

California Arbovirus Surveillance Bulletin #30

Week 38 Friday, September 25, 2015



Weekly Update

Humans

Forty-four new human cases of West Nile virus (WNV) illness were reported this week from the following 13 counties: Butte (1), Fresno (3), Kern (1), Los Angeles (12), Madera (1), Orange (2), Riverside (8), San Bernardino (4), San Diego (3), San Joaquin (1), Stanislaus (5), Ventura (1), and Yolo (2). These are the first cases reported from Fresno and Ventura counties this year. As of September 23, a total of 201 human cases of WNV illness have been reported to the California Department of Public Health from 27 counties; 10 were fatal. At this time last year, 311 cases had been reported from 28 counties. Of the 201 case-patients, 137 (68%) had neuroinvasive illness. The median age of the individuals is 57 years (range: 5-98 years); 122 (61%) are male. Dates of symptom onset ranged from May 15 to September 13. In addition, 35 asymptomatic WNV-positive blood donors have been reported from: Butte (5), Fresno (4), Glenn (2), Kern (1), Los Angeles (8), Napa (1), Orange (2), Placer (1), Riverside (2), Sacramento (1), San Bernardino (4), Tehama (2), Tulare (1), and Yolo (1).

Dead Birds

A total of 112 WNV positive dead birds were reported this week from the following 15 counties: Alameda (1), Los Angeles (7), Orange (6), Placer (1), Riverside (9), Sacramento (3), San Bernardino (4), San Diego (49), San Joaquin (1), San Mateo (2), Santa Clara (19), Shasta (1), Solano (1), Ventura (5), and Yolo (3). In 2015, 967 birds have tested positive for WNV from 36 counties. At this time last year, 2,079 WNV positive birds had been detected in 35 counties.

Mosquito Pools

A total of 100 WNV positive mosquito pools were reported this week from the following 15 counties: Contra Costa (2), Fresno (3), Kern (2), Los Angeles (16), Madera (1), Orange (24), Riverside (2), Sacramento (7), San Bernardino (10), San Joaquin (8), Santa Clara (8), Solano (1), Sonoma (2), Stanislaus (9), and Tulare (5). In addition, 6 mosquito pools from Riverside County tested positive for St. Louis encephalitis virus (SLEV). In 2015, 2,768 mosquito pools have tested positive for WNV from 29 counties, and 35 mosquito pools have tested positive for SLEV from one county (Riverside). At this time last year, 2,952 WNV mosquito pools had been reported from 29 counties.

Sentinel Chickens

A total of 45 WNV seroconversions were reported this week from 25 flocks located in 6 counties: Los Angeles (31), Riverside (3), San Bernardino (2), Santa Clara (1), Tehama (7), and Ventura (1). In addition, one SLEV seroconversion was reported from a flock in Riverside County. In 2015, 314 WNV seroconversions have been detected among 78 flocks located in 21 counties and 3 SLEV seroconversions have been detected from 2 flocks in Riverside County. At this time last year, 328 WNV positive chickens had been reported from 85 flocks in 21 counties.

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YTD WNV Activity by Element and County, 2015				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		15	4	
Butte	43	38	94	37
Colusa	1	3		10
Contra Costa		8	6	14
El Dorado		3		
Fresno	3	3	100	
Glenn	17	4	21	8
Humboldt		2		
Kern	5	1	135	
Kings		3	139	
Lake	2	5	30	4
Los Angeles	24	38	163	62
Madera	2	1	20	
Marin	1	3		
Mendocino	1			
Merced		2	8	17
Napa		7		
Nevada	2	10		3
Orange	20	44	351	
Placer		20	49	8
Riverside	23	64	138	14
Sacramento	1	88	147	1
San Bernardino	11	23	224	25
San Diego	4	207	8	
San Joaquin	2	16	198	
San Mateo		14	5	
Santa Barbara			1	
Santa Clara	3	179	19	5
Shasta	2	15	48	19
Siskiyou	1			
Solano		9	5	6
Sonoma		7	11	
Stanislaus	9	13	74	9
Sutter	2	16	54	35
Tehama	4			18
Trinity		2		
Tulare	4	22	524	
Ventura	1	19		5
Yolo	6	57	169	3
Yuba	7	6	23	11
Totals	201	967	2,768	314

