

California Arbovirus Surveillance Bulletin #27

Week 36 Friday, September 9, 2016



Weekly Update

Humans

A total of 32 new cases of West Nile virus (WNV) illness were reported this week from the following 10 counties: Butte (3), Glenn (1), Kern (1), Los Angeles (12), Orange (1), Sacramento (4), Stanislaus (1), Sutter (3), Yolo (5), and Yuba (1). To date this year, 155 cases of WNV illness have been reported from 23 counties. Of the 155 case-patients, 110 (71%) had neuroinvasive illness, and two fatalities have been reported from Sacramento (1) and Yolo (1) counties. The median age of the individuals is 59 years (range: 8-90 years) and 93 (60%) are male. Dates of symptom onset range from June 17 to August 27. In addition, 24 asymptomatic WNV-positive blood donors have been reported from Fresno (2), Los Angeles (5), Orange (2) Sacramento (2), San Diego (2), San Luis Obispo (1), Stanislaus (4), Sutter (2), Tehama (1), and Yolo (3) counties.

Dead Birds

This week, a total of 49 dead birds tested positive for WNV from the following 13 counties: Contra Costa (3), El Dorado (2), Lake (1), Los Angeles (2), Orange (14), Placer (4), Sacramento (7), San Diego (4), Santa Clara (3), Solano (1), Sutter (1), Ventura (2), and Yolo (5). In 2016, 1,186 dead birds have tested positive for WNV from 32 counties, whereas at this time last year, 762 WNV positive birds had been reported from 36 counties.

Mosquito Pools

West Nile virus

A total of 166 WNV positive mosquito pools were reported this week from the following 17 counties: Contra Costa (2), Fresno (6), Kern (2), Kings (12), Lake (3), Los Angeles (11), Madera (9), Orange (55), Placer (1), Sacramento (13), San Joaquin (24), Santa Clara (1), Shasta (2), Solano (6), Stanislaus (10), Tulare (7), and Yolo (2). In 2016, 3,105 WNV positive mosquito pools have been reported from 30 counties, whereas at this time last year, 2,444 WNV positive mosquito pools had been reported from 29 counties.

St. Louis encephalitis virus

A total of 21 SLEV positive mosquito pools were reported this week from the following 2 counties: Kern (3), and Riverside (18). To date this year, 148 SLEV positive mosquito pools have been reported from 5 counties. At this time last year, 29 SLEV positive mosquito pools had been reported from Riverside County.

Sentinel Chickens

West Nile virus

A total of 33 WNV seroconversions were reported this week from 22 flocks in 12 counties: Butte (4), Glenn (1), Lake (2), Los Angeles (9), Merced (3), Nevada (1), Placer (1), Shasta (2), Solano (3), Sutter (1), Tehama (4) and Yolo (2). **These are the first WNV positive chickens reported from Nevada and Yolo counties in 2016.** To date this year, 264 WNV seroconversions have been detected in 67 flocks located in 17 counties, whereas at this time last year, 235 WNV seroconversions had been detected in 67 flocks located in 21 counties.

St. Louis encephalitis virus

No new SLEV seroconversions were reported this week. In 2016, 2 SLEV seroconversions have been detected in one flock located in San Bernardino County.

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YTD WNV Activity by Element and County, 2016				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		10	2	
Butte	17	18	44	37
Colusa	1			9
Contra Costa		22	8	5
El Dorado	1	3		
Fresno	5	6	175	
Glenn	2	4	11	10
Kern	7		78	
Kings	1	4	110	
Lake		4	35	4
Los Angeles	53	100	311	75
Madera	1	5	90	
Marin		4		
Merced		5	11	33
Napa			4	
Nevada		2		1
Orange	3	60	327	
Placer		26	99	3
Riverside	1	12	29	
Sacramento	13	405	441	
San Bernardino	3	3	77	15
San Diego	3	239	65	9
San Joaquin	4	34	322	
San Mateo		10	5	
Santa Clara	1	74	12	
Santa Cruz		2	3	
Shasta	1	1	11	3
Solano		6	16	5
Sonoma		4	1	
Stanislaus	11	10	241	
Sutter	6	10	68	32
Tehama	4			8
Tulare		3	245	
Ventura	2	27		
Yolo	10	69	246	2
Yuba	5	4	18	13
Totals	155	1,186	3,105	264

