNV
San Bernardino	WVAL71	1527	Chino	Cx. stigmatosoma	17	CO2	7/19/2017	WNV
San Bernardino	WVAL8001	1415	Corona	Cx. quinquefasciatus	7	CO2	7/6/2017	WNV
San Bernardino	WVAL8001	1416	Corona	Cx. stigmatosoma	8	CO2	7/6/2017	WNV
San Bernardino	WVAL9001	1466	Upland	Cx. quinquefasciatus	10	GRVD	7/12/2017	WNV
San Bernardino	WVAL9001	1492	Upland	Cx. quinquefasciatus	7	GRVD	7/18/2017	WNV
San Bernardino	WVAL9003	1400	Upland	Cx. quinquefasciatus	19	GRVD	7/6/2017	WNV
San Bernardino	WVAL9003	1401	Upland	Cx. tarsalis	19	GRVD	7/6/2017	WNV
San Bernardino	WVAL9003	1402	Upland	Cx. quinquefasciatus	16	GRVD	7/6/2017	WNV
San Bernardino	WVAL9003	1404	Upland	Cx. quinquefasciatus	18	GRVD	7/6/2017	WNV
San Bernardino	WVAL9003	1464	Upland	Cx. quinquefasciatus	25	GRVD	7/12/2017	WNV
San Bernardino	WVAL9003	1465	Upland	Cx. quinquefasciatus	20	GRVD	7/12/2017	WNV
San Bernardino	WVAL9003	1497	Upland	Cx. quinquefasciatus	25	GRVD	7/18/2017	WNV
San Bernardino	WVAL9003	1498	Upland	Cx. quinquefasciatus	25	GRVD	7/18/2017	WNV
San Bernardino	WVAL9003	1499	Upland	Cx. quinquefasciatus	25	GRVD	7/18/2017	WNV
San Bernardino	WVAL9003	1500	Upland	Cx. quinquefasciatus	18	GRVD	7/18/2017	WNV
San Bernardino	WVAL9006	1494	Upland	Cx. quinquefasciatus	12	GRVD	7/18/2017	WNV
San Joaquin	SJCM8004	1784	Lodi	Cx. tarsalis	50	CO2	7/18/2017	WNV
San Joaquin	SJCM8010	1756	Ripon	Cx. tarsalis	44	CO2	7/18/2017	WNV
San Joaquin	SJCM8018	1760	Stockton	Cx. tarsalis	100	CO2	7/18/2017	WNV
San Joaquin	SJCM8018	1764	Stockton	Cx. tarsalis	100	CO2	7/18/2017	WNV
San Joaquin	SJCM8056	1768	Manteca	Cx. tarsalis	50	CO2	7/18/2017	WNV
San Joaquin	SJCM8083	1775	Escalon	Cx. pipiens	40	CO2	7/18/2017	WNV
San Joaquin	SJCM8094	1755	Manteca	Cx. tarsalis	38	CO2	7/18/2017	WNV

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San Joaquin	SJCM8199	1748	Manteca	Cx. tarsalis	50	CO2	7/18/2017	WNV
San Joaquin	SJCM8199	1751	Manteca	Cx. pipiens	50	CO2	7/18/2017	WNV
San Joaquin	SJCM8199	1752	Manteca	Cx. pipiens	50	CO2	7/18/2017	WNV
San Joaquin	SJCM8206	1798	Lodi	Cx. pipiens	23	CO2	7/18/2017	WNV
San Joaquin	SJCM8206	1802	Lodi	Cx. tarsalis	32	CO2	7/18/2017	WNV
San Joaquin	SJCM8210	1823	Escalon	Cx. tarsalis	50	CO2	7/19/2017	WNV
San Joaquin	SJCM8218	1825	Escalon	Cx. tarsalis	50	CO2	7/19/2017	WNV
Stanislaus	TRLK1673	544	Patterson	Cx. tarsalis	17	CO2	7/18/2017	WNV
Stanislaus	TRLK1712	520	Newman	Cx. tarsalis	28	CO2	7/18/2017	WNV
Stanislaus	TRLK305	527	Grayson	Cx. tarsalis	50	CO2	7/18/2017	WNV
Stanislaus	TRLK305	528	Grayson	Cx. tarsalis	50	CO2	7/18/2017	WNV
Stanislaus	TRLK305	529	Grayson	Cx. tarsalis	45	CO2	7/18/2017	WNV
Stanislaus	TRLK312	513	Newman	Cx. tarsalis	44	CO2	7/18/2017	WNV
Stanislaus	TRLK424	543	Patterson	Cx. tarsalis	50	CO2	7/18/2017	WNV
Stanislaus	TRLK502	538	Modesto	Cx. tarsalis	50	CO2	7/18/2017	WNV
Stanislaus	TRLK521	524	Turlock	Cx. tarsalis	31	CO2	7/18/2017	WNV
Stanislaus	TRLK548	514	Newman	Cx. tarsalis	8	CO2	7/18/2017	WNV
Stanislaus	TRLK806	530	Grayson	Cx. tarsalis	44	CO2	7/18/2017	WNV
Stanislaus	TRLK9732	515	Newman	Cx. tarsalis	24	CO2	7/18/2017	WNV
Stanislaus	TRLK9739	532	Modesto	Cx. tarsalis	50	CO2	7/18/2017	WNV
Stanislaus	TRLK9742	511	Crows Landing	Cx. tarsalis	28	CO2	7/18/2017	WNV
Sutter	SUYA24	171	Yuba City	Cx. tarsalis	50	REST	7/17/2017	WNV
Sutter	SUYA30	174	Live Oak	Cx. tarsalis	31	REST	7/17/2017	WNV
Tulare	TLRE202402	146	Tulare	Cx. quinquefasciatus	20	GRVD	7/20/2017	WNV
Tulare	TLRE212531	141	Tipton	Cx. quinquefasciatus	19	GRVD	7/18/2017	WNV
Tulare	TLRE242409	144	Allensworth	Cx. quinquefasciatus	26	GRVD	7/19/2017	WNV
Yuba	SUYA37	200	Marysville	Cx. tarsalis	49	CO2	7/17/2017	WNV
Yuba	SUYA39	184	Marysville (Hallwood)	Cx. tarsalis	50	CO2	7/17/2017	WNV

### Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03
Merced	MERC0003	Gustine	7/14/2017	WNV	1878	1879	1880
Los Angeles	SGVA0014	La Verne	7/17/2017	WNV	4553		

## 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 RNA preservation cards and tested by the UC Davis Arbovirus Research and Training laboratory (DART) for West Nile virus by the singleplex qRT-PCR Taqman assay and confirmed with a second primer set. Some local agencies test birds using the RAMP© test or conduct RT-PCR on tissue samples.



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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 antibodies to West Nile, western equine encephalomyelitis, and St. Louis encephalitis viruses by EIA. Positive samples are confirmed by IFA, western-blot, or PRNT.

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### **Mosquito Pools:**

Mosquito pools submitted to DART are tested for West Nile, western equine encephalomyelitis, and St. Louis encephalitis viral RNA using a multiplex qRT-PCR. Invasive *Aedes* mosquitoes (*Ae. aegypti* and *Ae. albopictus*) are also tested for chikungunya, dengue, and Zika viral RNA by a separate qRT-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).*