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2014 & 2015 YTD West Nile Virus Comparisons		
	2014	2015
Total # Dead Bird Reports	12,200	8,957
# Positive Counties	38	40
# Human Cases	238	201
# Positive Dead Birds / # Tested	2,079 / 3,394	967 / 2,552
# Positive Mosquito Pools / # Tested	2,952 / 24,541	2,768 / 29,656
# Seroconversions / # Tested	328 / 11,914	314 / 9,945

TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Human Cases	Week	44	0	0
	YTD	201	0	0

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	154	112
	YTD	2,552	967

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	374	45	1	0
	YTD	9,945	314	3	0
Mosquito Pools	Week	1,531	100	6	0
	YTD	29,656	2,768	35	0

NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	San Lorenzo	94580	American Crow	9/23/2015	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Pico Rivera	90660	American Crow	9/17/2015	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Sylmar	91342	American Crow	9/21/2015	WNV
Los Angeles	Los Angeles Co Veterinarian	Los Angeles	90066	Unknown	9/17/2015	WNV
Los Angeles	Los Angeles Co Veterinarian	Mar Vista	90066	American Crow	9/17/2015	WNV
Los Angeles	Los Angeles Co Veterinarian	Reseda	91335	American Crow	9/17/2015	WNV
Los Angeles	Los Angeles Co Veterinarian	Van Nuys	91405	American Crow	9/22/2015	WNV
Los Angeles	San Gabriel Valley MVCD	Glendora	91741	American Crow	9/20/2015	WNV
Orange	Orange Co VCD	Irvine	92603	American Crow	9/14/2015	WNV
Orange	Orange Co VCD	Lake Forest	92630	House Finch	9/14/2015	WNV
Orange	Orange Co VCD	Placentia	92870	American Crow	9/14/2015	WNV
Orange	Orange Co VCD	Placentia	92870	American Crow	9/16/2015	WNV
Orange	Orange Co VCD	Rossmoor	90720	American Crow	9/16/2015	WNV

