

California Arbovirus Surveillance Bulletin #18

Week 27 Friday, July 8, 2016



Weekly Update

Humans

No human cases have been reported in 2016.

Dead Birds

This week, a total of 64 dead birds tested positive for West Nile virus (WNV) from the following 12 counties: Kings (3), Los Angeles (4), Placer (1), Riverside (1), Sacramento (30), San Diego (9), San Joaquin (4), San Mateo (2), Santa Clara (4), Stanislaus (1), Sutter (1), and Yolo (4). **This is the first detection of WNV in San Mateo County this year. These are the first positive birds from Kings and Placer counties this year.** In 2016, 435 dead birds have tested positive for WNV from 22 counties, whereas at this time last year, 152 WNV positive birds had been reported from 25 counties.

Mosquito Pools

West Nile virus

A total of 174 WNV positive mosquito pools were reported this week from the following 16 counties: Butte (2), Fresno (14), Kern (2), Kings (15), Los Angeles (21), Orange (7), Placer (10), Riverside (2), Sacramento (34), San Bernardino (1), San Joaquin (21), Stanislaus (16), Sutter (5), Tulare (15), Yolo (5), and Yuba. **This is the first detection of WNV activity in Placer and Yuba counties in 2016.** To date this year, 607 WNV positive mosquito pools have been reported from 19 counties, whereas at this time last year, 348 WNV positive mosquito pools had been reported from 21 counties.

St. Louis encephalitis virus

Three SLEV positive mosquito pools were reported this week from Kern (2) and Riverside (1) counties. To date this year, 25 SLEV positive mosquito pools have been reported from two counties.

Sentinel Chickens

Five WNV seroconversions were reported this week from 2 flocks in 2 counties: Los Angeles (3) and San Diego (2). To date this year, 12 WNV seroconversions have been detected in 5 flocks located in 3 counties, whereas at this time last year, 3 WNV seroconversions had been reported from 2 flocks in 2 counties.

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2015 & 2016 YTD West Nile Virus Comparisons		
	2015	2016
Total # Dead Bird Reports	5,123	4,535
# Positive Counties	31	26
# Human Cases	0	0
# Positive Dead Birds / # Tested	152 / 1,179	435 / 1,232
# Positive Mosquito Pools / # Tested	348 / 12,897	607 / 18,332
# Seroconversions / # Tested	3 / 5,661	12 / 3,879

YTD WNV Activity by Element and County, 2016				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Butte		1	2	
Contra Costa		1		
Fresno		2	50	
Kern			19	
Kings		3	27	
Lake		1		
Los Angeles		32	39	4
Madera		1	10	
Marin		2		
Orange		7	16	
Placer		1	10	
Riverside		2	17	
Sacramento		188	170	
San Bernardino			13	
San Diego		133	40	5
San Joaquin		9	61	
San Mateo		2		
Santa Clara		29	7	
Santa Cruz		1		
Solano		1		
Stanislaus		1	31	
Sutter		4	22	3
Tulare			53	
Ventura		5		
Yolo		9	16	
Yuba			4	
Totals	0	435	607	12

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TESTING SUMMARIES

Humans

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

Dead Birds

		Total Tested	WNV Positive
Dead Birds	Week	117	64
	YTD	1,232	435

Sentinel Chickens

		Total Tested	WNV +	SLEV +	WEEV +
Chicken Sera	Week	437	5	0	0
	YTD	3,879	12	0	0

Mosquitoes

		Positive / Total Tested						
Mosquito Pools		WNV	SLEV	WEEV	CHIK	DENV	ZIKA	
		Week	174 / 1,652	3 / 940	0 / 940	0 / 0	0 / 0	0 / 0
		YTD	607 / 18,332	25 / 10,697	0 / 10,697	0 / 37	0 / 37	0 / 37

NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Kings	Kings MAD	Hanford	93230	American Crow	6/28/2016	WNV
Kings	Kings MAD	Hanford	93230	American Crow	6/30/2016	WNV
Kings	Kings MAD	Hanford	93230	Western Scrub-Jay	6/28/2016	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Los Angeles	91335	American Crow	6/30/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Alta Dena	91001	American Crow	7/6/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Calabassas	91302	American Crow	7/1/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Chatsworth	91311	American Crow	7/5/2016	WNV
Placer	Placer MVCD	Rocklin	95765	Western Scrub-Jay	6/27/2016	WNV
Riverside	Northwest Mosquito VCD	Corona	92881	American Crow	6/22/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	California Towhee	6/29/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	House Finch	6/29/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Northern Mockingbird	6/28/2016	WNV

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Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	6/30/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	7/2/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Lesser Goldfinch	7/1/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Western Scrub-Jay	6/30/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Yellow-billed Magpie	6/29/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	Western Scrub-Jay	6/28/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	American Crow	6/29/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	American Crow	7/1/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	American Crow	7/2/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Oak Titmouse	6/28/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	6/28/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	7/3/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Gold River	95670	American Crow	6/29/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Western Scrub-Jay	6/28/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Western Scrub-Jay	6/28/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Rosemont	95826	Yellow-billed Magpie	6/30/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95816	American Crow	6/30/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95819	American Crow	6/29/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Western Scrub-Jay	6/30/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Western Scrub-Jay	7/1/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	House Sparrow	7/1/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	American Crow	6/30/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	Yellow-billed Magpie	6/30/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	Yellow-billed Magpie	6/30/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95827	Yellow-billed Magpie	6/28/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95828	American Robin	7/1/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	Western Scrub-Jay	6/29/2016	WNV
San Diego	San Diego Co VCP	Carlsbad	92008	American Crow	7/1/2016	WNV
San Diego	San Diego Co VCP	Carlsbad	92008	American Crow	7/7/2016	WNV
San Diego	San Diego Co VCP	Carlsbad	92009	American Crow	7/7/2016	WNV
San Diego	San Diego Co VCP	Escondido	92026	American Crow	7/1/2016	WNV
San Diego	San Diego Co VCP	Oceanside	92057	American Crow	7/1/2016	WNV
San Diego	San Diego Co VCP	San Diego	92117	American Crow	7/1/2016	WNV
San Diego	San Diego Co VCP	Solana Beach	92025	American Crow	7/7/2016	WNV
San Diego	San Diego Co VCP	Vista	92081	American Crow	7/7/2016	WNV
San Diego	San Diego Co VCP	Vista	92084	Cooper's Hawk	7/5/2016	WNV
San Joaquin	San Joaquin Co MVCD	Lodi	95240	House Finch	7/1/2016	WNV
San Joaquin	San Joaquin Co MVCD	Lodi	95242	Western Scrub-Jay	7/5/2016	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95203	Western Scrub-Jay	7/5/2016	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95209	American Crow	7/5/2016	WNV
San Mateo	San Mateo Co MAD	Atherton	94027	American Crow	7/6/2016	WNV
San Mateo	San Mateo Co MAD	Redwood City	94062	American Crow	6/27/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95117	American Crow	6/30/2016	WNV

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Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	7/6/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	7/7/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	7/7/2016	WNV
Stanislaus	Turlock MAD	Turlock	95382	Yellow-billed Magpie	7/1/2016	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95993	American Crow	7/5/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	6/29/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	7/1/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	7/1/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Western Scrub-Jay	7/1/2016	WNV

