

California Arbovirus Surveillance Bulletin #25

Week 38 Friday, September 22, 2017



Weekly Update

Humans

A total of 31 new human cases of West Nile virus (WNV) illness were reported this week from the following 8 counties: Kern (2), Los Angeles (15), Orange (3), Riverside (1), San Bernardino (5), San Francisco (1), Stanislaus (1), and Yolo (3). **These are the first human cases reported from San Francisco and Yolo counties in 2017.** To date this year, 174 human cases of WNV illness have been reported from 17 counties. Of the 174 case-patients, 136 (78%) had neuroinvasive disease and 8 fatalities have been reported from Kern (1), Los Angeles (4), San Bernardino (1), and Yolo (2) counties. The median age of the individuals is 62 years (range: 4–85 years) and 117 (67%) are male. Dates of symptom onset ranged from March 16 to September 3. In addition to the 174 symptomatic cases, 20 asymptomatic WNV-positive blood donors have been reported from Humboldt (1), Los Angeles (5), Orange (5), Placer (1), San Bernardino (6), and Stanislaus (2) counties. As of this date in 2016, 234 human WNV cases had been reported from 24 counties.

Dead Birds

A total of 59 WNV positive dead birds were reported this week from the following 10 counties: Contra Costa (1), Los Angeles (17), Orange (7), Riverside (7), Sacramento (10), San Bernardino (2), San Diego (6), Sonoma (1), Stanislaus (2), and Yolo (6). To date this year, 395 birds from 36 counties have tested positive for WNV. As of this date in 2016, 1,276 WNV positive birds had been reported from 33 counties.

Mosquito Pools

West Nile Virus

A total of 137 WNV positive mosquito pools were reported this week from the following 16 counties: Fresno (5), Kern (1), Kings (3), Lake (1), Los Angeles (35), Madera (2), Orange (8), Placer (3), Riverside (6), Sacramento (11), San Bernardino (43), San Joaquin (8), Stanislaus (1), Tulare (4), Ventura (2), and Yolo (4). **These are the first WNV positive mosquito pools reported from Ventura County in 2017.** To date this year, 3,116 WNV positive mosquito pools have been reported from 26 counties. As of this date in 2016, 3,249 WNV positive mosquito pools had been reported from 30 counties.

St. Louis Encephalitis Virus

A total of 17 mosquito pools tested positive for St. Louis encephalitis virus (SLEV) this week from 7 counties: Fresno (4), Kern (4), Kings (3), Madera (1), Riverside (1), Stanislaus (2), and Tulare (2). To date this year, 152 SLEV positive mosquito pools have been reported from 13 counties: Butte (1), Fresno (58), Imperial (3), Kern (16), Kings (20), Los Angeles (1), Madera (4), Merced (2), Placer (1), Riverside (23), Stanislaus (18), Tulare (4), and Yuba (1). As of this date in 2016, 156 SLEV positive mosquito pools had been reported from 6 counties.

Sentinel Chickens

West Nile Virus

A total of 31 WNV seroconversions were reported this week from 3 counties: Los Angeles (28), San Bernardino (2), and Yolo (1). **This is the first WNV positive chicken reported from Yolo County in 2017.** To date this year, 235 WNV seroconversions have been reported from 14 counties. As of this date in 2016, 295 WNV seroconversions had been detected from 17 counties.

St. Louis Encephalitis Virus

No SLEV seroconversions were reported this week. To date this year, 7 SLEV positive chickens have been reported from Merced (1) and San Bernardino (6) counties. As of this date in 2016, 2 SLEV seroconversions had been detected in one flock located in San Bernardino County.

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YTD WNV Activity by Element and County, 2017					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			1		
Butte	2		4	46	29
Colusa			1		
Contra Costa		1	11	6	4
El Dorado			1		
Fresno	2	1	5	163	
Glenn		1	2	12	1
Humboldt			1		
Imperial	1				
Inyo	3			8	
Kern	14	2	3	150	
Kings	1		1	78	
Lake			3	17	1
Lassen		1			
Los Angeles	80		76	471	114
Madera			1	60	
Merced			1	39	19
Monterey			1		
Nevada			1		
Orange	14		44	229	
Placer			2	53	2
Plumas		1			
Riverside	8	4	36	190	
Sacramento	1		75	140	2
San Benito					1
San Bernardino	22		39	283	35
San Diego			28	5	
San Francisco	1		1		
San Joaquin	9	1	6	232	
San Mateo			1		
Santa Clara			7		
Santa Cruz			1		
Shasta			2		
Solano			2	6	3
Sonoma			3	1	
Stanislaus	8		6	187	
Sutter	1		2	16	18
Tehama		1			
Tulare	4		8	624	
Ventura			1	2	
Yolo	3		12	80	1
Yuba			6	18	5
Totals	174	13	395	3,116	235

