

California Arbovirus Surveillance Bulletin #17

Week 30 Friday, July 28, 2017



Weekly Update

Humans

Two new human cases of West Nile virus (WNV) illness were reported this week from Los Angeles County. To date this year, a total of six human cases of WNV illness have been reported from four counties. Of the six case-patients, three (50%) had neuroinvasive disease; no fatalities have been reported. The median age of the individuals is 61 years (range: 4–79 years) and five (83%) are male. Dates of symptom onset ranged from March 16 to July 6. In addition to the six cases, two asymptomatic WNV-positive blood donors have been reported from Los Angeles (1) and Orange (1) counties. As of this date in 2016, three human WNV cases had been reported from three counties.

Dead Birds

A total of 26 WNV positive dead birds were reported this week from nine counties: Contra Costa (2), Fresno (1), Los Angeles (7), Orange (1), Riverside (3), Sacramento (6), San Bernardino (2), San Diego (2), and Yuba (2). **This is the first detection of WNV activity in Contra Costa County, and the first positive bird from Yuba County this year.** To date this year, 115 birds from 19 counties have tested positive for WNV. As of this date in 2016, 715 WNV positive birds had been reported from 26 counties.

Mosquito Pools

West Nile Virus

A total of 230 WNV positive mosquito pools were reported this week from the following 17 counties: Butte (3), Contra Costa (1), Fresno (3), Inyo (3), Kern (15), Kings (19), Los Angeles (37), Madera (3), Placer (5), Riverside (23), Sacramento (11), San Joaquin (18), Stanislaus (7), Sutter (5), Tulare (70), Yolo (5), and Yuba (2). **This is the first detection of WNV activity in Contra Costa and Inyo Counties in 2017.** To date this year, 1,125 WNV positive mosquito pools have been reported from 22 counties. As of this date in 2016, 1,487 WNV positive mosquito pools had been reported from 30 counties.

St. Louis Encephalitis Virus

A total of six mosquito pools tested positive for St. Louis encephalitis virus (SLEV) this week from three counties: Fresno (3), Kings (2), and Riverside (1). **This is the first detection of SLEV in Riverside County this year.** To date this year, 17 SLEV positive mosquito pools have been reported from Fresno (6), Kern (6), Kings (4), and Riverside (1) counties. As of this date in 2016, 66 SLEV positive mosquito pools had been reported from 2 counties.

Sentinel Chickens

A total of 13 WNV seroconversions were reported this week from two counties: Los Angeles (12) and San Bernardino (1). To date this year, 34 WNV seroconversions have been reported from three counties. As of this date in 2016, 73 WNV seroconversions had been reported from 11 counties.

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2016 & 2017 YTD West Nile Virus Comparisons		
	2016	2017
Total # Dead Bird Reports	5,865	4,329
# Positive Counties	34	27
# Human Cases	3	6
# Positive Dead Birds / # Tested	715 / 1,684	115 / 1,086
# Positive Mosquito Pools / # Tested	1,487 / 24,644	1,125 / 23,496
# Seroconversions / # Tested	73 / 5,348	34 / 5,917

YTD WNV Activity by Element and County, 2017				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		1		
Butte			7	
Colusa		1		
Contra Costa		2	1	
Fresno		2	28	
Inyo			3	
Kern	1	3	97	
Kings	1		37	
Lake		1	5	
Los Angeles	3	20	107	23
Madera			5	
Merced			6	3
Nevada		1		
Orange		8	23	
Placer		1	6	
Riverside		14	112	
Sacramento		27	26	
San Bernardino	1	13	115	8
San Diego		7	2	
San Joaquin		2	92	
San Mateo		1		
Santa Cruz		1		
Stanislaus			51	
Sutter			8	
Tulare		8	380	
Yolo			8	
Yuba		2	6	
Totals	6	115	1,125	34

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

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TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Human Cases	Week	2	0	0
	YTD	6	0	0

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	66	26
	YTD	1,086	115

Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	361	13	0	0
	YTD	5,917	34	0	0

Mosquitoes

		Positive / Total Tested						
Mosquito Pools	Week	WNV	SLEV	WEEV	CHIK	DENV	ZIKA	
		Week	230 / 1,583	6 / 1,283	0 / 1,203	0 / 99	0 / 99	0 / 99
		YTD	1,125 / 23,496	17 / 19,854	0 / 18,221	0 / 741	0 / 741	0 / 741

