

California Arbovirus Surveillance Bulletin #34

Week 41 Friday, October 10, 2014

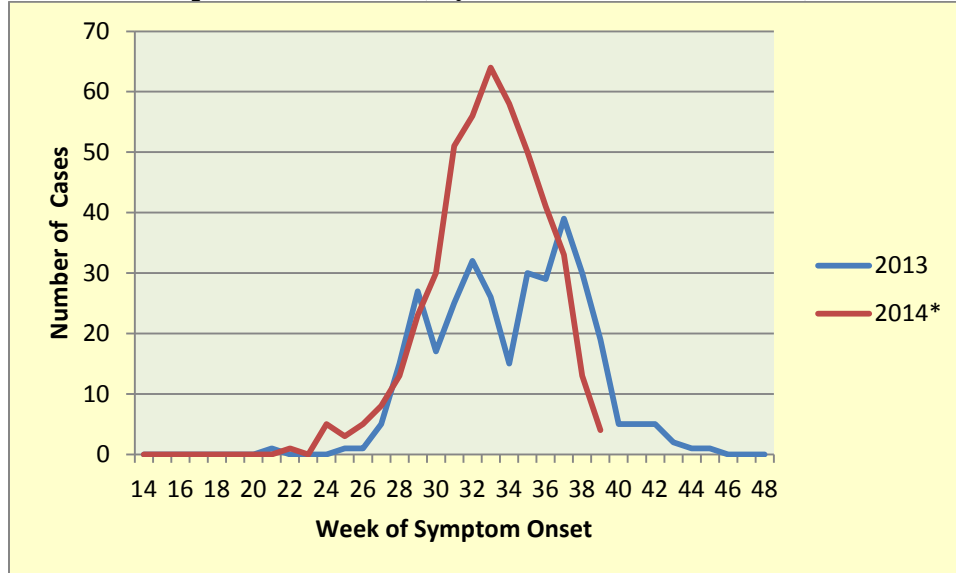


WEEKLY UPDATE

Humans

A total of 60 new cases of West Nile virus (WNV) disease were reported to the California Department of Public Health (CDPH) this week from the following 16 counties: Butte (1), Contra Costa (1), Glenn (1), Kern (2), Kings (1), Los Angeles (18), Orange (15), Riverside (4), San Bernardino (2), San Joaquin (2), Santa Clara (1), Stanislaus (3), Sutter (2), Tehama (1), Tulare (1), and Yolo (5). As of October 6, a total of 488 human cases of WNV disease have been reported from 29 counties. As of this date in 2013, 236 cases had been reported from 26 counties. Of the 488 case-patients, 330 (68%) had neuroinvasive illness. The median age of the 488 individuals is 58 years (range: 3 months – 93 years); 299 (61%) are male. Dates of symptom onset for individuals where data are available range from May 27 to September 25. Sixteen WNV-related fatalities have been reported to CDPH from eight counties: Glenn (1), Los Angeles (3), Orange (4), Sacramento (2), Shasta (1), Stanislaus (2), Sutter (2), and Tehama (1). In addition, 61 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 (15), 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 10/6/14. Data incomplete due to reporting delays.

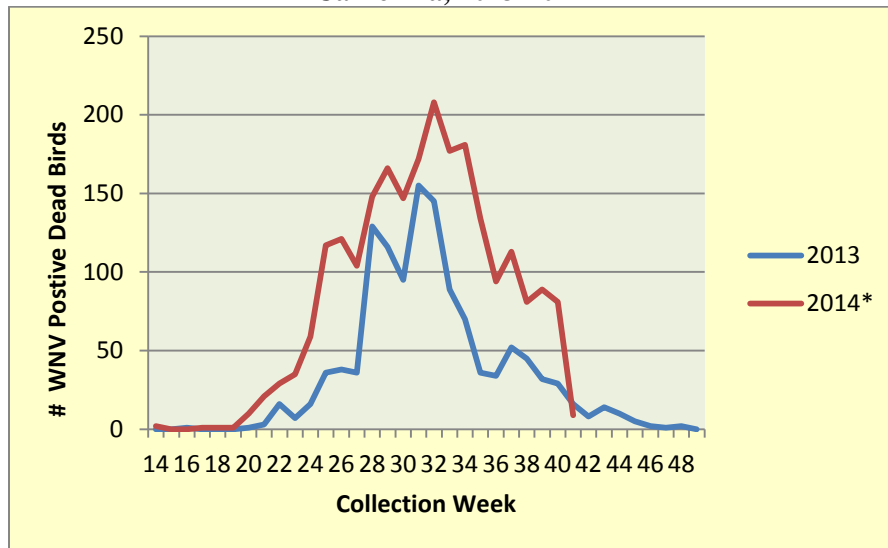
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Dead Birds

