

California Arbovirus Surveillance Bulletin #21

Week 37 Friday, September 17, 2021



Weekly Update

Humans

A total of 11 human cases of West Nile virus (WNV) illness were reported this week from 6 counties: Butte (2), Contra Costa (1), Madera (2), Merced (3), Placer (1), and Tulare (2). **These are the first human WNV cases reported from Contra Costa and Placer counties this year.** In 2021, a total of 46 WNV human cases have been reported from 17 counties. Of the 46 cases, 30 (65%) had neuroinvasive illness and 4 (8.7%) were fatal. The median age of the cases was 58 years, and 29 (63%) were male. Dates of symptom onset ranged from March 31 to August 31. In addition to the 46 cases, 11 asymptomatic WNV infections have been reported from Butte (1), Fresno (1), Kern (1), Kings (2), Los Angeles (2), Madera (1), Merced (1), San Bernardino (1), and San Joaquin (1) counties. At this time last year, 46 WNV cases had been reported from 12 counties.

Dead Birds

A total of 9 WNV positive dead birds were reported this week from 3 counties: Los Angeles (3), Sacramento (2), and Yolo (4). In 2021, 182 WNV positive dead birds have been reported from 17 counties. At this time last year, 211 WNV positive dead birds had been reported from 17 counties.

Mosquito Pools

West Nile virus

A total of 155 WNV positive mosquito pools were reported this week from 16 counties: Fresno (7), Kern (3), Kings (4), Lake (2), Los Angeles (26), Madera (3), Merced (1), Napa (1), Orange (5), Riverside (1), Sacramento (7), San Joaquin (42), Stanislaus (7), Tulare (38), Yolo (7), and Yuba (1). **This is the first detection of WNV activity in Napa County this year.** In 2021, 2,032 WNV positive mosquito pools have been reported from 25 counties. At this time last year, 1,982 WNV positive mosquito pools had been reported from 27 counties.

St. Louis encephalitis virus

A total of 4 St. Louis encephalitis virus (SLEV) positive mosquito pools were reported this week from 2 counties: Fresno (2) and Tulare (2). In 2021, 30 SLEV positive mosquito pools have been reported from 6 counties: Fresno (6), Imperial (3), Madera (1), Riverside (16), Stanislaus (1), and Tulare (3). At this time last year, 360 SLEV positive mosquito pools had been reported from 8 counties.

Sentinel Chickens

A total of 4 WNV positive chickens were reported this week from Tulare County. In 2021, 67 WNV positive chickens have been reported from 9 counties. At this time last year, 60 WNV positive chickens had been reported from 7 counties.

St. Louis encephalitis virus

No SLEV positive chickens were reported this week. In 2021, 2 SLEV positive chickens have been reported from Merced County. At this time last year, no SLEV positive chickens had been reported.

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YTD WNV Activity by Element and County, 2021					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Butte	12		2	79	24
Contra Costa	1		1	7	
Fresno	3	2		209	
Glenn	2				
Kern	2			98	
Kings	1	1		30	
Lake				4	3
Los Angeles	3		38	194	
Madera	3			126	
Merced	5	1	1	6	19
Napa				1	
Nevada			1		
Orange				35	
Placer	1		3	62	
Riverside				98	
Sacramento		2	95	101	
San Bernardino			1	8	
San Joaquin	2	2	16	372	
San Luis Obispo	2				
Santa Clara			1	4	
Shasta	1			28	1
Solano	1		2	12	
Sonoma			1	1	
Stanislaus	3		2	140	
Sutter			1	18	8
Tehama					3
Tulare	3		7	339	7
Ventura			1		
Yolo	1		9	48	1
Yuba				12	1
Totals	46	8	182	2,032	67

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2020 & 2021 YTD West Nile Virus Comparisons		
	2020	2021
Total # Dead Bird Reports	4,252	4,247
# Positive Counties	30	30
# Human Cases	46	46
# Positive Dead Birds / # Tested	211 / 1,176	182 / 1,343
# Positive Mosquito Pools / # Tested	1,982 / 30,485	2,032 / 30,011
# Seroconversions / # Tested	60 / 4,665	67 / 4,519

