

California Arbovirus Surveillance Bulletin #28

Week 36 Friday, September 11, 2015



Weekly Update

Humans

Fifteen new human cases of West Nile virus (WNV) illness were reported this week from the following 9 counties: Butte (2), Lake (1), Los Angeles (1), Madera (1), Orange (2), Riverside (2), Santa Clara (1), Shasta (2), and Yuba (3). These are the first cases reported from Madera and Shasta counties this year.

As of September 9, a total of 123 human cases of WNV illness have been reported to the California Department of Public Health from 23 counties; two were fatal. At this time last year, 181 cases had been reported from 22 counties. Of the 123 case-patients, 74 (60%) had neuroinvasive illness. The median age of the individuals is 55 years (range: 5-91 years); 75 (61%) are male. Dates of symptom onset ranged from May 15 to August 26. In addition, 25 asymptomatic WNV-positive blood donors have been reported this year from the following counties: Butte (5), Glenn (2), Los Angeles (6), Napa (1), Orange (1), Placer (1), Riverside (1), Sacramento (1), San Bernardino (3), Tehama (2) and Tulare (1), and Yolo (1).

Dead Birds

A total of 74 WNV positive dead birds were reported this week from the following 15 counties: Contra Costa (1), Los Angeles (14), Nevada (1), Orange (6), Placer (5), Riverside (2), Sacramento (8), San Bernardino (2), San Diego (10), San Joaquin (1), San Mateo (1), Santa Clara (19), Shasta (1), Sonoma (1), and Yolo (2). In 2015, 762 birds have tested positive for WNV from 36 counties. At this time last year, 1,827 WNV positive birds had been detected in 34 counties.

Mosquito Pools

A total of 141 WNV positive mosquito pools were reported this week from the following 19 counties: Alameda (1), Butte (3), Contra Costa (1), Fresno (6), Kern (4), Kings (19), Lake (1), Los Angeles (16), Madera (3), Placer (4), Riverside (7), Sacramento (11), San Bernardino (23), San Joaquin (11), Shasta (1), Stanislaus (6), Sutter (2), Tulare (18), and Yolo (4). An additional 8 mosquito pools from Riverside County tested positive for St. Louis encephalitis virus (SLEV). In 2015, 2,444 mosquito pools have tested positive for WNV from 29 counties, and 29 mosquito pools have tested positive for SLEV from one county (Riverside). At this time last year, 2,660 WNV mosquito pools had been reported from 29 counties.

Sentinel Chickens

A total of 42 WNV seroconversions were reported this week from 24 flocks located in 8 counties: Contra Costa (2), Los Angeles (25), Merced (4), Nevada (1), Riverside (6), San Bernardino (2), Santa Clara (1), and Yolo (1). **This is the first seroconversion detected in Nevada County this year.** In 2015, 235 WNV seroconversions have been detected among 67 flocks located in 21 counties. At this time last year, 274 WNV positive chickens had been reported from 73 flocks in 20 counties.

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YTD Activity by Element and County, 2015				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		13	4	
Butte	40	37	91	37
Colusa	1	3		10
Contra Costa		8	3	8
El Dorado		2		
Fresno		3	81	
Glenn	17	4	21	8
Humboldt		2		
Kern	3	1	126	
Kings		3	131	
Lake	2	5	29	2
Los Angeles	4	26	134	31
Madera	1	1	18	
Marin		3		
Mendocino	1			
Merced		2	8	12
Napa		7		
Nevada	2	10		1
Orange	6	33	204	
Placer		18	49	8
Riverside	11	46	132	9
Sacramento		83	130	1
San Bernardino	4	18	209	14
San Diego	1	139	8	
San Joaquin	1	13	189	
San Mateo		11	5	
Santa Barbara			1	
Santa Clara	3	125	11	4
Shasta	2	14	48	15
Siskiyou	1			
Solano		8	4	6
Sonoma		6	9	
Stanislaus	3	13	55	9
Sutter	2	16	54	31
Tehama	3			11
Trinity		2		
Tulare	4	22	500	
Ventura		8		4
Yolo	4	51	167	3
Yuba	7	6	23	11
Totals	123	762	2,444	235

