

California Arbovirus Surveillance Bulletin #17

Week 26 Friday, July 1, 2016



Weekly Update

Humans

No human cases have been reported in 2016.

Dead Birds

This week, a total of 95 dead birds tested positive for West Nile virus (WNV) from the following 12 counties: Lake (1), Los Angeles (4), Marin (1), Orange (1), Sacramento (44), San Diego (24), San Joaquin (7), Santa Clara (6), Santa Cruz (1), Sutter (1), Ventura (1), and Yolo (4). **These are the first detections of WNV in Lake and Santa Cruz counties this year.** In 2016, 372 dead birds have tested positive for WNV from 19 counties, whereas at this time last year, 112 WNV positive birds had been reported from 24 counties.

Mosquito Pools

West Nile virus

A total of 169 WNV positive mosquito pools were reported this week from the following 14 counties: Fresno (9), Kern (5), Kings (7), Los Angeles (6), Madera (2), Riverside (4), Sacramento (67), San Bernardino (1), San Joaquin (22), Santa Clara (3), Stanislaus (7), Sutter (5), Tulare (22), and Yolo (9). To date this year, 433 WNV positive mosquito pools have been reported from 16 counties, whereas at this time last year, 240 WNV positive mosquito pools had been reported from 20 counties.

St. Louis encephalitis virus

Five SLEV positive mosquito pools were reported this week from Kern (3) and Riverside (2) counties. **This is the first detection of SLEV activity in Riverside County in 2016.** To date this year, 22 SLEV positive mosquito pools have been reported from two counties.

Sentinel Chickens

Three WNV seroconversions were reported this week from two flocks in Sutter County. **These are the first WNV positive chickens detected in Sutter County in 2016.** To date this year, seven WNV seroconversions have been reported from three counties, whereas at this time last year, three WNV seroconversions had been reported from two counties.

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2015 & 2016 YTD West Nile Virus Comparisons		
	2015	2016
Total # Dead Bird Reports	4,759	4,132
# Positive Counties	31	23
# Human Cases	0	0
# Positive Dead Birds / # Tested	112 / 1,081	372 / 1,115
# Positive Mosquito Pools / # Tested	240 / 11,544	433 / 16,680
# Seroconversions / # Tested	3 / 5,017	7 / 3,442

YTD WNV Activity by Element and County, 2016				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Butte		1		
Contra Costa		1		
Fresno		2	36	
Kern			17	
Kings			12	
Lake		1		
Los Angeles		28	18	1
Madera		1	10	
Marin		2		
Orange		7	9	
Riverside		1	15	
Sacramento		153	136	
San Bernardino			12	
San Diego		124	40	3
San Joaquin		9	40	
Santa Clara		25	7	
Santa Cruz		1		
Solano		1		
Stanislaus		2	15	
Sutter		3	17	3
Tulare			38	
Ventura		5		
Yolo		5	11	
Totals	0	372	433	7

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TESTING SUMMARIES

Humans

Number of Cases Reported		WNV	SLE	WEE
		Week	0	0
YTD		0	0	0

Dead Birds

		Total Tested	WNV Positive
Dead Birds	Week	165	95
	YTD	1,115	372

Sentinel Chickens

		Total Tested	WNV +	SLEV +	WEEV +
Chicken Sera	Week	451	3	0	0
	YTD	3,442	7	0	0

Mosquitoes

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Mosquito Pools	Week	169 / 1,883	5 / 1,234	0 / 1,234	0 / 5	0 / 5	0 / 5
	YTD	433 / 16,680	22 / 9,757	0 / 9,757	0 / 37	0 / 37	0 / 37

NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Lake	Lake Co VCD	Lakeport	95453	Domestic Turkey	6/28/2016	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Los Angeles	91331	American Crow	6/22/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Calabasas	91302	American Crow	6/27/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Stevenson Ranch	91381	American Crow	6/18/2016	WNV
Los Angeles	San Gabriel Valley MVCD	Altadena	91001	American Crow	6/23/2016	WNV
Marin	Marin-Sonoma MVCD	Novato	94949	American Crow	6/26/2016	WNV
Orange	Orange Co VCD	Fullerton	92833	Western Bluebird	6/21/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	American Crow	6/22/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	American Crow	6/23/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	American Crow	6/28/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Cooper's Hawk	6/27/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	House Finch	6/22/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Lesser Goldfinch	6/24/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	6/23/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	6/23/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	6/24/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	6/26/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	6/26/2016	WNV