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2015 & 2016 YTD West Nile Virus Comparisons		
	2015	2016
Total # Dead Bird Reports	8,314	7,851
# Positive Counties	40	36
# Human Cases	123	155
# Positive Dead Birds / # Tested	762 / 3,036	1,186 / 2,401
# Positive Mosquito Pools / # Tested	2,444 / 26,527	3,105 / 34,305
# Seroconversions / # Tested	235 / 9,134	264 / 8,038

TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Number of Cases Reported	Week	32	0	0
	YTD	155	0	0

Dead Birds

		Total Tested	WNV Positive
Dead Birds	Week	83	49
	YTD	2,401	1,186

Sentinel Chickens

		Total Tested	WNV +	SLEV +	WEEV +
Chicken Sera	Week	466	33	0	0
	YTD	8,038	264	2	0

Mosquitoes

		Positive / Total Tested					
Mosquito Pools	Week	WNV	SLEV	WEEV	CHIK	DENV	ZIKA
		166 / 1,418	21 / 830	0 / 830	0 / 62	0 / 62	0 / 62
		3,105 / 34,305	148 / 21,627	0 / 21,627	0 / 337	0 / 337	0 / 337

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NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Contra Costa	Contra Costa MVCD	Antioch	94531	American Crow	9/7/2016	WNV
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	9/7/2016	WNV
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	9/8/2016	WNV
El Dorado	El Dorado Co Env Management	Cameron Park	95682	American Crow	8/29/2016	WNV
El Dorado	El Dorado Co Env Management	El Dorado Hills	95762	Western Scrub-Jay	8/28/2016	WNV
Lake	Lake Co VCD	Upper Lake	95485	Western Scrub-Jay	9/1/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Chatsworth	91331	American Crow	9/6/2016	WNV
Los Angeles	San Gabriel Valley MVCD	Altadena	91001	Woodpecker	8/29/2016	WNV
Orange	Orange Co VCD	Anaheim	92802	American Crow	8/25/2016	WNV
Orange	Orange Co VCD	Anaheim	92806	American Crow	8/31/2016	WNV
Orange	Orange Co VCD	Cypress	90630	American Crow	8/29/2016	WNV
Orange	Orange Co VCD	Garden Grove	92840	American Crow	9/2/2016	WNV
Orange	Orange Co VCD	Garden Grove	92844	American Crow	9/2/2016	WNV
Orange	Orange Co VCD	Irvine	92615	House Finch	9/1/2016	WNV
Orange	Orange Co VCD	Laguna Hills	92653	American Crow	9/2/2016	WNV
Orange	Orange Co VCD	Mission Viejo	92691	House Finch	8/30/2016	WNV
Orange	Orange Co VCD	Mission Viejo	92692	American Crow	8/29/2016	WNV
Orange	Orange Co VCD	Rancho Santa Margarita	92688	American Crow	9/2/2016	WNV
Orange	Orange Co VCD	San Clemente	92672	American Crow	8/30/2016	WNV
Orange	Orange Co VCD	San Juan Capistrano	92675	American Crow	9/1/2016	WNV
Orange	Orange Co VCD	Santa Ana	92701	American Crow	9/1/2016	WNV
Orange	Orange Co VCD	Villa Park	92861	American Crow	9/2/2016	WNV
Placer	Placer MVCD	Granite Bay	95746	Oak Titmouse	9/5/2016	WNV
Placer	Placer MVCD	Rocklin	95765	Western Scrub-Jay	9/6/2016	WNV
Placer	Placer MVCD	Roseville	95678	Western Scrub-Jay	8/31/2016	WNV
Placer	Placer MVCD	Roseville	95747	Western Scrub-Jay	9/6/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Galt	95632	American Robin	8/31/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Galt	95632	Western Scrub-Jay	9/5/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95811	American Crow	9/1/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95819	American Crow	9/6/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95833	American Crow	8/31/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95835	American Robin	9/3/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Western Bluebird	9/5/2016	WNV
San Diego	San Diego Co VCP	Carlsbad	92008	American Crow	9/6/2016	WNV
San Diego	San Diego Co VCP	Coronado	92118	American Crow	9/6/2016	WNV
San Diego	San Diego Co VCP	La Mesa	91942	American Crow	9/6/2016	WNV
San Diego	San Diego Co VCP	San Diego	92116	American Crow	9/6/2016	WNV