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2014 & 2015 YTD West Nile Virus Comparisons		
	2014	2015
Total # Dead Bird Reports	11,239	8,314
# Positive Counties	37	40
# Human Cases	181	123
# Positive Dead Birds / # Tested	1,827 / 3,036	762 / 2,242
# Positive Mosquito Pools / # Tested	2,660 / 21,832	2,444 / 26,527
# Seroconversions / # Tested	274 / 10,979	235 / 9,134

TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Human Cases	Week	15	0	0
	YTD	123	0	0

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	95	74
	YTD	2,242	762

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	226	42	0	0
	YTD	9,134	235	0	0
Mosquito Pools	Week	1,210	141	8	0
	YTD	26,527	2,444	29	0

NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Contra Costa	Contra Costa MVCD	San Ramon	94583	American Crow	9/9/2015	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Woodland Hills	91364	American Crow	9/1/2015	WNV
Los Angeles	Los Angeles Co Veterinarian	Agoura	91301	American Crow	8/31/2015	WNV
Los Angeles	Los Angeles Co Veterinarian	Beverly Hills	90212	American Crow	9/1/2015	WNV
Los Angeles	Los Angeles Co Veterinarian	Calabasas	91302	Great Horned Owl	9/8/2015	WNV
Los Angeles	Los Angeles Co Veterinarian	Covina	91722	American Crow	8/31/2015	WNV
Los Angeles	Los Angeles Co Veterinarian	Los Angeles	90036	American Crow	8/26/2015	WNV
Los Angeles	Los Angeles Co Veterinarian	North Hollywood	91601	American Crow	9/8/2015	WNV
Los Angeles	Los Angeles Co Veterinarian	North Hollywood	91602	American Crow	8/28/2015	WNV
Los Angeles	Los Angeles Co Veterinarian	Pomona	91766	American Crow	9/4/2015	WNV
Los Angeles	Los Angeles Co Veterinarian	Santa Monica	90402	American Crow	9/8/2015	WNV
Los Angeles	Los Angeles Co Veterinarian	Sun Valley	91352	American Crow	9/8/2015	WNV
Los Angeles	Los Angeles Co Veterinarian	Van Nuys	91405	American Crow	8/25/2015	WNV
Los Angeles	Los Angeles Co Veterinarian	Westlake Village	91361	American Crow	9/8/2015	WNV
Los Angeles	San Gabriel Valley MVCD	San Dimas	91773	Finch	8/28/2015	WNV
Nevada	Nevada Co Env Health - Nevada City	Penn Valley	95946	Unknown-hawk	8/28/2015	WNV