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO124	117	Cx. tarsalis	Chico	50	CO2	6/29/2016	WNV
Butte	BUCO38	125	Cx. tarsalis	Oroville	50	CO2	7/4/2016	WNV
Fresno	CNSL1566	255	Cx. quinquefasciatus	Fresno	19	BGSENT	7/1/2016	WNV
Fresno	CNSL1955	246	Cx. quinquefasciatus	Clovis	22	GRVD	6/30/2016	WNV
Fresno	CNSL3076	258	Cx. quinquefasciatus	Orange Cove	46	GRVD	7/6/2016	WNV
Fresno	CNSL3249	256	Cx. tarsalis	Reedley	50	CO2	7/6/2016	WNV
Fresno	CNSL9060	250	Cx. quinquefasciatus	Clovis	50	BGSENT	6/30/2016	WNV
Fresno	FRNO103	79	Cx. quinquefasciatus		17	CO2	6/29/2016	WNV
Fresno	FRNO103	86	Cx. quinquefasciatus		31	GRVD	7/1/2016	WNV
Fresno	FRNO135	85	Cx. quinquefasciatus	Fresno	21	CO2	7/1/2016	WNV
Fresno	FRWS100006	86	Cx. tarsalis	Dos Palos	50	CO2	7/6/16	WNV
Fresno	FRWS100025	73	Cx. tarsalis		16	CO2	7/1/16	WNV
Fresno	FRWS400017	81	Cx. quinquefasciatus	Mendota	50	GRVD	7/6/16	WNV
Fresno	FRWS4102	87	Cx. tarsalis	Kerman	50	CO2	7/6/16	WNV
Fresno	FRWS500011	91	Cx. tarsalis		50	CO2	7/6/16	WNV
Fresno	FRWS510002	75	Cx. tarsalis	Tranquility	50	CO2	7/1/16	WNV
Kern	KERN1137	303	Cx. quinquefasciatus	Bakersfield	50	CO2	7/1/2016	SLEV
Kern	KERN115	289	Cx. tarsalis	Bakersfield	35	CO2	6/28/2016	WNV
Kern	KERN2030	291	Cx. quinquefasciatus	Bakersfield	50	GRVD	6/29/2016	SLEV
Kern	KERN3001	295	Cx. quinquefasciatus	Bakersfield	50	CO2	6/29/2016	WNV
Kings	KNGS3018	143	Cx. tarsalis	Lemoore	50	CO2	6/29/2016	WNV
Kings	KNGS3018	144	Cx. pipiens	Lemoore	46	CO2	6/29/2016	WNV
Kings	KNGS3026	130	Cx. pipiens	Hanford	35	BGSENT	6/28/2016	WNV
Kings	KNGS3033	123	Cx. pipiens	Hanford	50	BGSENT	6/28/2016	WNV
Kings	KNGS3303	119	Cx. pipiens	Corcoran	11	BGSENT	6/28/2016	WNV
Kings	KNGS4001	134	Cx. tarsalis	Hanford	21	BGSENT	6/29/2016	WNV
Kings	KNGS4001	135	Cx. pipiens	Hanford	50	BGSENT	6/29/2016	WNV
Kings	KNGS4006	133	Cx. pipiens	Hanford	38	BGSENT	6/29/2016	WNV
Kings	KNGS5502	136	Cx. tarsalis	Hanford	22	BGSENT	6/29/2016	WNV
Kings	KNGS5502	137	Cx. pipiens	Hanford	32	BGSENT	6/29/2016	WNV
Kings	KNGS5504	141	Cx. pipiens	Hanford	14	BGSENT	6/29/2016	WNV
Kings	KNGS5510	138	Cx. tarsalis	Hanford	14	BGSENT	6/29/2016	WNV
Kings	KNGS5512	139	Cx. tarsalis	Hanford	12	BGSENT	6/29/2016	WNV
Kings	KNGS5513	149	Cx. pipiens	Hanford	24	BGSENT	6/30/2016	WNV
Kings	KNGS5517	131	Cx. pipiens	Hanford	11	BGSENT	6/29/2016	WNV

