

California Arbovirus Surveillance Bulletin #21

Week 29 Friday, July 24, 2015



Weekly Update

Humans

One human case of West Nile virus (WNV) illness was reported this week to the California Department of Public Health from Nevada County. This is the first WNV case reported in 2015. The individual developed symptoms compatible with neuroinvasive disease and has died. To date this year, 1 human case and 2 asymptomatic WNV-positive blood donors have been reported from 2 counties. At this time last year, 11 human cases of WNV had been reported from 6 counties.

Dead Birds

A total of 32 WNV positive dead birds were reported this week from the following 14 counties: Alameda (2), Butte (3), Colusa (1), Contra Costa (1), Glenn (1), Humboldt (1), Orange (1), Sacramento (3), San Diego (3), San Joaquin (1), Santa Clara (8), Stanislaus (1), Sutter (1), and Yolo (5). **This is the first detection of WNV from Humboldt County this year.** In 2015, 247 birds have tested positive for WNV from 31 counties. At this time last year, 708 WNV positive birds had been detected in 30 counties.

Mosquito Pools

A total of 259 WNV positive mosquito pools were reported this week from the following 20 counties: Alameda (2), Butte (20), Fresno (5), Glenn (14), Kern (2), Kings (4), Lake (2), Los Angeles (5), Orange (13), Placer (5), Riverside (7), Sacramento (11), San Bernardino (35), San Joaquin (20), Shasta (5), Sonoma (2), Sutter (11), Tulare (74), Yolo (17), and Yuba (5). **These are the first WNV positive mosquito pools detected in Alameda County this year.** In 2015, 756 WNV positive mosquito pools have been reported from 26 counties. At this time last year, 775 WNV positive mosquito pools had been detected from 27 counties.

Sentinel Chickens

A total of 38 new WNV seroconversions were reported this week from 11 flocks located in the following 6 counties: Butte (18), Contra Costa (2), Glenn (3), Shasta (1), Sutter (7), and Yuba (7). These are the first WNV positive chickens detected in Butte, Contra Costa, Glenn, Sutter and Yuba counties this year. In 2015, 43 WNV positive chickens have been reported from 8 counties. At this time last year, 14 WNV positive chickens had been reported from 5 counties.

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YTD Activity by Element and County, 2015				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		5	2	
Butte		8	45	18
Colusa		3		
Contra Costa		2	2	2
El Dorado		1		
Fresno			13	
Glenn		3	18	3
Humboldt		1		
Kern		1	33	
Kings		1	18	
Lake			7	
Los Angeles		2	12	
Madera		1		
Marin		1		
Merced		1	2	
Nevada	1			
Orange		5	21	
Placer		1	18	2
Riverside		9	75	
Sacramento		21	29	
San Bernardino		1	37	2
San Diego		62	6	
San Joaquin		6	58	
San Mateo		4		
Santa Barbara			1	
Santa Clara		45	1	
Shasta		3	9	2
Solano		4		
Sonoma		2	5	
Stanislaus		8	9	
Sutter		9	33	7
Tulare		16	246	
Ventura		1		
Yolo		16	38	
Yuba		4	18	7
Totals	1	247	756	43

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2014 & 2015 YTD West Nile Virus Comparisons		
	2014	2015
Total # Dead Bird Reports	6,404	5,865
# Positive Counties	33	35
# Human Cases	11	1
# Positive Dead Birds / # Tested	708 / 1,558	247 / 1,409
# Positive Mosquito Pools / # Tested	775 / 12,261	756 / 14,734
# Seroconversions / # Tested	14 / 7,363	43 / 6,640

TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Human Cases	Week	1	0	0
	YTD	1	0	0

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	92	32
	YTD	1,409	247

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	481	38	0	0
	YTD	6,640	43	0	0
Mosquito Pools	Week	1,837	259	0	0
	YTD	14,734	756	0	0

NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported
Alameda	Alameda Co MAD	Fremont	94536	American Crow	7/20/2015
Alameda	Alameda Co MAD	Newark	94560	American Crow	7/23/2015
Butte	Butte Co MVCD	Paradise	95969	American Crow	7/15/2015
Butte	Butte Co MVCD	Paradise	95969	American Crow	7/19/2015
Butte	Butte Co MVCD	Paradise	95969	Unknown	7/19/2015
Colusa	Colusa MAD	Colusa	95932	Mallard	7/15/2015
Contra Costa	Contra Costa MVCD	Danville	94526	American Crow	7/23/2015
Glenn	Glenn Co MVCD	Orland	95963	American Crow	7/16/2015
Humboldt	Humboldt Co Env Health	Willow Creek	95573	Western Scrub-Jay	7/15/2015

