

California Arbovirus Surveillance Bulletin #33

Week 40 Friday, October 3, 2014

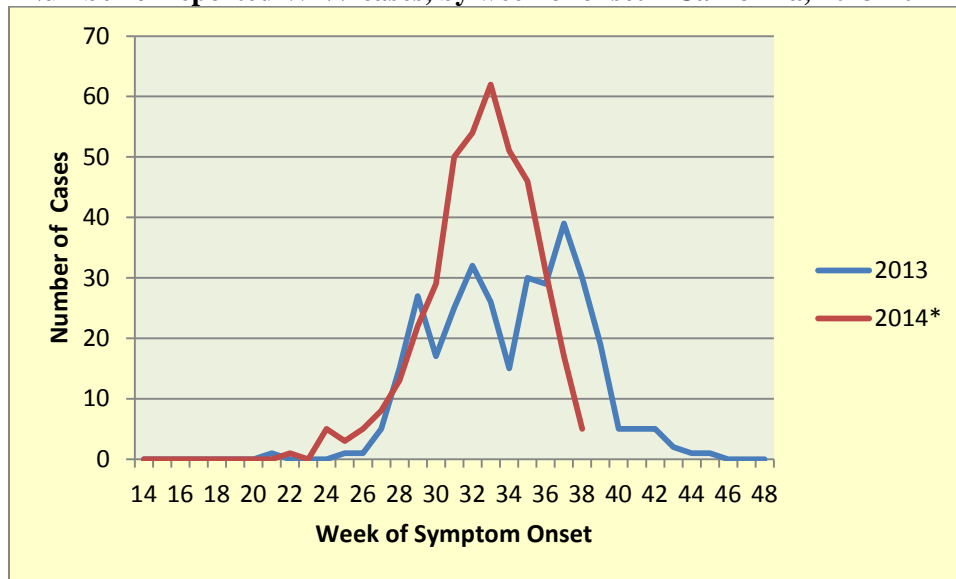


WEEKLY UPDATE

Humans

A total of 53 new cases of West Nile virus (WNV) disease were reported to the California Department of Public Health (CDPH) this week from the following 12 counties: Butte (1), Colusa (1), Contra Costa (1), Fresno (3), Los Angeles (18), Merced (1), Orange (18), San Bernardino (3), Santa Clara (1), Stanislaus (2), Tulare (3), and Yolo (1). This is the first human case reported from Merced County this year. As of September 29, a total of 428 human cases of WNV disease have been reported from 29 counties. As of this date in 2013, 206 cases had been reported from 26 counties. Of the 428 case-patients, 285 (67%) had neuroinvasive illness. The median age of the 428 individuals is 57 years (range: 6-93 years); 265 (62%) are male. Dates of symptom onset for individuals where data are available range from May 27 to September 20. Fifteen WNV-related fatalities have been reported to CDPH from seven counties: Glenn (1), Los Angeles (3), Orange (4), Sacramento (2), Shasta (1), Stanislaus (2), and Sutter (2). In addition, 56 asymptomatic WNV-positive blood donors have been reported this year from 18 counties: Butte (1), Contra Costa (1), Fresno (9), Kern (3), Kings (1), Los Angeles (10), Orange (11), Placer (1), Riverside (1), San Bernardino (3), San Diego (1), San Joaquin (2), Santa Clara (3), Shasta (1), Stanislaus (4), Sutter (1), Tulare (2), and Yuba (1).

Number of reported WNV cases, by week of onset—California, 2013-2014*



*Reported to CDPH as of 9/29/14. Data incomplete due to reporting delays.

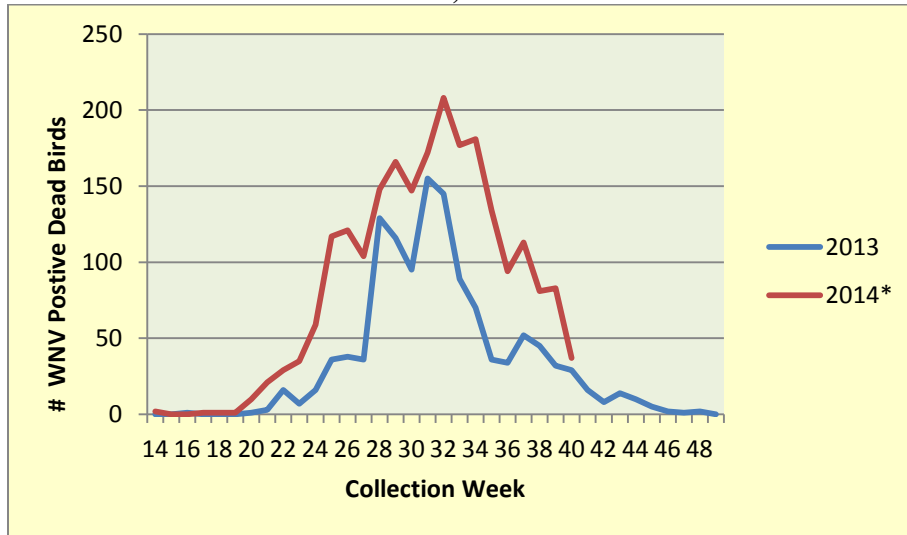
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Dead Birds