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Orange	Orange Co VCD	Irvine	92603	American Crow	8/27/2015	WNV
Orange	Orange Co VCD	Lake Forest	92630	American Crow	8/27/2015	WNV
Orange	Orange Co VCD	Orange	92866	American Crow	8/31/2015	WNV
Orange	Orange Co VCD	Orange	92867	American Crow	9/1/2015	WNV
Orange	Orange Co VCD	Tustin	92780	American Crow	8/21/2015	WNV
Orange	Orange Co VCD	Tustin	92780	American Crow	9/1/2015	WNV
Placer	Placer MVCD	Granite Bay	95746	House Finch	9/8/2015	WNV
Placer	Placer MVCD	Rocklin	95677	House Finch	9/4/2015	WNV
Placer	Placer MVCD	Rocklin	95765	Western Scrub-Jay	9/3/2015	WNV
Placer	Placer MVCD	Roseville	95661	Western Scrub-Jay	9/3/2015	WNV
Placer	Placer MVCD	Roseville	95678	House Finch	9/4/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/31/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	Common Raven	8/31/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	American Crow	9/5/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	9/3/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Yellow-billed Magpie	9/8/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95757	Yellow-billed Magpie	9/8/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	House Finch	9/6/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Galt	95632	Western Scrub-Jay	9/8/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	American Crow	9/6/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95834	Yellow-billed Magpie	9/4/2015	WNV
San Bernardino	West Valley MVCD	Ontario	91761	American Crow	8/27/2015	WNV
San Bernardino	West Valley MVCD	Ontario	91762	American Crow	8/24/2015	WNV
San Diego	San Diego Co VCP	Alpine	91901	American Crow	9/8/2015	WNV
San Diego	San Diego Co VCP	Carlsbad	92009	American Crow	9/8/2015	WNV
San Diego	San Diego Co VCP	Chula Vista	91911	American Crow	9/8/2015	WNV
San Diego	San Diego Co VCP	Encinitas	92024	American Crow	9/8/2015	WNV
San Diego	San Diego Co VCP	Lakeside	92040	American Crow	9/8/2015	WNV
San Diego	San Diego Co VCP	Poway	92064	Western Scrub-Jay	9/3/2015	WNV
San Diego	San Diego Co VCP	Ramona	92065	American Crow	9/8/2015	WNV
San Diego	San Diego Co VCP	Ramona	92065	American Crow	9/8/2015	WNV
San Diego	San Diego Co VCP	Ramona	92065	American Crow	9/8/2015	WNV
San Diego	San Diego Co VCP	Ramona	92065	American Crow	9/8/2015	WNV
San Diego	San Diego Co VCP	Ramona	92065	American Crow	9/8/2015	WNV
San Joaquin	San Joaquin Co MVCD	Tracy	95304	American Crow	9/8/2015	WNV
San Mateo	San Mateo Co MAD	Menlo Park	94025	American Crow	9/3/2015	WNV
Santa Clara	Santa Clara Co VCD	Cupertino	95014	American Crow	8/30/2015	WNV
Santa Clara	Santa Clara Co VCD	Cupertino	95014	American Crow	9/1/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	9/1/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	9/3/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	9/4/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	9/4/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94024	American Crow	9/1/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Gatos	95032	American Crow	9/2/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Gatos	95032	American Crow	9/3/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Gatos	95032	Western Scrub-Jay	8/31/2015	WNV
Santa Clara	Santa Clara Co VCD	Mountain View	94040	Steller's Jay	9/2/2015	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94301	American Crow	9/3/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95112	American Crow	9/2/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95123	American Crow	9/4/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95123	Western Scrub-Jay	9/4/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	9/4/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95124	Unknown	8/31/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95129	American Crow	8/30/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95131	American Crow	9/3/2015	WNV
Shasta	Shasta MVCD	Redding	96003	American Crow	9/4/2015	WNV
Sonoma	Marin-Sonoma MVCD	Petaluma	94954	American Crow	9/9/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/4/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/7/2015	WNV