New Positives

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Contra Costa	Contra Costa MVCD	Walnut Creek	94598	American Crow	7/26/2017	WNV
Contra Costa	Contra Costa MVCD	Walnut Creek	94598	American Crow	7/26/2017	WNV
Fresno	Fresno MVCD	Fresno	93728	American Crow	7/20/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	Arcadia	91006	American Crow	7/21/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	Encino	91436	Red-tailed Hawk	7/24/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	Pasadena	91101	American Crow	7/21/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	Sun valley	91352	American Crow	7/21/2017	WNV
Los Angeles	San Gabriel Valley MVCD	Alhambra	91801	American Crow	7/17/2017	WNV
Los Angeles	San Gabriel Valley MVCD	La Verne	91750	American Crow	7/20/2017	WNV
Los Angeles	San Gabriel Valley MVCD	Monrovia	91016	American Crow	7/21/2017	WNV
Orange	Orange Co VCD	Fullerton	92831	Mourning Dove	7/13/2017	WNV
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	7/16/2017	WNV

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Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	7/17/2017	WNV
Riverside	Northwest Mosquito VCD	Riverside	92503	American Crow	7/13/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Rosemont	95826	American Crow	7/24/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	American Crow	7/22/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	Lesser Goldfinch	7/24/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95827	Yellow-billed Magpie	7/23/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95841	American Crow	7/25/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Western Scrub-Jay	7/27/2017	WNV
San Bernardino	San Bernardino VCP	Bloomington	92316	American Crow	7/10/2017	WNV
San Bernardino	San Bernardino VCP	Yucaipa	92399	American Crow	7/25/2017	WNV
San Diego	San Diego Co VCP	Santa Ysabel	92070	Western Scrub-Jay	7/24/2017	WNV
San Diego	San Diego Co VCP	Vista	92081	American Crow	7/21/2017	WNV
Yuba	Sutter-Yuba MVCD	Marysville	95901	House Finch	7/19/2017	WNV
Yuba	Sutter-Yuba MVCD	Marysville	95901	Western Scrub-Jay	7/24/2017	WNV

Mosquito Pools

County	Site Code	Pool #	City	Species	# in Pool	Trap	Collected	Virus
Butte	BUCO23	183	Biggs	Cx. tarsalis	50	CO2	7/24/17	WNV
Butte	BUCO23	186	Biggs	Cx. tarsalis	50	CO2	7/24/17	WNV
Butte	BUCO29	176	Dayton	Cx. tarsalis	50	CO2	7/19/17	WNV
Contra Costa	CNTR1901	276	Discovery Bay	Cx. pipiens	21	CO2	7/26/17	WNV
Fresno	CNSL1068	315	Fresno	Cx. quinquefasciatus	42	GRVD	7/25/17	WNV
Fresno	CNSL1068	315	Fresno	Cx. quinquefasciatus	42	GRVD	7/25/17	SLEV
Fresno	CNSL1566	310	Fresno	Cx. quinquefasciatus	20	BGSENT	7/25/17	SLEV
Fresno	CNSL1597	309	Fresno	Cx. quinquefasciatus	16	GRVD	7/25/17	SLEV
Fresno	FRWS300066	261		Cx. quinquefasciatus	21	GRVD	7/20/17	WNV
Fresno	FRWS500003	262	Mendota	Cx. tarsalis	50	CO2	7/20/17	WNV
Inyo	INYO1003	1	Bishop	Cx. tarsalis	50	CO2	7/18/17	WNV
Inyo	INYO1003	2	Bishop	Cx. tarsalis	50	CO2	7/18/17	WNV
Inyo	INYO1003	3	Bishop	Cx. tarsalis	50	CO2	7/18/17	WNV
Kern	DLNO20	171	Delano	Cx. quinquefasciatus	39	GRVD	7/21/17	WNV
Kern	DLNO21	168	Delano	Cx. quinquefasciatus	50	CO2	7/20/17	WNV
Kern	DLNO44	170	Delano	Cx. quinquefasciatus	32	GRVD	7/21/17	WNV
Kern	DLNO58	167	McFarland	Cx. quinquefasciatus	50	CO2	7/20/17	WNV
Kern	DLNO68	169	Delano	Cx. quinquefasciatus	50	GRVD	7/21/17	WNV
Kern	DLNO87	174	McFarland	Cx. quinquefasciatus	18	GRVD	7/21/17	WNV
Kern	KERN114	424	Bakersfield	Cx. tarsalis	50	CO2	7/18/17	WNV
Kern	KERN1156	423	Arvin	Cx. quinquefasciatus	50	CO2	7/18/17	WNV
Kern	KERN2025	430	Bakersfield	Cx. quinquefasciatus	24	GRVD	7/21/17	WNV
Kern	KERN2042	421	Lamont	Cx. quinquefasciatus	14	GRVD	7/18/17	WNV
Kern	KERN28	428	Bakersfield	Cx. tarsalis	20	CO2	7/20/17	WNV
Kern	KERN3032	425	Bakersfield	Cx. quinquefasciatus	26	CO2	7/18/17	WNV
Kern	KERN3041	431	Bakersfield	Cx. quinquefasciatus	50	CO2	7/21/17	WNV
Kern	KERN60	426	Bakersfield	Cx. quinquefasciatus	50	CO2	7/18/17	WNV
Kern	KERN83	422	Arvin	Cx. tarsalis	50	CO2	7/18/17	WNV
Kings	KNGS3005	229	Lemoore NAS	Cx. tarsalis	50	CO2	7/18/17	WNV
Kings	KNGS3005	231	Lemoore NAS	Cx. tarsalis	50	CO2	7/18/17	WNV
Kings	KNGS3005	232	Lemoore NAS	Cx. tarsalis	11	CO2	7/18/17	WNV
Kings	KNGS3018	266	Lemoore	Cx. tarsalis	50	CO2	7/21/17	WNV
Kings	KNGS3018	267	Lemoore	Cx. tarsalis	49	CO2	7/21/17	WNV
Kings	KNGS3056	259	Hardwick	Cx. tarsalis	50	CO2	7/20/17	WNV
Kings	KNGS3062	255	Lemoore	Cx. tarsalis	50	CO2	7/20/17	WNV
Kings	KNGS3062	256	Lemoore	Cx. tarsalis	50	CO2	7/20/17	WNV
Kings	KNGS3067	238		Cx. tarsalis	50	CO2	7/18/17	WNV