TESTING SUMMARIES

Humans

		WNV	SLEV	WEEV
Human Cases	Week	11	0	0
	YTD	46	0	0

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	30	9
	YTD	1,343	182

Sentinel Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	168	4	0	0
	YTD	4,519	67	2	0

Mosquitoes

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Mosquito Pools	Week	155 / 2,009	4 / 1,729	0 / 1,582	0 / 46	0 / 46	0 / 46
	YTD	2,032 / 30,011	30 / 27,904	0 / 25,652	0 / 559	0 / 559	0 / 559

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NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Los Angeles	Greater Los Angeles Co VCD - SFS	Cerritos	90703	House Sparrow	9/2/21	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Norwalk	90650	American Crow	9/7/21	WNV
Los Angeles	San Gabriel Valley MVCD	Covina	91722	American Crow	9/13/21	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Yellow-billed Magpie	9/10/21	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	9/14/21	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	9/9/21	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Unknown - Crow or Raven	9/14/21	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Orange-Crowned Warbler	9/14/21	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	Barn Owl	9/14/21	WNV

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Fresno	CNSL1454	316	Cx. quinquefasciatus	Fresno	50	GRVD	9/10/2021	WNV
Fresno	CNSL6197	303	Cx. quinquefasciatus	Riverdale	50	GRVD	9/9/2021	WNV
Fresno	FRNO10	517	Cx. tarsalis	Fresno	50	CO2	9/8/2021	WNV
Fresno	FRNO187	520	Cx. quinquefasciatus	Biola	50	GRVD	9/9/2021	WNV
Fresno	FRNO249	529	Cx. quinquefasciatus	Fresno	17	CO2	9/9/2021	WNV
Fresno	FRNO261	542	Cx. quinquefasciatus	Fresno	10	GRVD	9/16/2021	SLEV
Fresno	FRNO8002	528	Cx. quinquefasciatus	Fresno	17	GRVD	9/9/2021	WNV
Fresno	FRWS100006	323	Cx. tarsalis	Dos Palos	50	CO2	9/14/2021	SLEV
Fresno	FRWS3201	319	Cx. tarsalis	Firebaugh	50	CO2	9/14/2021	WNV
Kern	KERN2007	420	Cx. quinquefasciatus	Bakersfield	35	GRVD	9/9/2021	WNV
Kern	KERN3034	413	Cx. quinquefasciatus	Bakersfield	23	GRVD	9/8/2021	WNV
Kern	KERN9	421	Cx. quinquefasciatus	Bakersfield	21	CO2	9/9/2021	WNV
Kings	KNGS3022	164	Cx. tarsalis	Hanford	12	CO2	9/10/2021	WNV
Kings	KNGS3028	159	Cx. pipiens	Hanford	50	BGSENT	9/9/2021	WNV
Kings	KNGS3108	171	Cx. tarsalis	Island	48	CO2	9/14/2021	WNV
Kings	KNGS8022	165	Cx. pipiens	Lemoore	17	BGSENT	9/10/2021	WNV
Lake	LAKE328	257	Cx. tarsalis	Upper Lake	4	CO2	9/2/2021	WNV
Lake	LAKE422	259	Cx. tarsalis	Lower Lake	1	CO2	9/3/2021	WNV
Los Angeles	GRLA2637	5655	Cx. quinquefasciatus	Van Nuys	34	GRVD	9/8/2021	WNV
Los Angeles	GRLA3098	5661	Cx. quinquefasciatus	Silver Lake	50	GRVD	9/9/2021	WNV
Los Angeles	SGVA1000	912	Cx. quinquefasciatus	Azusa	50	GRVD	9/9/2021	WNV
Los Angeles	SGVA1010	952	Cx. quinquefasciatus	Monrovia	35	GRVD	9/14/2021	WNV
Los Angeles	SGVA1022	913	Cx. quinquefasciatus	Azusa	50	GRVD	9/9/2021	WNV
Los Angeles	SGVA1071	965	Cx. quinquefasciatus	Monterey Park	43	GRVD	9/14/2021	WNV
Los Angeles	SGVA1075	949	Cx. quinquefasciatus	South Pasadena	50	GRVD	9/14/2021	WNV
Los Angeles	SGVA1106	945	Cx. quinquefasciatus	Walnut	50	GRVD	9/14/2021	WNV
Los Angeles	SGVA15	937	Cx. quinquefasciatus	Glendora	50	GRVD	9/14/2021	WNV
Los Angeles	SGVA285	938	Cx. quinquefasciatus	Baldwin Park	50	GRVD	9/14/2021	WNV