A total of 97 WNV positive dead birds were reported this week from the following 15 counties: Alameda (1), Butte (2), Contra Costa (1), Los Angeles (15), Merced (1), Orange (41), Sacramento (4), San Bernardino (2), San Diego (5), San Joaquin (2), Santa Mateo (1), Santa Clara (15), Sonoma (3), Stanislaus (2), and Yolo (2). In 2014, 2,253 dead birds have tested positive for WNV from 35 counties. At this time last year, 1,134 WNV positive dead birds had been detected in 38 counties.

**Number of reported WNV positive dead birds, by week of collection--
California, 2013-2014***

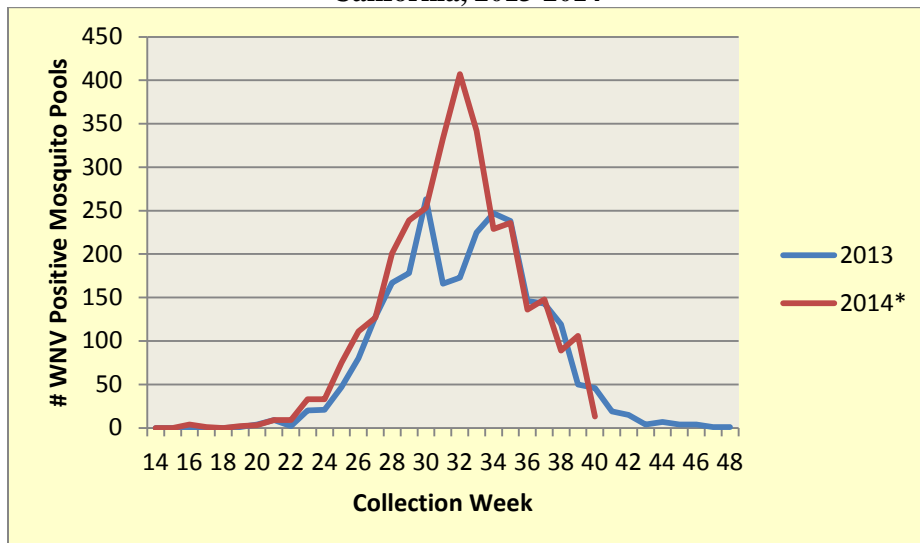


*Reported to CDPH as of 10/3/14. Data incomplete due to reporting delays.

Mosquito Pools

A total of 92 WNV positive mosquito pools were reported this week from the following 13 counties: Butte (2), Fresno (2), Kings (2), Los Angeles (19), Orange (23), Riverside (11), Sacramento (8), San Bernardino (2), San Joaquin (2), San Mateo (2), Sonoma (2), Stanislaus (15), and Yolo (2). In 2014, 3,139 mosquito pools from 29 counties have tested positive for WNV. At this time last year, 2,440 WNV positive mosquito pools had been reported from 27 counties.

**Number of reported WNV positive mosquito pools, by week of collection--
California, 2013-2014***



*Reported to CDPH as of 10/3/14. Data incomplete due to reporting delays.