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Kings	KNGS3067	239		Cx. tarsalis	50	CO2	7/18/17	WNV
Kings	KNGS3067	241		Cx. tarsalis	50	CO2	7/18/17	WNV
Kings	KNGS3067	241		Cx. tarsalis	50	CO2	7/18/17	SLEV
Kings	KNGS3067	242		Cx. tarsalis	50	CO2	7/18/17	WNV
Kings	KNGS3083	233	Lemoore	Cx. tarsalis	50	CO2	7/18/17	WNV
Kings	KNGS3083	234	Lemoore	Cx. tarsalis	50	CO2	7/18/17	WNV
Kings	KNGS3083	235	Lemoore	Cx. tarsalis	50	CO2	7/18/17	WNV
Kings	KNGS3083	236	Lemoore	Cx. tarsalis	50	CO2	7/18/17	SLEV
Kings	KNGS3083	237	Lemoore	Cx. tarsalis	50	CO2	7/18/17	WNV
Kings	KNGS4009	249	Armona	Cx. pipiens	49	BGSENT	7/20/17	WNV
Kings	KNGS5506	251	Hanford	Cx. pipiens	50	BGSENT	7/20/17	WNV
Kings	KNGS55091	243	Hanford	Cx. pipiens	18	BGSENT	7/19/17	WNV
Los Angeles	GRLA2007	5513	Toluca Lake	Cx. quinquefasciatus	50	GRVD	7/21/17	WNV
Los Angeles	GRLA2017	5514	Toluca Lake	Cx. quinquefasciatus	50	GRVD	7/21/17	WNV
Los Angeles	GRLA2023	5499	Reseda	Cx. quinquefasciatus	11	GRVD	7/18/17	WNV
Los Angeles	GRLA2029	5506	Canoga Park	Cx. quinquefasciatus	30	CO2	7/19/17	WNV
Los Angeles	GRLA2030	5507	West Hills	Cx. quinquefasciatus	12	GRVD	7/19/17	WNV
Los Angeles	GRLA2032	5500	Northridge	Cx. quinquefasciatus	17	CO2	7/18/17	WNV
Los Angeles	GRLA2097	477	La Mirada	Cx. quinquefasciatus	50	GRVD	7/18/17	WNV
Los Angeles	GRLA2166	485	Montebello	Cx. quinquefasciatus	50	GRVD	7/18/17	WNV
Los Angeles	GRLA2247	486	Pico Rivera	Cx. quinquefasciatus	50	GRVD	7/18/17	WNV
Los Angeles	GRLA2268	482	Cerritos	Cx. quinquefasciatus	50	GRVD	7/18/17	WNV
Los Angeles	GRLA2278	491	Long Beach	Cx. quinquefasciatus	50	GRVD	7/19/17	WNV
Los Angeles	GRLA2438	5510	Chatsworth	Cx. quinquefasciatus	13	GRVD	7/19/17	WNV
Los Angeles	GRLA2555	5497	Encino	Cx. quinquefasciatus	18	GRVD	7/18/17	WNV
Los Angeles	GRLA2952	476	South Whittier(LA County)	Cx. quinquefasciatus	50	GRVD	7/18/17	WNV
Los Angeles	GRLA2953	479	Santa Fe Springs	Cx. quinquefasciatus	50	GRVD	7/18/17	WNV
Los Angeles	GRLA2995	5504	Woodland Hills	Cx. quinquefasciatus	22	CO2	7/19/17	WNV
Los Angeles	GRLA3027	5511	Studio City	Cx. quinquefasciatus	50	GRVD	7/21/17	WNV
Los Angeles	GRLA3032	512	Carson	Cx. quinquefasciatus	50	GRVD	7/21/17	WNV