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Los Angeles	SGVA313	957	Cx. quinquefasciatus	Pasadena	23	GRVD	9/14/2021	WNV
Los Angeles	SGVA445	924	Cx. quinquefasciatus	Rosemead	15	GRVD	9/8/2021	WNV
Los Angeles	SGVA448	916	Cx. quinquefasciatus	La Verne	50	GRVD	9/9/2021	WNV
Los Angeles	SGVA448	934	Cx. quinquefasciatus	La Verne	18	GRVD	9/14/2021	WNV
Los Angeles	SGVA466	954	Cx. quinquefasciatus	Pasadena	30	GRVD	9/14/2021	WNV
Los Angeles	SGVA475	948	Cx. quinquefasciatus	Temple City	42	GRVD	9/14/2021	WNV
Los Angeles	SGVA62	939	Cx. quinquefasciatus	Covina	23	GRVD	9/14/2021	WNV
Los Angeles	SGVA64	936	Cx. quinquefasciatus	West Covina	50	GRVD	9/14/2021	WNV
Los Angeles	SGVA688	964	Cx. quinquefasciatus	Alhambra	50	GRVD	9/14/2021	WNV
Los Angeles	SGVA887	962	Cx. quinquefasciatus	Alhambra	50	GRVD	9/14/2021	WNV
Los Angeles	SGVA896	919	Cx. quinquefasciatus	La Verne	50	GRVD	9/9/2021	WNV
Los Angeles	SGVA898	961	Cx. quinquefasciatus	San Gabriel	44	GRVD	9/14/2021	WNV
Los Angeles	SGVA915	917	Cx. quinquefasciatus	San Dimas	50	GRVD	9/9/2021	WNV
Los Angeles	SGVA953	932	Cx. quinquefasciatus	Covina	50	GRVD	9/14/2021	WNV
Los Angeles	SGVA961	925	Cx. quinquefasciatus	Alhambra	50	GRVD	9/8/2021	WNV
Los Angeles	SGVA996	947	Cx. quinquefasciatus	South Pasadena	50	GRVD	9/14/2021	WNV
Madera	MADR208	448	Cx. quinquefasciatus	Madera	50	CO2	9/8/2021	WNV
Madera	MADR208	449	Cx. tarsalis	Madera	50	CO2	9/8/2021	WNV
Madera	MADR889	440	Cx. tarsalis	Firebaugh	50	CO2	8/27/2021	WNV
Merced	MERC201723	471	Cx. pipiens	Winton	7	CO2	9/14/2021	WNV
Napa	NAPA12	92	Cx. tarsalis	Napa	8	CO2	9/9/2021	WNV
Orange	ORCO1008	3797	Cx. quinquefasciatus	Fullerton	40	GRVD	9/14/2021	WNV
Orange	ORCO319	3838	Cx. quinquefasciatus	Buena Park	23	GRVD	9/14/2021	WNV
Orange	ORCO334	3839	Cx. quinquefasciatus	Cypress	27	GRVD	9/14/2021	WNV
Orange	ORCO338	3841	Cx. quinquefasciatus	Anaheim	34	GRVD	9/14/2021	WNV
Orange	ORCO340	3830	Cx. quinquefasciatus	Santa Ana	32	GRVD	9/14/2021	WNV
Riverside	COAV54	3925	Cx. tarsalis	North Shore	50	CO2	9/10/2021	WNV
Sacramento	SAYO201006	5694	Cx. tarsalis	Sacramento	29	CO2	9/14/2021	WNV
Sacramento	SAYO202016	5717	Cx. pipiens	Sacramento	22	CO2	9/14/2021	WNV
Sacramento	SAYO203014	5771	Cx. tarsalis	Antelope	8	CO2	9/14/2021	WNV
Sacramento	SAYO245008	5424	Cx. pipiens	Wilton	27	CO2	9/10/2021	WNV
Sacramento	SAYO255007	5401	Cx. tarsalis	Herald	50	CO2	9/10/2021	WNV
Sacramento	SAYO388500	5590	Cx. pipiens	Elk Grove	26	BGSENT	9/10/2021	WNV
Sacramento	SAYO391885	5789	Cx. pipiens	Galt	20	BGSENT	9/14/2021	WNV
San Joaquin	SJCM8004	2003	Cx. tarsalis	Lodi	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8025	2031	Cx. tarsalis	Stockton	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8025	2032	Cx. tarsalis	Stockton	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8025	2033	Cx. tarsalis	Stockton	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8025	2034	Cx. tarsalis	Stockton	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8025	2035	Cx. tarsalis	Stockton	24	CO2	9/14/2021	WNV
San Joaquin	SJCM8041	1995	Cx. tarsalis	Lodi	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8041	1996	Cx. tarsalis	Lodi	37	CO2	9/14/2021	WNV
San Joaquin	SJCM8056	2079	Cx. pipiens	Manteca	29	CO2	9/14/2021	WNV
San Joaquin	SJCM8083	2130	Cx. pipiens	Escalon	32	CO2	9/16/2021	WNV
San Joaquin	SJCM8191	1992	Cx. tarsalis	Lodi	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8191	1993	Cx. pipiens	Lodi	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8191	1994	Cx. pipiens	Lodi	46	CO2	9/14/2021	WNV
San Joaquin	SJCM8199	2066	Cx. tarsalis	Manteca	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8199	2069	Cx. pipiens	Manteca	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8203	2022	Cx. tarsalis	Lodi	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8204	2085	Cx. tarsalis	Stockton	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8204	2087	Cx. tarsalis	Stockton	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8204	2088	Cx. tarsalis	Stockton	44	CO2	9/14/2021	WNV
San Joaquin	SJCM8204	2090	Cx. pipiens	Stockton	47	CO2	9/14/2021	WNV

