

California Arbovirus Surveillance Bulletin #16

Week 32 Friday, August 13, 2021



Weekly Update

Humans

A total of 7 human cases of West Nile virus (WNV) illness were reported this week from 5 counties: Butte (3), San Joaquin (1), San Luis Obispo (1), Stanislaus (1), and Tulare (1). **These are the first human WNV cases reported from San Joaquin and Tulare counties this year.** In 2021, a total of 15 WNV human cases have been reported from 9 counties. Of the 15 cases, 8 (53%) had neuroinvasive illness and 1 (6.7%) was fatal. The median age of the cases was 60 years, and 11 (73%) were male. Dates of symptom onset ranged from March 31 to July 31. In addition to the 15 cases, 3 asymptomatic WNV infections have been reported from Butte (1), Kern (1) and San Bernardino (1) counties. At this time last year, 10 WNV cases had been reported from 3 counties.

Dead Birds

A total of 12 WNV positive dead birds were reported this week from 5 counties: Los Angeles (2), Placer (1), Sacramento (5), San Joaquin (2) and Yolo (2). In 2021, 121 WNV positive dead birds have been reported from 11 counties. **These are the first positive birds reported from Yolo County this year.** At this time last year, 81 WNV positive dead birds had been reported from 14 counties.

Mosquito Pools

West Nile virus

A total of 215 WNV positive mosquito pools were reported this week from 18 counties: Butte (8), Contra Costa (2), Fresno (21), Kern (14), Kings (3), Los Angeles (17), Madera (24), Merced (1), Placer (5), Riverside (14), Sacramento (10), San Joaquin (32), Shasta (5), Stanislaus (9), Sutter (3), Tulare (43), Yolo (1), and Yuba (3). In 2021, 985 WNV positive mosquito pools have been reported from 23 counties. At this time last year, 675 WNV positive mosquito pools had been reported from 23 counties.

St. Louis encephalitis virus

No mosquito pools tested positive for St. Louis encephalitis virus (SLEV) this week. In 2021, 9 SLEV positive mosquito pools have been reported from Fresno (1), Imperial (3), and Riverside (5) counties. At this time last year, 178 SLEV positive mosquito pools had been reported from 6 counties.

Sentinel Chickens

A total of 20 WNV positive chickens were reported this week from 5 counties: Butte (7), Lake (1), Merced (8), Sutter (3), and Tehama (1). **This is the first detection of WNV activity in Tehama County and the first WNV positive chickens reported from Lake and Sutter counties this year.** In 2021, 30 WNV positive chickens have been reported from 6 counties. At this time last year, 21 WNV positive chickens had been reported from 4 counties.

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/arbovet/maps/ADB_Diseases_Map/index.html

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YTD WNV Activity by Element and County, 2021					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Butte	5			60	15
Contra Costa				4	
Fresno	1	2		161	
Kern	1			55	
Kings				9	
Lake				2	1
Los Angeles	1		21	102	
Madera				73	
Merced			1	2	9
Nevada			1		
Orange				2	
Placer			3	35	
Riverside				29	
Sacramento			71	41	
San Bernardino			1	2	
San Joaquin	1		14	178	
San Luis Obispo	2				
Shasta	1			20	1
Solano				2	
Sonoma			1	1	
Stanislaus	2		1	55	
Sutter				12	3
Tehama					1
Tulare	1		5	126	
Yolo			2	7	
Yuba				7	
Totals	15	2	121	985	30

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2020 & 2021 YTD West Nile Virus Comparisons		
	2020	2021
Total # Dead Bird Reports	3,255	3,676
# Positive Counties	27	26
# Human Cases	10	15
# Positive Dead Birds / # Tested	81 / 866	121 / 1,126
# Positive Mosquito Pools / # Tested	675 / 21,775	985 / 21,142
# Seroconversions / # Tested	21 / 3,618	30 / 3,530