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Orange	Orange Co VCD	Santa Ana	92705	Mourning Dove	9/14/2015	WNV
Placer	Placer MVCD	Rocklin	95677	Western Scrub-Jay	9/18/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	9/11/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	9/11/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	9/14/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	9/14/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	9/17/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	9/17/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	9/18/2015	WNV
Riverside	Northwest Mosquito VCD	Riverside	92503	American Crow	9/15/2015	WNV
Riverside	Northwest Mosquito VCD	Riverside	92509	American Crow	9/16/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Spotted Towhee	9/19/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95818	Western Scrub-Jay	9/20/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	Wilson's Warbler	9/18/2015	WNV
San Bernardino	San Bernardino Vector Control Program	Redlands	92374	American Crow	9/14/2015	WNV
San Bernardino	San Bernardino Vector Control Program	Yucaipa	92399	American Crow	9/16/2015	WNV
San Bernardino	San Bernardino Vector Control Program	Yucaipa	92399	American Crow	9/17/2015	WNV
San Bernardino	San Bernardino Vector Control Program	Yucaipa	92399	Western Scrub-Jay	9/21/2015	WNV
San Diego	San Diego Co VCP	Bonita	91902	American Crow	9/23/2015	WNV
San Diego	San Diego Co VCP	Carlsbad	92008	American Crow	9/21/2015	WNV
San Diego	San Diego Co VCP	Carlsbad	92008	American Crow	9/23/2015	WNV
San Diego	San Diego Co VCP	Chula Vista	91910	American Crow	9/21/2015	WNV
San Diego	San Diego Co VCP	Chula Vista	91910	American Crow	9/23/2015	WNV
San Diego	San Diego Co VCP	Chula Vista	91911	American Crow	9/17/2015	WNV
San Diego	San Diego Co VCP	Coronado	92118	American Crow	9/21/2015	WNV
San Diego	San Diego Co VCP	Coronado	92118	American Crow	9/23/2015	WNV
San Diego	San Diego Co VCP	Coronado	92118	American Crow	9/24/2015	WNV
San Diego	San Diego Co VCP	Escondido	92025	American Crow	9/22/2015	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	9/17/2015	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	9/17/2015	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	9/17/2015	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	9/23/2015	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	9/23/2015	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	9/23/2015	WNV
San Diego	San Diego Co VCP	La Jolla	92037	American Crow	9/17/2015	WNV
San Diego	San Diego Co VCP	Lakeside	92040	American Crow	9/21/2015	WNV
San Diego	San Diego Co VCP	Oceanside	92058	American Crow	9/17/2015	WNV
San Diego	San Diego Co VCP	Poway	92064	American Crow	9/17/2015	WNV
San Diego	San Diego Co VCP	Poway	92064	American Crow	9/23/2015	WNV
San Diego	San Diego Co VCP	Ramona	92065	American Crow	9/17/2015	WNV
San Diego	San Diego Co VCP	Ramona	92065	American Crow	9/17/2015	WNV
San Diego	San Diego Co VCP	Ramona	92065	American Crow	9/18/2015	WNV
San Diego	San Diego Co VCP	Ramona	92065	American Crow	9/18/2015	WNV
San Diego	San Diego Co VCP	Ramona	92065	American Crow	9/23/2015	WNV
San Diego	San Diego Co VCP	San Diego	92019	American Crow	9/24/2015	WNV
San Diego	San Diego Co VCP	San Diego	92037	American Crow	9/23/2015	WNV
San Diego	San Diego Co VCP	San Diego	92103	Western Scrub-Jay	9/24/2015	WNV
San Diego	San Diego Co VCP	San Diego	92104	American Crow	9/22/2015	WNV
San Diego	San Diego Co VCP	San Diego	92106	American Crow	9/23/2015	WNV
San Diego	San Diego Co VCP	San Diego	92108	American Crow	9/17/2015	WNV
San Diego	San Diego Co VCP	San Diego	92109	Sharp-shinned Hawk	9/24/2015	WNV
San Diego	San Diego Co VCP	San Diego	92110	American Crow	9/21/2015	WNV
San Diego	San Diego Co VCP	San Diego	92110	American Crow	9/22/2015	WNV
San Diego	San Diego Co VCP	San Diego	92110	American Crow	9/23/2015	WNV
San Diego	San Diego Co VCP	San Diego	92111	American Crow	9/17/2015	WNV
San Diego	San Diego Co VCP	San Diego	92111	American Crow	9/23/2015	WNV
San Diego	San Diego Co VCP	San Diego	92113	American Crow	9/22/2015	WNV
San Diego	San Diego Co VCP	San Diego	92115	American Crow	9/23/2015	WNV
San Diego	San Diego Co VCP	San Diego	92117	American Crow	9/17/2015	WNV

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San Diego	San Diego Co VCP	San Diego	92117	American Crow	9/22/2015	WNV
San Diego	San Diego Co VCP	San Diego	92119	American Crow	9/18/2015	WNV
San Diego	San Diego Co VCP	San Diego	92124	American Crow	9/17/2015	WNV
San Diego	San Diego Co VCP	San Diego	92128	American Crow	9/23/2015	WNV
San Diego	San Diego Co VCP	San Marcos	92078	Western Scrub-Jay	9/24/2015	WNV
San Diego	San Diego Co VCP	Santee	92071	American Crow	9/22/2015	WNV
San Diego	San Diego Co VCP	Santee	92071	American Crow	9/23/2015	WNV
San Diego	San Diego Co VCP	Solana Beach	92075	American Crow	9/18/2015	WNV
San Joaquin	San Joaquin Co MVCD	Manteca	95337	Yellow-billed Magpie	9/18/2015	WNV
San Mateo	San Mateo Co MAD	Menlo Park	94025	American Crow	9/23/2015	WNV
San Mateo	San Mateo Co MAD	Redwood city	94062	Western Scrub-Jay	9/16/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	9/22/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	9/22/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	9/22/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	9/22/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Gatos	95032	American Crow	9/17/2015	WNV
Santa Clara	Santa Clara Co VCD	Mountain View	94040	American Crow	9/20/2015	WNV
Santa Clara	Santa Clara Co VCD	Mountain View	94040	American Crow	9/21/2015	WNV
Santa Clara	Santa Clara Co VCD	Mountain View	94040	American Crow	9/21/2015	WNV
Santa Clara	Santa Clara Co VCD	Mountain View	94040	American Crow	9/22/2015	WNV
Santa Clara	Santa Clara Co VCD	Mountain View	94041	Common Raven	9/20/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95120	American Crow	9/18/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95121	American Crow	9/19/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95123	American Crow	9/23/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	9/22/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95124	Common Raven	9/18/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	9/19/2015	WNV
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	9/18/2015	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	9/21/2015	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	9/22/2015	WNV
Shasta	Shasta MVCD	Redding	96002	American Crow	9/17/2015	WNV
Solano	Solano Co MAD	Dixon	95620	American Crow	9/10/2015	WNV
Ventura	Ventura Co Env Health Dept	Ojai	93023	American Crow	9/11/2015	WNV
Ventura	Ventura Co Env Health Dept	Ojai	93023	American Crow	9/11/2015	WNV
Ventura	Ventura Co Env Health Dept	Ojai	93023	American Crow	9/15/2015	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93063	American Crow	8/31/2015	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93065	American Crow	9/13/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/17/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	9/21/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Western Scrub-Jay	9/18/2015	WNV