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Santa Clara	Santa Clara Co VCD	San Jose	95131	American Crow	8/29/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95136	American Crow	8/25/2016	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	8/30/2016	WNV
Solano	Solano Co MAD	Vacaville	95687	Finch	8/29/2016	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95991	American Robin	9/1/2016	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93065	American Crow	8/31/2016	WNV
Ventura	Ventura Co Env Health Dept	Thousand Oaks	91362	American Crow	8/31/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/2/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/3/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/5/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	9/2/2016	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	Western Scrub-Jay	8/31/2016	WNV

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Contra Costa	CNTR1688	372	Cx. tarsalis	Brentwood	16	CO2	9/6/2016	WNV
Contra Costa	CNTR661	368	Cx. tarsalis	Byron	30	CO2	9/6/2016	WNV
Fresno	CNSL1107	420	Cx. quinquefasciatus	Clovis	37	GRVD	8/31/2016	WNV
Fresno	CNSL6124	414	Cx. quinquefasciatus	Riverdale	50	GRVD	8/31/2016	WNV
Fresno	FRWS1101	262	Cx. tarsalis	Dos Palos	50	CO2	9/7/2016	WNV
Fresno	FRWS400017	272	Cx. tarsalis	Mendota	50	CO2	9/7/2016	WNV
Fresno	FRWS400039	252	Cx. tarsalis		50	CO2	9/2/2016	WNV
Fresno	FRWS4102	265	Cx. tarsalis	Kerman	50	CO2	9/7/2016	WNV
Kern	KERN2042	419	Cx. quinquefasciatus	Lamont	24	GRVD	8/30/2016	SLEV
Kern	KERN3028	429	Cx. quinquefasciatus	Bakersfield	34	CO2	9/1/2016	WNV
Kern	KERN40	425	Cx. tarsalis	Lost Hills	50	CO2	8/30/2016	SLEV
Kern	KERN41	424	Cx. tarsalis	Lost Hills	50	CO2	8/30/2016	SLEV
Kern	KERN91	426	Cx. tarsalis	Lost Hills	50	CO2	8/30/2016	WNV
Kings	KNGS3024	450	Cx. pipiens	Lemoore	50	CO2	9/2/2016	WNV
Kings	KNGS3082	443	Cx. tarsalis	Lemoore	50	CO2	9/2/2016	WNV
Kings	KNGS3082	448	Cx. pipiens	Lemoore	50	CO2	9/2/2016	WNV
Kings	KNGS3102	418	Cx. tarsalis	Armona	12	CO2	8/30/2016	WNV
Kings	KNGS3110	432	Cx. tarsalis	Guernsey	50	CO2	9/1/2016	WNV
Kings	KNGS3110	434	Cx. tarsalis	Guernsey	50	CO2	9/1/2016	WNV
Kings	KNGS4405	415	Cx. pipiens	Lemoore	43	BGSENT	8/30/2016	WNV
Kings	KNGS4407	408	Cx. pipiens	Lemoore	14	BGSENT	8/30/2016	WNV
Kings	KNGS4408	424	Cx. pipiens	Lemoore	35	BGSENT	8/31/2016	WNV
Kings	KNGS4410	411	Cx. tarsalis	Lemoore	11	BGSENT	8/30/2016	WNV
Kings	KNGS4410	412	Cx. pipiens	Lemoore	22	BGSENT	8/30/2016	WNV
Kings	KNGS8005	419	Cx. tarsalis	Stratford	49	CO2	8/30/2016	WNV
Lake	LAKE1404	588	Cx. stigmatosoma	Lakeport	8	REST	9/1/2016	WNV
Lake	LAKE195	590	Cx. tarsalis	Lakeport	10	REST	9/1/2016	WNV
Lake	LAKE226	606	Cx. tarsalis	Lower Lake	13	CO2	9/7/2016	WNV
Los Angeles	GRLA2007	5682	Cx. quinquefasciatus	Toluca Lake	50	GRVD	8/30/2016	WNV
Los Angeles	GRLA2017	5683	Cx. quinquefasciatus	Toluca Lake	50	GRVD	8/30/2016	WNV
Los Angeles	GRLA3009	5691	Cx. quinquefasciatus	Santa Clarita	18	GRVD	9/2/2016	WNV
Los Angeles	GRLA3066	5688	Cx. quinquefasciatus	North Hollywood	50	GRVD	8/30/2016	WNV
Los Angeles	GRLA3069	5686	Cx. quinquefasciatus	Valley Village	50	GRVD	8/30/2016	WNV