Los Angeles	GRLA3038	5516	Valley Village	Cx. quinquefasciatus	50	GRVD	7/21/17	WNV
Los Angeles	GRLA3040	478	La Mirada	Cx. quinquefasciatus	50	GRVD	7/18/17	WNV
Los Angeles	GRLA3049	494	Downey	Cx. quinquefasciatus	50	GRVD	7/20/17	WNV
Los Angeles	GRLA3066	5519	North Hollywood	Cx. quinquefasciatus	50	GRVD	7/21/17	WNV
Los Angeles	GRLA3069	5517	Valley Village	Cx. quinquefasciatus	50	GRVD	7/21/17	WNV
Los Angeles	GRLA3102	5515	Studio City	Cx. quinquefasciatus	50	GRVD	7/21/17	WNV
Los Angeles	SGVA14	1755	La Verne	Cx. quinquefasciatus	19	GRVD	7/19/17	WNV
Los Angeles	SGVA14	1758	La Verne	Cx. quinquefasciatus	24	GRVD	7/19/17	WNV
Los Angeles	SGVA27	1783	San Dimas	Cx. tarsalis	7	GRVD	7/19/17	WNV
Los Angeles	SGVA64	1764	West Covina	Cx. quinquefasciatus	3	CO2	7/19/17	WNV
Los Angeles	SGVA64	1767	West Covina	Cx. quinquefasciatus	25	GRVD	7/19/17	WNV
Los Angeles	SGVA64	1768	West Covina	Cx. quinquefasciatus	23	GRVD	7/19/17	WNV
Los Angeles	SGVA64	1773	West Covina	Cx. quinquefasciatus	25	GRVD	7/19/17	WNV
Los Angeles	SGVA64	1775	West Covina	Cx. quinquefasciatus	25	GRVD	7/19/17	WNV
Los Angeles	SGVA64	1777	West Covina	Cx. quinquefasciatus	22	GRVD	7/19/17	WNV
Los Angeles	SGVA782	1791	San Dimas	Cx. quinquefasciatus	22	GRVD	7/20/17	WNV
Los Angeles	SGVA950	1803	La Puente	Cx. quinquefasciatus	25	USDS	7/20/17	WNV
Los Angeles	SGVA950	1808	La Puente	Cx. quinquefasciatus	1	USDS	7/20/17	WNV
Los Angeles	SGVA959	1810	San Gabriel	Cx. quinquefasciatus	21	GRVD	7/21/17	WNV
Madera	MADR299	142	CHOWCHILLA	Cx. quinquefasciatus	50	CO2	7/19/17	WNV
Madera	MADR299	146	CHOWCHILLA	Cx. quinquefasciatus	50	CO2	7/19/17	WNV
Madera	MADR3334	152	Madera	Cx. quinquefasciatus	25	CO2	7/20/17	WNV
Placer	PLCR1113	967	Pleasant Grove	Cx. tarsalis	50	CO2	7/25/17	WNV
Placer	PLCR1113	1065	Pleasant Grove	Cx. tarsalis	45	CO2	7/27/17	WNV
Placer	PLCR1114	945	Lincoln	Cx. tarsalis	23	CO2	7/25/17	WNV
Placer	PLCR139	948	ROSEVILLE	Cx. tarsalis	50	CO2	7/25/17	WNV
Placer	PLCR139	954	ROSEVILLE	Cx. tarsalis	50	CO2	7/25/17	WNV
Riverside	COAVO	3055		Cx. quinquefasciatus	26	CO2	7/26/17	WNV
Riverside	COAV121	3067	Mecca	Cx. quinquefasciatus	20	CO2	7/26/17	WNV