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Contra Costa	CNTR3802	290	Cx. tarsalis	Antioch	17	CO2	9/21/2015	WNV
Contra Costa	CNTR5525	294	Cx. tarsalis	Byron	42	CO2	9/21/2015	WNV
Fresno	FRWS100006	251	Cx. tarsalis	Dos Palos	50	CO2	9/22/2015	WNV
Fresno	FRWS100006	252	Cx. tarsalis	Dos Palos	50	CO2	9/22/2015	WNV
Fresno	FRWS500003	241	Cx. tarsalis	Mendota	50	CO2	9/17/2015	WNV
Kern	WEST6219	58	Cx. tarsalis	Lost Hills	50	CO2	9/23/2015	WNV
Kern	WEST6231	55	Cx. quinquefasciatus	Taft	50	GRVD	9/23/2015	WNV
Los Angeles	GRLA2101	664	Cx. quinquefasciatus	Santa Fe Springs	12	GRVD	9/17/2015	WNV
Los Angeles	GRLA2166	661	Cx. quinquefasciatus	Montebello	25	GRVD	9/17/2015	WNV
Los Angeles	GRLA2247	662	Cx. quinquefasciatus	Pico Rivera	22	GRVD	9/17/2015	WNV

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Los Angeles	GRLA2268	670	Cx. quinquefasciatus	Cerritos	31	GRVD	9/17/2015	WNV
Los Angeles	GRLA2952	665	Cx. quinquefasciatus	South Whittier(LA County)	41	GRVD	9/17/2015	WNV
Los Angeles	GRLA3027	5792	Cx. quinquefasciatus	Studio City	46	GRVD	9/17/2015	WNV
Los Angeles	GRLA3038	5797	Cx. quinquefasciatus	Valley Village	50	CO2	9/17/2015	WNV
Los Angeles	GRLA3041	669	Cx. quinquefasciatus	Artesia	29	GRVD	9/17/2015	WNV
Los Angeles	GRLA3048	663	Cx. quinquefasciatus	Pico Rivera	14	GRVD	9/17/2015	WNV
Los Angeles	GRLA3066	5800	Cx. quinquefasciatus	North Hollywood	50	GRVD	9/17/2015	WNV
Los Angeles	GRLA3079	5802	Cx. quinquefasciatus	North Hollywood	31	GRVD	9/17/2015	WNV
Los Angeles	GRLA3080	5799	Cx. quinquefasciatus	North Hollywood	43	CO2	9/17/2015	WNV
Los Angeles	GRLA3102	5796	Cx. quinquefasciatus	Studio City	42	CO2	9/17/2015	WNV
Los Angeles	GRLA3132	5790	Cx. quinquefasciatus	Los Angeles	27	GRVD	9/15/2015	WNV
Los Angeles	LACW1054	176	Cx. quinquefasciatus	Inglewood	42	CO2	9/17/2015	WNV
Los Angeles	SGVA1	371	Cx. quinquefasciatus	City of Industry	6	GRVD	9/24/2015	WNV
Madera	MADR3334	280	Cx. quinquefasciatus	Madera	50	CO2	9/22/2015	WNV
Orange	ORCO1	3513	Cx. quinquefasciatus	Irvine	7	GRVD	9/17/2015	WNV
Orange	ORCO1000	3622	Cx. quinquefasciatus	Placentia	16	GRVD	9/23/2015	WNV
Orange	ORCO1006	3635	Cx. quinquefasciatus	Cypress	18	GRVD	9/23/2015	WNV
Orange	ORCO1006	3637	Cx. quinquefasciatus	Cypress	7	GRVD	9/23/2015	WNV
Orange	ORCO1011	3542	Cx. quinquefasciatus	La Habra	50	GRVD	9/17/2015	WNV