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Los Angeles	GRLA3076	5689	Cx. quinquefasciatus	Valley Glen	33	CO2	8/30/2016	WNV
Los Angeles	GRLA3080	5687	Cx. quinquefasciatus	North Hollywood	50	GRVD	8/30/2016	WNV
Los Angeles	GRLA3102	5684	Cx. quinquefasciatus	Studio City	50	GRVD	8/30/2016	WNV
Los Angeles	LACW1002	362	Cx. quinquefasciatus	Torrance	28	GRVD	8/31/2016	WNV
Los Angeles	SGVA775	430	Cx. quinquefasciatus	El Monte	4	BGSENT	8/29/2016	WNV
Los Angeles	SGVA874	407	Cx. quinquefasciatus	Claremont	50	GRVD	8/31/2016	WNV
Madera	MADR1112	328	Cx. quinquefasciatus	Madera	50	CO2	8/31/2016	WNV
Madera	MADR1112	343	Cx. tarsalis	Madera	50	CO2	9/2/2016	WNV
Madera	MADR195	332	Cx. quinquefasciatus	Madera	50	CO2	9/1/2016	WNV
Madera	MADR195	333	Cx. tarsalis	Madera	30	CO2	9/1/2016	WNV
Madera	MADR204	331	Cx. quinquefasciatus	Madera	37	CO2	9/1/2016	WNV
Madera	MADR239	339	Cx. quinquefasciatus	Madera	50	CO2	9/1/2016	WNV
Madera	MADR265	337	Cx. quinquefasciatus	Madera	50	CO2	9/1/2016	WNV
Madera	MADR408	322	Cx. quinquefasciatus	Chowchilla	50	CO2	8/30/2016	WNV
Madera	MADR408	325	Cx. quinquefasciatus	Chowchilla	50	CO2	8/30/2016	WNV
Orange	ORCO1009	3472	Cx. quinquefasciatus	Garden Grove	27	GRVD	9/1/2016	WNV
Orange	ORCO1009	3475	Cx. quinquefasciatus	Garden Grove	50	CO2	9/1/2016	WNV
Orange	ORCO1009	3476	Cx. quinquefasciatus	Garden Grove	40	CO2	9/1/2016	WNV
Orange	ORCO1009	3483	Cx. quinquefasciatus	Garden Grove	50	GRVD	9/1/2016	WNV
Orange	ORCO1009	3537	Cx. quinquefasciatus	Garden Grove	24	GRVD	9/7/2016	WNV
Orange	ORCO1010	3355	Cx. quinquefasciatus	Huntington Beach	50	GRVD	8/30/2016	WNV
Orange	ORCO1011	3514	Cx. quinquefasciatus	La Habra	50	GRVD	9/2/2016	WNV
Orange	ORCO1014	3495	Cx. quinquefasciatus	Mission Viejo	6	GRVD	9/2/2016	WNV
Orange	ORCO1014	3496	Cx. quinquefasciatus	Mission Viejo	18	GRVD	9/2/2016	WNV
Orange	ORCO1014	3497	Cx. quinquefasciatus	Mission Viejo	31	GRVD	9/2/2016	WNV
Orange	ORCO1014	3498	Cx. quinquefasciatus	Mission Viejo	20	GRVD	9/2/2016	WNV