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Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Alameda	ALCO8075	185	Cx. pipiens	Fremont	50	CO2	9/2/2015	WNV
Butte	BUCO37	334	Cx. tarsalis	Honcut	50	CO2	9/2/2015	WNV
Butte	BUCO60	339	Cx. tarsalis	Chico	50	CO2	9/8/2015	WNV
Butte	BUCO60	341	Cx. pipiens	Chico	50	CO2	9/8/2015	WNV
Contra Costa	CNTR2302	177	Cx. tarsalis	Martinez	50	CO2	8/17/2015	WNV
Fresno	CNSL1300	448	Cx. quinquefasciatus	Clovis	44	GRVD	9/9/2015	WNV
Fresno	FRWS100006	201	Cx. tarsalis	Dos Palos	50	CO2	9/9/2015	WNV
Fresno	FRWS400017	206	Cx. quinquefasciatus	Mendota	50	CO2	9/9/2015	WNV
Fresno	FRWS400017	207	Cx. tarsalis	Mendota	50	CO2	9/9/2015	WNV
Fresno	FRWS5302	203	Cx. tarsalis	Helm	50	CO2	9/9/2015	WNV
Fresno	FRWS5302	204	Cx. quinquefasciatus	Helm	50	CO2	9/9/2015	WNV
Kern	KERN11	502	Cx. quinquefasciatus	Bakersfield	50	GRVD	9/4/2015	WNV
Kern	KERN3033	491	Cx. quinquefasciatus	Bakersfield	45	CO2	9/1/2015	WNV
Kern	KERN41	494	Cx. tarsalis	Lost Hills	50	CO2	9/1/2015	WNV
Kern	KERN8	499	Cx. quinquefasciatus	Bakersfield	50	GRVD	9/3/2015	WNV
Kings	KNGS3025	485	Cx. pipiens	Goshen	15	CO2	9/1/2015	WNV
Kings	KNGS3062	489	Cx. tarsalis	Lemoore	50	CO2	9/1/2015	WNV
Kings	KNGS3062	490	Cx. tarsalis	Lemoore	50	CO2	9/1/2015	WNV
Kings	KNGS3102	486	Cx. pipiens	Armona	50	CO2	9/1/2015	WNV
Kings	KNGS4401	454	Cx. tarsalis	Lemoore	41	BGSENT	9/1/2015	WNV
Kings	KNGS4401	455	Cx. pipiens	Lemoore	50	BGSENT	9/1/2015	WNV
Kings	KNGS4401	456	Cx. pipiens	Lemoore	50	BGSENT	9/1/2015	WNV
Kings	KNGS4401	459	Cx. pipiens	Lemoore	50	BGSENT	9/1/2015	WNV
Kings	KNGS4402	460	Cx. pipiens	Lemoore	50	BGSENT	9/1/2015	WNV
Kings	KNGS4403	461	Cx. pipiens	Lemoore	50	BGSENT	9/1/2015	WNV
Kings	KNGS5508	470	Cx. tarsalis	Hanford	50	BGSENT	9/2/2015	WNV
Kings	KNGS5508	472	Cx. pipiens	Hanford	50	BGSENT	9/2/2015	WNV
Kings	KNGS5508	473	Cx. pipiens	Hanford	50	BGSENT	9/2/2015	WNV
Kings	KNGS5508	475	Cx. pipiens	Hanford	50	BGSENT	9/2/2015	WNV
Kings	KNGS5516	464	Cx. pipiens	Hanford	50	BGSENT	9/1/2015	WNV
Kings	KNGS5516	465	Cx. pipiens	Hanford	50	BGSENT	9/1/2015	WNV
Kings	KNGS5516	466	Cx. pipiens	Hanford	50	BGSENT	9/1/2015	WNV
Kings	KNGS5516	468	Cx. pipiens	Hanford	50	BGSENT	9/1/2015	WNV
Kings	KNGS8001	481	Cx. pipiens	Hanford	15	BGSENT	9/4/2015	WNV
Lake	LAKE1508	534	Cx. stigmatosoma	Kelseyville	18	REST	9/3/2015	WNV
Los Angeles	GRLA2414	5768	Cx. quinquefasciatus	Granada Hills	30	GRVD	9/4/2015	WNV
Los Angeles	GRLA2416	5763	Cx. quinquefasciatus	Panorama City	40	GRVD	9/4/2015	WNV
Los Angeles	GRLA2421	5765	Cx. quinquefasciatus	Panorama City	50	GRVD	9/4/2015	WNV
Los Angeles	GRLA2438	5755	Cx. quinquefasciatus	Chatsworth	31	GRVD	9/3/2015	WNV
Los Angeles	GRLA2465	5738	Cx. quinquefasciatus	Los Feliz	29	GRVD	9/1/2015	WNV
Los Angeles	GRLA2511	5736	Cx. quinquefasciatus	Los Angeles	34	GRVD	9/1/2015	WNV
Los Angeles	GRLA2554	5748	Cx. quinquefasciatus	Winnetka	50	GRVD	9/3/2015	WNV
Los Angeles	GRLA2567	5749	Cx. quinquefasciatus	Woodland Hills	12	GRVD	9/3/2015	WNV
Los Angeles	GRLA2574	5758	Cx. quinquefasciatus	Sherman Oaks	50	GRVD	9/4/2015	WNV
Los Angeles	GRLA2580	5757	Cx. quinquefasciatus	Sherman Oaks	50	GRVD	9/4/2015	WNV
Los Angeles	GRLA2637	5762	Cx. quinquefasciatus	Van Nuys	33	GRVD	9/4/2015	WNV
Los Angeles	GRLA2650	5761	Cx. quinquefasciatus	Encino	50	GRVD	9/4/2015	WNV
Los Angeles	GRLA2724	5750	Cx. quinquefasciatus	Canoga Park	45	GRVD	9/3/2015	WNV
Los Angeles	GRLA2936	5742	Cx. quinquefasciatus	Burbank	20	GRVD	9/1/2015	WNV
Los Angeles	GRLA2937	5741	Cx. quinquefasciatus	Burbank	34	GRVD	9/1/2015	WNV

