

## California Arbovirus Surveillance Bulletin #19

Week 35 Friday, September 3, 2021



### Weekly Update

#### **Humans**

A total of 6 human cases of West Nile virus (WNV) illness were reported this week from 5 counties: Butte (2), Glenn (1), Madera (1), San Joaquin (1), and Yolo (1). **These are the first human WNV cases reported from Madera and Yolo counties this year.** In 2021, a total of 32 WNV human cases have been reported from 14 counties. Of the 32 cases, 16 (50%) had neuroinvasive illness and 2 (6.3%) were fatal. The median age of the cases was 58 years, and 18 (56%) were male. Dates of symptom onset ranged from March 31 to August 17. In addition to the 32 cases, 8 asymptomatic WNV infections have been reported from Butte (1), Kern (1), Kings (2), Los Angeles (2), San Bernardino (1), and San Joaquin (1) counties. At this time last year, 35 WNV cases had been reported from 10 counties.

#### **Dead Birds**

A total of 5 WNV positive dead birds were reported this week from 3 counties: Los Angeles (3), Sacramento (1), and San Joaquin (1). In 2021, 160 WNV positive dead birds have been reported from 16 counties. At this time last year, 142 WNV positive dead birds had been reported from 17 counties.

#### **Mosquito Pools**

##### West Nile virus

A total of 164 WNV positive mosquito pools were reported this week from 17 counties: Butte (1), Contra Costa (1), Fresno (7), Kern (4), Los Angeles (29), Madera (5), Orange (7), Placer (4), Riverside (7), Sacramento (14), San Joaquin (29), Shasta (3), Solano (4), Stanislaus (27), Sutter (1), Tulare (15), and Yolo (6). In 2021, 1,646 WNV positive mosquito pools have been reported from 24 counties. At this time last year, 1,420 WNV positive mosquito pools had been reported from 26 counties.

##### St. Louis encephalitis virus

No new positives were reported this week. In 2021, 19 St. Louis encephalitis virus (SLEV) positive mosquito pools have been reported from Fresno (1), Imperial (3), and Riverside (15) counties. At this time last year, 268 SLEV positive mosquito pools had been reported from 8 counties.

#### **Sentinel Chickens**

A total of 2 WNV positive chickens were reported this week from Tulare County. In 2021, 45 WNV positive chickens have been reported from 9 counties. At this time last year, 41 WNV positive chickens had been reported from 6 counties.

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*Website Information:* For updated information on WNV in California, please visit the California WNV website, [www.westnile.ca.gov](http://www.westnile.ca.gov), or the California Vectorborne Disease Surveillance System website, [www.maps.calsurv.org](http://www.maps.calsurv.org). For national information on WNV and other arboviruses, please visit the CDC websites: [www.cdc.gov](http://www.cdc.gov) and [www.cdc.gov/arbovet/maps/ADB\\_Diseases\\_Map/index.html](http://www.cdc.gov/arbovet/maps/ADB_Diseases_Map/index.html)

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<b>YTD WNV Activity by Element and County, 2021</b>					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Butte	10		2	77	19
Contra Costa			1	5	
Fresno	3	2		194	
Glenn	2				
Kern	2			81	
Kings		1		26	
Lake				2	2
Los Angeles	1		32	158	
Madera	1			111	
Merced	2	1	1	5	14
Nevada			1		
Orange				22	
Placer			3	55	
Riverside				81	
Sacramento		2	86	73	
San Bernardino			1	7	
San Joaquin	2		16	295	
San Luis Obispo	2				
Santa Clara				2	
Shasta	1			28	1
Solano	1		2	12	
Sonoma			1	1	
Stanislaus	3		2	113	
Sutter			1	17	3
Tehama					1
Tulare	1		7	242	3
Ventura			1		
Yolo	1		3	28	1
Yuba				11	1
<b>Totals</b>	<b>32</b>	<b>6</b>	<b>160</b>	<b>1,646</b>	<b>45</b>

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2020 & 2021 YTD West Nile Virus Comparisons		
	2020	2021
Total # Dead Bird Reports	3,820	4,041
# Positive Counties	29	29
# Human Cases	35	32
# Positive Dead Birds / # Tested	142 / 1,042	160 / 1,270
# Positive Mosquito Pools / # Tested	1,420 / 27, 078	1,646 / 25,963
# Seroconversions / # Tested	41 / 4,334	45 / 4,104