Orange	ORCO1011	3543	Cx. quinquefasciatus	La Habra	50	GRVD	9/17/2015	WNV
Orange	ORCO1011	3546	Cx. quinquefasciatus	La Habra	45	GRVD	9/17/2015	WNV
Orange	ORCO1011	3547	Cx. quinquefasciatus	La Habra	25	GRVD	9/17/2015	WNV
Orange	ORCO1011	3548	Cx. quinquefasciatus	La Habra	38	GRVD	9/17/2015	WNV
Orange	ORCO1015	3499	Cx. quinquefasciatus	Orange	36	GRVD	9/17/2015	WNV
Orange	ORCO1015	3553	Cx. quinquefasciatus	Orange	13	GRVD	9/18/2015	WNV
Orange	ORCO1015	3555	Cx. quinquefasciatus	Orange	6	GRVD	9/18/2015	WNV
Orange	ORCO1015	3583	Cx. quinquefasciatus	Orange	27	GRVD	9/22/2015	WNV
Orange	ORCO17	3596	Cx. quinquefasciatus	Orange	27	GRVD	9/22/2015	WNV
Orange	ORCO175	3539	Cx. quinquefasciatus	Orange	23	GRVD	9/17/2015	WNV
Orange	ORCO18	3526	Cx. quinquefasciatus	Lake Forest	21	GRVD	9/17/2015	WNV
Orange	ORCO19	3538	Cx. erythrothorax	Newport Beach	17	CO2	9/17/2015	WNV
Orange	ORCO202	3581	Cx. quinquefasciatus	Fullerton	27	GRVD	9/22/2015	WNV
Orange	ORCO207	3500	Cx. quinquefasciatus	Santa Ana	3	CO2	9/17/2015	WNV
Orange	ORCO227	3624	Cx. quinquefasciatus	Brea	18	GRVD	9/23/2015	WNV
Orange	ORCO29	3600	Cx. quinquefasciatus	Santa Ana	32	GRVD	9/23/2015	WNV
Orange	ORCO29	3601	Cx. quinquefasciatus	Santa Ana	34	CO2	9/23/2015	WNV
Orange	ORCO34	3577	Cx. quinquefasciatus	Brea	24	GRVD	9/22/2015	WNV
Orange	ORCO81	3631	Cx. quinquefasciatus	Seal Beach	31	GRVD	9/23/2015	WNV
Riverside	COAV121	2990	Cx. tarsalis	Mecca	50	CO2	9/22/2015	SLEV
Riverside	COAV200	2896	Cx. tarsalis	Mecca	17	CO2	9/17/2015	SLEV
Riverside	COAV27	2959	Cx. tarsalis	North Shore	36	CO2	9/22/2015	SLEV
Riverside	COAV33	2961	Cx. tarsalis	Mecca	50	CO2	9/22/2015	SLEV
Riverside	COAV46	2984	Cx. tarsalis	Mecca	50	CO2	9/22/2015	SLEV
Riverside	COAV537	3023	Cx. tarsalis	Thermal	50	CO2	9/24/2015	SLEV
Riverside	RIVR52	512	Cx. quinquefasciatus	Moreno Valley	39	CO2	9/17/2015	WNV
Riverside	RIVR88	494	Cx. tarsalis	Nuevo	50	CO2	9/15/2015	WNV
Sacramento	SAYO214040	5542	Cx. pipiens	Rancho Cordova	16	GRVD	9/17/2015	WNV
Sacramento	SAYO224012	5559	Cx. pipiens	Rancho Cordova	7	GRVD	9/17/2015	WNV
Sacramento	SAYO233015	5740	Cx. pipiens	Sacramento	9	GRVD	9/22/2015	WNV
Sacramento	SAYO233065	5730	Cx. pipiens	Elk Grove	17	CO2	9/22/2015	WNV
Sacramento	SAYO233075	5693	Cx. tarsalis	Elk Grove	11	CO2	9/22/2015	WNV
Sacramento	SAYO253009	5590	Cx. tarsalis	Galt	15	CO2	9/17/2015	WNV

