

California Arbovirus Surveillance Bulletin #28

Week 37 Friday, September 13, 2013



WEEKLY UPDATE

Human Cases

A total of 16 new cases of West Nile virus (WNV) illness were reported this week from 6 counties: Butte (1), Kern (1), Los Angeles (11), Marin (1), Orange (1), and Riverside (1). As of September 10, 2013, a total of 117 cases of WNV illness have been reported in 23 counties. Of the 117 case-patients, 83 (71%) had neuroinvasive illness. The median age of the 117 individuals for whom data are available is 57 years (range: 7 - 91 years); 73 (62%) are male. Dates of symptom onset range from June 20 to August 27, 2013. Six WNV-related fatalities have been reported in Sacramento (1), Los Angeles (3), Glenn (1), and San Joaquin (1) counties. Additionally, 18 WNV-positive blood donors have been reported this year; to date none of these individuals developed symptoms. At this time last year, 114 cases had been reported from 23 counties.

National Comments: As of September 10, 2013, 696 cases had been reported nationwide from 43 states. Of these, 327 (47%) were classified as neuroinvasive disease, and 28 (4%) died.

Horses

No new equine cases of WNV illness were reported this week. In 2013, 8 horses from 5 counties have tested positive for WNV; four have died as a result of their infection. At this time last year, 11 horses had tested positive for WNV from 8 counties.

Dead Birds & Squirrels

A total of 36 WNV positive birds were reported this week from the following 7 counties: Contra Costa (4), Los Angeles (3), Orange (3), Placer (4), Sacramento (12), Solano (5), and Yolo (5). One dead bird tested positive for chronic WNV infection. In 2013, 1,018 dead birds have tested positive for WNV from 38 counties and 7 dead squirrels have tested positive for WNV from 5 counties. At this time last year, 1,205 dead birds and 8 tree squirrels had tested positive for recent WNV infection from 33 and 5 counties, respectively.

Mosquito Pools

A total of 125 WNV positive mosquito pools were reported this week from 15 counties: Fresno (2), Kern (9), Lake (2), Los Angeles (18), Placer (1), Riverside (9), Sacramento (19), San Bernardino (19), San Joaquin (21), Santa Clara (1), Shasta (1), Sonoma (1), Stanislaus (10), Tulare (3), and Yolo (9). **This is the first WNV positive mosquito pool detected in Sonoma County this year.** In 2013, 2,173 mosquito pools from 27 counties have tested positive for WNV. At this time last year, 2,282 mosquito pools from 28 counties had tested positive for WNV.

Sentinel Chickens

A total of 21 sentinel chickens tested positive for WNV antibodies this week from 14 flocks in 6 counties: Los Angeles (7), Nevada (1), Riverside (6), Sacramento (1), San Bernardino (5), and Yolo (1). **This is the first WNV seroconversion detected in Nevada County this year.** In 2013, 330 WNV antibody-positive chickens have been detected among 82 flocks in 24 counties. At this time last year, 321 WNV antibody-positive chickens had been detected among 77 flocks in 18 counties.

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YTD WNV Activity by Element and County, 2013						
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Alameda			13			
Butte	9		42	29	50	
Colusa	1		1		8	
Contra Costa	2		62	12	5	1
El Dorado	1					
Fresno	3		10	54		
Glenn	5		8	16	9	
Humboldt			1			
Kern	9	1	2	159	6	
Kings			10	71		
Lake			7	61	5	
Los Angeles	54		297	335	91	3
Madera			7	14	2	
Marin	2		4		1	
Mendocino			2			
Merced			34	7	14	
Napa	1		2			
Nevada			6		1	
Orange	2		23	13		
Placer	1	1	29	88	10	
Riverside	4	1	18	69	24	
Sacramento	3	3	150	350	5	
San Bernardino	1		21	194	18	1
San Diego			5			
San Francisco	1					
San Joaquin	3		29	148		
San Luis Obispo			1	1		
Santa Clara	1		49	25	1	
Santa Cruz			1	1		
Shasta			29	13	8	1
Solano	1		10	1	7	
Sonoma			9	1	1	
Stanislaus	3	2	13	131	8	
Sutter	5		14	61	33	
Tehama			3		4	
Trinity			1			
Tulare			3	77		
Ventura	1		7			1
Yolo	4		86	228	10	
Yuba			9	14	9	
Totals	117	8	1,018	2,173	330	7