A total of 59 WNV positive dead birds were reported this week from the following 12 counties: Alameda (2), Contra Costa (1), Los Angeles (10), Marin (1), Orange (19), Sacramento (2), San Diego (7), San Mateo (1), Santa Clara (10), Sonoma (3), Ventura (2), and Yolo (1). In 2014, 2,312 dead birds have tested positive for WNV from 35 counties. At this time last year, 1,158 WNV positive dead birds had been detected in 38 counties.

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

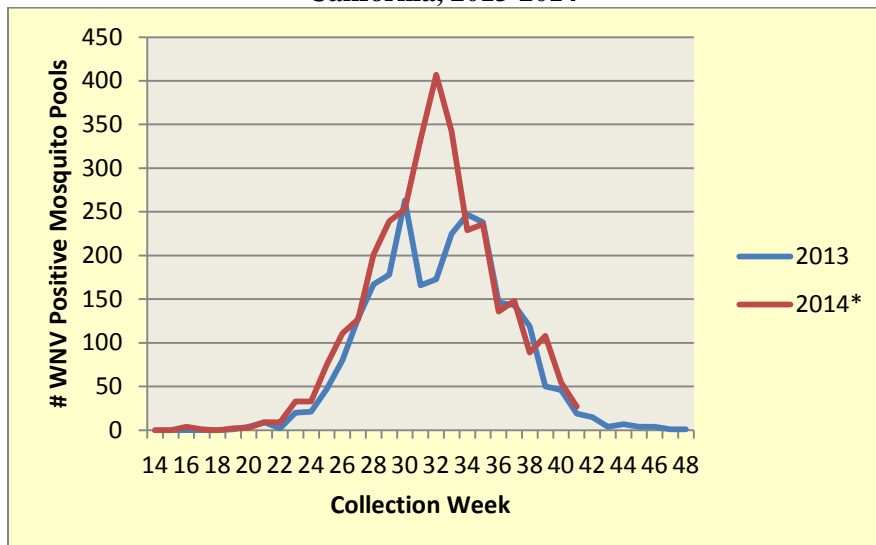


*Reported to CDPH as of 10/10/14. Data incomplete due to reporting delays.

Mosquito Pools

A total of 71 WNV positive mosquito pools were reported this week from the following 13 counties: Contra Costa (1), Fresno (4), Kern (1), Lake (3), Los Angeles (13), Orange (24), Placer (1), Riverside (4), Sacramento (2), San Bernardino (2), San Joaquin (13), Sonoma (1), and Stanislaus (2). In 2014, 3,210 mosquito pools from 29 counties have tested positive for WNV. At this time last year, 2,480 WNV positive mosquito pools had been reported from 28 counties.

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



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

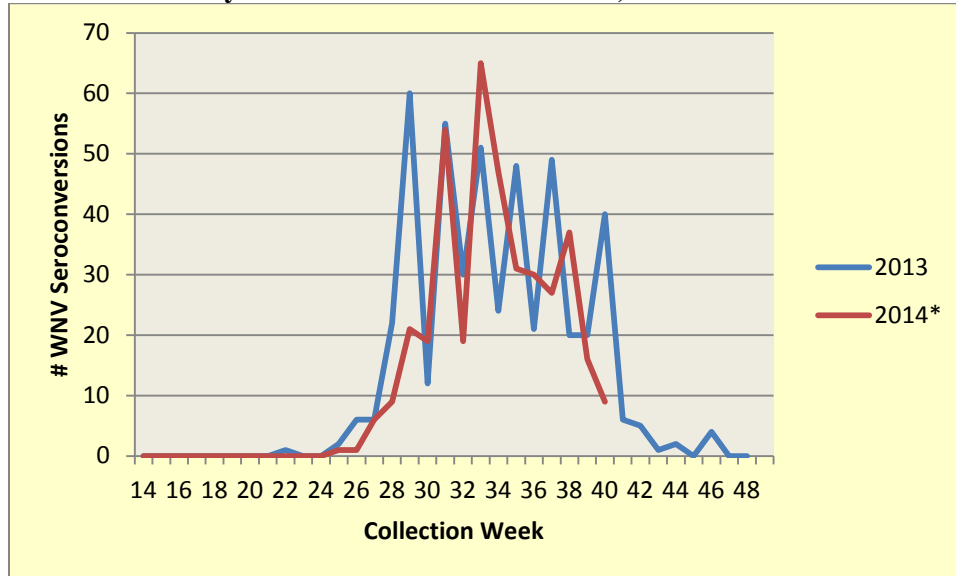
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Sentinel Chickens