Orange	ORCO1015	3486	Cx. quinquefasciatus	Orange	11	CO2	9/1/2016	WNV
Orange	ORCO1021	3501	Cx. quinquefasciatus	Tustin	31	GRVD	9/2/2016	WNV
Orange	ORCO1021	3502	Cx. quinquefasciatus	Tustin	36	GRVD	9/2/2016	WNV
Orange	ORCO1021	3503	Cx. quinquefasciatus	Tustin	50	GRVD	9/2/2016	WNV
Orange	ORCO1033	3555	Cx. quinquefasciatus	Tustin	50	GRVD	9/7/2016	WNV
Orange	ORCO1036	3540	Cx. quinquefasciatus	Buena Park	28	GRVD	9/7/2016	WNV
Orange	ORCO1037	3524	Cx. quinquefasciatus	La Habra	16	GRVD	9/7/2016	WNV
Orange	ORCO1039	3557	Cx. quinquefasciatus	Orange	31	GRVD	9/7/2016	WNV
Orange	ORCO1040	3331	Cx. quinquefasciatus	Orange	50	GRVD	8/30/2016	WNV
Orange	ORCO1040	3332	Cx. quinquefasciatus	Orange	50	GRVD	8/30/2016	WNV
Orange	ORCO1040	3558	Cx. quinquefasciatus	Orange	34	GRVD	9/7/2016	WNV
Orange	ORCO151	3504	Cx. quinquefasciatus	La Habra	28	GRVD	9/2/2016	WNV
Orange	ORCO170	3448	Cx. quinquefasciatus	Anaheim	50	GRVD	9/1/2016	WNV
Orange	ORCO198	3521	Cx. quinquefasciatus	La Habra	32	GRVD	9/7/2016	WNV
Orange	ORCO2	3309	Cx. quinquefasciatus	Fullerton	34	GRVD	8/30/2016	WNV
Orange	ORCO2	3532	Cx. quinquefasciatus	Fullerton	51	GRVD	9/7/2016	WNV
Orange	ORCO202	3531	Cx. quinquefasciatus	Fullerton	36	GRVD	9/7/2016	WNV
Orange	ORCO205	3310	Cx. quinquefasciatus	Tustin	20	GRVD	8/30/2016	WNV
Orange	ORCO205	3347	Cx. quinquefasciatus	Tustin	50	GRVD	8/30/2016	WNV
Orange	ORCO205	3548	Cx. quinquefasciatus	Tustin	44	GRVD	9/7/2016	WNV
Orange	ORCO213	3577	Cx. quinquefasciatus	Garden Grove	14	CO2	9/7/2016	WNV
Orange	ORCO217	3318	Cx. quinquefasciatus	Santa Ana	50	GRVD	8/30/2016	WNV
Orange	ORCO217	3325	Cx. quinquefasciatus	Santa Ana	16	GRVD	8/30/2016	WNV
Orange	ORCO217	3339	Cx. quinquefasciatus	Santa Ana	50	GRVD	8/30/2016	WNV
Orange	ORCO217	3518	Cx. quinquefasciatus	Santa Ana	50	GRVD	9/2/2016	WNV
Orange	ORCO217	3541	Cx. quinquefasciatus	Santa Ana	31	GRVD	9/7/2016	WNV
Orange	ORCO217	3542	Cx. quinquefasciatus	Santa Ana	25	GRVD	9/7/2016	WNV
Orange	ORCO217	3571	Cx. quinquefasciatus	Santa Ana	21	CO2	9/7/2016	WNV