TESTING SUMMARIES

Humans

		WNV	SLEV	WEEV
Human Cases	Week	7	0	0
	YTD	15	0	0

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	57	12
	YTD	1,126	121

Sentinel Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	272	20	0	0
	YTD	3,530	30	0	0

Mosquitoes

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Mosquito Pools	Week	215 / 1,423	0 / 1,423	0 / 1,288	0 / 26	0 / 26	0 / 26
	YTD	985 / 21,142	9 / 19,799	0 / 18,308	0 / 279	0 / 279	0 / 279

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NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Los Angeles	San Gabriel Valley MVCD	Covina	91723	American Crow	8/5/2021	WNV
Los Angeles	San Gabriel Valley MVCD	Baldwin Park	91706	American Crow	8/9/2021	WNV
Placer	Placer MVCD	Roseville	95678	American Crow	8/9/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Folsom	95630	American Crow	8/4/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	American Crow	8/4/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95823	House Finch	8/6/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	Western Bluebird	8/6/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	American Crow	8/9/2021	WNV
San Joaquin	San Joaquin Co MVCD	Tracy	95376	American Crow	8/9/2021	WNV
San Joaquin	San Joaquin Co MVCD	Manteca	95336	American Crow	8/9/2021	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	Lesser Goldfinch	8/9/2021	WNV
Yolo	Sacramento-Yolo MVCD	Winters	95694	American Crow	8/11/2021	WNV

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO145	305	Cx. tarsalis	Palermo	50	CO2	8/3/21	WNV
Butte	BUCO145	306	Cx. tarsalis	Palermo	50	CO2	8/3/21	WNV
Butte	BUCO37	309	Cx. tarsalis	Honcut	50	CO2	44412	WNV
Butte	BUCO38	302	Cx. tarsalis	Oroville	50	CO2	8/3/21	WNV
Butte	BUCO38	304	Cx. tarsalis	Oroville	50	CO2	8/3/21	WNV
Butte	BUCO43	312	Cx. tarsalis	Chico	48	CO2	8/3/21	WNV
Butte	BUCO69	299	Cx. pipiens	Oroville	50	CO2	8/2/21	WNV
Butte	BUCO75	315	Cx. tarsalis	Chico	34	CO2	8/4/21	WNV
Contra Costa	CNTR8202	1386	Cx. tarsalis	Discovery Bay	50	CO2	8/10/21	WNV
Contra Costa	CNTR8202	1387	Cx. tarsalis	Discovery Bay	50	CO2	8/10/21	WNV
Fresno	CNSL1328	300	Cx. quinquefasciatus	Clovis	27	GRVD	8/6/21	WNV
Fresno	CNSL1415	720	Cx. quinquefasciatus	Fresno	40	GRVD	8/6/21	WNV
Fresno	CNSL2258	280	Cx. quinquefasciatus	Sanger	17	GRVD	8/4/21	WNV
Fresno	CNSL2268	265	Cx. tarsalis	Sanger	36	CO2	8/3/21	WNV
Fresno	CNSL2280	279	Cx. quinquefasciatus	Sanger	50	GRVD	8/3/21	WNV
Fresno	CNSL2496	278	Cx. quinquefasciatus	Sanger	46	GRVD	8/3/21	WNV
Fresno	CNSL3369	285	Cx. quinquefasciatus	Parlier	27	GRVD	8/5/21	WNV
Fresno	CNSL4278	284	Cx. quinquefasciatus	Selma	36	GRVD	8/5/21	WNV
Fresno	CNSL5028	283	Cx. quinquefasciatus	Kingsburg	43	GRVD	8/5/21	WNV
Fresno	CNSL5030	282	Cx. quinquefasciatus	Kingsburg	50	GRVD	8/5/21	WNV
Fresno	CNSL6321	716	Cx. quinquefasciatus	Laton	44	GRVD	8/4/21	WNV
Fresno	CNSL9006	714	Cx. quinquefasciatus	Clovis	36	GRVD	8/4/21	WNV
Fresno	CNSL9038	297	Cx. quinquefasciatus	Clovis	26	GRVD	8/6/21	WNV
Fresno	FRWS100006	214	Cx. tarsalis	Dos Palos	50	CO2	8/10/21	WNV
Fresno	FRWS100006	216	Cx. tarsalis	Dos Palos	50	CO2	8/10/21	WNV
Fresno	FRWS1101	219	Cx. tarsalis	Dos Palos	50	CO2	8/10/21	WNV
Fresno	FRWS1101	220	Cx. tarsalis	Dos Palos	50	CO2	8/10/21	WNV
Fresno	FRWS1202	222	Cx. tarsalis	Dos Palos	50	CO2	8/10/21	WNV