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Riverside	COAV122	3068	Mecca	Cx. tarsalis	42	CO2	7/26/17	WNV
Riverside	COAV123	3020	Mecca	Cx. tarsalis	50	CO2	7/26/17	WNV
Riverside	COAV200	3035	Mecca	Cx. tarsalis	50	CO2	7/26/17	WNV
Riverside	COAV200	3037	Mecca	Cx. tarsalis	50	CO2	7/26/17	WNV
Riverside	COAV200	3038	Mecca	Cx. tarsalis	50	CO2	7/26/17	WNV
Riverside	COAV200	3039	Mecca	Cx. tarsalis	50	CO2	7/26/17	WNV
Riverside	COAV200	3042	Mecca	Cx. tarsalis	50	CO2	7/26/17	WNV
Riverside	COAV200	3043	Mecca	Cx. tarsalis	50	CO2	7/26/17	WNV
Riverside	COAV200	3044	Mecca	Cx. tarsalis	50	CO2	7/26/17	WNV
Riverside	COAV200	3045	Mecca	Cx. tarsalis	50	CO2	7/26/17	WNV
Riverside	COAV45	3063	Mecca	Cx. tarsalis	50	CO2	7/26/17	WNV
Riverside	COAV45	3064	Mecca	Cx. tarsalis	50	CO2	7/26/17	SLEV
Riverside	COAV45	3065	Mecca	Cx. tarsalis	17	CO2	7/26/17	WNV
Riverside	COAV46	3047	Mecca	Cx. tarsalis	47	CO2	7/26/17	WNV
Riverside	COAV48	3062	Mecca	Cx. tarsalis	30	CO2	7/26/17	WNV
Riverside	COAV536	3048	Thermal	Cx. tarsalis	23	CO2	7/26/17	WNV
Riverside	COAV536	3049	Thermal	Cx. quinquefasciatus	47	CO2	7/26/17	WNV
Riverside	COAV56	3022	Mecca	Cx. tarsalis	50	CO2	7/26/17	WNV
Riverside	COAV57	3017	Mecca	Cx. quinquefasciatus	50	CO2	7/26/17	WNV
Riverside	COAV611	3024	Mecca	Cx. tarsalis	38	CO2	7/26/17	WNV
Riverside	RIVR27	139	San Jacinto	Cx. erythrothorax	50	CO2	7/19/17	WNV
Riverside	RIVR90	135	Nuevo	Cx. tarsalis	18	CO2	7/19/17	WNV
Sacramento	SAYO202006	3666	Sacramento	Cx. tarsalis	50	CO2	7/27/17	WNV
Sacramento	SAYO223007	3343	Sacramento	Cx. tarsalis	50	CO2	7/25/17	WNV
Sacramento	SAYO223007	3345	Sacramento	Cx. pipiens	3	CO2	7/25/17	WNV
Sacramento	SAYO223040	3366	Sacramento	Cx. tarsalis	5	CO2	7/25/17	WNV
Sacramento	SAYO223053	3365	Sacramento	Cx. pipiens	9	CO2	7/25/17	WNV
Sacramento	SAYO223062	3362	Sacramento	Cx. pipiens	39	CO2	7/25/17	WNV
Sacramento	SAYO233003	3390	Elk Grove	Cx. pipiens	4	GRVD	7/25/17	WNV
Sacramento	SAYO242010	3634	Elk Grove	Cx. tarsalis	50	CO2	7/27/17	WNV
Sacramento	SAYO243013	3395	Elk Grove	Cx. tarsalis	50	CO2	7/25/17	WNV
Sacramento	SAYO243017	3611	Elk Grove	Cx. pipiens	40	CO2	7/27/17	WNV
Sacramento	SAYO261012	3508	Isleton	Cx. pipiens	16	CO2	7/27/17	WNV
San Joaquin	SJCM8018	1880	Stockton	Cx. pipiens	15	CO2	7/24/17	WNV
San Joaquin	SJCM8018	1881	Stockton	Cx. tarsalis	100	CO2	7/24/17	WNV
San Joaquin	SJCM8018	1882	Stockton	Cx. tarsalis	100	CO2	7/24/17	WNV
San Joaquin	SJCM8018	1883	Stockton	Cx. tarsalis	100	CO2	7/24/17	WNV
San Joaquin	SJCM8018	1884	Stockton	Cx. tarsalis	100	CO2	7/24/17	WNV
San Joaquin	SJCM8018	1885	Stockton	Cx. tarsalis	100	CO2	7/24/17	WNV
San Joaquin	SJCM8018	1886	Stockton	Cx. tarsalis	100	CO2	7/24/17	WNV
San Joaquin	SJCM8018	1887	Stockton	Cx. tarsalis	100	CO2	7/24/17	WNV
San Joaquin	SJCM8018	1888	Stockton	Cx. tarsalis	110	CO2	7/24/17	WNV
San Joaquin	SJCM8198	1863	Stockton	Cx. tarsalis	8	CO2	7/24/17	WNV
San Joaquin	SJCM8199	1839	Manteca	Cx. tarsalis	50	CO2	7/24/17	WNV
San Joaquin	SJCM8199	1841	Manteca	Cx. tarsalis	56	CO2	7/24/17	WNV
San Joaquin	SJCM8206	1889	Lodi	Cx. tarsalis	50	CO2	7/24/17	WNV
San Joaquin	SJCM8206	1890	Lodi	Cx. tarsalis	50	CO2	7/24/17	WNV
San Joaquin	SJCM8206	1891	Lodi	Cx. tarsalis	50	CO2	7/24/17	WNV
San Joaquin	SJCM8206	1892	Lodi	Cx. tarsalis	33	CO2	7/24/17	WNV
San Joaquin	SJCM8222	1877	stockton	Cx. tarsalis	50	CO2	7/24/17	WNV
San Joaquin	SJCM8222	1878	stockton	Cx. tarsalis	13	CO2	7/24/17	WNV
Stanislaus	TRLK1107	569	Denair	Cx. pipiens	50	CO2	7/25/17	WNV
Stanislaus	TRLK1107	570	Denair	Cx. tarsalis	34	CO2	7/25/17	WNV
Stanislaus	TRLK1202	581	Hughson	Cx. tarsalis	32	CO2	7/25/17	WNV
Stanislaus	TRLK1209	584	Ceres	Cx. tarsalis	50	CO2	7/25/17	WNV
Stanislaus	TRLK1214	567	Turlock	Cx. tarsalis	40	CO2	7/25/17	WNV
Stanislaus	TRLK421	568	Hughson	Cx. tarsalis	6	CO2	7/25/17	WNV
Stanislaus	TRLK432	561	Turlock	Cx. tarsalis	50	CO2	7/25/17	WNV
Sutter	SUYA24	219	Yuba City	Cx. tarsalis	37	REST	7/24/17	WNV