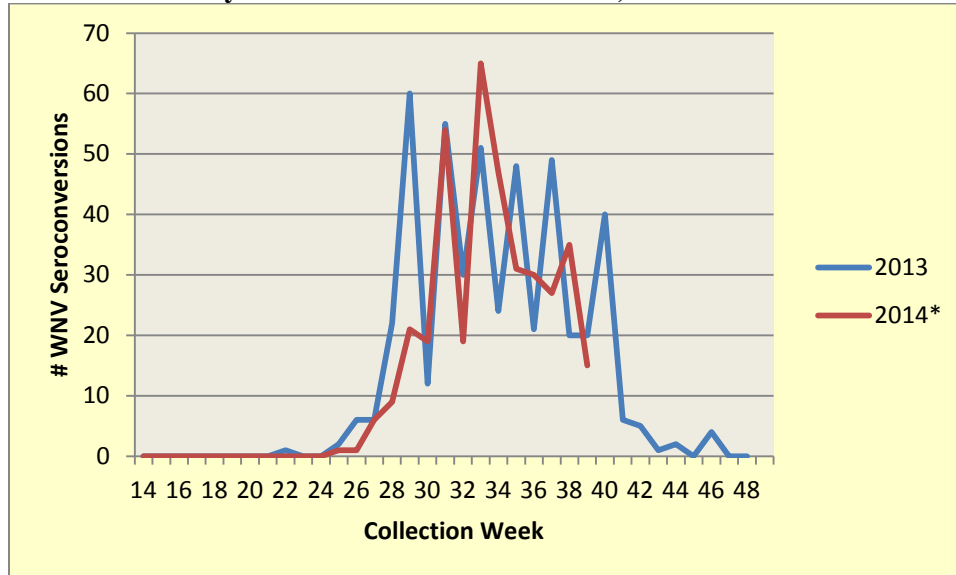
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Sentinel Chickens

A total of 21 new WNV seroconversions were reported this week from 14 flocks located in the following 9 counties: Butte (1), Contra Costa (1), Glenn (1), Los Angeles (6), Riverside (1), San Bernardino (4), Solano (4), Sonoma (1), and Sutter (2). In 2014, 382 WNV positive chickens have been reported from 86 flocks located in 21 counties. At this time last year, 425 WNV seroconversions had been reported from 102 flocks in 25 counties.

**Number of reported WNV sentinel chicken seroconversions,
by week of collection--California, 2013-2014***



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YTD Activity by Element and County, 2014				
County	Humans*	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		90	18	1
Butte	20	22	38	37
Colusa	4	4	1	8
Contra Costa	2	42	22	14
El Dorado		5		
Fresno	30	9	130	
Glenn	11	4	8	9
Humboldt		2		
Imperial	2			
Kern	6	3	110	
Kings	2	3	150	
Lake	1	18	68	5
Los Angeles	87	85	285	120
Madera	3	5	37	
Marin		5	3	
Mendocino	1			
Merced	1	8	11	9
Napa		12		
Orange	157	367	435	
Placer	3	39	76	
Riverside	4	1	85	30
Sacramento	10	289	484	8
San Bernardino	11	15	93	27
San Diego	2	12		
San Joaquin	5	52	210	
San Mateo		17	15	
Santa Clara	7	878	30	4
Santa Cruz		1		
Shasta	2	6	33	9
Solano	1	33	11	23
Sonoma		29	8	3
Stanislaus	30	47	170	12
Sutter	2	19	52	29
Tehama	3			13
Tulare	13	40	311	4
Ventura		5		
Yolo	4	70	221	8
Yuba	4	16	24	9
Totals	428	2,253	3,139	382

**Total does not include asymptomatic infections*

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2013 & 2014 YTD West Nile Virus Comparisons		
	2013	2014
Total # Dead Bird Reports	13,366	12,987
# Positive Counties	41	38
# Human Cases	206	428
# Positive Dead Birds / # Tested	1,134 / 3,023	2,253 / 3,641
# Positive Mosquito Pools / # Tested	2,440 / 27,641	3,139 / 27,195
# Seroconversions / # Tested	425 / 14,380	382 / 12,881

TESTING SUMMARIES

Humans

Human Cases	Week	WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
		YTD	428	0	0	0	0

Dead Birds

Dead Birds	Week	Number Tested	WNV Positive	
		YTD	3,641	2,253

Chickens & Mosquitoes

Chicken Sera	Week	Number Tested	WNV Positive	SLEV Positive	WEEV Positive	
		YTD	12,881	382	0	0
		YTD	27,195	3,139	0	0