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Fresno	FRWS400003	207	Cx. quinquefasciatus	Mendota	10	GRVD	8/10/21	WNV
Fresno	FRWS5101	210	Cx. tarsalis	Mendota	44	CO2	8/10/21	WNV
Fresno	FRWS5110	212	Cx. tarsalis	Tranquillity	45	CO2	8/10/21	WNV
Kern	DLNO58	100	Cx. tarsalis	McFarland	50	CO2	8/5/21	WNV
Kern	KERN111	338	Cx. quinquefasciatus	Arvin	40	CO2	8/3/21	WNV
Kern	KERN114	335	Cx. quinquefasciatus	Bakersfield	40	CO2	8/3/21	WNV
Kern	KERN114	337	Cx. tarsalis	Bakersfield	33	CO2	8/3/21	WNV
Kern	KERN29	351	Cx. tarsalis	Lamont	41	CO2	8/6/21	WNV
Kern	KERN3004	352	Cx. quinquefasciatus	Bakersfield	40	CO2	8/6/21	WNV
Kern	KERN3021	327	Cx. tarsalis	Wasco	26	CO2	8/3/21	WNV
Kern	KERN3023	326	Cx. tarsalis	Wasco	38	CO2	8/3/21	WNV
Kern	KERN3027	321	Cx. quinquefasciatus	Arvin	45	CO2	8/3/21	WNV
Kern	KERN3027	322	Cx. tarsalis	Arvin	32	CO2	8/3/21	WNV
Kern	KERN32	319	Cx. quinquefasciatus	Arvin	50	CO2	8/3/21	WNV
Kern	KERN32	340	Cx. tarsalis	Arvin	30	CO2	8/3/21	WNV
Kern	KERN33	316	Cx. quinquefasciatus	Arvin	40	CO2	8/3/21	WNV
Kern	KERN36	320	Cx. tarsalis	Bakersfield	47	CO2	8/3/21	WNV
Kings	KNGS3110	105	Cx. tarsalis	Guernsey	50	CO2	8/3/21	WNV
Kings	KNGS3114	116	Cx. tarsalis	Hanford	18	CO2	8/6/21	WNV
Kings	KNGS3122	115	Cx. tarsalis	Hanford	18	CO2	8/5/21	WNV
Los Angeles	GRLA2194	464	Cx. quinquefasciatus	South El Monte	50	GRVD	8/4/21	WNV
Los Angeles	GRLA3042	465	Cx. quinquefasciatus	Hacienda Heights	50	GRVD	8/4/21	WNV
Los Angeles	SGVA1000	765	Cx. quinquefasciatus	Azusa	50	GRVD	8/10/21	WNV
Los Angeles	SGVA1022	768	Cx. quinquefasciatus	Azusa	50	GRVD	8/10/21	WNV
Los Angeles	SGVA1117	784	Cx. quinquefasciatus	West Covina	50	GRVD	8/10/21	WNV
Los Angeles	SGVA294	773	Cx. quinquefasciatus	City of Industry	50	GRVD	8/10/21	WNV
Los Angeles	SGVA313	764	Cx. quinquefasciatus	Pasadena	48	GRVD	8/10/21	WNV