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Orange	Orange Co VCD	Santa Ana	92705	American Crow	7/15/2015
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Cooper's Hawk	7/17/2015
Sacramento	Sacramento-Yolo MVCD	Sacramento	95819	American Crow	7/22/2015
Sacramento	Sacramento-Yolo MVCD	Sacramento	95835	American Robin	7/14/2015
San Diego	San Diego Co VCP	Encinitas	92024	Red-shouldered Hawk	7/20/2015
San Diego	San Diego Co VCP	San Diego	92126	American Crow	7/20/2015
San Diego	San Diego Co VCP	Valley Center	92082	Cooper's Hawk	7/17/2015
San Joaquin	San Joaquin Co MVCD	Escalon	95320	Sparrow	7/22/2015
Santa Clara	Santa Clara Co VCD	Cupertino	95014	American Crow	7/16/2015
Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	7/16/2015
Santa Clara	Santa Clara Co VCD	Los Altos	94024	American Crow	7/16/2015
Santa Clara	Santa Clara Co VCD	Los Gatos	95030	American Crow	7/17/2015
Santa Clara	Santa Clara Co VCD	San Jose	95118	American Crow	7/17/2015
Santa Clara	Santa Clara Co VCD	San Jose	95121	American Crow	7/16/2015
Santa Clara	Santa Clara Co VCD	San Jose	95123	American Crow	7/16/2015
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	7/16/2015
Stanislaus	East Side MAD	Modesto	95355	Western Scrub-Jay	7/20/2015
Sutter	Sutter-Yuba MVCD	Yuba City	95993	American Goldfinch	7/17/2015
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	7/14/2015
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	7/21/2015
Yolo	Sacramento-Yolo MVCD	Davis	95616	Double-Crested Cormorant	7/18/2015
Yolo	Sacramento-Yolo MVCD	Woodland	95776	American Robin	7/19/2015
Yolo	Sacramento-Yolo MVCD	Woodland	95776	American Robin	7/21/2015

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Alameda	ALCO6002	72	Cx. tarsalis		14	CO2	7/22/2015	WNV
Alameda	ALCO6002	90	Cx. pipiens		5	CO2	7/22/2015	WNV
Butte	BUCO14	193	Cx. tarsalis	Chico	50	CO2	7/16/2015	WNV
Butte	BUCO27	196	Cx. tarsalis	Gridley	50	CO2	7/21/2015	WNV
Butte	BUCO27	197	Cx. tarsalis	Gridley	50	CO2	7/21/2015	WNV
Butte	BUCO27	198	Cx. tarsalis	Gridley	50	CO2	7/21/2015	WNV
Butte	BUCO27	199	Cx. tarsalis	Gridley	50	CO2	7/21/2015	WNV
Butte	BUCO29	205	Cx. tarsalis	Dayton	50	CO2	7/21/2015	WNV
Butte	BUCO29	206	Cx. tarsalis	Dayton	50	CO2	7/21/2015	WNV
Butte	BUCO29	207	Cx. tarsalis	Dayton	50	CO2	7/21/2015	WNV
Butte	BUCO51	200	Cx. tarsalis	Dayton	50	CO2	7/21/2015	WNV
Butte	BUCO51	203	Cx. tarsalis	Dayton	50	CO2	7/21/2015	WNV
Butte	BUCO51	204	Cx. tarsalis	Dayton	50	CO2	7/21/2015	WNV
Butte	BUCO60	184	Cx. tarsalis	Chico	50	CO2	7/15/2015	WNV
Butte	BUCO60	188	Cx. tarsalis	Chico	50	CO2	7/15/2015	WNV
Butte	BUCO71	180	Cx. tarsalis	Chico	50	CO2	7/15/2015	WNV
Butte	BUCO71	182	Cx. tarsalis	Chico	50	CO2	7/15/2015	WNV
Butte	BUCO71	183	Cx. tarsalis	Chico	50	CO2	7/15/2015	WNV
Butte	BUCO83	175	Cx. tarsalis	Chico	50	CO2	7/15/2015	WNV
Butte	BUCO83	177	Cx. tarsalis	Chico	50	CO2	7/15/2015	WNV
Butte	BUCO83	179	Cx. pipiens	Chico	50	CO2	7/15/2015	WNV

