

California Arbovirus Surveillance Bulletin #15

Week 30 Friday, July 24, 2020



Weekly Update

Humans

Two human cases of West Nile virus (WNV) illness were reported this week from Madera (1) and Stanislaus (1) counties; this is the first WNV case reported from Madera County this year. In 2020, four human cases of WNV illness have been reported from three counties: Los Angeles (1), Madera (1), and Stanislaus (2). Of the four cases, one (25%) had neuroinvasive illness; no fatalities have been reported. In addition to the four cases, one asymptomatic WNV-positive blood donor has been reported from Stanislaus County. At this time last year, two human WNV cases had been reported from two counties.

Dead Birds

Five WNV positive dead birds were reported this week from Sacramento County. In 2020, a total of 46 WNV positive dead birds have been reported from 9 counties. At this time last year, 34 WNV positive dead birds had been reported from 8 counties.

Mosquito Pools

West Nile virus

A total of 121 WNV positive mosquito pools were reported this week from 14 counties: Fresno (14), Imperial (2), Kern (4), Kings (4), Los Angeles (16), Orange (14), Placer (2), Riverside (2), Sacramento (9), San Joaquin (20), Shasta (2), Stanislaus (30), Sutter (1), and Yolo (1). **This is the first detection of WNV activity in Placer and Shasta counties this year.** In 2020, a total of 372 WNV positive mosquito pools have been reported from 20 counties. At this time last year, 1,094 WNV positive mosquito pools had been reported from 19 counties.

St. Louis encephalitis virus

A total of 23 St. Louis encephalitis virus (SLEV) positive mosquito pools were reported this week from 4 counties: Fresno (6), Imperial (2), Kern (1), and Riverside (14). In 2020, a total of 111 SLEV positive mosquito pools have been reported from Fresno (28), Imperial (9), Kern (5), and Riverside (69) counties. At this time last year, 61 SLEV positive mosquito pools had been reported from 4 counties.

Sentinel Chickens

A total of 9 WNV positive chickens were reported this week from 2 counties: Butte (2) and Merced (7). **This is the first detection of WNV activity in Butte County this year.** In 2020, a total of 10 WNV seroconversions have been reported from 2 counties. At this time last year, no seroconversions had been reported.

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2019 & 2020 YTD West Nile Virus Comparisons		
	2019	2020
Total # Dead Bird Reports	3,216	2,907
# Positive Counties	21	23
# Human Cases	2	4
# Positive Dead Birds / # Tested	34 / 974	46 / 720
# Positive Mosquito Pools / # Tested	1,094 / 21,284	372 / 18,177
# Seroconversions / # Tested	0 / 4,417	10 / 3,081

YTD WNV Activity by Element and County, 2020					
County	Humans*	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Amador		1			
Butte					2
Fresno			4	52	
Imperial				3	
Kern				7	
Kings				7	
Lake				1	
Los Angeles	1		6	41	
Madera	1			2	
Merced			1	10	8
Napa			1		
Orange			1	20	
Placer				2	
Riverside				29	
Sacramento			23	19	
San Diego				1	
San Joaquin			1	34	
Santa Clara			5	7	
Shasta				2	
Stanislaus	2		4	119	
Sutter				4	
Tulare				10	
Yolo				2	
Totals	4	1	46	372	10

**Does not include asymptomatic infections*

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TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Human Cases	Week	2	0	0
	YTD	4	0	0

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	49	5
	YTD	720	46

Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	297	9	0	0
	YTD	3,081	10	0	0

Mosquitoes

		Positive / Total Tested						
Mosquito Pools	Week	WNV	SLEV	WEEV	CHIK	DENV	ZIKA	
		Week	121 / 1,714	23 / 1,512	0 / 1,401	0 / 21	0 / 21	0 / 21
		YTD	372 / 18,177	111 / 17,752	0 / 16,647	0 / 118	0 / 118	0 / 118

NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	California Scrub-Jay	7/19/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	7/15/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	Yellow-billed Magpie	7/21/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	California Scrub-Jay	7/15/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Yellow-billed Magpie	7/19/2020	WNV