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Los Angeles	GRLA2023	5425	Cx. quinquefasciatus	Reseda	45	GRVD	7/1/2016	WNV
Los Angeles	GRLA2029	5405	Cx. quinquefasciatus	Canoga Park	50	GRVD	6/29/2016	WNV
Los Angeles	GRLA2030	5406	Cx. quinquefasciatus	West Hills	34	GRVD	6/29/2016	WNV
Los Angeles	GRLA2031	5427	Cx. quinquefasciatus	Northridge	50	GRVD	7/1/2016	WNV
Los Angeles	GRLA2032	5426	Cx. quinquefasciatus	Northridge	32	GRVD	7/1/2016	WNV
Los Angeles	GRLA2228	425	Cx. quinquefasciatus	Diamond Bar	50	GRVD	6/29/2016	WNV
Los Angeles	GRLA2230	426	Cx. quinquefasciatus	Diamond Bar	14	GRVD	6/29/2016	WNV
Los Angeles	GRLA2383	432	Cx. quinquefasciatus	Whittier	50	GRVD	6/29/2016	WNV
Los Angeles	GRLA2476	5413	Cx. quinquefasciatus	Sunland	35	GRVD	6/30/2016	WNV
Los Angeles	GRLA2530	5415	Cx. quinquefasciatus	Sunland	33	GRVD	6/30/2016	WNV
Los Angeles	GRLA2539	5429	Cx. quinquefasciatus	Northridge	50	GRVD	7/1/2016	WNV
Los Angeles	GRLA2550	5418	Cx. quinquefasciatus	Mission Hills	50	GRVD	6/30/2016	WNV
Los Angeles	GRLA2554	5403	Cx. quinquefasciatus	Winnetka	50	GRVD	6/29/2016	WNV
Los Angeles	GRLA2555	5422	Cx. quinquefasciatus	Encino	50	GRVD	7/1/2016	WNV
Los Angeles	GRLA2567	5401	Cx. quinquefasciatus	Woodland Hills	25	GRVD	6/29/2016	WNV
Los Angeles	GRLA2724	5404	Cx. quinquefasciatus	Canoga Park	50	GRVD	6/29/2016	WNV
Los Angeles	GRLA2889	415	Cx. quinquefasciatus	Lakewood	50	GRVD	6/28/2016	WNV
Los Angeles	GRLA2995	5402	Cx. quinquefasciatus	Woodland Hills	50	GRVD	6/29/2016	WNV
Los Angeles	GRLA3000	5416	Cx. quinquefasciatus	Sun Valley	50	GRVD	6/30/2016	WNV
Los Angeles	GRLA3036	5407	Cx. quinquefasciatus	Canoga Park	50	GRVD	6/29/2016	WNV
Los Angeles	GRLA3058	450	Cx. quinquefasciatus	Lynwood	50	GRVD	7/1/2016	WNV
Orange	ORCO1011	1569	Cx. quinquefasciatus	La Habra	28	GRVD	6/23/2016	WNV
Orange	ORCO1011	1710	Cx. quinquefasciatus	La Habra	50	GRVD	6/28/2016	WNV
Orange	ORCO1011	1713	Cx. quinquefasciatus	La Habra	50	GRVD	6/28/2016	WNV
Orange	ORCO1011	1791	Cx. quinquefasciatus	La Habra	36	GRVD	6/30/2016	WNV
Orange	ORCO238	1839	Cx. quinquefasciatus	Anaheim	11	GRVD	7/6/2016	WNV
Orange	ORCO241	1682	Cx. quinquefasciatus	Stanton	50	GRVD	6/28/2016	WNV
Orange	ORCO52	1631	Cx. quinquefasciatus	Anaheim	50	GRVD	6/28/2016	WNV
Placer	PLCR1070	762	Cx. tarsalis	Roseville	50	CO2	6/28/16	WNV
Placer	PLCR1113	900	Cx. tarsalis	Pleasant Grove	50	CO2	7/5/2016	WNV
Placer	PLCR1114	803	Cx. tarsalis	Lincoln	50	CO2	6/28/16	WNV
Placer	PLCR17	838	Cx. tarsalis	Sheridan	50	CO2	6/29/16	WNV
Placer	PLCR191218	769	Cx. tarsalis		50	CO2	6/28/16	WNV
Placer	PLCR191218	770	Cx. tarsalis		50	CO2	6/28/16	WNV
Placer	PLCR191218	773	Cx. tarsalis		50	CO2	6/28/16	WNV
Placer	PLCR25	884	Cx. tarsalis	Lincoln	50	CO2	7/5/2016	WNV
Placer	PLCR668	796	Cx. tarsalis	Elverta	50	CO2	6/28/16	WNV
Placer	PLCR668	913	Cx. tarsalis	Elverta	34	CO2	7/5/2016	WNV
Riverside	COAV208	2523	Cx. quinquefasciatus	Palm Springs	50	GRVD	7/6/2016	WNV
Riverside	COAV208	2524	Cx. quinquefasciatus	Palm Springs	9	GRVD	7/6/2016	WNV
Riverside	COAV46	2525	Cx. tarsalis	Mecca	22	CO2	7/6/2016	SLEV
Sacramento	SAYO203041	2583	Cx. tarsalis	Sacramento	21	CO2	7/2/2016	WNV
Sacramento	SAYO203041	2584	Cx. tarsalis	Sacramento	2	GRVD	7/2/2016	WNV
Sacramento	SAYO205028	2631	Cx. pipiens	Orangevale	15	GRVD	7/2/2016	WNV
Sacramento	SAYO212021	2661	Cx. pipiens	Sacramento	1	CO2	7/6/2016	WNV