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Butte	BUCO90	189	Cx. tarsalis	Paradise	36	CO2	7/20/2015	WNV
Fresno	CNSL1245	97	Cx. quinquefasciatus	Clovis	29	GRVD	7/21/2015	WNV
Fresno	CNSL5017	357	Cx. quinquefasciatus	Laton	24	GRVD	7/21/2015	WNV
Fresno	FRNO111	57	Cx. quinquefasciatus		50	CO2	7/16/2015	WNV
Fresno	FRNO68	58	Cx. tarsalis	Fresno93	50	CO2	7/21/2015	WNV
Fresno	FRWS3201	63	Cx. quinquefasciatus	Firebaugh	39	GRVD	7/14/2015	WNV
Glenn	GLEN821	17	Cx. tarsalis	Willows	50	CO2	7/21/2015	WNV
Glenn	GLEN821	18	Cx. tarsalis	Willows	50	CO2	7/21/2015	WNV
Glenn	GLEN821	19	Cx. tarsalis	Willows	50	CO2	7/21/2015	WNV
Glenn	GLEN822	25	Cx. tarsalis	Orland	50	CO2	7/21/2015	WNV
Glenn	GLEN825	28	Cx. tarsalis	Hamilton City	50	CO2	7/21/2015	WNV
Glenn	GLEN825	30	Cx. tarsalis	Hamilton City	50	CO2	7/21/2015	WNV
Glenn	GLEN826	32	Cx. tarsalis	Glenn	50	CO2	7/21/2015	WNV
Glenn	GLEN827	35	Cx. tarsalis	Glenn	50	CO2	7/21/2015	WNV
Glenn	GLEN828	21	Cx. tarsalis	Butte City	50	CO2	7/21/2015	WNV
Glenn	GLEN828	24	Cx. tarsalis	Butte City	50	CO2	7/21/2015	WNV
Glenn	GLEN9703	2	Cx. tarsalis	Willows	50	CO2	7/21/2015	WNV
Glenn	GLEN9706	5	Cx. tarsalis	Willows	50	CO2	7/21/2015	WNV
Glenn	GLEN9706	7	Cx. tarsalis	Willows	50	CO2	7/21/2015	WNV
Glenn	GLEN9706	8	Cx. tarsalis	Willows	50	CO2	7/21/2015	WNV
Kern	DLNO3	57	Cx. quinquefasciatus	Delano	50	GRVD	7/21/2015	WNV
Kern	DLNO3	58	Cx. quinquefasciatus	Delano	50	GRVD	7/21/2015	WNV
Kings	KNGS3030	234	Cx. tarsalis	Lemoore	50	CO2	7/17/2015	WNV
Kings	KNGS3030	236	Cx. tarsalis	Lemoore	50	CO2	7/17/2015	WNV
Kings	KNGS3102	244	Cx. tarsalis	Armona	37	CO2	7/17/2015	WNV
Kings	KNGS3102	245	Cx. pipiens	Armona	50	CO2	7/17/2015	WNV
Lake	LAKE234	250	Cx. tarsalis	Clearlake Oaks	50	CO2	7/21/2015	WNV
Lake	LAKE351	235	Cx. tarsalis	Lower Lake	50	CO2	7/21/2015	WNV
Los Angeles	GRLA2548	5521	Cx. quinquefasciatus	Sylmar	27	GRVD	7/16/2015	WNV
Los Angeles	GRLA3039	5495	Cx. quinquefasciatus	Los Angeles	50	GRVD	7/14/2015	WNV
Los Angeles	GRLA3047	436	Cx. quinquefasciatus	Downey	50	GRVD	7/14/2015	WNV
Los Angeles	GRLA3080	5499	Cx. quinquefasciatus	North Hollywood	50	GRVD	7/14/2015	WNV
Los Angeles	SGVA892	176	Cx. quinquefasciatus	San Dimas	4	CO2	7/15/2015	WNV
Orange	ORCO1015	1992	Cx. quinquefasciatus	Orange	30	GRVD	7/15/2015	WNV
Orange	ORCO1021	1915	Cx. quinquefasciatus	Tustin	28	GRVD	7/10/2015	WNV
Orange	ORCO1021	1916	Cx. quinquefasciatus	Tustin	50	GRVD	7/10/2015	WNV
Orange	ORCO1021	1926	Cx. quinquefasciatus	Tustin	29	GRVD	7/10/2015	WNV
Orange	ORCO1021	1932	Cx. quinquefasciatus	Tustin	39	GRVD	7/10/2015	WNV
Orange	ORCO1021	1993	Cx. quinquefasciatus	Tustin	34	GRVD	7/15/2015	WNV
Orange	ORCO1021	1995	Cx. quinquefasciatus	Tustin	38	GRVD	7/15/2015	WNV
Orange	ORCO1021	1996	Cx. quinquefasciatus	Tustin	49	GRVD	7/15/2015	WNV
Orange	ORCO1021	1999	Cx. quinquefasciatus	Tustin	28	GRVD	7/15/2015	WNV
Orange	ORCO1021	2000	Cx. quinquefasciatus	Tustin	28	GRVD	7/15/2015	WNV
Orange	ORCO1033	1989	Cx. quinquefasciatus	Tustin	33	GRVD	7/14/2015	WNV
Orange	ORCO36	1969	Cx. quinquefasciatus	Cypress	34	GRVD	7/14/2015	WNV
Orange	ORCO84	1987	Cx. quinquefasciatus	Orange	17	GRVD	7/14/2015	WNV
Placer	PLCR17	912	Cx. tarsalis	Sheridan	50	CO2	7/21/2015	WNV
Placer	PLCR17	913	Cx. tarsalis	Sheridan	50	CO2	7/21/2015	WNV
Placer	PLCR17	915	Cx. tarsalis	Sheridan	27	CO2	7/21/2015	WNV
Placer	PLCR191998	899	Cx. tarsalis		50	CO2	7/21/2015	WNV
Placer	PLCR25	897	Cx. tarsalis	Lincoln	50	CO2	7/21/2015	WNV
Riverside	COAV344	2193	Cx. quinquefasciatus	La Quinta	42	GRVD	7/21/2015	WNV
Riverside	COAV344	2227	Cx. quinquefasciatus	La Quinta	11	CO2	7/23/2015	WNV
Riverside	COAV416	2179	Cx. quinquefasciatus	La Quinta	24	CO2	7/17/2015	WNV