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Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	6/26/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	6/27/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	6/23/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95757	White-tailed Kite	6/23/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	Western Scrub-Jay	6/24/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	Western Scrub-Jay	6/24/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	Western Scrub-Jay	6/24/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	American Crow	6/27/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Brewer's Blackbird	6/22/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	6/27/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Western Scrub-Jay	6/23/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Western Scrub-Jay	6/25/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	American Crow	6/26/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	American Crow	6/27/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Western Scrub-Jay	6/22/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Western Scrub-Jay	6/22/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Western Scrub-Jay	6/25/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Western Scrub-Jay	6/26/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Western Scrub-Jay	6/22/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Western Scrub-Jay	6/22/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	Western Scrub-Jay	6/22/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	Western Scrub-Jay	6/22/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	Western Scrub-Jay	6/22/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	Western Scrub-Jay	6/22/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	American Crow	6/22/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95828	Western Scrub-Jay	6/23/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95828	Western Scrub-Jay	6/23/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95828	Western Scrub-Jay	6/23/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95828	Western Scrub-Jay	6/26/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95838	American Crow	6/23/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95838	American Crow	6/23/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95838	American Crow	6/23/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	6/22/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	6/22/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	6/23/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	6/23/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	6/23/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	6/23/2016	WNV
San Diego	San Diego Co VCP	Carlsbad	92008	American Crow	6/21/2016	WNV
San Diego	San Diego Co VCP	Carlsbad	92008	American Crow	6/27/2016	WNV
San Diego	San Diego Co VCP	Carlsbad	92008	American Crow	6/30/2016	WNV
San Diego	San Diego Co VCP	Carlsbad	92009	American Crow	6/24/2016	WNV
San Diego	San Diego Co VCP	Carlsbad	92010	American Crow	6/24/2016	WNV
San Diego	San Diego Co VCP	Encinitas	92024	American Crow	6/24/2016	WNV
San Diego	San Diego Co VCP	Encinitas	92024	American Crow	6/28/2016	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	6/28/2016	WNV
San Diego	San Diego Co VCP	Escondido	92029	American Crow	6/30/2016	WNV
San Diego	San Diego Co VCP	Fallbrook	92028	American Crow	6/28/2016	WNV
San Diego	San Diego Co VCP	Oceanside	92054	American Crow	6/24/2016	WNV
San Diego	San Diego Co VCP	Oceanside	92054	American Crow	6/24/2016	WNV
San Diego	San Diego Co VCP	Oceanside	92057	American Crow	6/28/2016	WNV
San Diego	San Diego Co VCP	Poway	92064	American Crow	6/24/2016	WNV
San Diego	San Diego Co VCP	Poway	92064	Unknown-hawk	6/28/2016	WNV
San Diego	San Diego Co VCP	San Diego	92103	American Crow	6/27/2016	WNV
San Diego	San Diego Co VCP	San Diego	92117	American Crow	6/24/2016	WNV
San Diego	San Diego Co VCP	San Diego	92126	American Crow	6/24/2016	WNV
San Diego	San Diego Co VCP	San Diego	92127	American Crow	6/27/2016	WNV
San Diego	San Diego Co VCP	San Diego	92127	American Crow	6/28/2016	WNV
San Diego	San Diego Co VCP	San Diego	92129	American Crow	6/27/2016	WNV
San Diego	San Diego Co VCP	San Marcos	92069	American Crow	6/30/2016	WNV
San Diego	San Diego Co VCP	San Marcos	92078	American Crow	6/30/2016	WNV

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San Diego	San Diego Co VCP	Santee	92071	American Crow	6/30/2016	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95202	Sparrow	6/28/2016	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95204	Sparrow	6/28/2016	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95207	American Crow	6/28/2016	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95207	American Crow	6/28/2016	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95212	Western Scrub-Jay	6/30/2016	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95219	Finch	6/28/2016	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95219	Western Scrub-Jay	6/24/2016	WNV
Santa Clara	Santa Clara Co VCD	Campbell	95008	American Crow	6/20/2016	WNV
Santa Clara	Santa Clara Co VCD	Milpitas	95035	American Crow	6/26/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95118	American Crow	6/22/2016	WNV
Santa Clara	Santa Clara Co VCD	Santa Clara	95051	American Crow	6/23/2016	WNV
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	6/21/2016	WNV
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	6/27/2016	WNV
Santa Cruz	Santa Cruz MVCD	Santa Cruz	95060	Western Scrub-Jay	6/22/2016	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95993	American Crow	6/24/2016	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93065	American Crow	6/14/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	6/25/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	6/27/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	6/27/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Western Scrub-Jay	6/21/2016	WNV