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Fresno	CNSL1050	715	Cx. quinquefasciatus	Fresno	12	GRVD	7/15/2020	WNV
Fresno	CNSL1270	405	Cx. quinquefasciatus	Fresno	40	GRVD	7/14/2020	SLEV
Fresno	CNSL1478	403	Cx. quinquefasciatus	Clovis	37	GRVD	7/14/2020	SLEV
Fresno	CNSL1521	407	Cx. quinquefasciatus	Fresno	50	GRVD	7/15/2020	SLEV
Fresno	CNSL1521	407	Cx. quinquefasciatus	Fresno	50	GRVD	7/15/2020	WNV
Fresno	CNSL1566	727	Cx. quinquefasciatus	Fresno	17	GRVD	7/17/2020	SLEV
Fresno	CNSL1700	411	Cx. quinquefasciatus	Clovis	19	GRVD	7/15/2020	WNV

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Fresno	CNSL1760	716	Cx. quinquefasciatus	Fresno	50	GRVD	7/15/2020	SLEV
Fresno	CNSL1760	716	Cx. quinquefasciatus	Fresno	50	GRVD	7/15/2020	WNV
Fresno	CNSL1857	426	Cx. quinquefasciatus	Clovis	21	GRVD	7/17/2020	WNV
Fresno	CNSL1973	408	Cx. quinquefasciatus	Fresno	50	GRVD	7/15/2020	WNV
Fresno	CNSL3402	423	Cx. stigmatosoma	Kingsburg	50	CO2	7/17/2020	WNV
Fresno	CNSL8041	718	Cx. quinquefasciatus	Fresno	23	GRVD	7/15/2020	WNV
Fresno	CNSL8127	714	Cx. quinquefasciatus	Fresno	48	GRVD	7/14/2020	WNV
Fresno	CNSL9060	404	Cx. quinquefasciatus	Clovis	50	GRVD	7/14/2020	SLEV
Fresno	CNSL9208	418	Cx. quinquefasciatus	Clovis	50	GRVD	7/16/2020	WNV
Fresno	CNSL9209	416	Cx. quinquefasciatus	Clovis	34	GRVD	7/16/2020	WNV
Fresno	FRWS1101	153	Cx. tarsalis	Dos Palos	50	CO2	7/21/2020	WNV
Fresno	FRWS3104	146	Cx. tarsalis	Firebaugh	30	CO2	7/21/2020	WNV
Fresno	FRWS5101	160	Cx. tarsalis	Mendota	35	CO2	7/21/2020	WNV
Imperial	IMPR121	67	Cx. quinquefasciatus	Niland	11	BGSENT	7/20/2020	WNV
Imperial	IMPR59	76	Cx. quinquefasciatus	El Centro	28	BGSENT	7/20/2020	SLEV
Imperial	IMPR59	76	Cx. quinquefasciatus	El Centro	28	BGSENT	7/20/2020	WNV
Imperial	IMPR59	80	Cx. quinquefasciatus	El Centro	50	BGSENT	7/21/2020	SLEV
Kern	DLNO139	112	Cx. quinquefasciatus	McFarland	19	BGSENT	7/16/2020	WNV
Kern	KERN1144	338	Cx. tarsalis	Bakersfield	40	CO2	7/14/2020	WNV
Kern	KERN2015	357	Cx. quinquefasciatus	Bakersfield	43	GRVD	7/17/2020	SLEV
Kern	KERN2016	356	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/17/2020	WNV
Kern	KERN83	341	Cx. tarsalis	Arvin	50	CO2	7/14/2020	WNV