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San Joaquin	SJCM8205	2116	Cx. tarsalis	Farmington	13	CO2	9/16/2021	WNV
San Joaquin	SJCM8206	2006	Cx. tarsalis	Lodi	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8206	2007	Cx. tarsalis	Lodi	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8206	2008	Cx. tarsalis	Lodi	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8206	2009	Cx. tarsalis	Lodi	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8206	2010	Cx. tarsalis	Lodi	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8206	2011	Cx. pipiens	Lodi	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8206	2012	Cx. pipiens	Lodi	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8206	2013	Cx. pipiens	Lodi	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8206	2015	Cx. pipiens	Lodi	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8206	2016	Cx. pipiens	Lodi	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8206	2017	Cx. pipiens	Lodi	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8208	2112	Cx. tarsalis	Lodi	38	CO2	9/16/2021	WNV
San Joaquin	SJCM8210	2120	Cx. pipiens	Escalon	16	CO2	9/16/2021	WNV
San Joaquin	SJCM8213	2001	Cx. tarsalis	Lodi	23	CO2	9/14/2021	WNV
San Joaquin	SJCM8216	2055	Cx. tarsalis	Tracy	24	CO2	9/14/2021	WNV
San Joaquin	SJCM8219	2107	Cx. pipiens	Stockton	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8219	2108	Cx. pipiens	Stockton	37	CO2	9/14/2021	WNV
San Joaquin	SJCM8230	2041	Cx. tarsalis	Thornton	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8230	2046	Cx. tarsalis	Thornton	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8233	1999	Cx. pipiens	Stockton	50	CO2	9/14/2021	WNV
San Joaquin	SJCM8235	2128	Cx. pipiens	Escalon	48	CO2	9/16/2021	WNV
Stanislaus	TRLK1202	1008	Cx. pipiens	Hughson	50	CO2	9/14/2021	WNV
Stanislaus	TRLK1308	970	Cx. pipiens	Turlock	33	CO2	9/14/2021	WNV
Stanislaus	TRLK17152	977	Cx. pipiens	Denair	50	CO2	9/14/2021	WNV
Stanislaus	TRLK1904	958	Cx. pipiens	Turlock	50	CO2	9/14/2021	WNV
Stanislaus	TRLK1906	994	Cx. pipiens	Hughson	50	CO2	9/14/2021	WNV