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Fresno	CNSL1581	227	Cx. quinquefasciatus	Fresno	41	GRVD	6/23/16	WNV
Fresno	CNSL1936	243	Cx. quinquefasciatus	Clovis	33	GRVD	6/28/16	WNV
Fresno	CNSL1996	245	Cx. quinquefasciatus	Clovis	30	GRVD	6/29/16	WNV
Fresno	CNSL5017	239	Cx. tarsalis	Laton	50	CO2	6/28/16	WNV
Fresno	CNSL9118	228	Cx. quinquefasciatus	Clovis	40	BGSENT	6/23/16	WNV
Fresno	FRNO133	77	Cx. quinquefasciatus	Fresno	50	GRVD	6/28/16	WNV
Fresno	FRNO133	78	Cx. quinquefasciatus	Fresno	16	GRVD	6/28/16	WNV
Fresno	FRNO8007	75	Cx. tarsalis		21	CO2	6/28/16	WNV
Fresno	FRWS500011	56	Cx. tarsalis		50	CO2	6/24/16	WNV
Kern	KERN2011	270	Cx. quinquefasciatus	Bakersfield	44	GRVD	6/22/16	WNV
Kern	KERN2018	271	Cx. quinquefasciatus	Bakersfield	50	GRVD	6/22/16	SLEV
Kern	KERN2021	276	Cx. quinquefasciatus	Wasco	50	GRVD	6/23/16	WNV
Kern	KERN2030	272	Cx. quinquefasciatus	Bakersfield	50	GRVD	6/22/16	WNV
Kern	KERN2030	272	Cx. quinquefasciatus	Bakersfield	50	GRVD	6/22/16	SLEV
Kern	KERN2033	260	Cx. quinquefasciatus	Bakersfield	30	GRVD	6/21/16	WNV
Kern	KERN3004	278	Cx. quinquefasciatus	Bakersfield	50	CO2	6/23/16	SLEV
Kern	KERN3039	274	Cx. tarsalis	Bakersfield	50	CO2	6/22/16	WNV
Kings	CNSL5107	238	Cx. quinquefasciatus	Kingsburg	37	GRVD	6/28/16	WNV
Kings	KNGS3005	90	Cx. tarsalis	Lemoore NAS	50	CO2	6/21/16	WNV
Kings	KNGS4001	112	Cx. tarsalis	Hanford	50	CO2	6/23/16	WNV
Kings	KNGS4001	113	Cx. tarsalis	Hanford	48	CO2	6/23/16	WNV
Kings	KNGS5502	103	Cx. tarsalis	Hanford	16	BGSENT	6/22/16	WNV
Kings	KNGS5503	101	Cx. pipiens	Hanford	27	BGSENT	6/22/16	WNV
Kings	KNGS5515	100	Cx. pipiens	Hanford	15	BGSENT	6/22/16	WNV
Los Angeles	GRLA2097	399	Cx. quinquefasciatus	La Mirada	16	GRVD	6/24/16	WNV
Los Angeles	GRLA2414	5387	Cx. quinquefasciatus	Granada Hills	39	GRVD	6/22/16	WNV
Los Angeles	GRLA2937	5376	Cx. quinquefasciatus	Burbank	50	GRVD	6/21/16	WNV