NEW POSITIVES

Dead Birds

County	Agency	City	Zip	Species	Reported	Virus	Method
Alameda	Alameda Co MAD	Livermore	94550	American Crow	9/29/2014	WNV	RAMP
Butte	Butte Co MVCD	Chico	95928	House Finch	9/22/2014	WNV	RT-PCR
Butte	Butte Co MVCD	Paradise	95969	Woodpecker	9/14/2014	WNV	RT-PCR
Contra Costa	Contra Costa MVCD	Martinez	94553	Western Scrub-Jay	9/29/2014	WNV	RAMP
Los Angeles	Los Angeles Co West VCD	Culver City	90232	American Crow	9/22/2014	WNV	RT-PCR
Los Angeles	Los Angeles Co West VCD	Culver City	90232	American Crow	9/23/2014	WNV	RT-PCR
Los Angeles	Los Angeles Co West VCD	Culver City	90232	American Crow	9/25/2014	WNV	RT-PCR
Los Angeles	Los Angeles Co West VCD	Culver City	90232	American Crow	9/28/2014	WNV	RT-PCR
Los Angeles	Los Angeles Co West VCD	Inglewood	90301	American Crow	9/30/2014	WNV	RT-PCR
Los Angeles	Los Angeles Co West VCD	Los Angeles	90035	American Crow	9/23/2014	WNV	RT-PCR

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Los Angeles	Los Angeles Co West VCD	Los Angeles	90035	American Crow	9/23/2014	WNV	RT-PCR
Los Angeles	Los Angeles Co West VCD	Los Angeles	90036	American Crow	9/25/2014	WNV	RT-PCR
Los Angeles	Los Angeles Co West VCD	Santa Monica	90402	American Crow	9/24/2014	WNV	RT-PCR
Los Angeles	Los Angeles Co West VCD	Santa Monica	90402	American Crow	9/24/2014	WNV	RT-PCR
Los Angeles	Los Angeles Co West VCD	Santa Monica	90402	American Crow	9/24/2014	WNV	RT-PCR
Los Angeles	Los Angeles Co West VCD	Santa Monica	90403	American Crow	9/28/2014	WNV	RT-PCR
Los Angeles	Los Angeles Co West VCD	Santa Monica	90404	American Crow	9/29/2014	WNV	RT-PCR
Los Angeles	Los Angeles Co West VCD	Venice	90291	American Crow	9/22/2014	WNV	RT-PCR
Los Angeles	Los Angeles Co West VCD	West Los Angeles	90025	American Crow	9/21/2014	WNV	RT-PCR
Merced	Merced Co MAD	Merced	95340	American Crow	9/30/2014	WNV	RT-PCR
Orange	Orange Co VCD	Aliso Viejo	92656	Fox Sparrow	9/30/2014	WNV	RT-PCR
Orange	Orange Co VCD	Anaheim	92804	American Crow	9/29/2014	WNV	RT-PCR
Orange	Orange Co VCD	Anaheim	92804	American Crow	9/30/2014	WNV	RT-PCR
Orange	Orange Co VCD	Anaheim	92804	American Crow	10/1/2014	WNV	RT-PCR
Orange	Orange Co VCD	Costa Mesa	92626	American Crow	9/23/2014	WNV	RT-PCR
Orange	Orange Co VCD	Costa Mesa	92626	American Crow	9/25/2014	WNV	RT-PCR
Orange	Orange Co VCD	Costa Mesa	92626	American Crow	10/1/2014	WNV	RT-PCR
Orange	Orange Co VCD	Costa Mesa	92627	American Crow	9/29/2014	WNV	RT-PCR
Orange	Orange Co VCD	Cypress	90630	American Crow	9/29/2014	WNV	RT-PCR
Orange	Orange Co VCD	Fountain Valley	92708	American Crow	9/25/2014	WNV	RT-PCR
Orange	Orange Co VCD	Fullerton	92833	American Crow	9/26/2014	WNV	RT-PCR
Orange	Orange Co VCD	Garden Grove	92840	American Crow	9/26/2014	WNV	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92647	American Crow	9/26/2014	WNV	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92647	American Crow	9/28/2014	WNV	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92647	American Crow	9/30/2014	WNV	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92647	American Crow	10/1/2014	WNV	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92648	American Crow	9/26/2014	WNV	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92648	American Crow	9/26/2014	WNV	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92648	American Crow	9/28/2014	WNV	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92648	American Crow	9/29/2014	WNV	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92649	American Crow	9/22/2014	WNV	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92649	American Crow	9/30/2014	WNV	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92649	American Crow	9/30/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92604	American Crow	9/23/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92604	American Crow	9/26/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92604	American Crow	9/29/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92604	American Crow	9/29/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92614	American Crow	9/21/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92614	American Crow	9/23/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92614	American Crow	9/26/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92618	American Crow	9/28/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92618	American Crow	9/29/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92620	American Crow	9/24/2014	WNV	RT-PCR
Orange	Orange Co VCD	Laguna Hills	92653	American Crow	9/29/2014	WNV	RT-PCR
Orange	Orange Co VCD	Orange	92866	American Crow	10/1/2014	WNV	RT-PCR
Orange	Orange Co VCD	Placentia	92780	Lesser Goldfinch	9/23/2014	WNV	RT-PCR