Los Angeles	SGVA370	789	Cx. quinquefasciatus	South Pasadena	15	BGSENT	8/11/21	WNV
Los Angeles	SGVA396	769	Cx. quinquefasciatus	Pasadena	48	GRVD	8/10/21	WNV
Los Angeles	SGVA451	760	Cx. quinquefasciatus	Glendora	40	GRVD	8/10/21	WNV
Los Angeles	SGVA509	758	Cx. quinquefasciatus	Glendora	12	GRVD	8/10/21	WNV
Los Angeles	SGVA62	763	Cx. quinquefasciatus	Covina	35	GRVD	8/10/21	WNV
Los Angeles	SGVA64	777	Cx. quinquefasciatus	West Covina	50	GRVD	8/10/21	WNV
Los Angeles	SGVA860	786	Cx. quinquefasciatus	Baldwin Park	36	GRVD	8/10/21	WNV
Los Angeles	SGVA915	772	Cx. quinquefasciatus	San Dimas	50	GRVD	8/10/21	WNV
Los Angeles	SGVA952	767	Cx. quinquefasciatus	San Dimas	50	GRVD	8/10/21	WNV
Los Angeles	SGVA956	785	Cx. quinquefasciatus	Walnut	26	GRVD	8/10/21	WNV
Madera	MADR12	261	Cx. tarsalis	Madera	50	CO2	8/3/21	WNV
Madera	MADR189	255	Cx. quinquefasciatus	Firebaugh	18	CO2	7/30/21	WNV
Madera	MADR189	267	Cx. tarsalis	Firebaugh	50	CO2	8/4/21	WNV
Madera	MADR192	241	Cx. tarsalis	Madera	50	CO2	7/28/21	WNV
Madera	MADR195	242	Cx. quinquefasciatus	Madera	50	CO2	7/28/21	WNV
Madera	MADR195	243	Cx. tarsalis	Madera	50	CO2	7/28/21	WNV
Madera	MADR195	276	Cx. tarsalis	Madera	50	CO2	8/3/21	WNV
Madera	MADR198	256	Cx. tarsalis	Madera	50	CO2	8/3/21	WNV
Madera	MADR204	258	Cx. tarsalis	Madera	50	CO2	8/3/21	WNV
Madera	MADR208	273	Cx. tarsalis	Madera	50	CO2	8/5/21	WNV
Madera	MADR299	288	Cx. tarsalis	Chowchilla	50	CO2	8/3/21	WNV
Madera	MADR299	289	Cx. quinquefasciatus	Chowchilla	50	CO2	8/3/21	WNV
Madera	MADR300	274	Cx. quinquefasciatus	Chowchilla	50	CO2	8/3/21	WNV
Madera	MADR3334	279	Cx. quinquefasciatus	Madera	50	CO2	8/5/21	WNV
Madera	MADR3334	280	Cx. tarsalis	Madera	50	CO2	8/5/21	WNV
Madera	MADR603	264	Cx. tarsalis	Firebaugh	20	CO2	8/4/21	WNV
Madera	MADR6348	265	Cx. tarsalis	Madera	50	CO2	8/4/21	WNV