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Los Angeles	GRLA3035	5766	Cx. quinquefasciatus	North Hills	50	GRVD	9/4/2015	WNV
Madera	MADR192	251	Cx. tarsalis	Madera	25	CO2	9/3/2015	WNV
Madera	MADR240	253	Cx. tarsalis	Madera	10	CO2	9/3/2015	WNV
Madera	MADR299	244	Cx. quinquefasciatus	Chowchilla	40	CO2	9/2/2015	WNV
Placer	PLCR1023	1687	Cx. tarsalis	Roseville	6	REST	9/10/2015	WNV
Placer	PLCR191218	1652	Cx. tarsalis		25	CO2	9/8/2015	WNV
Placer	PLCR191218	1654	Cx. pipiens		50	CO2	9/8/2015	WNV
Placer	PLCR191235	1685	Cx. thriambus	Newcastle	1	CO2	9/10/2015	WNV
Riverside	COAV121	2811	Cx. tarsalis	Mecca	50	CO2	9/9/2015	SLEV
Riverside	COAV121	2813	Cx. tarsalis	Mecca	50	CO2	9/9/2015	WNV
Riverside	COAV121	2813	Cx. tarsalis	Mecca	50	CO2	9/9/2015	SLEV
Riverside	COAV122	2768	Cx. tarsalis	Mecca	15	CO2	9/9/2015	SLEV
Riverside	COAV123	2801	Cx. tarsalis	Mecca	46	CO2	9/9/2015	SLEV
Riverside	COAV13	2788	Cx. tarsalis	Mecca	44	CO2	9/9/2015	SLEV
Riverside	COAV309	2758	Cx. quinquefasciatus	Indian Wells	9	CO2	9/9/2015	WNV
Riverside	COAV45	2803	Cx. tarsalis	Mecca	50	CO2	9/9/2015	SLEV
Riverside	COAV46	2809	Cx. tarsalis	Mecca	50	CO2	9/9/2015	SLEV
Riverside	COAV611	2802	Cx. tarsalis	Mecca	50	CO2	9/9/2015	SLEV
Riverside	NWST135	184	Cx. quinquefasciatus	Mira Loma	15	CO2	9/2/2015	WNV
Riverside	NWST136	186	Cx. quinquefasciatus	Riverside	13	GRVD	9/2/2015	WNV
Riverside	NWST137	188	Cx. quinquefasciatus	Riverside	8	GRVD	9/2/2015	WNV
Riverside	NWST39	187	Cx. quinquefasciatus	Riverside	21	GRVD	9/2/2015	WNV
Riverside	NWST9200	191	Cx. tarsalis		24	CO2	9/4/2015	WNV
Sacramento	SAYO204025	5141	Cx. pipiens	Citrus Heights	11	CO2	9/9/2015	WNV
Sacramento	SAYO222011	5102	Cx. pipiens	Sacramento	50	GRVD	9/9/2015	WNV
Sacramento	SAYO222011	5103	Cx. pipiens	Sacramento	44	GRVD	9/9/2015	WNV