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Orange	Orange Co VCD	San Clemente	92672	American Crow	9/29/2014	WNV	RT-PCR
Orange	Orange Co VCD	Santa Ana	92701	American Crow	9/25/2014	WNV	RT-PCR
Orange	Orange Co VCD	Westminster	92683	American Crow	9/23/2014	WNV	RT-PCR
Orange	Orange Co VCD	Yorba Linda	92866	American Crow	10/1/2014	WNV	RT-PCR
Orange	Orange Co VCD	Yorba Linda	92886	American Crow	9/23/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	9/28/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Western Scrub-Jay	9/23/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	9/24/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Galt	95632	Yellow-billed Magpie	9/28/2014	WNV	RT-PCR
San Bernardino	San Bernardino VCP	Highland	92346	American Crow	9/22/2014	WNV	RT-PCR
San Bernardino	San Bernardino VCP	Upland	91786	American Crow	9/2/2014	WNV	RT-PCR
San Diego	San Diego Co VCP	La Mesa	91941	American Crow	9/9/2014	WNV	RT-PCR
San Diego	San Diego Co VCP	Lakeside	92040	American Crow	9/24/2014	WNV	RT-PCR
San Diego	San Diego Co VCP	San Diego	92119	American Crow	9/22/2014	WNV	RT-PCR
San Diego	San Diego Co VCP	San Diego	92139	American Crow	9/12/2014	WNV	RT-PCR
San Diego	San Diego Co VCP	Santee	92071	American Crow	9/22/2014	WNV	RT-PCR
San Joaquin	San Joaquin Co MVCD	Lodi	95240	Yellow-billed Magpie	9/25/2014	WNV	RT-PCR
San Joaquin	San Joaquin Co MVCD	Lodi	95242	American Crow	9/26/2014	WNV	RT-PCR
San Mateo	San Mateo Co MAD	Redwood City	94062	Western Scrub-Jay	9/30/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Los Altos	94024	American Crow	9/26/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Los Altos	94024	Unknown	9/24/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Los Gatos	95032	American Crow	9/25/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Los Gatos	95032	American Crow	9/29/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	9/24/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95119	American Crow	9/24/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95119	American Crow	9/24/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	9/26/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95129	American Crow	9/26/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95129	American Crow	9/28/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95136	American Crow	9/25/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	9/29/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94086	American Crow	9/24/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	9/26/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	9/26/2014	WNV	RT-PCR
Sonoma	Marin-Sonoma MVCD	Healdsburg	95448	American Crow	9/30/2014	WNV	RT-PCR
Sonoma	Marin-Sonoma MVCD	Healdsburg	95448	Western Scrub-Jay	9/26/2014	WNV	RT-PCR
Sonoma	Marin-Sonoma MVCD	Sonoma	95476	Western Scrub-Jay	9/26/2014	WNV	RT-PCR
Stanislaus	Turlock MAD	Denair	95316	Western Scrub-Jay	9/29/2014	WNV	RT-PCR
Stanislaus	Turlock MAD	Patterson	95363	American Crow	9/23/2014	WNV	RT-PCR
Yolo	Sacramento-Yolo MVCD	Woodland	95695	Western Scrub-Jay	9/26/2014	WNV	RT-PCR
Yolo	Sacramento-Yolo MVCD	Woodland	95776	American Crow	9/26/2014	WNV	RT-PCR