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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2016 & 2017 YTD West Nile Virus Comparisons		
	2016	2017
Total # Dead Bird Reports	8,253	6,369
# Positive Counties	37	42
# Human Cases	234	174
# Positive Dead Birds / # Tested	1,276 / 2,577	395 / 1,650
# Positive Mosquito Pools / # Tested	3,249 / 36,951	3,116 / 36,962
# Seroconversions / # Tested	295 / 8,687	235 / 9,087

TESTING SUMMARIES

Humans

		WNV	SLE	WEE
	Week	31	0	0
	YTD	174	0	0

Dead Birds

		Number Tested	WNV Positive
	Week	98	59
	YTD	1,650	395

Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
	Week	254	31	0	0
	YTD	9,087	235	7	0

Mosquitoes

		Positive / Total Tested						
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA	
		Week	137 / 1,630	17 / 1,332	0 / 1,332	0 / 99	0 / 99	0 / 99
		YTD	3,116 / 36,962	152 / 30,246	0 / 28,454	0 / 1,220	0 / 1,220	0 / 1,220

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New Positives

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Contra Costa	Contra Costa MVCD	Alamo	94507	Western Scrub-Jay	9/18/2017	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Cerritos	90703	American Crow	9/13/2017	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Lakewood	90713	American Crow	7/11/2017	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Long Beach	90808	American Crow	9/6/2017	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Long Beach	90808	American Crow	9/11/2017	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Long Beach	90808	American Crow	9/13/2017	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Long Beach	90815	American Crow	8/17/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	Culver City	90230	American Crow	9/14/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	Culver City	90232	American Crow	9/12/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	Culver City	90232	American Crow	9/12/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	Hollywood	90046	American Crow	9/14/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	Los Angeles	90004	American Crow	9/14/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	Pasadena	91104	Common Raven	9/14/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	Sherman Oaks	91302	American Crow	9/11/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	Sherman Oaks	91423	American Crow	9/19/2017	WNV
Los Angeles	Los Angeles Co Veterinarian	Sherman Oaks	91423	Western Scrub-Jay	9/14/2017	WNV
Los Angeles	Los Angeles Co West VCD	Los Angeles	90046	American Crow	9/12/2017	WNV
Los Angeles	Los Angeles Co West VCD	Santa Monica	90404	American Crow	9/15/2017	WNV
Orange	Orange Co VCD	Anaheim	92801	American Crow	9/11/2017	WNV
Orange	Orange Co VCD	Anaheim	92805	American Crow	9/13/2017	WNV
Orange	Orange Co VCD	Buena Park	90620	American Crow	9/14/2017	WNV
Orange	Orange Co VCD	Ladera Ranch	92694	American Crow	9/13/2017	WNV
Orange	Orange Co VCD	Mission Viejo	92692	American Crow	9/14/2017	WNV
Orange	Orange Co VCD	Orange	92868	American Crow	9/5/2017	WNV
Orange	Orange Co VCD	Tustin	92780	American Crow	7/10/2017	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	9/7/2017	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	9/14/2017	WNV
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	9/12/2017	WNV
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	9/13/2017	WNV
Riverside	Northwest Mosquito VCD	Riverside	92503	American Crow	9/10/2017	WNV
Riverside	Northwest Mosquito VCD	Riverside	92506	American Crow	9/8/2017	WNV
Riverside	Northwest Mosquito VCD	Riverside	92509	Mourning Dove	9/12/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	American Crow	9/12/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95757	American Crow	9/13/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95757	American Goldfinch	9/14/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	Western Scrub-Jay	9/13/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Rancho Murieta	95683	Western Scrub-Jay	9/18/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	Yellow-billed Magpie	9/18/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95829	Western Scrub-Jay	9/19/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	9/17/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	American Crow	9/11/2017	WNV
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	Western Scrub-Jay	9/15/2017	WNV
San Bernardino	San Bernardino VCP	Yucaipa	92399	American Crow	9/11/2017	WNV
San Bernardino	San Bernardino VCP	Yucaipa	92399	American Crow	9/12/2017	WNV
San Diego	San Diego Co VCP	Descanso	91916	Steller's Jay	9/15/2017	WNV