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Sutter	SUYA31	226	Rio Oso	Cx. tarsalis	50	REST	7/24/17	WNV
Sutter	SUYA31	228	Rio Oso	Cx. tarsalis	50	REST	7/24/17	WNV
Sutter	SUYA5	235	Live Oak	Cx. tarsalis	33	CO2	7/24/17	WNV
Sutter	SUYA63	217	Live Oak	Cx. tarsalis	49	REST	7/24/17	WNV
Tulare	DLNO19	178	Ducor	Cx. quinquefasciatus	29	GRVD	7/25/17	WNV
Tulare	DLTA6404	1775	Dinuba	Cx. tarsalis	50	CO2	7/20/17	WNV
Tulare	DLTA6404	1778	Dinuba	Cx. quinquefasciatus	50	CO2	7/20/17	WNV
Tulare	DLTA6404	1780	Dinuba	Cx. quinquefasciatus	50	CO2	7/20/17	WNV
Tulare	DLTA6404	1797	Dinuba	Cx. tarsalis	50	CO2	7/20/17	WNV
Tulare	DLTA6404	1798	Dinuba	Cx. tarsalis	50	CO2	7/20/17	WNV
Tulare	DLTA6404	1803	Dinuba	Cx. quinquefasciatus	50	CO2	7/20/17	WNV
Tulare	DLTA6404	1805	Dinuba	Cx. quinquefasciatus	50	CO2	7/20/17	WNV
Tulare	DLTA6404	1806	Dinuba	Cx. quinquefasciatus	50	CO2	7/20/17	WNV
Tulare	DLTA6404	1866	Dinuba	Cx. tarsalis	50	CO2	7/27/17	WNV
Tulare	DLTA6404	1869	Dinuba	Cx. tarsalis	50	CO2	7/27/17	WNV
Tulare	DLTA6404	1870	Dinuba	Cx. quinquefasciatus	50	CO2	7/27/17	WNV
Tulare	DLTA6404	1871	Dinuba	Cx. quinquefasciatus	50	CO2	7/27/17	WNV
Tulare	DLTA6404	1875	Dinuba	Cx. tarsalis	50	CO2	7/27/17	WNV
Tulare	DLTA6404	1882	Dinuba	Cx. tarsalis	50	CO2	7/27/17	WNV
Tulare	DLTA6404	1886	Dinuba	Cx. quinquefasciatus	50	CO2	7/27/17	WNV
Tulare	DLTA6404	1893	Dinuba	Cx. quinquefasciatus	50	CO2	7/27/17	WNV
Tulare	DLTA6416	1785	Dinuba	Cx. quinquefasciatus	10	CO2	7/20/17	WNV
Tulare	DLTA6520	1901	Cutler	Cx. quinquefasciatus	11	GRVD	7/27/17	WNV
Tulare	DLTA8413	1889	Visalia	Cx. quinquefasciatus	23	GRVD	7/27/17	WNV
Tulare	DLTA8419	1761	Goshen	Cx. quinquefasciatus	36	GRVD	7/19/17	WNV
Tulare	DLTA8422	1744	Goshen	Cx. quinquefasciatus	45	GRVD	7/19/17	WNV
Tulare	DLTA8423	1743	Visalia	Cx. quinquefasciatus	29	GRVD	7/19/17	WNV
Tulare	DLTA8423	1855	Visalia	Cx. quinquefasciatus	25	GRVD	7/26/17	WNV
Tulare	DLTA8424	1727	Visalia	Cx. quinquefasciatus	10	GRVD	7/18/17	WNV
Tulare	DLTA8426	1765	Visalia	Cx. quinquefasciatus	12	GRVD	7/19/17	WNV