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Los Angeles	GRLA2953	401	Cx. quinquefasciatus	Santa Fe Springs	50	GRVD	6/24/16	WNV
Los Angeles	GRLA3035	5386	Cx. quinquefasciatus	North Hills	50	GRVD	6/22/16	WNV
Los Angeles	GRLA3132	5392	Cx. quinquefasciatus	Eagle Rock	37	GRVD	6/23/16	WNV
Madera	MADR12	161	Cx. quinquefasciatus	Madera	50	CO2	6/23/16	WNV
Madera	MADR3334	159	Cx. quinquefasciatus	Madera	50	CO2	6/22/16	WNV
Riverside	COAV208	2510	Cx. quinquefasciatus	Palm Springs	50	CO2	6/30/16	WNV
Riverside	COAV208	2511	Cx. quinquefasciatus	Palm Springs	50	CO2	6/30/16	WNV
Riverside	COAV208	2512	Cx. quinquefasciatus	Palm Springs	50	CO2	6/30/16	WNV
Riverside	COAV208	2513	Cx. quinquefasciatus	Palm Springs	32	CO2	6/30/16	WNV
Riverside	COAV46	2431	Cx. tarsalis	Mecca	50	CO2	6/28/16	SLEV
Riverside	COAV610	2406	Cx. tarsalis		31	CO2	6/28/16	SLEV
Sacramento	SAYO202006	2344	Cx. tarsalis	Sacramento	50	CO2	6/30/16	WNV
Sacramento	SAYO202006	2345	Cx. tarsalis	Sacramento	50	CO2	6/30/16	WNV
Sacramento	SAYO202006	2346	Cx. tarsalis	Sacramento	50	CO2	6/30/16	WNV
Sacramento	SAYO202006	2347	Cx. tarsalis	Sacramento	50	CO2	6/30/16	WNV
Sacramento	SAYO202015	2342	Cx. pipiens	Rio Linda	1	GRVD	6/30/16	WNV
Sacramento	SAYO203024	1972	Cx. tarsalis	North Highlands	50	CO2	6/28/16	WNV
Sacramento	SAYO203039	1968	Cx. tarsalis	North Highlands	19	CO2	6/28/16	WNV
Sacramento	SAYO203041	1976	Cx. tarsalis	Sacramento	35	CO2	6/28/16	WNV
Sacramento	SAYO203041	1977	Cx. tarsalis	Sacramento	4	GRVD	6/28/16	WNV
Sacramento	SAYO204020	1971	Cx. pipiens	Sacramento	46	CO2	6/28/16	WNV
Sacramento	SAYO204027	2002	Cx. tarsalis	Fair Oaks	29	CO2	6/28/16	WNV
Sacramento	SAYO205029	2028	Cx. pipiens	Orangevale	4	GRVD	6/28/16	WNV
Sacramento	SAYO212029	2328	Cx. pipiens	Sacramento	9	GRVD	6/30/16	WNV
Sacramento	SAYO212033	2333	Cx. tarsalis	Sacramento	2	GRVD	6/30/16	WNV
Sacramento	SAYO212033	2334	Cx. pipiens	Sacramento	50	CO2	6/30/16	WNV
Sacramento	SAYO213002	1940	Cx. tarsalis	Sacramento	27	CO2	6/25/16	WNV
Sacramento	SAYO213002	1941	Cx. pipiens	Sacramento	2	CO2	6/25/16	WNV
Sacramento	SAYO213002	1942	Cx. pipiens	Sacramento	2	GRVD	6/25/16	WNV
Sacramento	SAYO213009	1946	Cx. pipiens	Sacramento	3	GRVD	6/25/16	WNV
Sacramento	SAYO213023	1948	Cx. pipiens	Sacramento	2	CO2	6/25/16	WNV
Sacramento	SAYO213023	1949	Cx. pipiens	Sacramento	2	GRVD	6/25/16	WNV
Sacramento	SAYO213033	1935	Cx. pipiens	Sacramento	3	CO2	6/25/16	WNV
Sacramento	SAYO213052	1980	Cx. tarsalis	Sacramento	15	CO2	6/28/16	WNV
Sacramento	SAYO213054	1962	Cx. pipiens	Carmichael	1	GRVD	6/25/16	WNV
Sacramento	SAYO214011	2009	Cx. tarsalis	Fair Oaks	27	CO2	6/28/16	WNV
Sacramento	SAYO214011	2010	Cx. pipiens	Fair Oaks	38	CO2	6/28/16	WNV
Sacramento	SAYO214011	2011	Cx. pipiens	Fair Oaks	20	GRVD	6/28/16	WNV
Sacramento	SAYO214020	2052	Cx. pipiens	Rancho Cordova	2	CO2	6/28/16	WNV
Sacramento	SAYO214033	1996	Cx. pipiens	Fair Oaks	21	CO2	6/28/16	WNV
Sacramento	SAYO214033	1997	Cx. pipiens	Fair Oaks	23	GRVD	6/28/16	WNV
Sacramento	SAYO215016	2018	Cx. tarsalis	Orangevale	10	CO2	6/28/16	WNV
Sacramento	SAYO215020	2043	Cx. pipiens	Fair Oaks	43	GRVD	6/28/16	WNV
Sacramento	SAYO223013	2072	Cx. pipiens	Sacramento	10	GRVD	6/28/16	WNV
Sacramento	SAYO223033	2067	Cx. pipiens	Sacramento	1	GRVD	6/28/16	WNV
Sacramento	SAYO223047	2356	Cx. pipiens	Sacramento	31	CO2	6/30/16	WNV
Sacramento	SAYO223053	2060	Cx. pipiens	Sacramento	6	GRVD	6/28/16	WNV
Sacramento	SAYO224010	2062	Cx. pipiens	Sacramento	12	CO2	6/28/16	WNV
Sacramento	SAYO224010	2063	Cx. pipiens	Sacramento	50	GRVD	6/28/16	WNV
Sacramento	SAYO224010	2064	Cx. pipiens	Sacramento	3	GRVD	6/28/16	WNV
Sacramento	SAYO232012	2162	Cx. tarsalis	Elk Grove	30	CO2	6/28/16	WNV