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Madera	MADR688	248	Cx. tarsalis	Madera	42	CO2	7/29/21	WNV
Madera	MADR690	277	Cx. quinquefasciatus	Madera	17	CO2	8/5/21	WNV
Madera	MADR690	278	Cx. tarsalis	Madera	50	CO2	8/5/21	WNV
Madera	MADR692	245	Cx. quinquefasciatus	Madera	48	CO2	7/29/21	WNV
Madera	MADR692	283	Cx. tarsalis	Madera	21	CO2	8/6/21	WNV
Madera	MADR697	252	Cx. tarsalis	Firebaugh	30	CO2	7/30/21	WNV
Madera	MADR697	262	Cx. tarsalis	Firebaugh	21	CO2	8/4/21	WNV
Merced	MERC598442	301	Cx. tarsalis	Gustine	9	BGSENT	8/11/21	WNV
Placer	PLCR139	1215	Cx. tarsalis	Roseville	50	CO2	8/10/21	WNV
Placer	PLCR197802	1232	Cx. tarsalis	Elverta	50	CO2	8/10/21	WNV
Placer	PLCR197802	1233	Cx. tarsalis	Elverta	50	CO2	8/10/21	WNV
Placer	PLCR197802	1235	Cx. tarsalis	Elverta	36	CO2	8/10/21	WNV
Placer	PLCR516	1272	Cx. tarsalis	Roseville	24	CO2	8/11/21	WNV
Riverside	COAV0	2943	Cx. tarsalis	Indio	50	CO2	8/7/21	WNV
Riverside	COAV121	2932	Cx. tarsalis	Mecca	24	CO2	8/6/21	WNV
Riverside	COAV121	3061	Cx. tarsalis	Mecca	50	CO2	8/10/21	WNV
Riverside	COAV121	3062	Cx. tarsalis	Mecca	21	CO2	8/10/21	WNV
Riverside	COAV122	3069	Cx. tarsalis	Mecca	42	CO2	8/10/21	WNV
Riverside	COAV123	3070	Cx. tarsalis	Mecca	50	CO2	8/10/21	WNV
Riverside	COAV200	2900	Cx. tarsalis	Mecca	5	BGSENT	8/4/21	WNV
Riverside	COAV35	2941	Cx. tarsalis	Mecca	50	CO2	8/7/21	WNV
Riverside	COAV35	2942	Cx. tarsalis	Mecca	50	CO2	8/7/21	WNV
Riverside	COAV45	3063	Cx. tarsalis	Mecca	47	CO2	8/10/21	WNV
Riverside	COAV48	2946	Cx. tarsalis	Mecca	50	CO2	8/7/21	WNV
Riverside	COAV48	2947	Cx. tarsalis	Mecca	34	CO2	8/7/21	WNV
Riverside	COAV58	2871	Cx. tarsalis	North Shore	18	CO2	8/6/21	WNV
Riverside	COAV611	3064	Cx. tarsalis	Mecca	50	CO2	8/10/21	WNV
Sacramento	SAYO203031	3275	Cx. pipiens	Antelope	18	GRVD	8/6/21	WNV
Sacramento	SAYO213028	3249	Cx. pipiens	Carmichael	7	GRVD	8/6/21	WNV
Sacramento	SAYO214013	3246	Cx. pipiens	Carmichael	7	GRVD	8/6/21	WNV
Sacramento	SAYO214028	3296	Cx. pipiens	Carmichael	45	GRVD	8/6/21	WNV
Sacramento	SAYO214041	3289	Cx. pipiens	Carmichael	26	GRVD	8/6/21	WNV
Sacramento	SAYO233021	3313	Cx. tarsalis	Elk Grove	1	GRVD	8/10/21	WNV
Sacramento	SAYO243028	3169	Cx. pipiens	Elk Grove	13	CO2	8/6/21	WNV
Sacramento	SAYO243032	3136	Cx. tarsalis	Elk Grove	50	CO2	8/6/21	WNV
Sacramento	SAYO245002	3234	Cx. tarsalis	Wilton	39	CO2	8/6/21	WNV
Sacramento	SAYO254015	3194	Cx. pipiens	Galt	50	CO2	8/6/21	WNV
San Joaquin	SJCM8008	1328	Cx. tarsalis	Manteca	50	CO2	8/10/21	WNV
San Joaquin	SJCM8018	1335	Cx. tarsalis	Stockton	100	CO2	8/10/21	WNV
San Joaquin	SJCM8018	1339	Cx. tarsalis	Stockton	100	CO2	8/10/21	WNV
San Joaquin	SJCM8018	1340	Cx. tarsalis	Stockton	100	CO2	8/10/21	WNV
San Joaquin	SJCM8025	1387	Cx. pipiens	Stockton	17	CO2	8/10/21	WNV
San Joaquin	SJCM8027	1364	Cx. tarsalis	Stockton	50	CO2	8/10/21	WNV
San Joaquin	SJCM8027	1367	Cx. tarsalis	Stockton	50	CO2	8/10/21	WNV
San Joaquin	SJCM8027	1368	Cx. tarsalis	Stockton	50	CO2	8/10/21	WNV
San Joaquin	SJCM8045	1380	Cx. tarsalis	Thornton	18	CO2	8/10/21	WNV
San Joaquin	SJCM8056	1390	Cx. tarsalis	Manteca	50	CO2	8/10/21	WNV
San Joaquin	SJCM8056	1391	Cx. tarsalis	Manteca	41	CO2	8/10/21	WNV
San Joaquin	SJCM8056	1392	Cx. pipiens	Manteca	28	CO2	8/10/21	WNV
San Joaquin	SJCM8111	1333	Cx. tarsalis	Stockton	52	CO2	8/10/21	WNV
San Joaquin	SJCM8161	1382	Cx. pipiens	Ripon	50	CO2	8/10/21	WNV
San Joaquin	SJCM8198	1363	Cx. tarsalis	Stockton	8	CO2	8/10/21	WNV
San Joaquin	SJCM8199	1397	Cx. pipiens	Manteca	50	CO2	8/10/21	WNV
San Joaquin	SJCM8206	1377	Cx. tarsalis	Lodi	50	CO2	8/10/21	WNV