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Orange	ORCO236	3467	Cx. quinquefasciatus	Garden Grove	50	GRVD	9/1/2016	WNV
Orange	ORCO236	3468	Cx. quinquefasciatus	Garden Grove	23	GRVD	9/1/2016	WNV
Orange	ORCO238	3490	Cx. quinquefasciatus	Anaheim	35	GRVD	9/1/2016	WNV
Orange	ORCO238	3491	Cx. quinquefasciatus	Anaheim	35	GRVD	9/1/2016	WNV
Orange	ORCO243	3461	Cx. quinquefasciatus	Anaheim	8	GRVD	9/1/2016	WNV
Orange	ORCO245	3457	Cx. quinquefasciatus	Santa Ana	45	GRVD	9/1/2016	WNV
Orange	ORCO3	3451	Cx. quinquefasciatus	Garden Grove	38	GRVD	9/1/2016	WNV
Orange	ORCO34	3315	Cx. quinquefasciatus	Brea	50	GRVD	8/30/2016	WNV
Orange	ORCO34	3316	Cx. quinquefasciatus	Brea	50	GRVD	8/30/2016	WNV
Orange	ORCO34	3523	Cx. quinquefasciatus	Brea	32	GRVD	9/7/2016	WNV
Orange	ORCO5	3428	Cx. quinquefasciatus	Huntington Beach	25	GRVD	8/31/2016	WNV
Orange	ORCO50	3350	Cx. quinquefasciatus	Buena Park	24	GRVD	8/30/2016	WNV
Orange	ORCO55	3582	Cx. quinquefasciatus	Mission Viejo	13	GRVD	9/7/2016	WNV
Orange	ORCO76	3579	Cx. quinquefasciatus	San Juan Capistrano	9	GRVD	9/7/2016	WNV
Orange	ORCO83	3580	Cx. quinquefasciatus	Costa Mesa	28	GRVD	9/7/2016	WNV
Orange	ORCO88	3546	Cx. quinquefasciatus	Fullerton	44	GRVD	9/7/2016	WNV
Placer	PLCR1023	2178	Cx. tarsalis	Roseville	50	CO2	9/7/2016	WNV
Riverside	COAV0	3089	Cx. quinquefasciatus		50	BGSENT	9/2/2016	SLEV
Riverside	COAV121	3112	Cx. tarsalis	Mecca	50	CO2	9/7/2016	SLEV
Riverside	COAV123	3177	Cx. tarsalis	Mecca	50	CO2	9/7/2016	SLEV
Riverside	COAV123	3178	Cx. tarsalis	Mecca	50	CO2	9/7/2016	SLEV
Riverside	COAV123	3179	Cx. tarsalis	Mecca	50	CO2	9/7/2016	SLEV
Riverside	COAV123	3181	Cx. tarsalis	Mecca	50	CO2	9/7/2016	SLEV
Riverside	COAV34	3152	Cx. tarsalis	Mecca	50	CO2	9/7/2016	SLEV
Riverside	COAV35	3114	Cx. tarsalis	Mecca	50	CO2	9/7/2016	SLEV
Riverside	COAV35	3115	Cx. tarsalis	Mecca	50	CO2	9/7/2016	SLEV
Riverside	COAV35	3116	Cx. tarsalis	Mecca	50	CO2	9/7/2016	SLEV
Riverside	COAV35	3117	Cx. tarsalis	Mecca	50	CO2	9/7/2016	SLEV
Riverside	COAV37	3128	Cx. tarsalis	Mecca	50	CO2	9/7/2016	SLEV
Riverside	COAV46	3102	Cx. tarsalis	Mecca	50	CO2	9/7/2016	SLEV
Riverside	COAV46	3104	Cx. tarsalis	Mecca	50	CO2	9/7/2016	SLEV
Riverside	COAV48	3097	Cx. tarsalis	Mecca	50	CO2	9/7/2016	SLEV
Riverside	COAV48	3098	Cx. tarsalis	Mecca	50	CO2	9/7/2016	SLEV
Riverside	COAV536	3147	Cx. quinquefasciatus	Thermal	17	CO2	9/7/2016	SLEV
Riverside	COAV537	3174	Cx. tarsalis	Thermal	7	CO2	9/7/2016	SLEV
Sacramento	SAYO232001	6682	Cx. tarsalis	Sacramento	28	CO2	9/7/2016	WNV
Sacramento	SAYO233001	6502	Cx. tarsalis	Elk Grove	3	CO2	9/1/2016	WNV
Sacramento	SAYO234025	6639	Cx. pipiens	Elk Grove	8	CO2	9/7/2016	WNV
Sacramento	SAYO242010	6512	Cx. pipiens	Elk Grove	41	CO2	9/1/2016	WNV
Sacramento	SAYO243016	6564	Cx. tarsalis	Elk Grove	30	CO2	9/2/2016	WNV
Sacramento	SAYO243025	6540	Cx. pipiens	Elk Grove	50	CO2	9/2/2016	WNV
Sacramento	SAYO243032	6523	Cx. tarsalis	Elk Grove	50	CO2	9/2/2016	WNV
Sacramento	SAYO244004	6618	Cx. tarsalis	Galt	50	CO2	9/7/2016	WNV
Sacramento	SAYO245002	6628	Cx. pipiens	Wilton	43	CO2	9/7/2016	WNV
Sacramento	SAYO245002	6629	Cx. pipiens	Wilton	9	GRVD	9/7/2016	WNV
Sacramento	SAYO245026	6646	Cx. tarsalis	Wilton	50	CO2	9/7/2016	WNV
Sacramento	SAYO254022	6602	Cx. pipiens	Galt	50	CO2	9/7/2016	WNV
Sacramento	SAYO255008	6610	Cx. tarsalis	Herald	34	CO2	9/7/2016	WNV
San Joaquin	SJCM8004	2283	Cx. tarsalis	Lodi	48	CO2	9/6/2016	WNV
San Joaquin	SJCM8008	2270	Cx. tarsalis	Manteca	46	CO2	9/6/2016	WNV
San Joaquin	SJCM8008	2271	Cx. pipiens	Manteca	7	CO2	9/6/2016	WNV
San Joaquin	SJCM8010	2321	Cx. pipiens	Ripon	28	CO2	9/6/2016	WNV
San Joaquin	SJCM8010	2322	Cx. tarsalis	Ripon	14	CO2	9/6/2016	WNV