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Riverside	NWST26	53	Cx. tarsalis	Corona Center	50	CO2	7/17/2015	WNV
Riverside	NWST26	54	Cx. quinquefasciatus	Corona Center	14	CO2	7/17/2015	WNV
Riverside	NWST99	36	Cx. quinquefasciatus	Norco	40	REST	7/2/2015	WNV
Riverside	RIVR89	297	Cx. tarsalis	Nuevo92571	14	CO2	7/15/2015	WNV
Sacramento	SAYO205003	2496	Cx. pipiens	Orangevale	50	GRVD	7/21/2015	WNV
Sacramento	SAYO205010	2471	Cx. pipiens	Orangevale	14	GRVD	7/21/2015	WNV
Sacramento	SAYO232019	2342	Cx. tarsalis	Elk Grove	4	CO2	7/21/2015	WNV
Sacramento	SAYO232019	2344	Cx. pipiens	Elk Grove	8	GRVD	7/21/2015	WNV
Sacramento	SAYO233009	2397	Cx. pipiens	Elk Grove	50	GRVD	7/21/2015	WNV
Sacramento	SAYO233026	2372	Cx. pipiens	Elk Grove	30	GRVD	7/21/2015	WNV
Sacramento	SAYO233041	2386	Cx. pipiens	Elk Grove	51	CO2	7/21/2015	WNV
Sacramento	SAYO233050	2384	Cx. pipiens	Elk Grove	10	GRVD	7/21/2015	WNV
Sacramento	SAYO243013	2373	Cx. tarsalis	Elk Grove	25	CO2	7/21/2015	WNV
Sacramento	SAYO243013	2374	Cx. pipiens	Elk Grove	37	CO2	7/21/2015	WNV
Sacramento	SAYO243025	2393	Cx. pipiens	Elk Grove	48	CO2	7/21/2015	WNV
San Bernardino	WVAL1007	795	Cx. quinquefasciatus	Ontario	51	CO2	6/30/2015	WNV
San Bernardino	WVAL1007	916	Cx. quinquefasciatus	Ontario	50	CO2	7/14/2015	WNV
San Bernardino	WVAL1007	917	Cx. quinquefasciatus	Ontario	8	CO2	7/14/2015	WNV
San Bernardino	WVAL1009	792	Cx. quinquefasciatus	Ontario	16	GRVD	6/26/2015	WNV
San Bernardino	WVAL1009	905	Cx. quinquefasciatus	Ontario	30	CO2	7/10/2015	WNV
San Bernardino	WVAL1009	906	Cx. quinquefasciatus	Ontario	50	GRVD	7/10/2015	WNV
San Bernardino	WVAL1009	907	Cx. quinquefasciatus	Ontario	50	GRVD	7/10/2015	WNV
San Bernardino	WVAL1009	908	Cx. quinquefasciatus	Ontario	50	GRVD	7/10/2015	WNV
San Bernardino	WVAL2010	843	Cx. quinquefasciatus	Chino Hills	5	CO2	7/1/2015	WNV
San Bernardino	WVAL2012	912	Cx. quinquefasciatus	Chino	50	CO2	7/14/2015	WNV
San Bernardino	WVAL2018	839	Cx. quinquefasciatus	Chino	34	GRVD	7/1/2015	WNV
San Bernardino	WVAL2020	837	Cx. stigmatosoma	Fwy CA 71	26	GRVD	7/1/2015	WNV
San Bernardino	WVAL2021	841	Cx. quinquefasciatus	Fwy CA 71	50	GRVD	7/1/2015	WNV
San Bernardino	WVAL5004	934	Cx. quinquefasciatus	Rancho Cucamonga	41	GRVD	7/14/2015	WNV
San Bernardino	WVAL6002	804	Cx. stigmatosoma	Ontario	50	CO2	6/30/2015	WNV
San Bernardino	WVAL6002	809	Cx. quinquefasciatus	Ontario	50	CO2	6/30/2015	WNV
San Bernardino	WVAL6002	897	Cx. quinquefasciatus	Ontario	50	CO2	7/7/2015	WNV
San Bernardino	WVAL6002	898	Cx. quinquefasciatus	Ontario	50	CO2	7/7/2015	WNV
San Bernardino	WVAL6002	899	Cx. quinquefasciatus	Ontario	50	CO2	7/7/2015	WNV
San Bernardino	WVAL6002	900	Cx. quinquefasciatus	Ontario	50	CO2	7/7/2015	WNV
San Bernardino	WVAL6002	902	Cx. quinquefasciatus	Ontario	28	CO2	7/7/2015	WNV
San Bernardino	WVAL6002	903	Cx. stigmatosoma	Ontario	19	CO2	7/7/2015	WNV
San Bernardino	WVAL6002	953	Cx. quinquefasciatus	Ontario	50	CO2	7/14/2015	WNV
San Bernardino	WVAL6002	956	Cx. stigmatosoma	Ontario	50	CO2	7/14/2015	WNV
San Bernardino	WVAL6004	881	Cx. quinquefasciatus	Ontario	50	GRVD	7/8/2015	WNV
San Bernardino	WVAL6004	925	Cx. quinquefasciatus	Ontario	50	GRVD	7/14/2015	WNV
San Bernardino	WVAL6004	926	Cx. quinquefasciatus	Ontario	50	GRVD	7/14/2015	WNV
San Bernardino	WVAL6004	927	Cx. quinquefasciatus	Ontario	50	GRVD	7/14/2015	WNV
San Bernardino	WVAL6004	928	Cx. quinquefasciatus	Ontario	50	GRVD	7/14/2015	WNV
San Bernardino	WVAL6005	940	Cx. quinquefasciatus	Ontario	16	GRVD	7/14/2015	WNV
San Bernardino	WVAL6007	946	Cx. quinquefasciatus	Ontario	21	GRVD	7/14/2015	WNV
San Bernardino	WVAL6014	810	Cx. quinquefasciatus	Fwy CA 60	38	GRVD	6/30/2015	WNV
San Bernardino	WVAL6014	947	Cx. quinquefasciatus	Fwy CA 60	24	GRVD	7/14/2015	WNV
San Bernardino	WVAL7001	936	Cx. quinquefasciatus	Montclair	50	GRVD	7/14/2015	WNV
San Bernardino	WVAL8001	858	Cx. quinquefasciatus	Corona	5	CO2	7/8/2015	WNV
San Joaquin	SJCM8021	1280	Cx. tarsalis	Lodi	50	CO2	7/21/2015	WNV
San Joaquin	SJCM8021	1281	Cx. tarsalis	Lodi	50	CO2	7/21/2015	WNV
San Joaquin	SJCM8021	1282	Cx. tarsalis	Lodi	50	CO2	7/21/2015	WNV