Stanislaus	TRLK1906	998	Cx. tarsalis	Hughson	41	CO2	9/14/2021	WNV
Stanislaus	TRLK432	965	Cx. pipiens	Turlock	45	CO2	9/14/2021	WNV
Tulare	DLTA751732	2191	Cx. quinquefasciatus	Yetttem	50	CO2	9/12/2021	WNV
Tulare	DLTA751732	2296	Cx. quinquefasciatus	Yetttem	50	CO2	9/14/2021	WNV
Tulare	DLTA751732	2305	Cx. quinquefasciatus	Yetttem	50	CO2	9/14/2021	WNV
Tulare	DLTA751941	2080	Cx. quinquefasciatus	Patterson Tract	50	CO2	9/12/2021	WNV
Tulare	DLTA751941	2086	Cx. quinquefasciatus	Patterson Tract	50	CO2	9/12/2021	WNV
Tulare	DLTA751941	2095	Cx. quinquefasciatus	Patterson Tract	50	CO2	9/12/2021	WNV
Tulare	DLTA751941	2263	Cx. quinquefasciatus	Patterson Tract	50	CO2	9/14/2021	WNV
Tulare	DLTA751941	2271	Cx. tarsalis	Patterson Tract	12	CO2	9/14/2021	WNV
Tulare	DLTA752032	2137	Cx. quinquefasciatus	Patterson Tract	50	CO2	9/12/2021	WNV
Tulare	DLTA752032	2143	Cx. quinquefasciatus	Patterson Tract	50	CO2	9/12/2021	WNV
Tulare	DLTA752842	2238	Cx. quinquefasciatus	Ivanhoe	50	CO2	9/14/2021	WNV
Tulare	DLTA752842	2245	Cx. quinquefasciatus	Ivanhoe	50	CO2	9/14/2021	WNV
Tulare	DLTA752842	2250	Cx. quinquefasciatus	Ivanhoe	50	CO2	9/14/2021	WNV
Tulare	DLTA752842	2251	Cx. quinquefasciatus	Ivanhoe	50	CO2	9/14/2021	WNV
Tulare	DLTA752842	2254	Cx. quinquefasciatus	Ivanhoe	50	CO2	9/14/2021	WNV
Tulare	DLTA752842	2255	Cx. quinquefasciatus	Ivanhoe	50	CO2	9/14/2021	WNV
Tulare	DLTA752842	2256	Cx. quinquefasciatus	Ivanhoe	50	CO2	9/14/2021	WNV
Tulare	DLTA753122	2070	Cx. quinquefasciatus	Patterson Tract	50	CO2	9/12/2021	WNV
Tulare	DLTA841534	2340	Cx. quinquefasciatus	Visalia	50	CO2	9/15/2021	WNV
Tulare	DLTA842113	2018	Cx. quinquefasciatus	Visalia	50	CO2	9/9/2021	WNV
Tulare	DLTA842113	2019	Cx. quinquefasciatus	Visalia	50	CO2	9/9/2021	WNV
Tulare	DLTA842113	2021	Cx. quinquefasciatus	Visalia	50	CO2	9/9/2021	WNV
Tulare	DLTA842113	2022	Cx. quinquefasciatus	Visalia	50	CO2	9/9/2021	WNV
Tulare	DLTA842113	2023	Cx. quinquefasciatus	Visalia	50	CO2	9/9/2021	WNV
Tulare	DLTA842113	2025	Cx. quinquefasciatus	Visalia	50	CO2	9/9/2021	SLEV