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Mosquitoes

County	Site Code	Pool #	City	Species	# in Pool	Trap	Collected	Virus	Method
Butte	BUCO78	198	Oroville	Cx. tarsalis	50	CO2	9/24/2014	WNV	RTPCR
Butte	BUCO90	191	Paradise	Cx. pipiens	30	CO2	9/16/2014	WNV	RTPCR
Fresno	FRWS3201	250	Firebaugh	Cx. quinquefasciatus	50	CO2	9/26/2014	WNV	RTPCR
Fresno	FRWS4110	266	Mendota	Cx. tarsalis	50	CO2	9/30/2014	WNV	RTPCR
Kings	KNGS3033	499	Hanford	Cx. pipiens	49	BGSENT	9/26/2014	WNV	RTPCR
Kings	KNGS4401	472	Lemoore	Cx. pipiens	50	BGSENT	9/23/2014	WNV	RTPCR
Los Angeles	GRLA2097	675	La Mirada	Cx. quinquefasciatus	34	GRVD	9/23/2014	WNV	RTPCR
Los Angeles	GRLA2166	671	Montebello	Cx. quinquefasciatus	50	GRVD	9/23/2014	WNV	RTPCR
Los Angeles	GRLA2295	702	Los Angeles	Cx. quinquefasciatus	20	GRVD	9/26/2014	WNV	RTPCR
Los Angeles	GRLA2297	701	Los Angeles	Cx. quinquefasciatus	47	GRVD	9/26/2014	WNV	RTPCR
Los Angeles	GRLA2301	703	Willowbrook	Cx. quinquefasciatus	13	GRVD	9/26/2014	WNV	RTPCR
Los Angeles	GRLA2421	5772	Panorama City	Cx. quinquefasciatus	50	GRVD	9/24/2014	WNV	RTPCR
Los Angeles	GRLA2465	5781	Los Feliz	Cx. quinquefasciatus	47	GRVD	9/25/2014	WNV	RTPCR
Los Angeles	GRLA2547	5757	Sylmar	Cx. quinquefasciatus	14	GRVD	9/23/2014	WNV	RTPCR
Los Angeles	GRLA2550	5763	Mission Hills	Cx. quinquefasciatus	50	GRVD	9/23/2014	WNV	RTPCR
Los Angeles	GRLA2552	5782	Glendale	Cx. quinquefasciatus	50	GRVD	9/25/2014	WNV	RTPCR
Los Angeles	GRLA2889	682	Lakewood	Cx. quinquefasciatus	17	GRVD	9/24/2014	WNV	RTPCR
Los Angeles	GRLA3034	5773	North Hills	Cx. quinquefasciatus	50	GRVD	9/24/2014	WNV	RTPCR
Los Angeles	GRLA3046	697	Bellflower	Cx. quinquefasciatus	50	GRVD	9/25/2014	WNV	RTPCR
Los Angeles	GRLA3059	695	Paramount	Cx. quinquefasciatus	50	GRVD	9/25/2014	WNV	RTPCR
Los Angeles	GRLA3077	5777	Silver Lake	Cx. quinquefasciatus	40	GRVD	9/25/2014	WNV	RTPCR
Los Angeles	LACW1009	158	Los Angeles	Cx. quinquefasciatus	50	GRVD	9/23/2014	WNV	RTPCR
Los Angeles	LACW1054	161	Inglewood	Cx. quinquefasciatus	50	CO2	9/25/2014	WNV	RTPCR
Los Angeles	LONG308	57	Long Beach	Cx. quinquefasciatus	50	CO2	9/30/2014	WNV	RTPCR
Los Angeles	SGVA894	304	Temple City	Cx. quinquefasciatus	3	GRVD	9/25/2014	WNV	RAMP
Orange	ORCO1008	2003	Fullerton	Cx. quinquefasciatus	38	GRVD	9/24/2014	WNV	RTPCR
Orange	ORCO1008	2006	Fullerton	Cx. quinquefasciatus	50	GRVD	9/24/2014	WNV	RTPCR
Orange	ORCO1009	1934	Garden Grove	Cx. quinquefasciatus	23	GRVD	9/23/2014	WNV	RTPCR
Orange	ORCO169	1942	Orange	Cx. quinquefasciatus	42	GRVD	9/23/2014	WNV	RTPCR
Orange	ORCO17	1939	Orange	Cx. quinquefasciatus	33	GRVD	9/23/2014	WNV	RTPCR
Orange	ORCO198	1952	La Habra	Cx. quinquefasciatus	27	GRVD	9/23/2014	WNV	RTPCR
Orange	ORCO2	1967	Fullerton	Cx. quinquefasciatus	50	GRVD	9/23/2014	WNV	RTPCR
Orange	ORCO2	1968	Fullerton	Cx. quinquefasciatus	50	GRVD	9/23/2014	WNV	RTPCR
Orange	ORCO2	1970	Fullerton	Cx. quinquefasciatus	20	GRVD	9/23/2014	WNV	RTPCR
Orange	ORCO205	1940	Tustin	Cx. quinquefasciatus	50	GRVD	9/23/2014	WNV	RTPCR
Orange	ORCO217	1937	Santa Ana	Cx. quinquefasciatus	47	GRVD	9/23/2014	WNV	RTPCR
Orange	ORCO217	1948	Santa Ana	Cx. quinquefasciatus	45	GRVD	9/23/2014	WNV	RTPCR
Orange	ORCO217	1972	Santa Ana	Cx. quinquefasciatus	37	GRVD	9/23/2014	WNV	RTPCR
Orange	ORCO217	2061	Santa Ana	Cx. quinquefasciatus	50	GRVD	9/25/2014	WNV	RTPCR
Orange	ORCO3	1985	Garden Grove	Cx. quinquefasciatus	32	GRVD	9/24/2014	WNV	RTPCR
Orange	ORCO34	1958	Brea	Cx. quinquefasciatus	27	GRVD	9/23/2014	WNV	RTPCR
Orange	ORCO4	1993	Huntington Beach	Cx. quinquefasciatus	18	GRVD	9/24/2014	WNV	RTPCR
Orange	ORCO50	1962	Buena Park	Cx. quinquefasciatus	50	GRVD	9/23/2014	WNV	RTPCR
Orange	ORCO50	1963	Buena Park	Cx. quinquefasciatus	50	GRVD	9/23/2014	WNV	RTPCR
Orange	ORCO50	1964	Buena Park	Cx. quinquefasciatus	8	GRVD	9/23/2014	WNV	RTPCR
Orange	ORCO7	1991	Seal Beach	Cx. quinquefasciatus	24	GRVD	9/24/2014	WNV	RTPCR
Orange	ORCO75	2020	San Juan Capistrano	Cx. quinquefasciatus	50	GRVD	9/25/2014	WNV	RTPCR
Orange	ORCO82	1956	Cypress	Cx. quinquefasciatus	39	GRVD	9/23/2014	WNV	RTPCR
Riverside	COAV131	1261	Oasis	Cx. tarsalis	17	CO2	9/26/2014	WNV	RTPCR
Riverside	COAV17	1341	Mecca	Cx. tarsalis	50	CO2	9/25/2014	WNV	RTPCR