A total of 12 new WNV seroconversions were reported this week from 12 flocks located in the following 7 counties: Los Angeles (4), Merced (1), Riverside (2), Sacramento (1), San Bernardino (2), San Diego (1), and Santa Clara (1). **This is the first WNV seroconversion reported from San Diego County this year.** In 2014, 394 WNV positive chickens have been reported from 91 flocks located in 22 counties. At this time last year, 453 WNV seroconversions had been reported from 107 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		92	16	1
Butte	21	22	40	37
Colusa	4	4	1	8
Contra Costa	3	43	23	14
El Dorado		5		
Fresno	30	9	134	
Glenn	12	4	8	9
Humboldt		2		
Imperial	2			
Kern	8	3	111	
Kings	3	3	150	
Lake	1	18	71	5
Los Angeles	105	95	298	124
Madera	3	5	37	
Marin		6	3	
Mendocino	1			
Merced	1	8	11	10
Napa		12		
Orange	172	386	459	
Placer	3	39	77	
Riverside	8	1	89	32
Sacramento	10	291	486	9
San Bernardino	13	15	95	29
San Diego	2	19		1
San Joaquin	7	52	223	
San Mateo		18	15	
Santa Clara	8	888	30	5
Santa Cruz		1		
Shasta	2	6	33	9
Solano	1	33	11	23
Sonoma		32	9	3
Stanislaus	33	47	172	12
Sutter	4	19	52	29
Tehama	4			13
Tulare	14	40	311	4
Ventura		7		
Yolo	9	71	221	8
Yuba	4	16	24	9
Totals	488	2,312	3,210	394

**Total does not include asymptomatic infections*

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2013 & 2014 YTD West Nile Virus Comparisons		
	2013	2014
Total # Dead Bird Reports	13,604	13,349
# Positive Counties	41	38
# Human Cases	237	488
# Positive Dead Birds / # Tested	1,158 / 3,055	2,312 / 3,736
# Positive Mosquito Pools / # Tested	2,480 / 28,489	3,210 / 28,353
# Seroconversions / # Tested	453 / 14,926	394 / 13,210

TESTING SUMMARIES

Humans

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	60	0	0	0	0	0
	YTD	488	0	0	0	0	0

Dead Birds

Dead Birds		Number Tested	WNV Positive
		Week	96
	YTD	3,736	2,312

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
		Chicken Sera	Week	329	12
	YTD	13,210	394	0	0
Mosquito Pools	Week	1,158	71	0	0
	YTD	28,353	3,210	0	0

NEW POSITIVES

Dead Birds

County	Agency	City	Zip	Species	Reported	Virus	Method
Alameda	Alameda Co MAD	Livermore	94550	Common Raven	9/29/2014	WNV	RAMP
Alameda	Alameda Co MAD	Pleasanton	94566	House Finch	9/25/2014	WNV	RT-PCR
Contra Costa	Contra Costa MVCD	Alamo	94507	American Crow	10/8/2014	WNV	RAMP
Los Angeles	Greater Los Angeles Co VCD - SFS	Cerritos	90703	American Crow	9/23/2014	WNV	RT-PCR
Los Angeles	Greater Los Angeles Co VCD - SFS	Cerritos	90703	American Crow	10/2/2014	WNV	RT-PCR
Los Angeles	Greater Los Angeles Co VCD - SFS	Gardena	90249	American Crow	9/24/2014	WNV	RT-PCR
Los Angeles	Greater Los Angeles Co VCD - SFS	Long Beach	90808	American Crow	9/22/2014	WNV	RT-PCR
Los Angeles	Greater Los Angeles Co VCD - SFS	Los Angeles	90041	American Crow	10/1/2014	WNV	RT-PCR
Los Angeles	Greater L.A. Co VCD - Sylmar	North Hollywood	91602	American Crow	10/3/2014	WNV	RT-PCR
Los Angeles	Greater L.A. Co VCD - Sylmar	Valencia	91355	American Crow	10/1/2014	WNV	RT-PCR
Los Angeles	Los Angeles Co West VCD	Culver City	90232	American Crow	10/6/2014	WNV	RT-PCR
Los Angeles	Los Angeles Co West VCD	Los Angeles	90004	American Crow	10/6/2014	WNV	RT-PCR
Los Angeles	Los Angeles Co West VCD	Santa Monica	90405	American Crow	10/6/2014	WNV	RT-PCR
Marin	Marin-Sonoma MVCD	Novato	94949	American Crow	10/2/2014	WNV	RT-PCR