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Sacramento	SAYO232022	2156	Cx. tarsalis	Elk Grove	25	CO2	6/28/16	WNV
Sacramento	SAYO233001	2116	Cx. pipiens	Elk Grove	11	GRVD	6/28/16	WNV
Sacramento	SAYO233002	2129	Cx. tarsalis	Elk Grove	1	GRVD	6/28/16	WNV
Sacramento	SAYO233006	2127	Cx. pipiens	Elk Grove	8	GRVD	6/28/16	WNV
Sacramento	SAYO233009	2148	Cx. tarsalis	Elk Grove	50	CO2	6/28/16	WNV
Sacramento	SAYO233009	2151	Cx. pipiens	Elk Grove	27	CO2	6/28/16	WNV
Sacramento	SAYO233012	2153	Cx. tarsalis	Elk Grove	44	CO2	6/28/16	WNV
Sacramento	SAYO233012	2154	Cx. pipiens	Elk Grove	29	CO2	6/28/16	WNV
Sacramento	SAYO233018	2073	Cx. tarsalis	Sacramento	44	CO2	6/28/16	WNV
Sacramento	SAYO233018	2074	Cx. tarsalis	Sacramento	1	GRVD	6/28/16	WNV
Sacramento	SAYO233018	2075	Cx. pipiens	Sacramento	32	CO2	6/28/16	WNV
Sacramento	SAYO233021	2117	Cx. tarsalis	Elk Grove	28	CO2	6/28/16	WNV
Sacramento	SAYO233025	2080	Cx. tarsalis	Elk Grove	48	CO2	6/28/16	WNV
Sacramento	SAYO233025	2081	Cx. tarsalis	Elk Grove	1	GRVD	6/28/16	WNV
Sacramento	SAYO233025	2082	Cx. pipiens	Elk Grove	30	CO2	6/28/16	WNV
Sacramento	SAYO233025	2083	Cx. pipiens	Elk Grove	25	GRVD	6/28/16	WNV
Sacramento	SAYO233046	2110	Cx. tarsalis	Elk Grove	42	CO2	6/28/16	WNV
Sacramento	SAYO233046	2111	Cx. pipiens	Elk Grove	32	CO2	6/28/16	WNV
Sacramento	SAYO233069	2140	Cx. pipiens	Elk Grove	29	CO2	6/28/16	WNV
Sacramento	SAYO233074	2079	Cx. pipiens	Sacramento	17	GRVD	6/28/16	WNV
Sacramento	SAYO233077	2144	Cx. tarsalis	Sacramento	50	CO2	6/28/16	WNV
Sacramento	SAYO233077	2147	Cx. pipiens	Sacramento	7	GRVD	6/28/16	WNV
Sacramento	SAYO243010	2137	Cx. pipiens	Elk Grove	43	CO2	6/28/16	WNV
Sacramento	SAYO243010	2138	Cx. pipiens	Elk Grove	29	GRVD	6/28/16	WNV
Sacramento	SAYO243025	2170	Cx. pipiens	Elk Grove	50	CO2	6/28/16	WNV
Sacramento	SAYO243026	2406	Cx. pipiens	Elk Grove	50	CO2	6/30/16	WNV