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San Diego	San Diego Co VCP	Escondido	92027	American Crow	9/19/2017	WNV
San Diego	San Diego Co VCP	Guatay	91931	Steller's Jay	9/18/2017	WNV
San Diego	San Diego Co VCP	Julian	92036	Western Scrub-Jay	9/19/2017	WNV
San Diego	San Diego Co VCP	San Diego	92101	American Crow	9/19/2017	WNV
San Diego	San Diego Co VCP	Santee	92071	American Crow	9/18/2017	WNV
Sonoma	Marin-Sonoma MVCD	Petaluma	94954	American Crow	9/20/2017	WNV
Stanislaus	Turlock MAD	Denair	95316	American Crow	9/6/2017	WNV
Stanislaus	Turlock MAD	Turlock	95380	Starling	9/5/2017	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/11/2017	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/11/2017	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/13/2017	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/14/2017	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	Western Scrub-Jay	9/17/2017	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Western Scrub-Jay	9/11/2017	WNV

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Fresno	FRNO10	310	Cx. tarsalis	Fresno	41	CO2	9/13/17	WNV
Fresno	FRWS300023	564	Cx. quinquefasciatus		37	CO2	9/14/17	WNV
Fresno	FRWS300070	544	Cx. quinquefasciatus		43	BGSENT	9/13/17	SLEV
Fresno	FRWS300085	547	Cx. quinquefasciatus		50	BGSENT	9/13/17	SLEV
Fresno	FRWS3205	560	Cx. quinquefasciatus	Firebaugh	35	CO2	9/14/17	WNV
Fresno	FRWS4104	580	Cx. quinquefasciatus	Kerman	18	GRVD	9/19/17	SLEV
Fresno	FRWS4106	550	Cx. tarsalis	Mendota	27	CO2	9/14/17	WNV
Fresno	FRWS4106	551	Cx. tarsalis	Mendota	50	CO2	9/14/17	SLEV
Fresno	FRWS5101	579	Cx. quinquefasciatus	Mendota	14	OTHER	9/19/17	WNV
Kern	DLNO25	222	Cx. quinquefasciatus	Delano	22	GRVD	9/12/17	SLEV
Kern	DLNO28	225	Cx. quinquefasciatus	McFarland	50	GRVD	9/15/17	SLEV
Kern	DLNO4	234	Cx. quinquefasciatus	Delano	50	GRVD	9/15/17	SLEV
Kern	DLNO51	229	Cx. quinquefasciatus	McFarland	17	GRVD	9/15/17	SLEV
Kern	KERN2049	499	Cx. quinquefasciatus	Lamont	29	GRVD	9/12/17	WNV
Kings	KNGS3056	394	Cx. tarsalis	Hardwick	12	CO2	9/6/17	SLEV
Kings	KNGS3056	394	Cx. tarsalis	Hardwick	12	CO2	9/6/17	WNV
Kings	KNGS3062	396	Cx. tarsalis	Lemoore	50	CO2	9/6/17	WNV
Kings	KNGS3083	412	Cx. tarsalis	Lemoore	50	CO2	9/14/17	SLEV
Kings	KNGS3083	413	Cx. tarsalis	Lemoore	50	CO2	9/14/17	SLEV
Kings	KNGS5511	399	Cx. pipiens	Hanford	26	BGSENT	9/8/17	WNV
Lake	LAKE1508	649	Cx. stigmatosoma	Kelseyville	20	REST	9/13/17	WNV
Los Angeles	ANTV7302	82	Cx. quinquefasciatus	Palmdale	8	GRVD	9/19/17	WNV
Los Angeles	GRLA2017	5744	Cx. quinquefasciatus	Toluca Lake	50	GRVD	9/13/17	WNV
Los Angeles	GRLA2021	5734	Cx. quinquefasciatus	Reseda	22	GRVD	9/12/17	WNV
Los Angeles	GRLA2023	5735	Cx. quinquefasciatus	Reseda	24	GRVD	9/12/17	WNV
Los Angeles	GRLA2031	5737	Cx. quinquefasciatus	Northridge	42	GRVD	9/12/17	WNV
Los Angeles	GRLA2032	5736	Cx. quinquefasciatus	Northridge	35	GRVD	9/12/17	WNV
Los Angeles	GRLA2033	5762	Cx. quinquefasciatus	Tujunga	19	GRVD	9/14/17	WNV
Los Angeles	GRLA2065	771	Cx. quinquefasciatus	Gardena	50	GRVD	9/14/17	WNV
Los Angeles	GRLA2295	781	Cx. quinquefasciatus	Los Angeles	50	GRVD	9/15/17	WNV
Los Angeles	GRLA2297	780	Cx. quinquefasciatus	Los Angeles- South Park	50	GRVD	9/15/17	WNV
Los Angeles	GRLA2300	778	Cx. quinquefasciatus	Los Angeles-South Central	50	GRVD	9/15/17	WNV