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San Joaquin	SJCM8018	2285	Cx. tarsalis	Stockton	45	CO2	9/6/2016	WNV
San Joaquin	SJCM8020	2311	Cx. tarsalis	Acampo	50	CO2	9/6/2016	WNV
San Joaquin	SJCM8026	2282	Cx. tarsalis	Stockton	34	CO2	9/6/2016	WNV
San Joaquin	SJCM8027	2335	Cx. pipiens	McDonald Isl. bridge	13	CO2	9/7/2016	WNV
San Joaquin	SJCM8029	2345	Cx. pipiens	Farmington	50	CO2	9/9/2016	WNV
San Joaquin	SJCM8041	2273	Cx. tarsalis	Lodi	50	CO2	9/6/2016	WNV
San Joaquin	SJCM8041	2274	Cx. tarsalis	Lodi	20	CO2	9/6/2016	WNV
San Joaquin	SJCM8041	2276	Cx. pipiens	Lodi	50	CO2	9/6/2016	WNV
San Joaquin	SJCM8041	2277	Cx. pipiens	Lodi	50	CO2	9/6/2016	WNV
San Joaquin	SJCM8047	2348	Cx. tarsalis	Stockton	19	CO2	9/9/2016	WNV
San Joaquin	SJCM8047	2349	Cx. pipiens	Stockton	50	CO2	9/9/2016	WNV
San Joaquin	SJCM8056	2279	Cx. tarsalis	Manteca	50	CO2	9/6/2016	WNV
San Joaquin	SJCM8056	2280	Cx. tarsalis	Manteca	33	CO2	9/6/2016	WNV
San Joaquin	SJCM8083	2261	Cx. tarsalis	Escalon	9	CO2	9/6/2016	WNV
San Joaquin	SJCM8083	2262	Cx. pipiens	Escalon	42	CO2	9/6/2016	WNV
San Joaquin	SJCM8124	2309	Cx. pipiens	Clements	3	CO2	9/6/2016	WNV
San Joaquin	SJCM8143	2294	Cx. tarsalis	Stockton	50	CO2	9/6/2016	WNV
San Joaquin	SJCM8144	2327	Cx. tarsalis	Mt. House/ Tracy	16	CO2	9/7/2016	WNV
San Joaquin	SJCM8160	2299	Cx. tarsalis	Lodi	50	CO2	9/6/2016	WNV
Santa Clara	STCL3426	295	Cx. tarsalis	Milpitas	2	CO2	9/2/2016	WNV
Shasta	SHAS10140	451	Cx. tarsalis		21	CO2	9/7/2016	WNV
Shasta	SHAS242	454	Cx. tarsalis	Cottonwood	16	CO2	9/7/2016	WNV
Solano	SOLA101	204	Cx. pipiens	Vacaville	50	CO2	9/7/2016	WNV
Solano	SOLA101	205	Cx. pipiens	Vacaville	50	CO2	9/7/2016	WNV
Solano	SOLA104	200	Cx. tarsalis	Vacaville	44	CO2	9/7/2016	WNV
Solano	SOLA104	203	Cx. pipiens	Vacaville	50	CO2	9/7/2016	WNV
Solano	SOLA122	198	Cx. pipiens	Vacaville	48	CO2	9/7/2016	WNV
Solano	SOLA122	199	Cx. tarsalis	Vacaville	39	CO2	9/7/2016	WNV
Stanislaus	TRLK1615	975	Cx. tarsalis		50	CO2	9/1/2016	WNV
Stanislaus	TRLK16159	991	Cx. pipiens	Turlock	18	CO2	9/1/2016	WNV
Stanislaus	TRLK1616	965	Cx. tarsalis	Patterson	50	CO2	9/1/2016	WNV
Stanislaus	TRLK1673	984	Cx. pipiens	Patterson	50	CO2	9/1/2016	WNV
Stanislaus	TRLK1673	985	Cx. tarsalis	Patterson	50	CO2	9/1/2016	WNV
Stanislaus	TRLK1673	986	Cx. pipiens	Patterson	47	CO2	9/1/2016	WNV
Stanislaus	TRLK312	1006	Cx. tarsalis	Newman	50	CO2	9/7/2016	WNV
Stanislaus	TRLK408	927	Cx. pipiens	Turlock	50	CO2	8/30/2016	WNV
Stanislaus	TRLK424	977	Cx. pipiens	Patterson	50	CO2	9/1/2016	WNV
Stanislaus	TRLK9742	1000	Cx. tarsalis	Crows Landing	22	CO2	9/7/2016	WNV
Tulare	DLTA6407	2355	Cx. quinquefasciatus	Dinuba	23	GRVD	9/1/2016	WNV
Tulare	DLTA6417	2361	Cx. quinquefasciatus	Dinuba	11	GRVD	9/1/2016	WNV
Tulare	DLTA8514	2353	Cx. quinquefasciatus	Visalia	45	GRVD	9/1/2016	WNV
Tulare	DLTA9501	2323	Cx. quinquefasciatus	Farmersville	36	GRVD	8/31/2016	WNV
Tulare	DLTA9501	2345	Cx. quinquefasciatus	Farmersville	31	GRVD	9/1/2016	WNV
Tulare	DLTA9512	2313	Cx. quinquefasciatus	Farmersville	21	GRVD	8/31/2016	WNV
Tulare	DLTA9512	2339	Cx. quinquefasciatus	Farmersville	50	GRVD	9/1/2016	WNV
Yolo	SAYO123010	6688	Cx. pipiens	Esparto	1	GRVD	9/7/2016	WNV
Yolo	SAYO147013	6704	Cx. tarsalis	West Sacramento	39	CO2	9/7/2016	WNV