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Tulare	DLTA84221	2321	Cx. quinquefasciatus	Visalia	50	BGSENT	9/14/2021	WNV
Tulare	DLTA84221	2322	Cx. quinquefasciatus	Visalia	50	BGSENT	9/14/2021	WNV
Tulare	DLTA843223	2181	Cx. quinquefasciatus	Visalia	38	CO2	9/14/2021	WNV
Tulare	DLTA843232	2224	Cx. quinquefasciatus	Visalia	50	CO2	9/14/2021	WNV
Tulare	DLTA843232	2227	Cx. quinquefasciatus	Visalia	50	CO2	9/14/2021	WNV
Tulare	DLTA843232	2230	Cx. quinquefasciatus	Visalia	50	CO2	9/14/2021	WNV
Tulare	DLTA843341	2218	Cx. quinquefasciatus	Visalia	50	CO2	9/14/2021	WNV
Tulare	DLTA8534	2293	Cx. quinquefasciatus	Visalia	14	GRVD	9/14/2021	SLEV
Tulare	DLTA9402	2312	Cx. quinquefasciatus	Visalia	50	BGSENT	9/14/2021	WNV
Tulare	DLTA9402	2313	Cx. quinquefasciatus	Visalia	50	BGSENT	9/14/2021	WNV
Tulare	DLTA9402	2315	Cx. tarsalis	Visalia	48	BGSENT	9/14/2021	WNV
Tulare	DLTA94031	2048	Cx. quinquefasciatus	Visalia	50	BGSENT	9/10/2021	WNV
Tulare	DLTA94031	2054	Cx. quinquefasciatus	Visalia	50	BGSENT	9/10/2021	WNV
Tulare	DLTA94033	2328	Cx. quinquefasciatus	Visalia	13	CO2	9/15/2021	WNV
Tulare	DLTA9607	2308	Cx. quinquefasciatus	Farmersville	19	BGSENT	9/14/2021	WNV
Yolo	SAYO114006	5687	Cx. tarsalis	Zamora	50	CO2	9/14/2021	WNV
Yolo	SAYO115008	5700	Cx. tarsalis	Woodland	50	CO2	9/14/2021	WNV
Yolo	SAYO116002	5758	Cx. tarsalis	Knights Landing	50	CO2	9/14/2021	WNV
Yolo	SAYO125016	5480	Cx. pipiens	Woodland	18	GRVD	9/10/2021	WNV
Yolo	SAYO145016	3415	Cx. tarsalis	Davis	50	CO2	8/10/2021	WNV
Yolo	SAYO146002	5710	Cx. tarsalis	Davis	50	CO2	9/14/2021	WNV
Yolo	SAYO390967	5798	Cx. pipiens	Davis	5	GRVD	9/14/2021	WNV
Yuba	SUYA37	395	Cx. tarsalis	Marysville	17	CO2	9/14/2021	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Tulare	TLRE0008	Tulare	9/3/2021	WNV	1751	1754	1757	1759

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 with a plaque reduction neutralization test (PRNT).

Dead Birds

Oral swab samples collected from bird carcasses are tested at the UC Davis Arbovirus Research and Training laboratory (DART) or at a local agency for West Nile virus by RT-qPCR.

Sentinel Chickens:

Dried blood spot samples from sentinel chickens are tested at the California Department of Public Health Vector-Borne Disease Laboratory for IgG antibodies to West Nile, St. Louis encephalitis, and western equine encephalomyelitis viruses by an EIA. Positive samples are confirmed by IFA, western-blot, or PRNT.

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Mosquito Pools:

Mosquito pools are tested at DART or at a local agency for West Nile, western equine encephalomyelitis, and St. Louis encephalitis viral RNA using a multiplex RT-qPCR. Invasive *Aedes* mosquitoes (*Ae. aegypti* and *Ae. albopictus*) are also tested at DART for chikungunya, dengue, and Zika viral RNA by a separate RT-qPCR.

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.maps.calsurv.org. For national information on WNV and other arboviruses, please visit the CDC websites: www.cdc.gov and www.cdc.gov/arbonet/maps/ADB_Diseases_Map/index.html

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