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Los Angeles	GRLA2323	756	Cx. quinquefasciatus	Los Angeles	50	GRVD	9/13/17	WNV
Los Angeles	GRLA2450	5759	Cx. quinquefasciatus	Glendale	12	GRVD	9/14/17	WNV
Los Angeles	GRLA2539	5738	Cx. quinquefasciatus	Porter Ranch	23	GRVD	9/12/17	WNV
Los Angeles	GRLA2636	5730	Cx. quinquefasciatus	Van Nuys	50	GRVD	9/12/17	WNV
Los Angeles	GRLA3027	5741	Cx. quinquefasciatus	Studio City	13	GRVD	9/13/17	WNV
Los Angeles	GRLA3038	5746	Cx. quinquefasciatus	Valley Village	50	GRVD	9/13/17	WNV
Los Angeles	GRLA3062	782	Cx. quinquefasciatus	Los Angeles-Florence-Firestone	50	GRVD	9/15/17	WNV
Los Angeles	GRLA3065	786	Cx. quinquefasciatus	Willowbrook	48	GRVD	9/15/17	WNV
Los Angeles	GRLA3066	5749	Cx. quinquefasciatus	North Hollywood	50	GRVD	9/13/17	WNV
Los Angeles	GRLA3070	757	Cx. quinquefasciatus	Commerce	50	GRVD	9/13/17	WNV
Los Angeles	GRLA3071	759	Cx. quinquefasciatus	East Los Angeles	48	GRVD	9/13/17	WNV
Los Angeles	GRLA3072	762	Cx. quinquefasciatus	Los Angeles	50	GRVD	9/13/17	WNV
Los Angeles	GRLA3073	763	Cx. quinquefasciatus	Lincoln Heights	50	GRVD	9/13/17	WNV
Los Angeles	GRLA3075	765	Cx. quinquefasciatus	El Sereno	29	GRVD	9/13/17	WNV
Los Angeles	GRLA3076	5750	Cx. quinquefasciatus	Valley Glen	50	GRVD	9/13/17	WNV
Los Angeles	GRLA3079	5751	Cx. quinquefasciatus	North Hollywood	25	GRVD	9/13/17	WNV
Los Angeles	GRLA3080	5748	Cx. quinquefasciatus	North Hollywood	50	GRVD	9/13/17	WNV
Los Angeles	GRLA3086	5753	Cx. quinquefasciatus	Highland Park	50	GRVD	9/14/17	WNV
Los Angeles	GRLA3089	5758	Cx. quinquefasciatus	Glendale, CA	50	GRVD	9/14/17	WNV
Los Angeles	GRLA3102	5745	Cx. quinquefasciatus	Studio City	27	GRVD	9/13/17	WNV
Los Angeles	GRLA3133	5763	Cx. quinquefasciatus	San Fernando	19	GRVD	9/15/17	WNV
Los Angeles	LACW1047	316	Cx. quinquefasciatus	Inglewood	40	CO2	9/14/17	WNV
Los Angeles	SGVA941	2236	Cx. quinquefasciatus	El Monte	20	USDS	9/14/17	WNV
Los Angeles	SGVA961	2212	Cx. quinquefasciatus	Alhambra	4	GRVD	9/13/17	WNV
Madera	MADR1061	329	Cx. quinquefasciatus	Chowchilla	20	CO2	9/13/17	SLEV
Madera	MADR195	325	Cx. quinquefasciatus	Madera	23	CO2	9/12/17	WNV
Madera	MADR967	343	Cx. tarsalis	Madera	50	CO2	9/14/17	WNV
Orange	ORCO1011	4065	Cx. quinquefasciatus	La Habra	21	GRVD	9/13/17	WNV
Orange	ORCO1036	4090	Cx. quinquefasciatus	Buena Park	18	GRVD	9/14/17	WNV
Orange	ORCO1040	4096	Cx. quinquefasciatus	Orange	50	GRVD	9/14/17	WNV
Orange	ORCO1041	4107	Cx. quinquefasciatus	Tustin	35	GRVD	9/14/17	WNV
Orange	ORCO18	3996	Cx. quinquefasciatus	Lake Forest	16	GRVD	9/12/17	WNV
Orange	ORCO218	4042	Cx. quinquefasciatus	Anaheim	35	GRVD	9/13/17	WNV
Orange	ORCO218	4073	Cx. quinquefasciatus	Anaheim	20	GRVD	9/14/17	WNV
Orange	ORCO55	3987	Cx. quinquefasciatus	Mission Viejo	8	GRVD	9/12/17	WNV
Placer	PLCR1113	2127	Cx. tarsalis	Pleasant Grove	50	CO2	9/19/17	WNV
Placer	PLCR25	2137	Cx. tarsalis	Lincoln	43	CO2	9/19/17	WNV
Placer	PLCR30	2149	Cx. pipiens	Lincoln	50	OTHER	9/19/17	WNV
Riverside	COAV48	3755	Cx. tarsalis	Mecca	50	CO2	9/19/17	WNV
Riverside	COAV532	3715	Cx. tarsalis	Mecca	10	CO2	9/19/17	SLEV
Riverside	COAV608	3709	Cx. tarsalis	Mecca	21	CO2	9/19/17	WNV
Riverside	COAV731	3348	Ae. aegypti	Palm Springs	1	BGSENT	8/23/17	WNV
Riverside	NWST53	319	Cx. quinquefasciatus	Eastvale	38	CO2	9/12/17	WNV
Riverside	NWST6666	311	Cx. quinquefasciatus	Lake Elsinore	24	CO2	9/7/17	WNV
Riverside	NWST9213	295	Cx. quinquefasciatus	Riverside	15	CO2	9/6/17	WNV
Sacramento	SAYO201008	5967	Cx. tarsalis	Sacramento	50	CO2	9/15/17	WNV
Sacramento	SAYO201008	5968	Cx. tarsalis	Sacramento	50	CO2	9/15/17	WNV
Sacramento	SAYO212033	6165	Cx. tarsalis	Sacramento	50	CO2	9/19/17	WNV
Sacramento	SAYO212033	6166	Cx. tarsalis	Sacramento	50	CO2	9/19/17	WNV
Sacramento	SAYO232029	5948	Cx. pipiens	Elk Grove	15	GRVD	9/15/17	WNV
Sacramento	SAYO243025	6114	Cx. tarsalis	Elk Grove	31	CO2	9/19/17	WNV
Sacramento	SAYO244007	6010	Cx. pipiens	Wilton	33	CO2	9/15/17	WNV
Sacramento	SAYO245002	6002	Cx. pipiens	Wilton	18	CO2	9/15/17	WNV