Sacramento	SAYO223007	5084	Cx. tarsalis	Sacramento	50	CO2	9/9/2015	WNV
Sacramento	SAYO233001	5055	Cx. pipiens	Elk Grove	50	GRVD	9/9/2015	WNV
Sacramento	SAYO233001	5056	Cx. pipiens	Elk Grove	50	GRVD	9/9/2015	WNV
Sacramento	SAYO233041	5049	Cx. pipiens	Elk Grove	20	CO2	9/9/2015	WNV
Sacramento	SAYO234015	5069	Cx. pipiens	Elk Grove	10	CO2	9/9/2015	WNV
Sacramento	SAYO243016	5027	Cx. pipiens	Elk Grove	50	CO2	9/9/2015	WNV
Sacramento	SAYO243026	5014	Cx. pipiens	Elk Grove	50	CO2	9/9/2015	WNV
Sacramento	SAYO243032	5025	Cx. pipiens	Elk Grove	4	GRVD	9/9/2015	WNV
San Bernardino	WVAL1009	1320	Cx. quinquefasciatus	Ontario	25	GRVD	9/4/2015	WNV
San Bernardino	WVAL2008	1396	Cx. quinquefasciatus	Chino	6	CO2	9/10/2015	WNV
San Bernardino	WVAL2011	1351	Cx. erythrothorax	Chino	25	CO2	9/9/2015	WNV
San Bernardino	WVAL2019	1393	Cx. quinquefasciatus	Chino	24	GRVD	9/10/2015	WNV
San Bernardino	WVAL2020	1388	Cx. quinquefasciatus	Fwy CA 71	6	GRVD	9/10/2015	WNV
San Bernardino	WVAL2021	1391	Cx. quinquefasciatus	Fwy CA 71	25	GRVD	9/10/2015	WNV
San Bernardino	WVAL2021	1392	Cx. quinquefasciatus	Fwy CA 71	11	GRVD	9/10/2015	WNV
San Bernardino	WVAL5006	1356	Cx. quinquefasciatus	Rancho Cucamonga	25	GRVD	9/9/2015	WNV
San Bernardino	WVAL5006	1357	Cx. quinquefasciatus	Rancho Cucamonga	10	GRVD	9/9/2015	WNV
San Bernardino	WVAL5010	1387	Cx. quinquefasciatus	Rancho Cucamonga	7	GRVD	9/9/2015	WNV
San Bernardino	WVAL6002	1338	Cx. stigmatosoma	Ontario	25	CO2	9/9/2015	WNV
San Bernardino	WVAL6002	1339	Cx. stigmatosoma	Ontario	25	CO2	9/9/2015	WNV
San Bernardino	WVAL6002	1340	Cx. stigmatosoma	Ontario	25	CO2	9/9/2015	WNV
San Bernardino	WVAL6002	1342	Cx. quinquefasciatus	Ontario	25	CO2	9/9/2015	WNV
San Bernardino	WVAL6002	1343	Cx. quinquefasciatus	Ontario	25	CO2	9/9/2015	WNV
San Bernardino	WVAL6004	1361	Cx. quinquefasciatus	Ontario	25	GRVD	9/9/2015	WNV