Kings	KNGS3000	281	Cx. tarsalis		50	CO2	7/16/2020	WNV
Kings	KNGS3080	285	Cx. tarsalis	Lemoore	50	CO2	7/16/2020	WNV
Kings	KNGS3108	273	Cx. tarsalis	Island	50	CO2	7/14/2020	WNV
Kings	KNGS3108	274	Cx. tarsalis	Island	50	CO2	7/14/2020	WNV
Los Angeles	GRLA1002	330	Cx. quinquefasciatus	Los Angeles	30	GRVD	7/15/2020	WNV
Los Angeles	GRLA2101	329	Cx. quinquefasciatus	Santa Fe Springs	24	GRVD	7/15/2020	WNV
Los Angeles	GRLA2247	338	Cx. quinquefasciatus	Pico Rivera	50	GRVD	7/15/2020	WNV
Los Angeles	GRLA2419	5438	Cx. quinquefasciatus	Panorama City	50	GRVD	7/15/2020	WNV
Los Angeles	GRLA2574	5432	Cx. quinquefasciatus	Sherman Oaks	46	GRVD	7/15/2020	WNV
Los Angeles	GRLA2651	5433	Cx. quinquefasciatus	Encino	17	CO2	7/15/2020	WNV
Los Angeles	GRLA2655	5434	Cx. quinquefasciatus	Encino	49	BGSENT	7/15/2020	WNV
Los Angeles	GRLA2936	5430	Cx. quinquefasciatus	Burbank	50	GRVD	7/14/2020	WNV
Los Angeles	GRLA2937	5429	Cx. quinquefasciatus	Burbank	50	GRVD	7/14/2020	WNV
Los Angeles	GRLA2953	332	Cx. quinquefasciatus	Santa Fe Springs	24	GRVD	7/15/2020	WNV
Los Angeles	GRLA3034	5440	Cx. quinquefasciatus	North Hills	50	BGSENT	7/15/2020	WNV
Los Angeles	GRLA3040	331	Cx. quinquefasciatus	La Mirada	50	GRVD	7/15/2020	WNV
Los Angeles	GRLA3046	319	Cx. quinquefasciatus	Bellflower	50	GRVD	7/14/2020	WNV
Los Angeles	GRLA3047	318	Cx. quinquefasciatus	Downey	50	GRVD	7/14/2020	WNV
Los Angeles	GRLA3049	327	Cx. quinquefasciatus	Downey	50	GRVD	7/14/2020	WNV
Los Angeles	GRLA3054	326	Cx. quinquefasciatus	Bell Gardens	50	GRVD	7/14/2020	WNV
Orange	ORCO1008	2713	Cx. quinquefasciatus	Fullerton	30	GRVD	7/22/2020	WNV
Orange	ORCO1008	2717	Cx. quinquefasciatus	Fullerton	51	GRVD	7/22/2020	WNV
Orange	ORCO1020	2377	Cx. quinquefasciatus	Seal Beach	50	GRVD	7/8/2020	WNV
Orange	ORCO170	2300	Cx. quinquefasciatus	Anaheim	42	GRVD	7/7/2020	WNV
Orange	ORCO170	2301	Cx. quinquefasciatus	Anaheim	42	GRVD	7/7/2020	WNV
Orange	ORCO210	2365	Cx. quinquefasciatus	Garden Grove	8	CO2	7/8/2020	WNV
Orange	ORCO218	2631	Cx. quinquefasciatus	Anaheim	40	GRVD	7/21/2020	WNV
Orange	ORCO218	2635	Cx. quinquefasciatus	Anaheim	37	GRVD	7/21/2020	WNV