### TESTING SUMMARIES

#### Humans

		WNV	SLEV	WEEV
Human Cases	Week	6	0	0
	YTD	32	0	0

#### Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	41	5
	YTD	1,270	160

#### Sentinel Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	195	2	0	0
	YTD	4,104	45	0	0

#### Mosquitoes

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Mosquito Pools	Week	164 / 1,305	0 / 1,260	0 / 1,098	0 / 59	0 / 59	0 / 59
	YTD	1,646 / 25,963	19 / 24,136	0 / 22,212	0 / 439	0 / 439	0 / 439

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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	Long Beach	90808	American Crow	8/24/2021	WNV
Los Angeles	Los Angeles Co West VCD	Torrance	90504	Unknown - Crow or Raven	8/26/2021	WNV
Los Angeles	San Gabriel Valley MVCD	West Covina	91790	American Crow	8/30/2021	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	8/29/2021	WNV
San Joaquin	San Joaquin Co MVCD	Manteca	95336	House Finch	8/28/2021	WNV

#### Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO22	352	Cx. tarsalis	Oroville	50	CO2	8/24/2021	WNV
Contra Costa	CNTR8202	1518	Cx. pipiens	Discovery Bay	50	CO2	8/31/2021	WNV
Fresno	CNSL3241	736	Cx. quinquefasciatus	Reedley	50	GRVD	8/26/2021	WNV
Fresno	CNSL3471	732	Cx. quinquefasciatus	Reedley	50	GRVD	8/24/2021	WNV
Fresno	CNSL9010	734	Cx. quinquefasciatus	Clovis	12	GRVD	8/26/2021	WNV
Fresno	CNSL9223	733	Cx. quinquefasciatus	Fresno	41	GRVD	8/24/2021	WNV
Fresno	FRNO112	471	Cx. quinquefasciatus	Fresno	50	GRVD	8/26/2021	WNV
Fresno	FRNO249	473	Cx. tarsalis	Fresno	10	CO2	8/26/2021	WNV
Fresno	FRWS400003	281	Cx. quinquefasciatus	Mendota	50	GRVD	8/31/2021	WNV
Kern	KERN111	394	Cx. tarsalis	Arvin	50	CO2	8/24/2021	WNV
Kern	KERN2031	400	Cx. quinquefasciatus	Bakersfield	24	GRVD	8/26/2021	WNV
Kern	KERN3030	395	Cx. quinquefasciatus	Shafter	22	CO2	8/24/2021	WNV
Kern	KERN3030	396	Cx. tarsalis	Shafter	34	CO2	8/24/2021	WNV
Los Angeles	GRLA2097	567	Cx. quinquefasciatus	La Mirada	50	GRVD	8/26/2021	WNV
Los Angeles	GRLA2268	573	Cx. quinquefasciatus	Cerritos	44	GRVD	8/26/2021	WNV
Los Angeles	GRLA2278	564	Cx. quinquefasciatus	Long Beach	50	BGSENT	8/25/2021	WNV
Los Angeles	GRLA2724	5614	Cx. quinquefasciatus	Winnetka	50	GRVD	8/25/2021	WNV
Los Angeles	GRLA2953	569	Cx. quinquefasciatus	Santa Fe Springs	50	GRVD	8/26/2021	WNV
Los Angeles	GRLA2955	571	Cx. quinquefasciatus	Cerritos	50	GRVD	8/26/2021	WNV
Los Angeles	GRLA2995	5612	Cx. quinquefasciatus	Woodland Hills	34	GRVD	8/25/2021	WNV
Los Angeles	GRLA3036	5617	Cx. quinquefasciatus	Canoga Park	50	GRVD	8/25/2021	WNV
Los Angeles	GRLA3038	5625	Cx. quinquefasciatus	Valley Village	45	GRVD	8/26/2021	WNV
Los Angeles	GRLA3041	572	Cx. quinquefasciatus	Artesia	50	GRVD	8/26/2021	WNV
Los Angeles	GRLA3046	548	Cx. quinquefasciatus	Bellflower	50	GRVD	8/24/2021	WNV
Los Angeles	GRLA3059	550	Cx. quinquefasciatus	Paramount	50	GRVD	8/24/2021	WNV
Los Angeles	GRLA3060	570	Cx. quinquefasciatus	Norwalk	50	GRVD	8/26/2021	WNV
Los Angeles	GRLA3069	5626	Cx. quinquefasciatus	Valley Village	29	GRVD	8/26/2021	WNV
Los Angeles	SGVA1000	890	Cx. quinquefasciatus	Azusa	50	GRVD	9/1/2021	WNV
Los Angeles	SGVA1216	855	Cx. quinquefasciatus	Covina	50	GRVD	8/31/2021	WNV
Los Angeles	SGVA1221	854	Cx. quinquefasciatus	Covina	32	GRVD	8/31/2021	WNV
Los Angeles	SGVA15	885	Cx. quinquefasciatus	Glendora	50	GRVD	9/1/2021	WNV
Los Angeles	SGVA286	862	Cx. quinquefasciatus	Baldwin Park	50	GRVD	8/31/2021	WNV
Los Angeles	SGVA445	869	Cx. quinquefasciatus	Rosemead	50	GRVD	8/31/2021	WNV
Los Angeles	SGVA458	884	Cx. quinquefasciatus	Covina	50	GRVD	9/1/2021	WNV