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2012 & 2013 YTD West Nile Virus Comparisons		
	2012	2013
Total # Dead Bird Reports	15,678	12,281
# Positive Counties	34	40
# Human Cases	114	117
# Horse Cases	11	8
# Positive Dead Birds / # Tested	1,205 / 3,224	1,018 / 2,831
# Positive Mosquito Pools / # Tested	2,282 / 25,325	2,173 / 24,365
# Seroconversions / # Tested	321 / 18,201	330 / 12,940
# Positive Squirrels / # Tested	8 / 109	7 / 96

TESTING SUMMARIES

Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	16	0	0	0	0	0
	YTD	117	0	0	0	0	0
Horse Cases	Week	0	0	0	0	0	0
	YTD	8	0	0	0	0	0

Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	69	36
	YTD	2,831	1,018
Tree Squirrels	Week	4	2
	YTD	96	7

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	635	21	0	0
	YTD	12,940	330	0	0
Mosquito Pools	Week	1,181	125	0	0
	YTD	24,365	2,173	0	0

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POSITIVES

Dead Birds

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Contra Costa	Contra Costa MVCD	Antioch	94509	American Crow	9/5/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	9/8/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Danville	94526	American Crow	9/5/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Lafayette	94549	Western Scrub-Jay	9/9/2013	WNV	Recent	RAMP
Los Angeles	San Gabriel Valley MVCD	El Monte	91731	American Crow	9/11/2013	WNV	Recent	RAMP
Los Angeles	San Gabriel Valley MVCD	La Verne	91750	American Crow	8/16/2013	WNV	Recent	RAMP
Los Angeles	San Gabriel Valley MVCD	West Covina	91790	American Crow	9/12/2013	WNV	Recent	RAMP
Orange	Orange Co VCD	Huntington Beach	92647	American Crow	8/27/2013	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92647	American Crow	8/28/2013	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Orange	92865	American Crow	8/26/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95747	Finch	8/15/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95747	Unknown	8/20/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95747	House Finch	9/6/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95747	Western Scrub-Jay	9/7/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95610	Yellow-billed Magpie	9/9/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Gold River	95670	Western Scrub-Jay	9/3/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Gold River	95670	American Crow	9/6/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Gold River	95670	American Crow	9/8/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rio Linda	95673	Yellow-billed Magpie	9/8/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Murieta	95683	Western Scrub-Jay	8/28/2013	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	American Crow	9/5/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95758	Western Scrub-Jay	9/4/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95811	American Crow	8/14/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95818	American Crow	9/4/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95818	Western Scrub-Jay	9/9/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95822	American Robin	9/7/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95833	Western Scrub-Jay	9/4/2013	WNV	Recent	RT-PCR
Solano	Solano Co MAD	Dixon	95620	American Crow	8/21/2013	WNV	Recent	RAMP
Solano	Solano Co MAD	Dixon	95620	Yellow-billed Magpie	7/31/2013	WNV	Recent	RAMP
Solano	Solano Co MAD	Vacaville	95687	American Crow	8/26/2013	WNV	Recent	RAMP
Solano	Solano Co MAD	Vacaville	95687	American Crow	7/30/2013	WNV	Recent	RAMP
Solano	Solano Co MAD	Vacaville	95687	Western Scrub-Jay	8/16/2013	WNV	Recent	RAMP
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	9/5/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	9/3/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	9/4/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	9/5/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	American Crow	9/10/2013	WNV	Recent	RT-PCR