Tulare	DLTA8426	1813	Visalia	Cx. quinquefasciatus	10	GRVD	7/20/17	WNV
Tulare	DLTA8427	1720	Visalia	Cx. quinquefasciatus	13	GRVD	7/18/17	WNV
Tulare	DLTA8434	1681	Visalia	Cx. quinquefasciatus	45	GRVD	7/14/17	WNV
Tulare	DLTA8434	1729	Visalia	Cx. tarsalis	13	CO2	7/19/17	WNV
Tulare	DLTA8435	1771	Visalia	Cx. quinquefasciatus	28	GRVD	7/20/17	WNV
Tulare	DLTA8436	1737	Visalia	Cx. quinquefasciatus	25	GRVD	7/19/17	WNV
Tulare	DLTA8436	1847	Visalia	Cx. quinquefasciatus	22	GRVD	7/26/17	WNV
Tulare	DLTA8508	1753	Visalia	Cx. quinquefasciatus	32	GRVD	7/19/17	WNV
Tulare	DLTA8514	1747	Visalia	Cx. quinquefasciatus	50	GRVD	7/19/17	WNV
Tulare	DLTA8514	1748	Visalia	Cx. quinquefasciatus	50	GRVD	7/19/17	WNV
Tulare	DLTA8514	1749	Visalia	Cx. quinquefasciatus	42	GRVD	7/19/17	WNV
Tulare	DLTA8519	1750	Visalia	Cx. quinquefasciatus	47	GRVD	7/19/17	WNV
Tulare	DLTA8519	1815	Visalia	Cx. quinquefasciatus	15	GRVD	7/20/17	WNV
Tulare	DLTA8519	1852	Visalia	Cx. quinquefasciatus	37	GRVD	7/26/17	WNV
Tulare	DLTA8529	1696	Visalia	Cx. quinquefasciatus	42	GRVD	7/14/17	WNV
Tulare	DLTA8529	1826	Visalia	Cx. quinquefasciatus	33	GRVD	7/21/17	WNV
Tulare	DLTA8530	1707	Visalia	Cx. quinquefasciatus	37	GRVD	7/18/17	WNV
Tulare	DLTA8530	1740	Visalia	Cx. quinquefasciatus	22	GRVD	7/19/17	WNV
Tulare	DLTA8534	1739	Visalia	Cx. quinquefasciatus	18	GRVD	7/19/17	WNV
Tulare	DLTA8610	1849		Cx. tarsalis	24	BGSENT	7/26/17	WNV
Tulare	DLTA9401	1716	Visalia	Cx. quinquefasciatus	12	GRVD	7/18/17	WNV
Tulare	DLTA9402	1680	Visalia	Cx. quinquefasciatus	33	GRVD	7/14/17	WNV
Tulare	DLTA9402	1772	Visalia	Cx. quinquefasciatus	33	GRVD	7/20/17	WNV
Tulare	DLTA9403	1734	Visalia	Cx. quinquefasciatus	36	GRVD	7/19/17	WNV
Tulare	DLTA9411	1742	Visalia	Cx. quinquefasciatus	13	GRVD	7/19/17	WNV
Tulare	DLTA9504	1717	Visalia	Cx. quinquefasciatus	17	GRVD	7/18/17	WNV
Tulare	DLTA9505	1676	Visalia	Cx. quinquefasciatus	50	GRVD	7/14/17	WNV
Tulare	DLTA9505	1677	Visalia	Cx. quinquefasciatus	17	GRVD	7/14/17	WNV
Tulare	DLTA9505	1732	Visalia	Cx. quinquefasciatus	50	GRVD	7/19/17	WNV