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Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Butte	BUCO0001	Chico	8/30/2016	WNV	1401	1406		
Butte	BUCO0003	Oroville	8/30/2016	WNV	1451			
Butte	BUCO0004	Gridley	8/30/2016	WNV	1419			
Glenn	GLEN9701	Willows	8/31/2016	WNV	1570			
Lake	LAKE1000	Upper Lake	8/29/2016	WNV	1609	1610		
Los Angeles	LACW1002	Torrance	8/22/2016	WNV	2307			
Los Angeles	LACW1002	Torrance	8/22/2016	WNV	2309	2310	2312	
Los Angeles	LACW1006	Playa Del Rey	8/31/2016	WNV	2335			
Los Angeles	LACW1010	Los Angeles(Miracle Mile)	8/22/2016	WNV	2349	2350		
Los Angeles	LONG0002	Long Beach	8/29/2016	WNV	2173	2176		
Merced	MERC1302	Los Banos	9/2/2016	WNV	1668			
Merced	MERC201501	Le Grand	9/2/2016	WNV	1623			
Merced	MERC0502	Hilmar	9/2/2016	WNV	1664			
Nevada	NEVA0005	Penn Valley	8/31/2016	WNV	1597			
Placer	PLCR0757	Auburn	8/29/2016	WNV	2150			
Shasta	SHAS5038		9/1/2016	WNV	1914			
Shasta	SHAS9702	Millville	9/1/2016	WNV	1921			
Solano	SOLA0125	Cordelia	8/30/2016	WNV	1879	1882		
Solano	SOLA0015	Winters	8/30/2016	WNV	1870			
Sutter	SUYA0020	Meridian	9/1/2016	WNV	2036			
Tehama	TEHA0001	Red Bluff	8/30/2016	WNV	2082	2084	2085	2088
Yolo	SAYO123001	Esparto	8/30/2016	WNV	1342	1344		

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 University of California, Davis Arbovirus Research and Training laboratory (DART) for West Nile virus by the singleplex RT-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.

Sentinel Chickens:

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

Mosquito Pools:

Mosquito pools submitted to DART are tested for West Nile, western equine encephalomyelitis, and St. Louis encephalitis viral RNA using a Taqman multiplex RT-PCR. Invasive *Aedes* mosquitoes (*Ae. aegypti* and *Ae. albopictus*) are also tested for chikungunya, dengue, and Zika viral RNA.

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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