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Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus	Method
Fresno	CNSL6174	678	Cx. tarsalis	Riverdale	50	CO2	9/5/13	WNV	RTPCR
Fresno	FRWS4102	126	Cx. tarsalis	Kerman	25	CO2	9/10/13	WNV	RTPCR
Kern	DLNO9	66	Cx. quinquefasciatus	McFarland	50	GRVD	9/9/13	WNV	RTPCR
Kern	DLNO9	67	Cx. quinquefasciatus	McFarland	50	GRVD	9/9/13	WNV	RTPCR
Kern	DLNO9	68	Cx. quinquefasciatus	McFarland	50	GRVD	9/9/13	WNV	RTPCR
Kern	DLNO9	69	Cx. quinquefasciatus	McFarland	50	GRVD	9/9/13	WNV	RTPCR
Kern	KERN1122	422	Cx. quinquefasciatus	Bakersfield	50	GRVD	9/3/13	WNV	RTPCR
Kern	WEST6212	166	Cx. tarsalis	Maricopa	50	CO2	9/11/13	WNV	RTPCR
Kern	WEST6212	167	Cx. tarsalis	Maricopa	50	CO2	9/11/13	WNV	RTPCR
Kern	WEST6212	168	Cx. tarsalis	Maricopa	50	CO2	9/11/13	WNV	RTPCR
Kern	WEST6230	170	Cx. tarsalis	Maricopa	50	CO2	9/11/13	WNV	RTPCR
Lake	LAKE1414	395	Cx. erythrothorax	Lakeport	29	CO2	9/11/13	WNV	RTPCR
Lake	LAKE80	381	Cx. tarsalis		50	REST	9/10/13	WNV	RTPCR
Los Angeles	ANTV4374	31	Cx. quinquefasciatus	Lancaster	21	CO2	9/11/13	WNV	RTPCR
Los Angeles	GRLA2021	5982	Cx. quinquefasciatus	Reseda	50	GRVD	9/6/13	WNV	RTPCR
Los Angeles	GRLA2023	5978	Cx. quinquefasciatus	Reseda	50	GRVD	9/6/13	WNV	RTPCR
Los Angeles	GRLA2031	5981	Cx. quinquefasciatus	Northridge	23	GRVD	9/6/13	WNV	RTPCR
Los Angeles	GRLA2032	5983	Cx. quinquefasciatus	Northridge	30	GRVD	9/6/13	WNV	RTPCR
Los Angeles	GRLA2034	5975	Cx. quinquefasciatus	Tarzana	48	GRVD	9/6/13	WNV	RTPCR
Los Angeles	GRLA2035	5977	Cx. quinquefasciatus	Tarzana	22	GRVD	9/6/13	WNV	RTPCR
Los Angeles	GRLA2315	879	Cx. quinquefasciatus	Carson	12	GRVD	9/4/13	WNV	RTPCR
Los Angeles	GRLA2321	880	Cx. quinquefasciatus	Carson	47	GRVD	9/4/13	WNV	RTPCR
Los Angeles	GRLA2554	5967	Cx. quinquefasciatus	Winnetka	50	GRVD	9/5/13	WNV	RTPCR
Los Angeles	GRLA2555	5980	Cx. quinquefasciatus	Encino	50	GRVD	9/6/13	WNV	RTPCR
Los Angeles	GRLA2635	5979	Cx. quinquefasciatus	Van Nuys	50	GRVD	9/6/13	WNV	RTPCR
Los Angeles	GRLA2636	5976	Cx. quinquefasciatus	Van Nuys	50	CO2	9/6/13	WNV	RTPCR
Los Angeles	GRLA2724	5969	Cx. quinquefasciatus	Canoga Park	50	GRVD	9/5/13	WNV	RTPCR
Los Angeles	GRLA2995	5966	Cx. quinquefasciatus	Woodland Hills	34	GRVD	9/5/13	WNV	RTPCR
Los Angeles	GRLA3067	881	Cx. quinquefasciatus	Gardena	29	GRVD	9/4/13	WNV	RTPCR
Los Angeles	LACW1002	293	Cx. quinquefasciatus	Torrance	45	CO2	9/4/13	WNV	RTPCR
Los Angeles	SGVA32	73	Cx. quinquefasciatus	Arcadia	40	CO2	8/21/13	WNV	RAMP
Placer	PLCR1113	1720	Cx. tarsalis	Pleasant Grove	50	CO2	9/10/13	WNV	RTPCR
Riverside	COAV34	1360	Cx. tarsalis	Mecca	50	CO2	9/10/13	WNV	RTPCR
Riverside	COAV540	1365	Cx. tarsalis	Mecca	50	CO2	9/10/13	WNV	RTPCR
Riverside	COAV604	1317	Cx. quinquefasciatus	Palm Springs	20	CO2	9/9/13	WNV	RTPCR
Riverside	COAV610	1381	Cx. tarsalis		50	CO2	9/10/13	WNV	RTPCR
Riverside	COAV68	1349	Cx. tarsalis	Mecca	50	CO2	9/10/13	WNV	RTPCR
Riverside	COAV68	1353	Cx. tarsalis	Mecca	50	CO2	9/10/13	WNV	RTPCR
Riverside	RIVR30	477	Cx. quinquefasciatus	Temecula	10	CO2	9/4/13	WNV	RTPCR
Riverside	RIVR51	532	Cx. tarsalis	Moreno Valley	50	CO2	9/11/13	WNV	RTPCR
Riverside	RIVR74	474	Cx. erythrothorax	Murrieta	50	CO2	9/4/13	WNV	RTPCR
Sacramento	SAYO203011	5373	Cx. tarsalis	Antelope	13	CO2	9/10/13	WNV	RTPCR
Sacramento	SAYO203011	5374	Cx. tarsalis	Antelope	1	GRVD	9/10/13	WNV	RTPCR
Sacramento	SAYO203011	5375	Cx. pipiens	Antelope	1	CO2	9/10/13	WNV	RTPCR
Sacramento	SAYO213002	5343	Cx. tarsalis	Sacramento	13	CO2	9/10/13	WNV	RTPCR
Sacramento	SAYO213002	5344	Cx. pipiens	Sacramento	2	CO2	9/10/13	WNV	RTPCR
Sacramento	SAYO222010	5345	Cx. tarsalis	Sacramento	20	CO2	9/10/13	WNV	RTPCR
Sacramento	SAYO222010	5346	Cx. pipiens	Sacramento	5	CO2	9/10/13	WNV	RTPCR
Sacramento	SAYO222012	5339	Cx. tarsalis	Sacramento	1	CO2	9/10/13	WNV	RTPCR