Sacramento	SAYO254011	2421	Cx. tarsalis	Galt	7	CO2	6/30/16	WNV
San Bernardino	WVAL2003	1230	Cx. tarsalis	Chino	6	CO2	6/29/16	WNV
San Joaquin	SJCM8004	1087	Cx. tarsalis	Lodi	5	CO2	6/28/16	WNV
San Joaquin	SJCM8005	1073	Cx. tarsalis	Stockton	50	CO2	6/28/16	WNV
San Joaquin	SJCM8018	1059	Cx. tarsalis	Stockton	50	CO2	6/28/16	WNV
San Joaquin	SJCM8018	1060	Cx. tarsalis	Stockton	50	CO2	6/28/16	WNV
San Joaquin	SJCM8018	1061	Cx. tarsalis	Stockton	50	CO2	6/28/16	WNV
San Joaquin	SJCM8018	1062	Cx. tarsalis	Stockton	50	CO2	6/28/16	WNV
San Joaquin	SJCM8018	1063	Cx. tarsalis	Stockton	50	CO2	6/28/16	WNV
San Joaquin	SJCM8018	1064	Cx. tarsalis	Stockton	50	CO2	6/28/16	WNV
San Joaquin	SJCM8018	1065	Cx. tarsalis	Stockton	50	CO2	6/28/16	WNV
San Joaquin	SJCM8018	1066	Cx. tarsalis	Stockton	50	CO2	6/28/16	WNV
San Joaquin	SJCM8018	1068	Cx. pipiens	Stockton	50	CO2	6/28/16	WNV
San Joaquin	SJCM8026	999	Cx. tarsalis	Stockton	50	CO2	6/28/16	WNV
San Joaquin	SJCM8048	1093	Cx. pipiens	Stockton	12	CO2	6/28/16	WNV
San Joaquin	SJCM8049	1044	Cx. tarsalis	Stockton	50	CO2	6/28/16	WNV
San Joaquin	SJCM8049	1045	Cx. tarsalis	Stockton	50	CO2	6/28/16	WNV
San Joaquin	SJCM8049	1047	Cx. tarsalis	Stockton	32	CO2	6/28/16	WNV
San Joaquin	SJCM8074	1136	Cx. pipiens	Morada	3	CO2	6/30/16	WNV
San Joaquin	SJCM8082	981	Cx. tarsalis	Stockton	36	CO2	6/28/16	WNV
San Joaquin	SJCM8083	1072	Cx. pipiens	Escalon	53	CO2	6/28/16	WNV
San Joaquin	SJCM8125	991	Cx. tarsalis	Stockton	18	CO2	6/28/16	WNV
San Joaquin	SJCM8143	1052	Cx. tarsalis	Stockton	50	CO2	6/28/16	WNV
San Joaquin	SJCM8143	1056	Cx. tarsalis	Stockton	50	CO2	6/28/16	WNV
Santa Clara	STCL2481	100	Cx. pipiens	San Jose	15	CO2	6/25/16	WNV
Santa Clara	STCL2493	111	Cx. tarsalis	San Jose	15	CO2	6/25/16	WNV
Santa Clara	STCL3350	121	Cx. tarsalis	San Jose	7	CO2	6/28/16	WNV
Stanislaus	TRLK1303	326	Cx. tarsalis	Patterson	50	CO2	6/27/16	WNV