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Sacramento	SAYO245026	6003	Cx. tarsalis	Wilton	29	CO2	9/15/17	WNV
Sacramento	SAYO254011	5990	Cx. pipiens	Galt	12	CO2	9/15/17	WNV
Sacramento	SAYO262003	6012	Cx. tarsalis	Walnut Grove	33	CO2	9/15/17	WNV
San Bernardino	SANB171	1010	Cx. stigmatosoma	Fontana	2	CO2	9/12/17	WNV
San Bernardino	SANB51	977	Ae. vexans	Rialto	50	CO2	9/7/17	WNV
San Bernardino	SANB51	986	Ae. vexans	Rialto	50	CO2	9/7/17	WNV
San Bernardino	WVAL1008	1668	Cx. quinquefasciatus	Ontario	50	CO2	8/3/17	WNV
San Bernardino	WVAL1008	1671	Cx. quinquefasciatus	Ontario	50	CO2	8/3/17	WNV
San Bernardino	WVAL135	2144	Cx. quinquefasciatus	Rancho Cucamonga	17	GRVD	9/15/17	WNV
San Bernardino	WVAL136	2136	Cx. quinquefasciatus	Rancho Cucamonga	3	GRVD	9/15/17	WNV
San Bernardino	WVAL138	2139	Cx. quinquefasciatus	Rancho Cucamonga	3	GRVD	9/15/17	WNV
San Bernardino	WVAL139	2135	Cx. quinquefasciatus	Rancho Cucamonga	7	GRVD	9/15/17	WNV
San Bernardino	WVAL140	2141	Cx. quinquefasciatus	Rancho Cucamonga	2	GRVD	9/15/17	WNV
San Bernardino	WVAL2008	1622	Cx. quinquefasciatus	Chino	50	CO2	8/2/17	WNV
San Bernardino	WVAL2018	1640	Cx. quinquefasciatus	Chino	14	GRVD	8/2/17	WNV
San Bernardino	WVAL2024	1673	Cx. quinquefasciatus	Chino Hills	11	GRVD	8/3/17	WNV
San Bernardino	WVAL2024	1674	Cx. quinquefasciatus	Chino Hills	30	GRVD	8/3/17	WNV
San Bernardino	WVAL3203	1658	Cx. quinquefasciatus	Upland	7	BGSENT	8/2/17	WNV
San Bernardino	WVAL3204	1656	Cx. quinquefasciatus	Upland	6	BGSENT	8/2/17	WNV
San Bernardino	WVAL3205	1657	Cx. quinquefasciatus	Upland	14	BGSENT	8/2/17	WNV
San Bernardino	WVAL3208	1678	Cx. quinquefasciatus	Ontario	55	BGSENT	8/3/17	WNV
San Bernardino	WVAL3209	1680	Cx. quinquefasciatus	Ontario	50	BGSENT	8/3/17	WNV
San Bernardino	WVAL3370	2132	Cx. quinquefasciatus	Chino Hills	41	BGSENT	9/15/17	WNV
San Bernardino	WVAL3371	2137	Cx. quinquefasciatus	Chino Hills	31	BGSENT	9/15/17	WNV
San Bernardino	WVAL5004	1645	Cx. quinquefasciatus	Rancho Cucamonga	31	GRVD	8/2/17	WNV
San Bernardino	WVAL5004	1646	Cx. quinquefasciatus	Rancho Cucamonga	31	GRVD	8/2/17	WNV
San Bernardino	WVAL5006	1652	Cx. quinquefasciatus	Rancho Cucamonga	18	GRVD	8/2/17	WNV
San Bernardino	WVAL5007	1642	Cx. quinquefasciatus	Rancho Cucamonga	28	GRVD	8/2/17	WNV
San Bernardino	WVAL5009	1650	Cx. stigmatosoma	Rancho Cucamonga	5	GRVD	8/2/17	WNV
San Bernardino	WVAL6001	1649	Cx. quinquefasciatus	Ontario	15	GRVD	8/2/17	WNV
San Bernardino	WVAL6005	1627	Cx. quinquefasciatus	Ontario	25	GRVD	8/2/17	WNV
San Bernardino	WVAL6005	1629	Cx. quinquefasciatus	Ontario	16	GRVD	8/2/17	WNV
San Bernardino	WVAL6012	1625	Cx. quinquefasciatus	Ontario	29	GRVD	8/2/17	WNV
San Bernardino	WVAL6012	1626	Cx. quinquefasciatus	Ontario	28	GRVD	8/2/17	WNV
San Bernardino	WVAL6012	2066	Cx. quinquefasciatus	Ontario	31	GRVD	9/13/17	WNV
San Bernardino	WVAL6015	1641	Cx. quinquefasciatus	Ontario	17	GRVD	8/2/17	WNV
San Bernardino	WVAL7002	1632	Cx. quinquefasciatus	Montclair	21	GRVD	8/2/17	WNV
San Bernardino	WVAL7002	2069	Cx. quinquefasciatus	Montclair	24	GRVD	9/13/17	WNV
San Bernardino	WVAL9001	1624	Cx. quinquefasciatus	Upland	11	GRVD	8/2/17	WNV
San Bernardino	WVAL9003	1615	Cx. quinquefasciatus	Upland	13	GRVD	8/2/17	WNV
San Bernardino	WVAL9003	1616	Cx. quinquefasciatus	Upland	25	GRVD	8/2/17	WNV
San Bernardino	WVAL9003	1617	Cx. quinquefasciatus	Upland	25	GRVD	8/2/17	WNV
San Bernardino	WVAL9003	1618	Cx. quinquefasciatus	Upland	25	GRVD	8/2/17	WNV
San Bernardino	WVAL9003	1619	Cx. quinquefasciatus	Upland	25	GRVD	8/2/17	WNV
San Bernardino	WVAL9006	1630	Cx. quinquefasciatus	Upland	23	GRVD	8/2/17	WNV
San Bernardino	WVAL9007	1623	Cx. quinquefasciatus	Upland	13	GRVD	8/2/17	WNV
San Joaquin	SJCM8206	2609	Cx. tarsalis	Lodi	100	CO2	9/18/17	WNV
San Joaquin	SJCM8206	2610	Cx. tarsalis	Lodi	100	CO2	9/18/17	WNV
San Joaquin	SJCM8206	2611	Cx. tarsalis	Lodi	100	CO2	9/18/17	WNV
San Joaquin	SJCM8206	2612	Cx. tarsalis	Lodi	100	CO2	9/18/17	WNV
San Joaquin	SJCM8208	2632	Cx. tarsalis	Lodi	50	CO2	9/20/17	WNV
San Joaquin	SJCM8208	2633	Cx. tarsalis	Lodi	50	CO2	9/20/17	WNV
San Joaquin	SJCM8218	2629	Cx. pipiens	Escalon	50	CO2	9/20/17	WNV
San Joaquin	SJCM8222	2588	Cx. tarsalis	Stockton	50	CO2	9/18/17	WNV