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Sacramento	SAYO223006	5331	Cx. tarsalis	South Watt Avenue	50	CO2	9/10/13	WNV	RTPCR
Sacramento	SAYO223006	5333	Cx. tarsalis	South Watt Avenue	1	GRVD	9/10/13	WNV	RTPCR
Sacramento	SAYO223006	5334	Cx. pipiens	South Watt Avenue	30	CO2	9/10/13	WNV	RTPCR
Sacramento	SAYO234017	5336	Cx. tarsalis	Sacramento, CA	45	CO2	9/10/13	WNV	RTPCR
Sacramento	SAYO234017	5337	Cx. pipiens	Sacramento, CA	7	CO2	9/10/13	WNV	RTPCR
Sacramento	SAYO235004	5172	Cx. tarsalis	Wilton	31	CO2	9/6/13	WNV	RTPCR
Sacramento	SAYO235004	5173	Cx. tarsalis	Wilton	1	GRVD	9/6/13	WNV	RTPCR
Sacramento	SAYO245002	5175	Cx. tarsalis	Wilton	50	CO2	9/6/13	WNV	RTPCR
Sacramento	SAYO245002	5176	Cx. tarsalis	Wilton	50	CO2	9/6/13	WNV	RTPCR
Sacramento	SAYO245026	5168	Cx. tarsalis	Wilton	50	CO2	9/6/13	WNV	RTPCR
Sacramento	SAYO254015	5193	Cx. tarsalis	Galt	1	GRVD	9/6/13	WNV	RTPCR
San Bernardino	SANB47	381	Cx. quinquefasciatus	San Bernardino	50	CO2	8/29/13	WNV	RTPCR
San Bernardino	WVAL5004	1078	Cx. quinquefasciatus	Rancho Cucamonga	7	GRVD	9/10/13	WNV	RTPCR
San Bernardino	WVAL5005	1073	Cx. quinquefasciatus	Rancho Cucamonga	11	GRVD	9/10/13	WNV	RTPCR
San Bernardino	WVAL6004	1056	Cx. quinquefasciatus	Ontario	45	GRVD	9/4/13	WNV	RTPCR
San Bernardino	WVAL6004	1062	Cx. quinquefasciatus	Ontario	49	GRVD	9/5/13	WNV	RTPCR
San Bernardino	WVAL6004	1064	Cx. quinquefasciatus	Ontario	36	GRVD	9/5/13	WNV	RTPCR
San Bernardino	WVAL6004	1065	Cx. quinquefasciatus	Ontario	13	GRVD	9/5/13	WNV	RTPCR
San Bernardino	WVAL6004	1066	Cx. quinquefasciatus	Ontario	21	GRVD	9/6/13	WNV	RTPCR
San Bernardino	WVAL6004	1067	Cx. quinquefasciatus	Ontario	50	GRVD	9/6/13	WNV	RTPCR
San Bernardino	WVAL6004	1068	Cx. quinquefasciatus	Ontario	50	GRVD	9/6/13	WNV	RTPCR
San Bernardino	WVAL6004	1070	Cx. quinquefasciatus	Ontario	40	GRVD	9/6/13	WNV	RTPCR
San Bernardino	WVAL6004	1096	Cx. quinquefasciatus	Ontario	46	GRVD	9/10/13	WNV	RTPCR
San Bernardino	WVAL6004	1098	Cx. quinquefasciatus	Ontario	24	GRVD	9/10/13	WNV	RTPCR
San Bernardino	WVAL6004	1099	Cx. quinquefasciatus	Ontario	42	GRVD	9/10/13	WNV	RTPCR
San Bernardino	WVAL6004	1100	Cx. quinquefasciatus	Ontario	3	GRVD	9/11/13	WNV	RTPCR
San Bernardino	WVAL6004	1101	Cx. quinquefasciatus	Ontario	37	GRVD	9/11/13	WNV	RTPCR
San Bernardino	WVAL6004	1102	Cx. quinquefasciatus	Ontario	50	GRVD	9/11/13	WNV	RTPCR
San Bernardino	WVAL6004	1107	Cx. quinquefasciatus	Ontario	50	GRVD	9/11/13	WNV	RTPCR
San Bernardino	WVAL6012	1090	Cx. quinquefasciatus	Ontario	6	GRVD	9/10/13	WNV	RTPCR
San Joaquin	SJCM8003	1168	Cx. tarsalis	Tracy	9	CO2	9/4/2013	WNV	RTPCR
San Joaquin	SJCM8010	1266	Cx. tarsalis	Ripon	18	CO2	9/10/13	WNV	RTPCR
San Joaquin	SJCM8011	1269	Cx. pipiens	Ripon	6	CO2	9/10/13	WNV	RTPCR
San Joaquin	SJCM8018	1188	Cx. tarsalis	Stockton	24	CO2	9/4/2013	WNV	RTPCR
San Joaquin	SJCM8027	1287	Cx. tarsalis	McDonald Isl. bridge	18	CO2	9/10/13	WNV	RTPCR
San Joaquin	SJCM8027	1288	Cx. pipiens	McDonald Isl. bridge	21	CO2	9/10/13	WNV	RTPCR
San Joaquin	SJCM8041	1186	Cx. tarsalis	Lodi	38	CO2	9/4/2013	WNV	RTPCR
San Joaquin	SJCM8041	1187	Cx. pipiens	Lodi	27	CO2	9/4/2013	WNV	RTPCR
San Joaquin	SJCM8056	1282	Cx. pipiens	Manteca	51	CO2	9/10/13	WNV	RTPCR
San Joaquin	SJCM8079	1295	Cx. pipiens	Manteca	50	CO2	9/10/13	WNV	RTPCR
San Joaquin	SJCM8079	1296	Cx. pipiens	Manteca	43	CO2	9/10/13	WNV	RTPCR
San Joaquin	SJCM8083	1302	Cx. tarsalis	Escalon	26	CO2	9/10/13	WNV	RTPCR
San Joaquin	SJCM8083	1303	Cx. pipiens	Escalon	30	CO2	9/10/13	WNV	RTPCR
San Joaquin	SJCM8109	1289	Cx. tarsalis	Escalon	11	CO2	9/10/13	WNV	RTPCR
San Joaquin	SJCM8109	1290	Cx. pipiens	Escalon	12	CO2	9/10/13	WNV	RTPCR
San Joaquin	SJCM8143	1182	Cx. tarsalis	Stockton	50	CO2	9/4/2013	WNV	RTPCR
San Joaquin	SJCM8161	1257	Cx. tarsalis	Ripon	30	CO2	9/10/13	WNV	RTPCR
San Joaquin	SJCM8161	1260	Cx. pipiens	Ripon	50	CO2	9/10/13	WNV	RTPCR
San Joaquin	SJCM8161	1262	Cx. pipiens	Ripon	50	CO2	9/10/13	WNV	RTPCR
San Joaquin	SJCM8161	1263	Cx. pipiens	Ripon	50	CO2	9/10/13	WNV	RTPCR
San Joaquin	SJCM8161	1264	Cx. pipiens	Ripon	50	CO2	9/10/13	WNV	RTPCR
Santa Clara	STCL3291	4986	Cx. pipiens	San Jose	7	CO2	9/6/13	WNV	PCR
Shasta	SHAS148	246	Cx. tarsalis		31	CO2	9/10/13	WNV	RTPCR
Sonoma	MARN118	1123	Cx. stigmatosoma	Cloverdale	27	GRVD	9/7/13	WNV	RTPCR