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Los Angeles	SGVA466	879	Cx. quinquefasciatus	Pasadena	32	GRVD	8/31/2021	WNV
Los Angeles	SGVA475	872	Cx. quinquefasciatus	Temple City	50	GRVD	8/31/2021	WNV
Los Angeles	SGVA477	856	Cx. quinquefasciatus	West Covina	49	GRVD	8/31/2021	WNV
Los Angeles	SGVA64	861	Cx. quinquefasciatus	West Covina	50	GRVD	8/31/2021	WNV
Los Angeles	SGVA8	859	Cx. quinquefasciatus	Pomona	50	GRVD	8/31/2021	WNV
Los Angeles	SGVA952	886	Cx. quinquefasciatus	San Dimas	50	GRVD	9/1/2021	WNV
Los Angeles	SGVA953	882	Cx. quinquefasciatus	Covina	50	GRVD	9/1/2021	WNV
Los Angeles	SGVA996	870	Cx. quinquefasciatus	South Pasadena	50	GRVD	8/31/2021	WNV
Madera	MADR12	370	Cx. tarsalis	Madera	50	CO2	8/24/2021	WNV
Madera	MADR192	373	Cx. tarsalis	Madera	14	CO2	8/24/2021	WNV
Madera	MADR204	372	Cx. tarsalis	Madera	10	CO2	8/24/2021	WNV
Madera	MADR309	396	Cx. tarsalis	Madera	11	CO2	8/27/2021	WNV
Madera	MADR688	395	Cx. tarsalis	Madera	18	CO2	8/27/2021	WNV
Orange	ORCO1005	3375	Cx. quinquefasciatus	Buena Park	2	BGSENT	8/31/2021	WNV
Orange	ORCO1006	3431	Cx. quinquefasciatus	Cypress	29	GRVD	8/31/2021	WNV
Orange	ORCO1008	3466	Cx. quinquefasciatus	Fullerton	27	GRVD	8/31/2021	WNV
Orange	ORCO1008	3472	Cx. quinquefasciatus	Fullerton	29	GRVD	8/31/2021	WNV
Orange	ORCO218	3380	Cx. quinquefasciatus	Anaheim	13	GRVD	8/31/2021	WNV
Orange	ORCO218	3502	Cx. quinquefasciatus	Anaheim	39	GRVD	8/31/2021	WNV
Orange	ORCO302	3440	Cx. quinquefasciatus	Anaheim	34	GRVD	8/31/2021	WNV
Placer	PLCR1113	1525	Cx. tarsalis	Pleasant Grove	31	CO2	8/31/2021	WNV
Placer	PLCR1114	1513	Cx. tarsalis	Lincoln	50	CO2	8/31/2021	WNV
Placer	PLCR30	1554	Cx. stigmatosoma	Lincoln	6	CO2	8/31/2021	WNV
Placer	PLCR81	1527	Cx. pipiens	Roseville	4	CO2	8/31/2021	WNV
Riverside	COAV130	3565	Cx. tarsalis	Oasis	50	CO2	8/31/2021	WNV
Riverside	COAV131	3569	Cx. tarsalis	Oasis	50	CO2	8/31/2021	WNV