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Stanislaus	TRLK1301	1124	Cx. tarsalis	Denair	28	CO2	9/19/17	WNV
Stanislaus	TRLK1612	1116	Cx. pipiens	Turlock	33	CO2	9/19/17	SLEV
Stanislaus	TRLK536	1106	Cx. pipiens	Turlock	50	CO2	9/19/17	SLEV
Tulare	DLNO74	237	Cx. quinquefasciatus	Earlimart	15	GRVD	9/19/17	SLEV
Tulare	DLTA8434	2707	Cx. quinquefasciatus	Visalia	28	GRVD	9/15/17	WNV
Tulare	TLRE192433	209	Cx. quinquefasciatus	Tulare	50	CO2	9/8/17	SLEV
Tulare	TLRE192433	210	Cx. quinquefasciatus	Tulare	43	GRVD	9/8/17	WNV
Tulare	TLRE192433	212	Cx. quinquefasciatus	Tulare	50	CO2	9/8/17	WNV
Tulare	TLRE192507	221	Cx. quinquefasciatus	Visalia	50	GRVD	9/20/17	WNV
Ventura	VENT1011	20	Cx. erythrothorax	Simi valley	50	CO2	9/1/17	WNV
Ventura	VENT1011	31	Cx. erythrothorax	Simi valley	50	CO2	9/21/17	WNV
Yolo	SAYO125016	5927	Cx. pipiens	Woodland	24	GRVD	9/15/17	WNV
Yolo	SAYO145013	6135	Cx. tarsalis	Davis	41	CO2	9/19/17	WNV
Yolo	SAYO146012	6148	Cx. tarsalis	Davis	17	CO2	9/19/17	WNV
Yolo	SAYO147013	6151	Cx. tarsalis	West Sacramento	32	CO2	9/19/17	WNV