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Stanislaus	EAST1082	13312	Cx. pipiens	Modesto	35	CO2	9/11/13	WNV	RAMP
Stanislaus	TRLK1320	832	Cx. pipiens	Turlock	50	CO2	9/6/13	WNV	RTPCR
Stanislaus	TRLK1329	835	Cx. pipiens	Modesto	50	CO2	9/6/13	WNV	RTPCR
Stanislaus	TRLK1329	842	Cx. pipiens	Modesto	50	CO2	9/6/13	WNV	RTPCR
Stanislaus	TRLK322	872	Cx. tarsalis	Modesto	50	CO2	9/10/13	WNV	RTPCR
Stanislaus	TRLK426	847	Cx. pipiens	Patterson	41	CO2	9/6/13	WNV	RTPCR
Stanislaus	TRLK432	738	Cx. pipiens	Turlock	50	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK437	878	Cx. tarsalis	Patterson	50	CO2	9/10/13	WNV	RTPCR
Stanislaus	TRLK549	861	Cx. tarsalis	Newman	41	CO2	9/10/13	WNV	RTPCR
Stanislaus	TRLK704	834	Cx. pipiens	Turlock	20	CO2	9/6/13	WNV	RTPCR
Tulare	TLRE104	58	Cx. pipiens	Tulare	50	CO2	9/11/13	WNV	RTPCR
Tulare	TLRE0000	59	Unknown	Tulare	50	NA	9/12/13	WNV	RTPCR
Tulare	TLRE0000	61	Unknown	Tulare	50	NA	9/12/13	WNV	RTPCR
Yolo	SAYO123001	5298	Cx. pipiens	Esparto	10	GRVD	9/6/13	WNV	RTPCR
Yolo	SAYO135006	5291	Cx. tarsalis	Woodland	50	CO2	9/6/13	WNV	RTPCR
Yolo	SAYO135006	5293	Cx. tarsalis	Woodland	50	CO2	9/6/13	WNV	RTPCR
Yolo	SAYO135006	5294	Cx. tarsalis	Woodland	50	CO2	9/6/13	WNV	RTPCR
Yolo	SAYO135016	5130	Cx. tarsalis	Woodland	50	CO2	9/4/13	WNV	RTPCR
Yolo	SAYO145010	5387	Cx. tarsalis	Davis	50	CO2	9/10/13	WNV	RTPCR
Yolo	SAYO145015	5121	Cx. tarsalis	Davis	43	CO2	9/4/13	WNV	RTPCR
Yolo	SAYO145015	5122	Cx. pipiens	Davis	5	CO2	9/4/13	WNV	RTPCR
Yolo	SAYO146006	5126	Cx. pipiens	Davis	4	GRVD	9/4/13	WNV	RTPCR