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Orange	ORCO218	2637	Cx. quinquefasciatus	Anaheim	36	GRVD	7/21/2020	WNV
Orange	ORCO218	2686	Cx. quinquefasciatus	Anaheim	34	GRVD	7/21/2020	WNV
Orange	ORCO219	2759	Cx. quinquefasciatus	Irvine	5	GRVD	7/22/2020	WNV
Orange	ORCO236	2289	Cx. quinquefasciatus	Garden Grove	44	GRVD	7/7/2020	WNV
Orange	ORCO238	2336	Cx. quinquefasciatus	Anaheim	37	GRVD	7/8/2020	WNV
Orange	ORCO82	2267	Cx. quinquefasciatus	Cypress	30	GRVD	7/7/2020	WNV
Placer	PLCR17	873	Cx. tarsalis	Sheridan	50	CO2	7/22/2020	WNV
Placer	PLCR668	819	Cx. tarsalis	Elverta	50	CO2	7/21/2020	WNV
Riverside	COAV0	3086	Cx. quinquefasciatus	Indio	25	BGSENT	7/17/2020	SLEV
Riverside	COAV0	3093	Cx. quinquefasciatus	Indio	50	BGSENT	7/17/2020	SLEV
Riverside	COAV0	3094	Cx. quinquefasciatus	Indio	36	BGSENT	7/17/2020	SLEV
Riverside	COAV0	3120	Cx. quinquefasciatus	Indio	50	GRVD	7/21/2020	SLEV
Riverside	COAV0	3121	Cx. quinquefasciatus	Indio	45	GRVD	7/21/2020	SLEV
Riverside	COAV0	3122	Cx. quinquefasciatus	Indio	27	GRVD	7/21/2020	SLEV
Riverside	COAV0	3131	Cx. quinquefasciatus	Indio	34	GRVD	7/22/2020	SLEV
Riverside	COAV0	3189	Cx. quinquefasciatus	Indio	5	BGSENT	7/23/2020	WNV
Riverside	COAV0	3193	Cx. quinquefasciatus	Indio	50	GRVD	7/23/2020	SLEV
Riverside	COAV0	3194	Cx. quinquefasciatus	Indio	26	GRVD	7/23/2020	SLEV
Riverside	COAV320	3185	Cx. quinquefasciatus	Palm Desert	6	GRVD	7/23/2020	WNV
Riverside	COAV344	3084	Cx. quinquefasciatus	La Quinta	22	BGSENT	7/17/2020	SLEV
Riverside	COAV538	3148	Cx. tarsalis	Thermal	50	CO2	7/21/2020	SLEV
Riverside	COAV58	3053	Cx. tarsalis	North Shore	50	CO2	7/17/2020	SLEV
Riverside	COAV58	3054	Cx. tarsalis	North Shore	50	CO2	7/17/2020	SLEV
Riverside	COAV765	3133	Cx. quinquefasciatus	Coachella	8	BGSENT	7/21/2020	SLEV
Sacramento	SAYO201006	2990	Cx. tarsalis	Sacramento	50	CO2	7/21/20	WNV
Sacramento	SAYO201006	2992	Cx. tarsalis	Sacramento	50	CO2	7/21/20	WNV
Sacramento	SAYO204020	2948	Cx. pipiens	Sacramento	16	GRVD	7/21/20	WNV
Sacramento	SAYO204027	2416	Cx. pipiens	Fair Oaks	10	GRVD	7/10/2020	WNV
Sacramento	SAYO204387	2721	Cx. tarsalis	Citrus Heights	50	BGSENT	7/15/2020	WNV
Sacramento	SAYO213017	2940	Cx. pipiens	Sacramento	34	GRVD	7/21/2020	WNV
Sacramento	SAYO214009	2415	Cx. pipiens	Carmichael	14	GRVD	7/10/2020	WNV
Sacramento	SAYO214020	2768	Cx. pipiens	Rancho Cordova	20	GRVD	7/17/2020	WNV
Sacramento	SAYO235021	2901	Cx. pipiens	Elk Grove	1	GRVD	7/21/2020	WNV
San Joaquin	SJCM8018	959	Cx. tarsalis	Stockton	50	CO2	7/21/20	WNV
San Joaquin	SJCM8018	964	Cx. tarsalis	Stockton	50	CO2	7/21/20	WNV
San Joaquin	SJCM8018	965	Cx. tarsalis	Stockton	50	CO2	7/21/20	WNV
San Joaquin	SJCM8018	966	Cx. tarsalis	Stockton	50	CO2	7/21/20	WNV
San Joaquin	SJCM8018	967	Cx. tarsalis	Stockton	50	CO2	7/21/20	WNV
San Joaquin	SJCM8018	968	Cx. tarsalis	Stockton	50	CO2	7/21/20	WNV
San Joaquin	SJCM8056	1016	Cx. tarsalis	Manteca	37	CO2	7/21/20	WNV
San Joaquin	SJCM8111	981	Cx. tarsalis	Stockton	46	CO2	7/21/20	WNV
San Joaquin	SJCM8161	1029	Cx. pipiens	Ripon	28	CO2	7/21/20	WNV
San Joaquin	SJCM8199	998	Cx. tarsalis	Manteca	50	CO2	7/21/20	WNV
San Joaquin	SJCM8199	999	Cx. tarsalis	Manteca	50	CO2	7/21/20	WNV
San Joaquin	SJCM8199	1000	Cx. tarsalis	Manteca	50	CO2	7/21/20	WNV
San Joaquin	SJCM8199	1001	Cx. tarsalis	Manteca	35	CO2	7/21/20	WNV
San Joaquin	SJCM8199	1002	Cx. pipiens	Manteca	47	CO2	7/21/20	WNV
San Joaquin	SJCM8206	1025	Cx. tarsalis	Lodi	50	CO2	7/21/20	WNV
San Joaquin	SJCM8219	979	Cx. pipiens	Stockton	50	CO2	7/21/20	WNV
San Joaquin	SJCM8232	1005	Cx. tarsalis	Oakdale	50	CO2	7/21/20	WNV