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Riverside	COAV27	1322	North Shore	Cx. tarsalis	50	CO2	9/25/2014	WNV	RTPCR
Riverside	COAV27	1325	North Shore	Cx. tarsalis	50	CO2	9/25/2014	WNV	RTPCR
Riverside	COAV30	1328	Mecca	Cx. tarsalis	50	CO2	9/25/2014	WNV	RTPCR
Riverside	COAV320	1357	Palm Desert	Cx. quinquefasciatus	10	GRVD	9/26/2014	WNV	RTPCR
Riverside	COAV35	1349	Mecca	Cx. tarsalis	50	CO2	9/25/2014	WNV	RTPCR
Riverside	COAV50	1272	Mecca	Cx. tarsalis	11	CO2	9/24/2014	WNV	RTPCR
Riverside	COAV68	1318	Mecca	Cx. tarsalis	50	CO2	9/26/2014	WNV	RTPCR
Riverside	RIVR51	736	Moreno Valley	Cx. tarsalis	50	CO2	10/1/2014	WNV	RTPCR
Riverside	RIVR97	688	Murrieta	Cx. quinquefasciatus	14	CO2	9/30/2014	WNV	RTPCR
Sacramento	SAYO224005	6770	Rancho Cordova	Cx. pipiens	33	CO2	9/30/2014	WNV	RTPCR
Sacramento	SAYO243012	6668	Elk Grove	Cx. pipiens	50	CO2	9/25/2014	WNV	RTPCR
Sacramento	SAYO243016	6701	Elk Grove	Cx. tarsalis	50	CO2	9/25/2014	WNV	RTPCR
Sacramento	SAYO243016	6702	Elk Grove	Cx. tarsalis	50	CO2	9/25/2014	WNV	RTPCR
Sacramento	SAYO253014	6636	Galt	Cx. tarsalis	50	CO2	9/25/2014	WNV	RTPCR
Sacramento	SAYO253014	6642	Galt	Cx. pipiens	30	CO2	9/25/2014	WNV	RTPCR
Sacramento	SAYO254027	6912	Galt	Cx. pipiens	50	CO2	10/2/2014	WNV	RTPCR
Sacramento	SAYO280001	6944	Rio Vista	Cx. tarsalis	50	CO2	10/2/2014	WNV	RTPCR
San Bernardino	SANB39	413	Upland	Cx. quinquefasciatus	50	CO2	9/24/2014	WNV	RTPCR
San Bernardino	WVAL2022	1187	Fwy CA 60	Cx. quinquefasciatus	50	GRVD	9/25/2014	WNV	RTPCR
San Joaquin	SJCM7025	1727	Tracy	Cx. pipiens	2	GRVD	9/30/2014	WNV	RTPCR
San Joaquin	SJCM8032	1788	Escalon	Cx. pipiens	45	CO2	10/2/2014	WNV	RTPCR
San Mateo	SANM485	383	Foster City	Cx. pipiens	11	CO2	9/16/2014	WNV	RTPCR
San Mateo	SANM486	387	Foster City	Cx. tarsalis	3	CO2	9/16/2014	WNV	RTPCR
Sonoma	MARN533	763	San Anselmo	Cx. pipiens	2	GRVD	9/26/2014	WNV	RTPCR
Sonoma	MARN538	804	Santa Rosa	Cx. stigmatosoma	18	GRVD	10/2/2014	WNV	RTPCR
Stanislaus	TRLK1313	1145	Turlock	Cx. pipiens	50	CO2	9/24/2014	WNV	RTPCR
Stanislaus	TRLK1313	1146	Turlock	Cx. pipiens	50	CO2	9/24/2014	WNV	RTPCR
Stanislaus	TRLK1313	1147	Turlock	Cx. pipiens	50	CO2	9/24/2014	WNV	RTPCR
Stanislaus	TRLK1313	1148	Turlock	Cx. pipiens	50	CO2	9/24/2014	WNV	RTPCR
Stanislaus	TRLK1450	1116	Turlock	Cx. pipiens	50	CO2	9/24/2014	WNV	RTPCR
Stanislaus	TRLK1450	1117	Turlock	Cx. pipiens	50	CO2	9/24/2014	WNV	RTPCR
Stanislaus	TRLK1450	1118	Turlock	Cx. pipiens	50	CO2	9/24/2014	WNV	RTPCR
Stanislaus	TRLK1450	1119	Turlock	Cx. pipiens	50	CO2	9/24/2014	WNV	RTPCR
Stanislaus	TRLK1452	1103	Turlock	Cx. pipiens	50	CO2	9/24/2014	WNV	RTPCR
Stanislaus	TRLK1454	1159	Turlock	Cx. pipiens	50	CO2	9/24/2014	WNV	RTPCR
Stanislaus	TRLK1458	1232	Hughson	Cx. pipiens	50	CO2	9/30/2014	WNV	RTPCR
Stanislaus	TRLK1461	1227	Hughson	Cx. pipiens	50	CO2	9/30/2014	WNV	RTPCR
Stanislaus	TRLK516	1191	Denair	Cx. pipiens	50	CO2	9/29/2014	WNV	RTPCR
Stanislaus	TRLK531	1153	Turlock	Cx. pipiens	50	CO2	9/24/2014	WNV	RTPCR
Stanislaus	TRLK536	1134	Turlock	Cx. pipiens	50	CO2	9/24/2014	WNV	RTPCR
Yolo	SAYO125025	6676	Woodland	Cx. pipiens	4	GRVD	9/25/2014	WNV	RTPCR
Yolo	SAYO146002	6693	Davis	Cx. tarsalis	50	CO2	9/25/2014	WNV	RTPCR