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San Bernardino	WVAL6004	1382	Cx. quinquefasciatus	Ontario	18	GRVD	9/9/2015	WNV
San Bernardino	WVAL6005	1375	Cx. quinquefasciatus	Ontario	25	GRVD	9/9/2015	WNV
San Bernardino	WVAL6005	1376	Cx. quinquefasciatus	Ontario	25	GRVD	9/9/2015	WNV
San Bernardino	WVAL6005	1377	Cx. quinquefasciatus	Ontario	25	GRVD	9/9/2015	WNV
San Bernardino	WVAL6007	1368	Cx. quinquefasciatus	Ontario	20	GRVD	9/9/2015	WNV
San Bernardino	WVAL6009	1359	Cx. quinquefasciatus	Ontario	25	GRVD	9/9/2015	WNV
San Bernardino	WVAL6012	1373	Cx. quinquefasciatus	Ontario	25	GRVD	9/9/2015	WNV
San Joaquin	SJCM7011	2230	Cx. pipiens	Stockton	5	GRVD	9/9/2015	WNV
San Joaquin	SJCM8021	2181	Cx. tarsalis	Lodi	50	CO2	9/9/2015	WNV
San Joaquin	SJCM8022	2242	Cx. pipiens	Holt	5	CO2	9/9/2015	WNV
San Joaquin	SJCM8032	2157	Cx. pipiens	Escalon	50	CO2	9/9/2015	WNV
San Joaquin	SJCM8032	2158	Cx. pipiens	Escalon	53	CO2	9/9/2015	WNV
San Joaquin	SJCM8041	2170	Cx. pipiens	Lodi	50	CO2	9/9/2015	WNV
San Joaquin	SJCM8041	2171	Cx. pipiens	Lodi	35	CO2	9/9/2015	WNV
San Joaquin	SJCM8047	2263	Cx. pipiens	Stockton	50	CO2	9/11/2015	WNV
San Joaquin	SJCM8076	2243	Cx. tarsalis	Stockton	9	CO2	9/9/2015	WNV
San Joaquin	SJCM8076	2244	Cx. pipiens	Stockton	6	CO2	9/9/2015	WNV
San Joaquin	SJCM8111	2252	Cx. erythrothorax	Stockton	100	CO2	9/9/2015	WNV
Shasta	SHAS10030	513	Cx. tarsalis	Anderson	14	CO2	9/9/2015	WNV
Stanislaus	TRLK1225	1249	Cx. pipiens	Turlock	50	CO2	9/9/2015	WNV
Stanislaus	TRLK1308	1259	Cx. pipiens	Denair	38	CO2	9/9/2015	WNV
Stanislaus	TRLK407	1236	Cx. pipiens	Turlock	50	CO2	9/9/2015	WNV
Stanislaus	TRLK526	1262	Cx. pipiens	Denair	50	CO2	9/9/2015	WNV
Stanislaus	TRLK530	1245	Cx. pipiens	Turlock	50	CO2	9/9/2015	WNV
Stanislaus	TRLK613	1219	Cx. pipiens	Hickman	50	CO2	9/9/2015	WNV
Sutter	SUYA14	370	Cx. tarsalis	Sutter	13	REST	9/8/2015	WNV
Sutter	SUYA31	369	Cx. tarsalis	Rio Oso	46	REST	9/8/2015	WNV
Tulare	DLNO14	99	Cx. quinquefasciatus	Terra Bella	50	GRVD	9/9/2015	WNV
Tulare	DLTA6408	1414	Cx. quinquefasciatus	Dinuba	41	GRVD	9/4/2015	WNV
Tulare	DLTA6408	1420	Cx. quinquefasciatus	Dinuba	50	GRVD	9/4/2015	WNV
Tulare	DLTA6416	1422	Cx. quinquefasciatus	Dinuba	31	GRVD	9/4/2015	WNV
Tulare	DLTA6417	1438	Cx. quinquefasciatus	Dinuba	50	GRVD	9/4/2015	WNV
Tulare	DLTA6417	1444	Cx. quinquefasciatus	Dinuba	50	GRVD	9/4/2015	WNV
Tulare	DLTA6417	1447	Cx. quinquefasciatus	Dinuba	50	GRVD	9/4/2015	WNV
Tulare	DLTA6417	1448	Cx. quinquefasciatus	Dinuba	50	GRVD	9/4/2015	WNV
Tulare	DLTA6417	1449	Cx. quinquefasciatus	Dinuba	50	GRVD	9/4/2015	WNV
Tulare	DLTA7316	1494	Cx. quinquefasciatus	Traver	39	GRVD	9/10/2015	WNV
Tulare	DLTA7730	1392	Cx. quinquefasciatus	Woodlake	50	GRVD	9/3/2015	WNV
Tulare	DLTA7730	1396	Cx. quinquefasciatus	Woodlake	15	GRVD	9/3/2015	WNV
Tulare	DLTA8512	1390	Cx. quinquefasciatus	Ivanhoe	31	GRVD	9/2/2015	WNV
Tulare	DLTA9401	1462	Cx. quinquefasciatus	Visalia	38	GRVD	9/9/2015	WNV
Tulare	DLTA9504	1487	Cx. quinquefasciatus	Visalia	47	GRVD	9/10/2015	WNV
Tulare	DLTA9504	1493	Cx. quinquefasciatus	Visalia	50	GRVD	9/10/2015	WNV
Tulare	DLTA9506	1474	Cx. quinquefasciatus	Visalia	14	GRVD	9/10/2015	WNV
Tulare	DLTA9506	1479	Cx. quinquefasciatus	Visalia	50	GRVD	9/10/2015	WNV
Yolo	SAYO135020	4985	Cx. tarsalis	Woodland	50	CO2	9/9/2015	WNV
Yolo	SAYO146002	4963	Cx. tarsalis	Davis	50	CO2	9/9/2015	WNV
Yolo	SAYO146002	4965	Cx. tarsalis	Davis	50	CO2	9/9/2015	WNV
Yolo	SAYO146012	4955	Cx. pipiens	Davis	9	GRVD	9/9/2015	WNV