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San Joaquin	SJCM8206	1378	Cx. tarsalis	Lodi	36	CO2	8/10/21	WNV
San Joaquin	SJCM8208	1414	Cx. tarsalis	Lodi	50	CO2	8/12/21	WNV
San Joaquin	SJCM8208	1415	Cx. tarsalis	Lodi	50	CO2	8/12/21	WNV
San Joaquin	SJCM8208	1416	Cx. tarsalis	Lodi	50	CO2	8/12/21	WNV
San Joaquin	SJCM8208	1417	Cx. tarsalis	Lodi	50	CO2	8/12/21	WNV
San Joaquin	SJCM8208	1418	Cx. tarsalis	Lodi	14	CO2	8/12/21	WNV
San Joaquin	SJCM8208	1419	Cx. pipiens	Lodi	30	CO2	8/12/21	WNV
San Joaquin	SJCM8209	1421	Cx. pipiens	Lodi	23	CO2	8/12/21	WNV
San Joaquin	SJCM8219	1355	Cx. tarsalis	Stockton	50	CO2	8/10/21	WNV
San Joaquin	SJCM8230	1343	Cx. tarsalis	Thornton	50	CO2	8/10/21	WNV
San Joaquin	SJCM8230	1346	Cx. tarsalis	Thornton	26	CO2	8/10/21	WNV
San Joaquin	SJCM8233	1351	Cx. tarsalis	stockton	50	CO2	8/10/21	WNV
San Joaquin	SJCM8235	1427	Cx. pipiens	Escalon	50	CO2	8/12/21	WNV
San Joaquin	SJCM8300	1407	Cx. tarsalis	Manteca	6	CO2	8/12/21	WNV
San Joaquin	SJCM8300	1408	Cx. pipiens	Manteca	6	CO2	8/12/21	WNV
Shasta	SHAS10070	442	Cx. tarsalis	Shasta Lake City	12	CO2	8/11/21	WNV
Shasta	SHAS20040	448	Cx. tarsalis	Redding	15	CO2	8/11/21	WNV
Shasta	SHAS20050	431	Cx. tarsalis	Shingletown	14	CO2	8/10/21	WNV
Shasta	SHAS410	432	Cx. tarsalis	Cottonwood	23	CO2	8/10/21	WNV
Shasta	SHAS5034	449	Cx. pipiens		12	CO2	8/11/21	WNV
Stanislaus	EAST2002	21211	Cx. pipiens	Modesto	48	GRVD	8/4/21	WNV
Stanislaus	EAST2014	21199	Cx. pipiens	Modesto	50	GRVD	8/3/21	WNV
Stanislaus	EAST2021	21212	Cx. pipiens	Modesto	23	GRVD	8/4/21	WNV
Stanislaus	EAST2023	21214	Cx. pipiens	Modesto	35	GRVD	8/4/21	WNV
Stanislaus	TRLK21157	612	Cx. pipiens	Denair	50	CO2	8/5/21	WNV
Stanislaus	TRLK21170	662	Cx. pipiens	Ceres	50	CO2	8/10/21	WNV
Stanislaus	TRLK21170	663	Cx. pipiens	Ceres	50	CO2	8/10/21	WNV