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Sacramento	SAYO253009	5591	Cx. pipiens	Galt	50	CO2	9/17/2015	WNV
San Bernardino	WVAL5004	1418	Cx. quinquefasciatus	Rancho Cucamonga	17	GRVD	9/15/2015	WNV
San Bernardino	WVAL5005	1413	Cx. quinquefasciatus	Rancho Cucamonga	17	GRVD	9/15/2015	WNV
San Bernardino	WVAL5005	1481	Cx. quinquefasciatus	Rancho Cucamonga	27	GRVD	9/22/2015	WNV
San Bernardino	WVAL5006	1421	Cx. quinquefasciatus	Rancho Cucamonga	16	GRVD	9/15/2015	WNV
San Bernardino	WVAL5011	1411	Cx. quinquefasciatus	Fwy I-15	7	GRVD	9/15/2015	WNV
San Bernardino	WVAL6002	1468	Cx. stigmatosoma	Ontario	25	CO2	9/22/2015	WNV
San Bernardino	WVAL6004	1477	Cx. quinquefasciatus	Ontario	18	GRVD	9/22/2015	WNV
San Bernardino	WVAL6009	1425	Cx. quinquefasciatus	Ontario	13	GRVD	9/15/2015	WNV
San Bernardino	WVAL7001	1423	Cx. quinquefasciatus	Montclair	13	GRVD	9/15/2015	WNV
San Bernardino	WVAL7002	1486	Cx. quinquefasciatus	Montclair	21	GRVD	9/22/2015	WNV
San Joaquin	SJCM8009	2477	Cx. tarsalis	Stockton	50	CO2	9/22/2015	WNV
San Joaquin	SJCM8032	2423	Cx. tarsalis	Escalon	10	CO2	9/22/2015	WNV
San Joaquin	SJCM8032	2424	Cx. pipiens	Escalon	50	CO2	9/22/2015	WNV
San Joaquin	SJCM8070	2506	Cx. tarsalis	Galt	6	CO2	9/24/2015	WNV
San Joaquin	SJCM8083	2416	Cx. pipiens	Escalon	50	CO2	9/22/2015	WNV
San Joaquin	SJCM8083	2417	Cx. pipiens	Escalon	55	CO2	9/22/2015	WNV
San Joaquin	SJCM8106	2412	Cx. pipiens	Escalon	50	CO2	9/22/2015	WNV
San Joaquin	SJCM8135	2398	Cx. pipiens	Mountain House	16	CO2	9/22/2015	WNV
Santa Clara	STCL158	6095	Cx. tarsalis		9	CO2	9/2/2015	WNV
Santa Clara	STCL1740	6150	Cx. pipiens	San Jose	19	CO2	9/17/2015	WNV
Santa Clara	STCL1776	6143	Cx. pipiens	San Jose	19	CO2	9/17/2015	WNV
Santa Clara	STCL3415	6137	Cx. pipiens	San Jose	1	CO2	9/12/2015	WNV
Santa Clara	STCL979	6129	Cx. tarsalis	Santa Clara	25	CO2	9/10/2015	WNV
Santa Clara	STCL984	6126	Cx. pipiens	San Jose	20	CO2	9/10/2015	WNV
Santa Clara	STCL984	6127	Cx. tarsalis	San Jose	24	CO2	9/10/2015	WNV
Santa Clara	STCL999	6112	Cx. tarsalis	Santa Clara	22	CO2	9/10/2015	WNV
Solano	SOLA120	166	Cx. pipiens	Vacaville	11	CO2	9/9/2015	WNV
Sonoma	MARN313	607	Cx. stigmatosoma	Santa Rosa	50	GRVD	9/22/2015	WNV
Sonoma	MARN313	608	Cx. stigmatosoma	Santa Rosa	50	GRVD	9/22/2015	WNV
Stanislaus	TRLK1214	1555	Cx. pipiens	Turlock	50	CO2	9/22/2015	WNV
Stanislaus	TRLK1309	1468	Cx. pipiens	Hughson	16	CO2	9/22/2015	WNV
Stanislaus	TRLK407	1484	Cx. pipiens	Turlock	50	CO2	9/22/2015	WNV
Stanislaus	TRLK516	1456	Cx. pipiens	Denair	50	CO2	9/22/2015	WNV
Stanislaus	TRLK516	1460	Cx. pipiens	Denair	50	CO2	9/22/2015	WNV
Stanislaus	TRLK526	1539	Cx. pipiens	Denair	50	CO2	9/22/2015	WNV
Stanislaus	TRLK526	1540	Cx. pipiens	Denair	49	CO2	9/22/2015	WNV
Stanislaus	TRLK536	1438	Cx. pipiens	Turlock	50	CO2	9/17/2015	WNV
Stanislaus	TRLK613	1465	Cx. pipiens	Hickman	50	CO2	9/22/2015	WNV
Tulare	DLTA8419	1642	Cx. quinquefasciatus	Goshen	35	GRVD	9/24/2015	WNV
Tulare	DLTA8536	1646	Cx. quinquefasciatus	Farmersville	49	GRVD	9/24/2015	WNV
Tulare	DLTA9504	1605	Cx. quinquefasciatus	Visalia	46	GRVD	9/22/2015	WNV
Tulare	DLTA9603	1621	Cx. quinquefasciatus	Exeter	29	GRVD	9/23/2015	WNV
Tulare	DLTA9604	1625	Cx. quinquefasciatus	Exeter	30	GRVD	9/23/2015	WNV