Riverside	COAV5	3578	Cx. tarsalis	Oasis	38	CO2	8/31/2021	WNV
Riverside	COAV540	3566	Cx. tarsalis	Mecca	50	CO2	8/31/2021	WNV
Riverside	COAV540	3567	Cx. tarsalis	Mecca	20	CO2	8/31/2021	WNV
Riverside	COAV610	3573	Cx. tarsalis	Oasis	50	CO2	8/31/2021	WNV
Riverside	RIVR88	97	Cx. tarsalis	Nuevo	45	CO2	8/25/2021	WNV
Sacramento	SAYO201006	4733	Cx. tarsalis	Sacramento	50	CO2	8/31/2021	WNV
Sacramento	SAYO203032	4556	Cx. tarsalis	Sacramento	10	CO2	8/27/2021	WNV
Sacramento	SAYO203033	4562	Cx. pipiens	North Highlands	2	GRVD	8/27/2021	WNV
Sacramento	SAYO214001	4633	Cx. tarsalis	Carmichael	4	CO2	8/27/2021	WNV
Sacramento	SAYO214013	4628	Cx. tarsalis	Carmichael	2	GRVD	8/27/2021	WNV
Sacramento	SAYO232031	4700	Cx. tarsalis	Elk Grove	7	CO2	8/31/2021	WNV
Sacramento	SAYO233001	4735	Cx. pipiens	Elk Grove	14	GRVD	8/31/2021	WNV
Sacramento	SAYO233015	4587	Cx. pipiens	Sacramento	11	CO2	8/27/2021	WNV
Sacramento	SAYO233015	4589	Cx. pipiens	Sacramento	25	GRVD	8/27/2021	WNV
Sacramento	SAYO242013	4647	Cx. tarsalis	Hood	50	CO2	8/27/2021	WNV
Sacramento	SAYO245026	4455	Cx. pipiens	Wilton	48	CO2	8/27/2021	WNV
Sacramento	SAYO254019	4519	Cx. pipiens	Galt	50	CO2	8/27/2021	WNV
Sacramento	SAYO254021	4447	Cx. pipiens	Galt	14	GRVD	8/27/2021	WNV
Sacramento	SAYO254029	4604	Cx. tarsalis	Galt	18	CO2	8/27/2021	WNV
San Joaquin	SJCM8010	1709	Cx. pipiens	Ripon	50	CO2	8/31/2021	WNV
San Joaquin	SJCM8022	1774	Cx. tarsalis	Holt	50	CO2	8/31/2021	WNV
San Joaquin	SJCM8041	1729	Cx. pipiens	Lodi	21	CO2	8/31/2021	WNV
San Joaquin	SJCM8083	1827	Cx. pipiens	Escalon	22	CO2	9/2/2021	WNV
San Joaquin	SJCM8097	1719	Cx. tarsalis	Banta	38	CO2	8/31/2021	WNV
San Joaquin	SJCM8160	1749	Cx. tarsalis	Lodi	25	CO2	8/31/2021	WNV
San Joaquin	SJCM8199	1786	Cx. tarsalis	Manteca	50	CO2	8/31/2021	WNV
San Joaquin	SJCM8199	1787	Cx. tarsalis	Manteca	50	CO2	8/31/2021	WNV
San Joaquin	SJCM8199	1788	Cx. tarsalis	Manteca	50	CO2	8/31/2021	WNV