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Week 40 Friday, October 3, 2014

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Butte	BUCO0005	Honcut	9/23/2014	WNV	1125			
Contra Costa	CNTR8152	Knightsen	9/22/2014	WNV	1306			
Glenn	GLEN9701	Willows	9/24/2014	WNV	1395			
Los Angeles	LACW1001	Rolling Hills Est...	9/24/2014	WNV	1606			
Los Angeles	LACW1004	Lawndale	9/17/2014	WNV	1622	1624		
Los Angeles	LACW1006	Playa Del Rey	9/24/2014	WNV	1631	1634		
Los Angeles	LACW1026	Beverly Hills	9/23/2014	WNV	1695			
Riverside	RIVR0008	Murrieta	10/1/2014	WNV	1874			
San Bernardino	SANB0007	Fontana	9/16/2014	WNV	2016	2051	2054	2056
Solano	SOLA0015	Winters	9/26/2014	WNV	1963	1966	1969	
Solano	SOLA0050	Fairfield	9/26/2014	WNV	1988			
Sonoma	MARN118	Cloverdale	9/22/2014	WNV	1526			
Sutter	SUYA0020	Meridian	9/25/2014	WNV	2238			
Sutter	SUYA0031	Rio Oso	9/25/2014	WNV	2227			

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 RNase 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.

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.westmile.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.westmilemaps.usgs.gov.