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Stanislaus	TRLK305	341	Cx. tarsalis	Grayson	50	CO2	6/27/16	WNV
Stanislaus	TRLK424	330	Cx. tarsalis	Patterson	50	CO2	6/27/16	WNV
Stanislaus	TRLK424	334	Cx. tarsalis	Patterson	50	CO2	6/27/16	WNV
Stanislaus	TRLK424	335	Cx. tarsalis	Patterson	29	CO2	6/27/16	WNV
Stanislaus	TRLK437	328	Cx. tarsalis	Patterson	50	CO2	6/27/16	WNV
Stanislaus	TRLK437	329	Cx. tarsalis	Patterson	11	CO2	6/27/16	WNV
Sutter	SUYA27	124	Cx. tarsalis	Tierra Buena	50	CO2	6/27/16	WNV
Sutter	SUYA31	128	Cx. tarsalis	Rio Oso	50	REST	6/28/16	WNV
Sutter	SUYA44	82	Cx. tarsalis	Pleasant Grove	50	REST	6/27/16	WNV
Sutter	SUYA44	83	Cx. tarsalis	Pleasant Grove	50	REST	6/27/16	WNV
Sutter	SUYA84	140	Cx. tarsalis	Yuba City	50	CO2	6/27/16	WNV
Tulare	DLNO84	76	Cx. quinquefasciatus	Terra Bella	50	GRVD	6/28/16	WNV
Tulare	DLTA6407	1424	Cx. quinquefasciatus	Dinuba	45	GRVD	6/24/16	WNV
Tulare	DLTA6407	1562	Cx. quinquefasciatus	Dinuba	50	GRVD	6/29/16	WNV
Tulare	DLTA6407	1563	Cx. quinquefasciatus	Dinuba	20	GRVD	6/29/16	WNV
Tulare	DLTA6408	1431	Cx. quinquefasciatus	Dinuba	50	GRVD	6/24/16	WNV
Tulare	DLTA6417	1426	Cx. quinquefasciatus	Dinuba	50	GRVD	6/24/16	WNV
Tulare	DLTA6417	1427	Cx. quinquefasciatus	Dinuba	50	GRVD	6/24/16	WNV
Tulare	DLTA6417	1428	Cx. quinquefasciatus	Dinuba	20	GRVD	6/24/16	WNV
Tulare	DLTA6417	1559	Cx. quinquefasciatus	Dinuba	42	GRVD	6/29/16	WNV
Tulare	DLTA8422	1463	Cx. quinquefasciatus	Goshen	50	GRVD	6/28/16	WNV
Tulare	DLTA8422	1465	Cx. quinquefasciatus	Goshen	50	GRVD	6/28/16	WNV
Tulare	DLTA8422	1531	Cx. quinquefasciatus	Goshen	37	GRVD	6/29/16	WNV
Tulare	DLTA8519	1420	Cx. quinquefasciatus	Visalia	50	GRVD	6/24/16	WNV
Tulare	DLTA8527	1519	Cx. quinquefasciatus	Visalia	50	GRVD	6/29/16	WNV
Tulare	DLTA8528	1434	Cx. quinquefasciatus	Visalia	50	GRVD	6/28/16	WNV
Tulare	DLTA8533	1513	Cx. quinquefasciatus	Visalia	50	GRVD	6/29/16	WNV
Tulare	DLTA8536	1499	Cx. quinquefasciatus	Farmersville	50	GRVD	6/28/16	WNV
Tulare	DLTA9403	1454	Cx. quinquefasciatus	Visalia	33	GRVD	6/28/16	WNV
Tulare	DLTA9503	1516	Cx. quinquefasciatus	Visalia	50	GRVD	6/29/16	WNV
Tulare	DLTA9602	1473	Cx. quinquefasciatus	Exeter	50	GRVD	6/28/16	WNV
Tulare	DLTA9604	1488	Cx. quinquefasciatus	Exeter	50	GRVD	6/28/16	WNV
Tulare	TLRE25	27	Cx. tarsalis	Tulare	39	CO2	6/29/16	WNV
Yolo	SAYO135006	2280	Cx. tarsalis	Woodland	50	CO2	6/30/16	WNV
Yolo	SAYO135010	2197	Cx. tarsalis	Woodland	50	CO2	6/28/16	WNV
Yolo	SAYO135020	2180	Cx. tarsalis	woodland	50	CO2	6/28/16	WNV
Yolo	SAYO136010	2284	Cx. tarsalis	Woodland	50	CO2	6/30/16	WNV
Yolo	SAYO136010	2285	Cx. tarsalis	Woodland	50	CO2	6/30/16	WNV
Yolo	SAYO145016	2247	Cx. tarsalis	Davis	50	CO2	6/30/16	WNV
Yolo	SAYO146002	2269	Cx. tarsalis	Davis	50	CO2	6/30/16	WNV
Yolo	SAYO146002	2272	Cx. tarsalis	Davis	50	CO2	6/30/16	WNV
Yolo	SAYO146006	2255	Cx. pipiens	Davis	12	CO2	6/30/16	WNV

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02
Sutter	SUYA0020	Meridian	6/23/2016	WNV	2039	
Sutter	SUYA0031	Rio Oso	6/23/2016	WNV	2024	2028

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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 Center for Vectorborne Diseases (CVEC) for West Nile virus by the singleplex RT-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.

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, and St. Louis encephalitis viruses by EIA. Positive samples are confirmed by IFA, western-blot, or PRNT.

Mosquito Pools:

Mosquito pools are submitted to CVEC and screened for West Nile, western equine encephalomyelitis, and St. Louis encephalitis viral RNA using a Taqman multiplex RT-PCR. CVEC no longer performs confirmatory 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.

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