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San Joaquin	SJCM8199	1790	Cx. tarsalis	Manteca	50	CO2	8/31/2021	WNV
San Joaquin	SJCM8199	1791	Cx. tarsalis	Manteca	37	CO2	8/31/2021	WNV
San Joaquin	SJCM8199	1792	Cx. pipiens	Manteca	50	CO2	8/31/2021	WNV
San Joaquin	SJCM8199	1793	Cx. pipiens	Manteca	50	CO2	8/31/2021	WNV
San Joaquin	SJCM8199	1794	Cx. pipiens	Manteca	50	CO2	8/31/2021	WNV
San Joaquin	SJCM8199	1795	Cx. pipiens	Manteca	32	CO2	8/31/2021	WNV
San Joaquin	SJCM8205	1817	Cx. tarsalis	Farmington	5	CO2	9/2/2021	WNV
San Joaquin	SJCM8205	1818	Cx. pipiens	Farmington	10	CO2	9/2/2021	WNV
San Joaquin	SJCM8206	1765	Cx. pipiens	Lodi	50	CO2	8/31/2021	WNV
San Joaquin	SJCM8208	1810	Cx. tarsalis	Lodi	50	CO2	9/2/2021	WNV
San Joaquin	SJCM8208	1811	Cx. tarsalis	Lodi	6	CO2	9/2/2021	WNV
San Joaquin	SJCM8209	1812	Cx. tarsalis	Lodi	35	CO2	9/2/2021	WNV
San Joaquin	SJCM8209	1813	Cx. pipiens	Lodi	50	CO2	9/2/2021	WNV
San Joaquin	SJCM8219	1806	Cx. tarsalis	Stockton	50	CO2	8/31/2021	WNV
San Joaquin	SJCM8219	1807	Cx. tarsalis	Stockton	19	CO2	8/31/2021	WNV
San Joaquin	SJCM8219	1808	Cx. pipiens	Stockton	25	CO2	8/31/2021	WNV
San Joaquin	SJCM8224	1815	Cx. tarsalis	Lodi	50	CO2	9/2/2021	WNV
San Joaquin	SJCM8228	1823	Cx. tarsalis	Escalon	40	CO2	9/2/2021	WNV
San Joaquin	SJCM8228	1824	Cx. pipiens	Escalon	14	CO2	9/2/2021	WNV
San Joaquin	SJCM8233	1747	Cx. pipiens	Stockton	50	CO2	8/31/2021	WNV
Shasta	SHAS20040	540	Cx. tarsalis	Redding	37	CO2	9/1/2021	WNV
Shasta	SHAS242	549	Cx. tarsalis	Cottonwood	12	CO2	9/1/2021	WNV
Shasta	SHAS323	536	Cx. tarsalis	Redding	27	CO2	8/31/2021	WNV
Solano	SOLA35	249	Cx. tarsalis	Davis	50	CO2	8/26/2021	WNV
Solano	SOLA35	251	Cx. tarsalis	Davis	50	CO2	8/26/2021	WNV
Solano	SOLA38	239	Cx. tarsalis	Dixon	50	CO2	8/26/2021	WNV
Solano	SOLA8871	247	Cx. tarsalis	Dixon	36	CO2	8/26/2021	WNV
Stanislaus	EAST1025	21260	Cx. pipiens	Modesto	29	CO2	8/25/2021	WNV
Stanislaus	EAST1077	21265	Cx. pipiens	Modesto	41	GRVD	8/25/2021	WNV
Stanislaus	EAST1093	21274	Cx. pipiens	Oakdale	29	CO2	8/26/2021	WNV
Stanislaus	EAST1093	21276	Cx. pipiens	Oakdale	50	GRVD	8/26/2021	WNV
Stanislaus	EAST2014	21258	Cx. pipiens	Modesto	50	GRVD	8/24/2021	WNV
Stanislaus	EAST2016	21273	Cx. tarsalis	Oakdale	10	CO2	8/26/2021	WNV
Stanislaus	EAST2016	21275	Cx. pipiens	Oakdale	45	GRVD	8/26/2021	WNV
Stanislaus	EAST2019	21259	Cx. pipiens	Riverbank	22	GRVD	8/24/2021	WNV
Stanislaus	EAST2021	21267	Cx. tarsalis	Modesto	11	GRVD	8/25/2021	WNV
Stanislaus	EAST2021	21268	Cx. pipiens	Modesto	50	GRVD	8/25/2021	WNV
Stanislaus	EAST2022	21264	Cx. pipiens	Modesto	35	CO2	8/25/2021	WNV
Stanislaus	EAST2022	21270	Cx. pipiens	Modesto	20	GRVD	8/25/2021	WNV
Stanislaus	EAST2023	21262	Cx. pipiens	Modesto	26	CO2	8/25/2021	WNV
Stanislaus	EAST2023	21266	Cx. pipiens	Modesto	18	GRVD	8/25/2021	WNV
Stanislaus	TRLK1214	797	Cx. pipiens	Turlock	50	CO2	8/31/2021	WNV
Stanislaus	TRLK1219	829	Cx. pipiens	Modesto	31	CO2	8/31/2021	WNV
Stanislaus	TRLK1308	804	Cx. pipiens	Turlock	50	CO2	8/31/2021	WNV
Stanislaus	TRLK1310	789	Cx. pipiens	Hughson	41	CO2	8/31/2021	WNV
Stanislaus	TRLK1312	792	Cx. pipiens	Ceres	20	CO2	8/31/2021	WNV
Stanislaus	TRLK17131	794	Cx. pipiens	Turlock	5	CO2	8/31/2021	WNV
Stanislaus	TRLK1904	795	Cx. pipiens	Turlock	32	CO2	8/31/2021	WNV
Stanislaus	TRLK1905	822	Cx. pipiens	Denair	50	CO2	8/31/2021	WNV
Stanislaus	TRLK1906	821	Cx. pipiens	Hughson	50	CO2	8/31/2021	WNV
Stanislaus	TRLK432	802	Cx. pipiens	Turlock	50	CO2	8/31/2021	WNV
Stanislaus	TRLK432	803	Cx. pipiens	Turlock	50	CO2	8/31/2021	WNV
Stanislaus	TRLK526	806	Cx. pipiens	Denair	50	CO2	8/31/2021	WNV
Stanislaus	TRLK526	807	Cx. pipiens	Denair	48	CO2	8/31/2021	WNV