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Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05
Contra Costa	CNTR7402	Oakley	8/24/2015	WNV	1118				
Contra Costa	CNTR8152	Knightsen	8/24/2015	WNV	1104				
Los Angeles	ANTV2667	Palmdale	9/2/2015	WNV	1040				
Los Angeles	ANTV2877	Lancaster	9/2/2015	WNV	1026	1028			
Los Angeles	ANTV7263	Lancaster	9/2/2015	WNV	1057	1059			
Los Angeles	ANTV7947	Palmdale	9/2/2015	WNV	1050				
Los Angeles	ANTV8652	Palmdale	9/2/2015	WNV	1034	1035	1036		
Los Angeles	ANTV8656	Lancaster	9/2/2015	WNV	1007	1008	1009	1010	1011
Los Angeles	GRLA2223	Rowland Heights	9/1/2015	WNV	5323	5329			
Los Angeles	GRLA2651	Encino	8/31/2015	WNV	5352	5360			
Los Angeles	LACW1007	Baldwin Hills	8/28/2015	WNV	1439	1440			
Los Angeles	LACW1009	Los Angeles	8/18/2015	WNV	1443				
Los Angeles	LACW1049	Inglewood	8/25/2015	WNV	1497				
Los Angeles	LACW1073	Los Angeles	8/17/2015	WNV	1508				
Los Angeles	LONG0003	Long Beach	8/31/2015	WNV	1365	1366			
Merced	MERC0501	El Nido	8/27/2015	WNV	1819	1820	1822		
Merced	MERC0502	Hilmar	8/27/2015	WNV	1837				
Nevada	NEVA0004	Auburn	8/31/2015	WNV	2458				
Riverside	RIVR0001	San Jacinto	9/2/2015	WNV	1911	1912			
Riverside	RIVR0004	Beaumont	9/2/2015	WNV	1915	1920			
Riverside	RIVR0072	Mead Valley	9/2/2015	WNV	1940	1941			
San Bernardino	SANB0008	Upland	8/18/2015	WNV	2049	2054			
Santa Clara	STCL0028	Palo Alto	9/8/2015	WNV	2103				
Yolo	SAYO116006	Knights Landing	8/26/2015	WNV	4466				

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.

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 by phone (510) 412-6253 or email: tina.feiszli@cdph.ca.gov.