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03
Los Angeles	GRLA2056	Long Beach	8/21/2013	WNV	2661	2669	
Los Angeles	GRLA2371	South El Monte	8/21/2013	WNV	2649		
Los Angeles	GRLA2465	Los Feliz	9/4/2013	WNV	2603	2606	
Los Angeles	GRLA2651	Encino	9/4/2013	WNV	2622		
Los Angeles	LACW1002	Torrance	8/21/2013	WNV	1419		
Nevada	NEVA2969	Auburn	8/28/2013	WNV	1653		
Riverside	COAV0122	Mecca	9/3/2013	WNV	3184		
Riverside	COAV0200	Mecca	9/3/2013	WNV	3136	3137	3141
Riverside	COAV0035	Mecca	9/3/2013	WNV	3180	3181	
Sacramento	SAYO261013	Isleton	9/10/2013	WNV	2164		
San Bernardino	SANB0001	Needles	9/3/2013	WNV	3302	3304	3305
San Bernardino	WVAL0006	Ontario	8/28/2013	WNV	3759		
San Bernardino	WVAL0011	Ontario Airport	8/28/2013	WNV	3765		
Yolo	SAYO103008	Dunnigan	9/10/2013	WNV	2147		

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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.

Horses:

Serum or brain tissue specimens from horses displaying neurological symptoms are submitted to the California Animal Health and Safety Laboratory (CAHFS) and tested by EIA and PRNT.

Dead Birds and Tree Squirrels:

Dead birds and tree squirrels are necropsied at CAHFS laboratory at University of California, Davis. Oral swabs from American Crows and kidney tissue from all other dead birds and squirrels are forwarded to the UC Davis Center for Vectorborne Diseases (CVEC) for West Nile virus testing using the singleplex RT-PCR Taqman assay and confirmed with a second primer set.

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 (WEEV), and St. Louis encephalitis (SLEV) viruses by EIA and IFA. Positive samples are confirmed by western-blot or PRNT.

Mosquito Pools:

Mosquito pools are submitted to CVEC and screened for WEEV, SLEV, and WNV viral RNA using a Taqman multiplex RT-PCR. CVEC will cease confirmation 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. 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