Stanislaus	TRLK307	647	Cx. tarsalis	Grayson	50	CO2	8/10/21	WNV
Stanislaus	TRLK806	616	Cx. tarsalis	Grayson	50	CO2	8/10/21	WNV
Sutter	SUYA15	313	Cx. tarsalis	Robbins	22	REST	8/10/21	WNV
Sutter	SUYA15	324	Cx. tarsalis	Robbins	41	CO2	8/11/21	WNV
Sutter	SUYA44	317	Cx. tarsalis	Pleasant Grove	42	CO2	8/11/21	WNV
Tulare	DLNO164	93	Cx. quinquefasciatus	Ducor	15	GRVD	8/3/21	WNV
Tulare	DLNO84	99	Cx. quinquefasciatus	Terra Bella	50	CO2	8/5/21	WNV
Tulare	DLTA5	1170	Cx. quinquefasciatus	Dinuba	50	CO2	8/11/21	WNV
Tulare	DLTA6	1179	Cx. stigmatosoma	Dinuba	48	CO2	8/11/21	WNV
Tulare	DLTA6	1180	Cx. quinquefasciatus	Dinuba	50	CO2	8/11/21	WNV
Tulare	DLTA6407	1192	Cx. stigmatosoma	Dinuba	10	GRVD	8/11/21	WNV
Tulare	DLTA7	1188	Cx. quinquefasciatus	Dinuba	33	CO2	8/11/21	WNV
Tulare	DLTA73161	1166	Cx. quinquefasciatus	Traver	29	GRVD	8/10/21	WNV
Tulare	DLTA741842	1114	Cx. quinquefasciatus	London	50	CO2	8/5/21	WNV
Tulare	DLTA752842	1142	Cx. quinquefasciatus	Ivanhoe	50	CO2	8/10/21	WNV
Tulare	DLTA752842	1154	Cx. tarsalis	Ivanhoe	27	CO2	8/10/21	WNV
Tulare	DLTA841423	1209	Cx. quinquefasciatus	Visalia	50	CO2	8/12/21	WNV
Tulare	DLTA841543	1215	Cx. quinquefasciatus	Visalia	50	CO2	8/12/21	WNV
Tulare	DLTA841543	1216	Cx. quinquefasciatus	Visalia	50	CO2	8/12/21	WNV
Tulare	DLTA841543	1217	Cx. quinquefasciatus	Visalia	50	CO2	8/12/21	WNV
Tulare	DLTA841543	1220	Cx. quinquefasciatus	Visalia	50	CO2	8/12/21	WNV
Tulare	DLTA841543	1221	Cx. quinquefasciatus	Visalia	50	CO2	8/12/21	WNV
Tulare	DLTA841543	1223	Cx. quinquefasciatus	Visalia	50	CO2	8/12/21	WNV
Tulare	DLTA842113	1128	Cx. quinquefasciatus	Visalia	50	CO2	8/6/21	WNV
Tulare	DLTA842113	1131	Cx. tarsalis	Visalia	25	CO2	8/6/21	WNV
Tulare	DLTA94031	1134	Cx. quinquefasciatus	Visalia	17	BGSENT	8/6/21	WNV
Tulare	DLTA95064	1121	Cx. quinquefasciatus	Visalia	12	GRVD	8/6/21	WNV