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Tulare	DLTA9506	1679	Visalia	Cx. quinquefasciatus	32	GRVD	7/14/17	WNV
Tulare	DLTA9506	1712	Visalia	Cx. quinquefasciatus	25	GRVD	7/18/17	WNV
Tulare	DLTA9506	1736	Visalia	Cx. quinquefasciatus	32	GRVD	7/19/17	WNV
Tulare	DLTA9506	1828	Visalia	Cx. quinquefasciatus	24	GRVD	7/25/17	WNV
Tulare	DLTA9603	1810	Exeter	Cx. quinquefasciatus	16	GRVD	7/20/17	WNV
Tulare	DLTA9606	1708	Farmersville	Cx. tarsalis	13	CO2	7/18/17	WNV
Tulare	DLTA9606	1725	Farmersville	Cx. quinquefasciatus	18	GRVD	7/18/17	WNV
Tulare	DLTA9606	1838	Farmersville	Cx. quinquefasciatus	49	GRVD	7/25/17	WNV
Tulare	DLTA9606	1839	Farmersville	Cx. quinquefasciatus	10	GRVD	7/25/17	WNV
Tulare	TLRE192412	152	Visalia	Cx. quinquefasciatus	15	GRVD	7/25/17	WNV
Tulare	TLRE202409	150	Tulare	Cx. quinquefasciatus	27	GRVD	7/21/17	WNV
Tulare	TLRE202410	158	Tulare	Cx. quinquefasciatus	42	GRVD	7/27/17	WNV
Tulare	TLRE202413	155	Tulare	Cx. quinquefasciatus	36	GRVD	7/27/17	WNV
Tulare	TLRE202415	157	Tulare	Cx. quinquefasciatus	49	GRVD	7/27/17	WNV
Tulare	TLRE202424	156	Tulare	Cx. quinquefasciatus	39	GRVD	7/27/17	WNV
Yolo	SAYO116002	3558	Knights Landing	Cx. tarsalis	50	CO2	7/27/17	WNV
Yolo	SAYO124007	3564	Woodland	Cx. tarsalis	50	CO2	7/27/17	WNV
Yolo	SAYO135005	3587	Woodland	Cx. pipiens	25	GRVD	7/27/17	WNV
Yolo	SAYO135006	3588	Woodland	Cx. tarsalis	50	CO2	7/27/17	WNV
Yolo	SAYO146018	3434	Davis	Cx. tarsalis	50	CO2	7/25/17	WNV
Yuba	SUYA37	253	Marysville	Cx. tarsalis	34	CO2	7/24/17	WNV
Yuba	SUYA8	242	Marysville	Cx. tarsalis	50	CO2	7/24/17	WNV

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Los Angeles	ANTV5465	Quartz Hill	7/19/2017	WNV	1036			
Los Angeles	ANTV8652	Palmdale	7/19/2017	WNV	1077	1078	1079	
Los Angeles	GRLA2651	Encino	7/17/2017	WNV	4761	4762	4765	4767
Los Angeles	LACW1010	Los Angeles	7/6/2017	WNV	2549	2553		
Los Angeles	SGVA0004	Arcadia	7/17/2017	WNV	4538			
Los Angeles	SGVA0007	Claremont	7/17/2017	WNV	4557			
San Bernardino	SANB0007	Fontana	7/18/2017	WNV	2745			

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.

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.

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.