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San Joaquin	SJCM8021	1283	Cx. tarsalis	Lodi	50	CO2	7/21/2015	WNV
San Joaquin	SJCM8021	1284	Cx. tarsalis	Lodi	50	CO2	7/21/2015	WNV
San Joaquin	SJCM8021	1285	Cx. tarsalis	Lodi	50	CO2	7/21/2015	WNV
San Joaquin	SJCM8021	1286	Cx. pipiens	Lodi	15	CO2	7/21/2015	WNV
San Joaquin	SJCM8022	1264	Cx. tarsalis	Holt	33	CO2	7/21/2015	WNV
San Joaquin	SJCM8022	1265	Cx. pipiens	Holt	9	CO2	7/21/2015	WNV
San Joaquin	SJCM8027	1262	Cx. tarsalis	McDonald Isl. bridge	49	CO2	7/21/2015	WNV
San Joaquin	SJCM8027	1263	Cx. pipiens	McDonald Isl. bridge	38	CO2	7/21/2015	WNV
San Joaquin	SJCM8070	1321	Cx. pipiens	Galt	14	CO2	7/23/2015	WNV
San Joaquin	SJCM8083	1204	Cx. pipiens	Escalon	50	CO2	7/21/2015	WNV
San Joaquin	SJCM8143	1290	Cx. pipiens	Stockton	18	CO2	7/21/2015	WNV
San Joaquin	SJCM8159	1306	Cx. pipiens	Stockton	49	CO2	7/21/2015	WNV
San Joaquin	SJCM8160	1307	Cx. tarsalis	Lodi	31	CO2	7/21/2015	WNV
San Joaquin	SJCM8161	1244	Cx. pipiens	Ripon	50	CO2	7/21/2015	WNV
San Joaquin	SJCM8189	1317	Cx. pipiens	Acampo	43	CO2	7/23/2015	WNV
San Joaquin	SJCM8191	1293	Cx. tarsalis	Lodi	50	CO2	7/21/2015	WNV
San Joaquin	SJCM8191	1294	Cx. tarsalis	Lodi	14	CO2	7/21/2015	WNV
Shasta	SHAS10140	255	Cx. tarsalis		48	CO2	7/21/2015	WNV
Shasta	SHAS116	249	Cx. tarsalis	Anderson	24	CO2	7/21/2015	WNV
Shasta	SHAS148	257	Cx. tarsalis	Cottonwood	50	CO2	7/21/2015	WNV
Shasta	SHAS20050	284	Cx. tarsalis	Shingletown	13	CO2	7/22/2015	WNV
Shasta	SHAS242	266	Cx. tarsalis	Cottonwood	25	CO2	7/21/2015	WNV
Sonoma	MARN118	332	Cx. stigmatosoma	Cloverdale	50	GRVD	7/22/2015	WNV
Sonoma	MARN118	337	Cx. stigmatosoma	Cloverdale	32	GRVD	7/23/2015	WNV
Sutter	SUYA105	245	Cx. tarsalis	Yuba City	50	CO2	7/20/2015	WNV
Sutter	SUYA105	246	Cx. tarsalis	Yuba City	50	CO2	7/20/2015	WNV
Sutter	SUYA107	231	Cx. tarsalis	Live Oak	40	REST	7/20/2015	WNV
Sutter	SUYA14	224	Cx. tarsalis	Sutter	50	REST	7/20/2015	WNV
Sutter	SUYA16	228	Cx. tarsalis	Pleasant Grove	50	REST	7/20/2015	WNV
Sutter	SUYA24	227	Cx. tarsalis	Yuba City	50	REST	7/20/2015	WNV
Sutter	SUYA44	234	Cx. tarsalis	Pleasant Grove	50	REST	7/20/2015	WNV
Sutter	SUYA63	232	Cx. tarsalis	Live Oak	50	REST	7/20/2015	WNV
Sutter	SUYA63	233	Cx. tarsalis	Live Oak	50	REST	7/20/2015	WNV
Sutter	SUYA70	247	Cx. tarsalis	Yuba City	50	CO2	7/20/2015	WNV
Sutter	SUYA70	248	Cx. tarsalis	Yuba City	50	CO2	7/20/2015	WNV
Tulare	DLNO15	61	Cx. quinquefasciatus	Earlimart	22	GRVD	7/21/2015	WNV
Tulare	DLTA6407	798	Cx. quinquefasciatus	Dinuba	50	GRVD	7/21/2015	WNV
Tulare	DLTA6407	800	Cx. quinquefasciatus	Dinuba	50	GRVD	7/21/2015	WNV
Tulare	DLTA7316	791	Cx. quinquefasciatus	Traver	50	GRVD	7/21/2015	WNV
Tulare	DLTA7316	794	Cx. quinquefasciatus	Traver	16	GRVD	7/21/2015	WNV
Tulare	DLTA7502	788	Cx. quinquefasciatus	Seville	34	GRVD	7/21/2015	WNV
Tulare	DLTA7529	785	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA7529	787	Cx. quinquefasciatus	Visalia	11	GRVD	7/21/2015	WNV
Tulare	DLTA7625	772	Cx. quinquefasciatus	Woodlake	50	GRVD	7/21/2015	WNV
Tulare	DLTA8413	774	Cx. quinquefasciatus	Visalia	48	GRVD	7/21/2015	WNV
Tulare	DLTA8419	706	Cx. quinquefasciatus	Goshen	21	GRVD	7/17/2015	WNV
Tulare	DLTA8419	709	Cx. quinquefasciatus	Goshen	18	GRVD	7/17/2015	WNV
Tulare	DLTA8419	710	Cx. quinquefasciatus	Goshen	50	GRVD	7/17/2015	WNV
Tulare	DLTA8422	780	Cx. quinquefasciatus	Goshen	50	GRVD	7/21/2015	WNV
Tulare	DLTA8423	777	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA8423	778	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA8423	779	Cx. quinquefasciatus	Visalia	48	GRVD	7/21/2015	WNV