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San Joaquin	SJCM8232	1007	Cx. tarsalis	Oakdale	50	CO2	7/21/20	WNV
San Joaquin	SJCM8232	1008	Cx. tarsalis	Oakdale	50	CO2	7/21/20	WNV
San Joaquin	SJCM8232	1010	Cx. pipiens	Oakdale	14	CO2	7/21/20	WNV
Shasta	SHAS242	257	Cx. tarsalis	Cottonwood	32	CO2	7/21/20	WNV
Shasta	SHAS305	247	Cx. tarsalis	Anderson	18	CO2	7/21/20	WNV
Stanislaus	EAST1025	20247	Cx. tarsalis	Modesto	46	CO2	7/14/2020	WNV
Stanislaus	EAST1031	20265	Cx. tarsalis	Kinghts Ferry	44	CO2	7/17/2020	WNV
Stanislaus	EAST2002	20250	Cx. tarsalis	Modesto	21	CO2	7/14/2020	WNV
Stanislaus	EAST2009	20256	Cx. pipiens	Modesto	13	CO2	7/15/2020	WNV
Stanislaus	TRLK1107	468	Cx. pipiens	Denair	50	CO2	7/21/20	WNV
Stanislaus	TRLK1202	494	Cx. pipiens	Hughson	50	CO2	7/21/20	WNV
Stanislaus	TRLK1225	451	Cx. pipiens	Turlock	10	CO2	7/21/20	WNV
Stanislaus	TRLK1612	453	Cx. tarsalis	Turlock	33	CO2	7/21/20	WNV
Stanislaus	TRLK17131	449	Cx. pipiens	Turlock	17	CO2	7/21/20	WNV
Stanislaus	TRLK17152	428	Cx. pipiens	Denair	50	CO2	7/16/20	WNV
Stanislaus	TRLK17152	429	Cx. pipiens	Denair	50	CO2	7/16/20	WNV
Stanislaus	TRLK17157	433	Cx. pipiens	Turlock	37	CO2	7/16/20	WNV
Stanislaus	TRLK1905	491	Cx. pipiens	Denair	46	CO2	7/21/20	WNV
Stanislaus	TRLK1906	490	Cx. pipiens	Hughson	50	CO2	7/21/20	WNV
Stanislaus	TRLK19414	497	Cx. pipiens	Turlock	47	CO2	7/21/20	WNV
Stanislaus	TRLK20253	419	Cx. pipiens	Turlock	4	CO2	7/16/20	WNV
Stanislaus	TRLK20255	421	Cx. pipiens	Turlock	19	CO2	7/16/20	WNV
Stanislaus	TRLK432	454	Cx. pipiens	Turlock	50	CO2	7/21/20	WNV
Stanislaus	TRLK432	455	Cx. pipiens	Turlock	50	CO2	7/21/20	WNV
Stanislaus	TRLK432	456	Cx. pipiens	Turlock	50	CO2	7/21/20	WNV
Stanislaus	TRLK432	458	Cx. pipiens	Turlock	50	CO2	7/21/20	WNV
Stanislaus	TRLK432	459	Cx. pipiens	Turlock	50	CO2	7/21/20	WNV
Stanislaus	TRLK432	460	Cx. tarsalis	Turlock	50	CO2	7/21/20	WNV
Stanislaus	TRLK432	461	Cx. tarsalis	Turlock	50	CO2	7/21/20	WNV
Stanislaus	TRLK432	463	Cx. tarsalis	Turlock	50	CO2	7/21/20	WNV
Stanislaus	TRLK613	483	Cx. tarsalis	Hickman	50	CO2	7/14/20	WNV
Stanislaus	TRLK703	434	Cx. pipiens	Turlock	50	CO2	7/16/20	WNV
Stanislaus	TRLK703	435	Cx. pipiens	Turlock	50	CO2	7/16/20	WNV
Stanislaus	TRLK703	436	Cx. pipiens	Turlock	50	CO2	7/16/20	WNV
Stanislaus	TRLK703	438	Cx. tarsalis	Turlock	35	CO2	7/16/20	WNV
Sutter	SUYA15	274	Cx. tarsalis	Robbins	50	CO2	7/21/20	WNV
Yolo	SAYO124007	2829	Cx. tarsalis	Woodland	50	CO2	7/17/2020	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03
Butte	BUCO0003	Oroville	7/14/2020	WNV	1835		
Butte	BUCO0006	Chico	7/14/2020	WNV	1855		
Merced	MERC0001	Merced	7/17/2020	WNV	1925		
Merced	MERC1302	Los Banos	7/17/2020	WNV	1956	1961	
Merced	MERC0501	El Nido	7/17/2020	WNV	1944		
Merced	MERC0502	Hilmar	7/17/2020	WNV	1952	1954	1955

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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.

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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