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05	Band 06	Band 07
Los Angeles	GRLA2056	Long Beach	8/29/2017	WNV	4703	4710					
Los Angeles	GRLA2132	Wilmington	9/13/2017	WNV	4713	4714					
Los Angeles	GRLA2223	Rowland Heights	8/28/2017	WNV	4721	4722	4723	4730			
Los Angeles	GRLA2371	South El Monte	9/12/2017	WNV	4732	4733	4734	4736	4737	4738	4740
Los Angeles	LACW1001	Rolling Hills Estates	9/6/2017	WNV	2502	2505					
Los Angeles	LACW1004	Lawndale	8/30/2017	WNV	2522						
Los Angeles	LACW1006	Playa Del Rey	9/7/2017	WNV	2533	2534					
Los Angeles	LACW1010	Los Angeles	8/30/2017	WNV	2612	2613					
Los Angeles	LACW1026	Los Angeles	9/6/2017	WNV	2577						
Los Angeles	LACW1073	Los Angeles	8/29/2017	WNV	2589						
Los Angeles	LONG0002	Long Beach	9/11/2017	WNV	1311	1319					
Los Angeles	SGVA00007	Claremont	9/11/2017	WNV	4554	4556					
San Bernardino	SANB0003	Colton	9/14/2017	WNV	2720						
San Bernardino	SANB0006	Yucaipa	9/14/2017	WNV	2754						
Yolo	SAYO116006	Knights Landing	9/14/2017	WNV	1359						

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.