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Tulare	DLTA8424	775	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA8424	776	Cx. quinquefasciatus	Visalia	22	GRVD	7/21/2015	WNV
Tulare	DLTA8425	722	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA8425	723	Cx. quinquefasciatus	Visalia	14	GRVD	7/21/2015	WNV
Tulare	DLTA8426	720	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA8426	721	Cx. quinquefasciatus	Visalia	47	GRVD	7/21/2015	WNV
Tulare	DLTA8427	718	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA8434	741	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA8434	743	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA8434	744	Cx. quinquefasciatus	Visalia	40	GRVD	7/21/2015	WNV
Tulare	DLTA8434	745	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA8434	746	Cx. quinquefasciatus	Visalia	46	GRVD	7/21/2015	WNV
Tulare	DLTA8434	747	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA8434	750	Cx. quinquefasciatus	Visalia	33	GRVD	7/21/2015	WNV
Tulare	DLTA8501	770	Cx. quinquefasciatus	Ivanhoe	47	GRVD	7/21/2015	WNV
Tulare	DLTA8508	782	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA8508	783	Cx. quinquefasciatus	Visalia	33	GRVD	7/21/2015	WNV
Tulare	DLTA8512	766	Cx. quinquefasciatus	Ivanhoe	50	GRVD	7/21/2015	WNV
Tulare	DLTA8521	761	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA8522	758	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA8527	755	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA8528	753	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA8528	754	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA8529	751	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA8530	725	Cx. quinquefasciatus	Visalia	18	GRVD	7/21/2015	WNV
Tulare	DLTA9403	726	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA9403	727	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA9403	728	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA9403	729	Cx. quinquefasciatus	Visalia	43	GRVD	7/21/2015	WNV
Tulare	DLTA9403	730	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA9403	731	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA9403	732	Cx. quinquefasciatus	Visalia	26	GRVD	7/21/2015	WNV
Tulare	DLTA9403	733	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA9403	734	Cx. quinquefasciatus	Visalia	17	GRVD	7/21/2015	WNV
Tulare	DLTA9403	735	Cx. quinquefasciatus	Visalia	42	GRVD	7/21/2015	WNV
Tulare	DLTA9403	737	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA9403	738	Cx. quinquefasciatus	Visalia	14	GRVD	7/21/2015	WNV
Tulare	DLTA9403	739	Cx. quinquefasciatus	Visalia	50	GRVD	7/21/2015	WNV
Tulare	DLTA9403	740	Cx. quinquefasciatus	Visalia	19	GRVD	7/21/2015	WNV
Tulare	DLTA9501	840	Cx. quinquefasciatus	Farmersville	50	GRVD	7/22/2015	WNV
Tulare	DLTA9501	844	Cx. quinquefasciatus	Farmersville	50	GRVD	7/22/2015	WNV
Tulare	DLTA9501	848	Cx. quinquefasciatus	Farmersville	50	GRVD	7/22/2015	WNV
Tulare	DLTA9512	829	Cx. quinquefasciatus	Farmersville	50	GRVD	7/22/2015	WNV
Tulare	DLTA9512	830	Cx. quinquefasciatus	Farmersville	50	GRVD	7/22/2015	WNV
Tulare	DLTA9512	835	Cx. quinquefasciatus	Farmersville	50	GRVD	7/22/2015	WNV
Tulare	DLTA9512	837	Cx. quinquefasciatus	Farmersville	50	GRVD	7/22/2015	WNV
Tulare	DLTA9512	838	Cx. quinquefasciatus	Farmersville	28	GRVD	7/22/2015	WNV
Tulare	DLTA9606	811	Cx. quinquefasciatus	Farmersville	50	GRVD	7/22/2015	WNV
Tulare	DLTA9606	813	Cx. quinquefasciatus	Farmersville	50	GRVD	7/22/2015	WNV
Tulare	DLTA9606	814	Cx. quinquefasciatus	Farmersville	50	GRVD	7/22/2015	WNV
Tulare	DLTA9606	816	Cx. quinquefasciatus	Farmersville	50	GRVD	7/22/2015	WNV
Tulare	DLTA9606	817	Cx. quinquefasciatus	Farmersville	50	GRVD	7/22/2015	WNV
Tulare	DLTA9606	819	Cx. quinquefasciatus	Farmersville	50	GRVD	7/22/2015	WNV
Tulare	DLTA9606	821	Cx. quinquefasciatus	Farmersville	50	GRVD	7/22/2015	WNV