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Sacramento	SAYO212028	2644	Cx. pipiens	Sacramento	5	GRVD	7/6/2016	WNV
Sacramento	SAYO212033	2646	Cx. pipiens	Sacramento	50	CO2	7/6/2016	WNV
Sacramento	SAYO212033	2648	Cx. pipiens	Sacramento	10	GRVD	7/6/2016	WNV
Sacramento	SAYO213017	2551	Cx. tarsalis	Sacramento	2	GRVD	7/2/2016	WNV
Sacramento	SAYO213017	2552	Cx. pipiens	Sacramento	5	CO2	7/2/2016	WNV
Sacramento	SAYO213033	2558	Cx. pipiens	Sacramento	6	CO2	7/2/2016	WNV
Sacramento	SAYO213048	2556	Cx. pipiens	Sacramento	2	GRVD	7/2/2016	WNV
Sacramento	SAYO213052	2577	Cx. pipiens	Sacramento	7	CO2	7/2/2016	WNV
Sacramento	SAYO213055	2563	Cx. tarsalis	Sacramento	9	CO2	7/2/2016	WNV
Sacramento	SAYO214001	2567	Cx. pipiens	Carmichael	3	CO2	7/2/2016	WNV
Sacramento	SAYO214001	2568	Cx. pipiens	Carmichael	3	GRVD	7/2/2016	WNV
Sacramento	SAYO214013	2602	Cx. pipiens	Carmichael	22	CO2	7/2/2016	WNV
Sacramento	SAYO214035	2575	Cx. pipiens	Gold River	35	GRVD	7/2/2016	WNV
Sacramento	SAYO222001	2668	Cx. pipiens	Sacramento	49	GRVD	7/6/2016	WNV
Sacramento	SAYO222011	2793	Cx. pipiens	Sacramento	18	GRVD	7/6/2016	WNV
Sacramento	SAYO223040	2548	Cx. pipiens	Sacramento	17	GRVD	7/2/2016	WNV
Sacramento	SAYO223044	2545	Cx. pipiens		25	GRVD	7/2/2016	WNV
Sacramento	SAYO232017	2486	Cx. pipiens	Elk Grove	50	GRVD	7/2/2016	WNV
Sacramento	SAYO233009	2510	Cx. tarsalis	Elk Grove	50	CO2	7/2/2016	WNV
Sacramento	SAYO233026	2476	Cx. pipiens	Elk Grove	9	CO2	7/2/2016	WNV
Sacramento	SAYO233032	2519	Cx. pipiens	Sacramento	19	GRVD	7/2/2016	WNV
Sacramento	SAYO233064	2516	Cx. pipiens	Sacramento	13	GRVD	7/2/2016	WNV
Sacramento	SAYO233073	2507	Cx. tarsalis	Elk Grove	14	CO2	7/2/2016	WNV
Sacramento	SAYO242016	2480	Cx. pipiens	Elk Grove	50	CO2	7/2/2016	WNV
Sacramento	SAYO242016	2482	Cx. pipiens	Elk Grove	44	GRVD	7/2/2016	WNV
Sacramento	SAYO243010	2539	Cx. pipiens	Elk Grove	4	GRVD	7/2/2016	WNV