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Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Los Angeles	ANTV2667	Palmdale	9/16/2015	WNV	1037			
Los Angeles	ANTV2877	Lancaster	9/16/2015	WNV	1025			
Los Angeles	ANTV3247	Lancaster	9/16/2015	WNV	1004	1005		
Los Angeles	ANTV8652	Palmdale	9/16/2015	WNV	1032	1033		
Los Angeles	GRLA2223	Rowland Heights	9/16/2015	WNV	5328			
Los Angeles	GRLA2056	Long Beach	9/17/2015	WNV	5301	5306	5308	
Los Angeles	GRLA2465	Los Feliz	9/14/2015	WNV	5343	5345	5348	
Los Angeles	GRLA2651	Encino	9/14/2015	WNV	5351	5354	5356	5357
Los Angeles	LACW1009	Los Angeles	9/2/2015	WNV	1444	1447	1448	
Los Angeles	LACW1010	Los Angeles(Miracle Mile)	9/3/2015	WNV	1449	1452	1454	
Los Angeles	LACW1012	Venice	9/10/2015	WNV	1456			
Los Angeles	LACW1022	Pacific Palisades	9/9/2015	WNV	1470			
Los Angeles	LACW1026	Beverly Hills	9/10/2015	WNV	1492	1494		
Los Angeles	LACW1049	Inglewood	9/9/2015	WNV	1502			
Los Angeles	LACW1073	Los Angeles	9/1/2015	WNV	1505	1507	1509	
Riverside	COAV0122	Mecca	9/14/2015	SLEV	2551			
Riverside	COAV0200	Mecca	9/14/2015	WNV	2579			
Riverside	RIVR0072	Mead Valley	9/16/2015	WNV	1937	1942		
San Bernardino	SANB0008	Upland	9/16/2015	WNV	2050			
San Bernardino	SANB0029	San Bernardino	9/14/2015	WNV	2028			
Santa Clara	STCL0702	San Jose	9/21/2015	WNV	2148			
Tehama	TEHA0001	Red Bluff	9/8/2015	WNV	2369	2370		
Tehama	TEHA0100	Corning	9/9/2015	WNV	2371	2377	2379	
Tehama	TEHA0066	Cottonwood	9/8/2015	WNV	2351	2360		
Ventura	MOOR0029	Moorpark	9/1/2015	WNV	1396			

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.

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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.

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