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Tulare	DLTA9606	822	Cx. quinquefasciatus	Farmersville	50	GRVD	7/22/2015	WNV
Tulare	DLTA9606	823	Cx. quinquefasciatus	Farmersville	50	GRVD	7/22/2015	WNV
Tulare	DLTA9607	824	Cx. quinquefasciatus	Farmersville	50	GRVD	7/22/2015	WNV
Yolo	SAYO103002	2668	Cx. tarsalis	Dunnigan	48	CO2	7/23/2015	WNV
Yolo	SAYO103007	2653	Cx. tarsalis	Dunnigan	50	CO2	7/23/2015	WNV
Yolo	SAYO103007	2655	Cx. tarsalis	Dunnigan	50	CO2	7/23/2015	WNV
Yolo	SAYO114001	2640	Cx. tarsalis	Zamora	50	CO2	7/23/2015	WNV
Yolo	SAYO114001	2641	Cx. tarsalis	Zamora	50	CO2	7/23/2015	WNV
Yolo	SAYO114001	2643	Cx. tarsalis	Zamora	50	CO2	7/23/2015	WNV
Yolo	SAYO116006	2633	Cx. tarsalis	Knights Landing	42	CO2	7/23/2015	WNV
Yolo	SAYO125011	2443	Cx. tarsalis	Woodland	15	CO2	7/21/2015	WNV
Yolo	SAYO135003	2442	Cx. pipiens	Woodland	5	GRVD	7/21/2015	WNV
Yolo	SAYO135005	2437	Cx. pipiens	Woodland	6	GRVD	7/21/2015	WNV
Yolo	SAYO135016	2452	Cx. tarsalis	Woodland	50	CO2	7/21/2015	WNV
Yolo	SAYO145001	2421	Cx. pipiens	Davis	2	CO2	7/21/2015	WNV
Yolo	SAYO145011	2422	Cx. tarsalis	Davis	50	CO2	7/21/2015	WNV
Yolo	SAYO145011	2423	Cx. tarsalis	Davis	50	CO2	7/21/2015	WNV
Yolo	SAYO146002	2412	Cx. pipiens	Davis	1	GRVD	7/21/2015	WNV
Yolo	SAYO146017	2427	Cx. tarsalis	Davis	50	CO2	7/21/2015	WNV
Yolo	SAYO146017	2429	Cx. tarsalis	Davis	50	CO2	7/21/2015	WNV
Yuba	SUYA10	237	Cx. tarsalis	Olivehurst	36	REST	7/20/2015	WNV
Yuba	SUYA10	252	Cx. tarsalis	Olivehurst	50	CO2	7/20/2015	WNV
Yuba	SUYA10	253	Cx. tarsalis	Olivehurst	50	CO2	7/20/2015	WNV
Yuba	SUYA37	256	Cx. tarsalis	Marysville	50	CO2	7/20/2015	WNV
Yuba	SUYA37	257	Cx. tarsalis	Marysville	50	CO2	7/20/2015	WNV