Sacramento	SAYO243016	2465	Cx. tarsalis	Elk Grove	34	CO2	7/2/2016	WNV
Sacramento	SAYO243020	2498	Cx. pipiens	Elk Grove	40	CO2	7/2/2016	WNV
Sacramento	SAYO243025	2473	Cx. pipiens	Elk Grove	50	CO2	7/2/2016	WNV
Sacramento	SAYO243033	2457	Cx. tarsalis	elk grove	50	CO2	6/27/2016	WNV
San Bernardino	SANB90	311	Cx. stigmatosoma	Chino	28	CO2	6/28/2016	WNV
San Joaquin	SJCM8004	1237	Cx. tarsalis	Lodi	23	CO2	7/6/2016	WNV
San Joaquin	SJCM8018	1228	Cx. tarsalis	Stockton	50	CO2	7/6/2016	WNV
San Joaquin	SJCM8018	1230	Cx. tarsalis	Stockton	50	CO2	7/6/2016	WNV
San Joaquin	SJCM8018	1231	Cx. tarsalis	Stockton	50	CO2	7/6/2016	WNV
San Joaquin	SJCM8020	1194	Cx. tarsalis	Acampo	50	CO2	7/6/2016	WNV
San Joaquin	SJCM8020	1195	Cx. tarsalis	Acampo	44	CO2	7/6/2016	WNV
San Joaquin	SJCM8020	1196	Cx. pipiens	Acampo	4	CO2	7/6/2016	WNV
San Joaquin	SJCM8029	1268	Cx. pipiens	Farmington	2	CO2	7/8/2016	WNV
San Joaquin	SJCM8041	1239	Cx. tarsalis	Lodi	1	CO2	7/6/2016	WNV
San Joaquin	SJCM8074	1270	Cx. pipiens	Morada	6	CO2	7/8/2016	WNV
San Joaquin	SJCM8075	1261	Cx. tarsalis	Lodi	8	CO2	7/8/2016	WNV
San Joaquin	SJCM8077	1193	Cx. pipiens	Stockton	5	CO2	7/6/2016	WNV
San Joaquin	SJCM8097	1242	Cx. tarsalis	Banta	50	CO2	7/6/2016	WNV
San Joaquin	SJCM8159	1210	Cx. pipiens	Stockton	34	CO2	7/6/2016	WNV
San Joaquin	SJCM8160	1219	Cx. pipiens	Lodi	12	CO2	7/6/2016	WNV
San Joaquin	SJCM8161	1244	Cx. tarsalis	Ripon	50	CO2	7/8/2016	WNV
San Joaquin	SJCM8161	1245	Cx. tarsalis	Ripon	47	CO2	7/8/2016	WNV
San Joaquin	SJCM8161	1246	Cx. pipiens	Ripon	50	CO2	7/8/2016	WNV
San Joaquin	SJCM8161	1247	Cx. pipiens	Ripon	50	CO2	7/8/2016	WNV
San Joaquin	SJCM8161	1248	Cx. pipiens	Ripon	13	CO2	7/8/2016	WNV
San Joaquin	SJCM8191	1204	Cx. pipiens	Lodi	3	CO2	7/6/2016	WNV
Stanislaus	TRLK1203	398	Cx. pipiens	Hughson	21	CO2	7/6/2016	WNV
Stanislaus	TRLK1315	358	Cx. tarsalis	Patterson	50	CO2	7/1/2016	WNV