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Sutter	SUYA63	367	Cx. tarsalis	Live Oak	9	REST	8/30/2021	WNV
Tulare	DLTA5	1607	Cx. quinquefasciatus	Dinuba	21	CO2	8/31/2021	WNV
Tulare	DLTA6	1612	Cx. quinquefasciatus	Dinuba	50	CO2	8/31/2021	WNV
Tulare	DLTA6	1614	Cx. stigmatosoma	Dinuba	34	CO2	8/31/2021	WNV
Tulare	DLTA640412	1619	Cx. quinquefasciatus	Dinuba	50	CO2	8/31/2021	WNV
Tulare	DLTA640412	1623	Cx. stigmatosoma	Dinuba	21	CO2	8/31/2021	WNV
Tulare	DLTA6407	1556	Cx. quinquefasciatus	Dinuba	50	BGSENT	8/25/2021	WNV
Tulare	DLTA751732	1543	Cx. quinquefasciatus	Yetterm	50	CO2	8/25/2021	WNV
Tulare	DLTA752032	1537	Cx. quinquefasciatus	Patterson Tract	50	CO2	8/25/2021	WNV
Tulare	DLTA84221	1633	Cx. quinquefasciatus	Visalia	50	BGSENT	8/31/2021	WNV
Tulare	DLTA84221	1634	Cx. quinquefasciatus	Visalia	18	BGSENT	8/31/2021	WNV
Tulare	DLTA84341	1585	Cx. quinquefasciatus	Visalia	50	CO2	8/26/2021	WNV
Tulare	DLTA94031	1598	Cx. quinquefasciatus	Visalia	50	BGSENT	8/27/2021	WNV
Tulare	DLTA94031	1639	Cx. quinquefasciatus	Visalia	50	BGSENT	8/31/2021	WNV
Tulare	DLTA94031	1640	Cx. quinquefasciatus	Visalia	50	BGSENT	8/31/2021	WNV
Tulare	DLTA94031	1641	Cx. quinquefasciatus	Visalia	50	BGSENT	8/31/2021	WNV
Yolo	SAYO103007	4747	Cx. tarsalis	Dunnigan	50	CO2	8/31/2021	WNV
Yolo	SAYO114001	4724	Cx. tarsalis	Zamora	20	CO2	8/31/2021	WNV
Yolo	SAYO135019	4526	Cx. pipiens	Davis	14	CO2	8/27/2021	WNV
Yolo	SAYO135019	4531	Cx. tarsalis	Davis	50	CO2	8/27/2021	WNV
Yolo	SAYO136010	4573	Cx. tarsalis	Woodland	50	CO2	8/27/2021	WNV
Yolo	SAYO136010	4577	Cx. tarsalis	Woodland	11	GRVD	8/27/2021	WNV

### Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02
Tulare	TLRE0008	Tulare	8/20/2021	WNV	1752	1758

## California Arbovirus Surveillance Bulletin #19

Week 35 Friday, September 3, 2021

### 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).

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#### **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.

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#### **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.

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*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](mailto:Tina.Feiszli@cdph.ca.gov).*