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05	Band 06	Band 07
Butte	BUCO0002	Oroville	7/14/2015	WNV	1707	1708					
Butte	BUCO0003	Oroville	7/14/2015	WNV	1713	1714	1715	1716	1717		
Butte	BUCO0004	Gridley	7/14/2015	WNV	1722	1723	1724	1743			
Butte	BUCO0005	Honcut	7/14/2015	WNV	1725	1726	1727	1728	1729	1730	
Butte	BUCO0006	Chico	7/14/2015	WNV	1736						
Contra Costa	CNTR8152	Knightsen	7/13/2015	WNV	1102	1107					
Glenn	GLEN9701	Willows	7/15/2015	WNV	1336	1338	1340				
Shasta	SHAS5038		7/16/2015	WNV	1564						
Sutter	SUYA0030	Live Oak	7/16/2015	WNV	2250	2251	2252	2253	2254	2255	2256
Yuba	SUYA0010	Olivehurst	7/16/2015	WNV	2218	2219	2221				
Yuba	SUYA0007	Marysville	7/16/2015	WNV	2208	2209	2211	2213			

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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 or confirmation.

Dead Birds

Oral swab samples from corvids are collected onto RNA preservation cards and tested by the UC Davis Center for Vectorborne Diseases (CVEC) 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 submitted to the California Department of Public Health Vector-Borne Disease Laboratory and tested for the presence of antibodies to West Nile, western equine encephalomyelitis, and St. Louis encephalitis viruses by EIA. Positive samples are confirmed by IFA, western-blot, or PRNT.

Mosquito Pools:

Mosquito pools are submitted to CVEC and screened for West Nile, western equine encephalomyelitis, and St. Louis encephalitis viral RNA using a Taqman multiplex RT-PCR. CVEC no longer performs confirmatory testing on PCR-positive pools of *Cx. tarsalis* and *Cx. quinquefasciatus* but will continue to confirm multiplex PCR-positive results for other mosquito species using singleplex RT-PCR.