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Stanislaus	TRLK1315	359	Cx. tarsalis	Patterson	34	CO2	7/1/2016	WNV
Stanislaus	TRLK1612	375	Cx. tarsalis	Turlock	28	CO2	7/6/2016	WNV
Stanislaus	TRLK424	355	Cx. tarsalis	Patterson	50	CO2	7/1/2016	WNV
Stanislaus	TRLK432	376	Cx. pipiens	Turlock	50	CO2	7/6/2016	WNV
Stanislaus	TRLK432	377	Cx. pipiens	Turlock	50	CO2	7/6/2016	WNV
Stanislaus	TRLK432	378	Cx. pipiens	Turlock	50	CO2	7/6/2016	WNV
Stanislaus	TRLK432	380	Cx. pipiens	Turlock	50	CO2	7/6/2016	WNV
Stanislaus	TRLK432	382	Cx. pipiens	Turlock	50	CO2	7/6/2016	WNV
Stanislaus	TRLK432	383	Cx. tarsalis	Turlock	50	CO2	7/6/2016	WNV
Stanislaus	TRLK432	384	Cx. tarsalis	Turlock	50	CO2	7/6/2016	WNV
Stanislaus	TRLK516	395	Cx. tarsalis	Denair	50	CO2	7/6/2016	WNV
Stanislaus	TRLK526	387	Cx. pipiens	Denair	50	CO2	7/6/2016	WNV
Stanislaus	TRLK526	390	Cx. pipiens	Denair	50	CO2	7/6/2016	WNV
Stanislaus	TRLK526	391	Cx. pipiens	Denair	46	CO2	7/6/2016	WNV
Sutter	SUYA24	143	Cx. tarsalis	Yuba City	30	REST	7/5/2016	WNV
Sutter	SUYA27	178	Cx. tarsalis	Tierra Buena	35	CO2	7/5/2016	WNV
Sutter	SUYA30	161	Cx. tarsalis	Live Oak	37	REST	7/5/2016	WNV
Sutter	SUYA31	167	Cx. tarsalis	Rio Oso	44	REST	7/5/2016	WNV
Sutter	SUYA44	145	Cx. tarsalis	Pleasant Grove	49	REST	7/5/2016	WNV
Tulare	DLTA6407	1620	Cx. quinquefasciatus	Dinuba	30	GRVD	6/30/2016	WNV
Tulare	DLTA6407	1684	Cx. quinquefasciatus	Dinuba	35	GRVD	7/6/2016	WNV
Tulare	DLTA6408	1685	Cx. quinquefasciatus	Dinuba	40	GRVD	7/6/2016	WNV
Tulare	DLTA6416	1687	Cx. quinquefasciatus	Dinuba	23	GRVD	7/6/2016	WNV
Tulare	DLTA6417	1646	Cx. quinquefasciatus	Dinuba	42	GRVD	7/1/2016	WNV
Tulare	DLTA7636	1592	Cx. quinquefasciatus	Woodlake	50	GRVD	6/30/2016	WNV
Tulare	DLTA8413	1617	Cx. quinquefasciatus	Visalia	20	GRVD	6/30/2016	WNV
Tulare	DLTA8436	1679	Cx. quinquefasciatus	Visalia	50	GRVD	7/6/2016	WNV
Tulare	DLTA8527	1665	Cx. quinquefasciatus	Visalia	50	GRVD	7/6/2016	WNV
Tulare	DLTA8527	1667	Cx. quinquefasciatus	Visalia	49	GRVD	7/6/2016	WNV
Tulare	DLTA8533	1658	Cx. quinquefasciatus	Visalia	41	GRVD	7/6/2016	WNV
Tulare	DLTA9506	1674	Cx. quinquefasciatus	Visalia	21	GRVD	7/6/2016	WNV
Tulare	DLTA9603	1585	Cx. quinquefasciatus	Exeter	50	GRVD	6/30/2016	WNV
Tulare	DLTA9603	1700	Cx. quinquefasciatus	Exeter	44	GRVD	7/6/2016	WNV
Tulare	DLTA9610	1606	Cx. quinquefasciatus	Exeter	50	GRVD	6/30/2016	WNV
Yolo	SAYO135005	2748	Cx. tarsalis	Woodland	50	CO2	7/6/2016	WNV
Yolo	SAYO135020	2718	Cx. tarsalis	woodland	50	CO2	7/6/2016	WNV
Yolo	SAYO145013	2712	Cx. tarsalis	Davis	50	CO2	7/6/2016	WNV
Yolo	SAYO145013	2713	Cx. tarsalis	Davis	29	CO2	7/6/2016	WNV
Yolo	SAYO146021	2686	Cx. pipiens	Davis	7	GRVD	7/6/2016	WNV
Yuba	SUYA10	179	Cx. tarsalis	Olivehurst	35	CO2	7/5/2016	WNV
Yuba	SUYA2	182	Cx. tarsalis	Marysville	50	CO2	7/5/2016	WNV
Yuba	SUYA40	170	Cx. tarsalis	Marysville	40	CO2	7/5/2016	WNV
Yuba	SUYA97	146	Cx. tarsalis	Marysville	50	REST	7/5/2016	WNV

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03
Los Angeles	ANTV8652	Palmdale	6/29/2016	WNV	1032	1035	1036
San Diego	SAND0057	Sorrento Valley	6/28/2016	WNV	1321	1327	

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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.westmile.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.westmilemaps.usgs.gov