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Tulare	TLRE192425	186	Cx. quinquefasciatus	Trulare	50	GRVD	8/5/21	WNV
Tulare	TLRE192435	172	Cx. quinquefasciatus	Tulare	25	GRVD	8/4/21	WNV
Tulare	TLRE192436	170	Cx. quinquefasciatus	Tulare	50	GRVD	8/4/21	WNV
Tulare	TLRE192517	188	Cx. quinquefasciatus	Trulare	50	GRVD	8/6/21	WNV
Tulare	TLRE202402	165	Cx. quinquefasciatus	Tulare	20	GRVD	8/3/21	WNV
Tulare	TLRE202402	171	Cx. quinquefasciatus	Tulare	50	GRVD	8/4/21	WNV
Tulare	TLRE202402	185	Cx. quinquefasciatus	Tulare	50	GRVD	8/5/21	WNV
Tulare	TLRE202402	189	Cx. quinquefasciatus	Tulare	50	GRVD	8/6/21	WNV
Tulare	TLRE202402	190	Cx. quinquefasciatus	Tulare	19	GRVD	8/6/21	WNV
Tulare	TLRE202404	158	Cx. quinquefasciatus	Tulare	41	GRVD	8/3/21	WNV
Tulare	TLRE202409	167	Cx. quinquefasciatus	Tulare	50	GRVD	8/3/21	WNV
Tulare	TLRE202409	183	Cx. quinquefasciatus	Tulare	42	GRVD	8/4/21	WNV
Tulare	TLRE202411	166	Cx. quinquefasciatus	Tulare	46	GRVD	8/3/21	WNV
Tulare	TLRE202412	169	Cx. quinquefasciatus	Tulare	50	GRVD	8/4/21	WNV
Tulare	TLRE202412	178	Cx. quinquefasciatus	Tulare	38	GRVD	8/4/21	WNV
Tulare	TLRE202412	179	Cx. quinquefasciatus	Tulare	50	GRVD	8/4/21	WNV
Tulare	TLRE202412	180	Cx. quinquefasciatus	Tulare	50	GRVD	8/4/21	WNV
Tulare	TLRE202415	184	Cx. quinquefasciatus	Tulare	50	GRVD	8/4/21	WNV
Tulare	TLRE202507	162	Cx. quinquefasciatus	Tulare	38	GRVD	8/3/21	WNV
Tulare	TLRE202507	177	Cx. quinquefasciatus	Tulare	50	GRVD	8/4/21	WNV
Tulare	TLRE202518	175	Cx. quinquefasciatus	Tulare	50	GRVD	8/4/21	WNV
Yolo	SAYO115012	3395	Cx. tarsalis	Woodland	50	CO2	8/10/21	WNV
Yuba	SUYA37	309	Cx. tarsalis	Marysville	29	CO2	8/10/21	WNV
Yuba	SUYA4	322	Cx. tarsalis	Wheatland	46	CO2	8/11/21	WNV
Yuba	SUYA55	319	Cx. tarsalis	Linda	40	CO2	8/11/21	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03
Butte	BUCO0001	Chico	8/3/21	WNV	2537		
Butte	BUCO0003	Oroville	8/3/21	WNV	2548	2551	2552
Butte	BUCO0005	Honcut	8/3/21	WNV	2561	2565	
Butte	BUCO0007	Chico	8/3/21	WNV	2576		
Lake	LAKE1000	Upper Lake	8/3/21	WNV	1109		
Merced	MERC0001	Merced	8/6/21	WNV	1422		
Merced	MERC0002	Dos Palos	8/6/21	WNV	1426	1428	1430
Merced	MERC0501	El Nido	8/6/21	WNV	1408	1411	1412
Merced	MERC0502	Hilmar	8/6/21	WNV	1441		
Sutter	SUYA0030	Live Oak	8/5/21	WNV	1622	1626	1627
Tehama	TEHA0066	Cottonwood	8/4/21	WNV	1663		

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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 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.

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.

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: Tina.Feiszli@cdph.ca.gov.