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Orange	Orange Co VCD	Anaheim	92801	American Crow	10/2/2014	WNV	RT-PCR
Orange	Orange Co VCD	Costa Mesa	92626	American Crow	10/6/2014	WNV	RT-PCR
Orange	Orange Co VCD	Costa Mesa	92627	American Crow	10/1/2014	WNV	RT-PCR
Orange	Orange Co VCD	Costa Mesa	92627	American Crow	10/1/2014	WNV	RT-PCR
Orange	Orange Co VCD	Costa Mesa	92627	American Crow	10/6/2014	WNV	RT-PCR
Orange	Orange Co VCD	Cypress	90630	American Crow	10/2/2014	WNV	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92647	American Crow	10/2/2014	WNV	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92647	American Crow	10/3/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92602	American Crow	10/3/2014	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	10/2/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92604	American Crow	10/3/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92604	American Crow	10/3/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92604	American Crow	10/3/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92612	American Crow	9/30/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92614	American Crow	10/1/2014	WNV	RT-PCR
Orange	Orange Co VCD	Lake Forest	92630	American Crow	10/1/2014	WNV	RT-PCR
Orange	Orange Co VCD	Santa Ana	92704	American Crow	10/6/2014	WNV	RT-PCR
Orange	Orange Co VCD	Santa Ana	92707	American Crow	10/2/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	American Crow	10/2/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	10/3/2014	WNV	RT-PCR
San Diego	San Diego Co VCP	Bonita	91902	Common Raven	10/2/2014	WNV	RT-PCR
San Diego	San Diego Co VCP	El Cajon	92021	American Crow	10/2/2014	WNV	RT-PCR
San Diego	San Diego Co VCP	San Diego	92103	Western Scrub-Jay	10/2/2014	WNV	RT-PCR
San Diego	San Diego Co VCP	San Diego	92110	American Crow	9/29/2014	WNV	RT-PCR
San Diego	San Diego Co VCP	San Diego	92110	American Crow	10/2/2014	WNV	RT-PCR
San Diego	San Diego Co VCP	Santee	92071	American Crow	9/29/2014	WNV	RT-PCR
San Diego	San Diego Co VCP	Santee	92071	American Crow	10/2/2014	WNV	RT-PCR
San Mateo	San Mateo Co MAD	Pacifica	94044	American Crow	10/6/2014	WNV	RAMP
Santa Clara	Santa Clara Co VCD	Campbell	95008	American Crow	9/26/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Los Gatos	95030	Western Scrub-Jay	10/1/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Mountain View	94041	American Crow	9/30/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95120	Western Scrub-Jay	10/1/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95121	Steller's Jay	10/1/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95123	American Crow	9/29/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95123	American Crow	9/29/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	9/30/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	10/2/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	10/1/2014	WNV	RT-PCR
Sonoma	Marin-Sonoma MVCD	Healdsburg	95448	American Crow	10/8/2014	WNV	RT-PCR
Sonoma	Marin-Sonoma MVCD	Kenwood	95452	American Crow	10/2/2014	WNV	RT-PCR
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95403	American Crow	10/2/2014	WNV	RT-PCR
Ventura	Ventura Co Env Health Dept	Camarillo	93010	American Crow	9/29/2014	WNV	RT-PCR
Ventura	Ventura Co Env Health Dept	Simi Valley	93065	American Crow	9/30/2014	WNV	RT-PCR
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/29/2014	WNV	RT-PCR

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Mosquitoes

County	Site Code	Pool #	City	Species	# in Pool	Trap	Collected	Virus	Method
Contra Costa	CNTR5525	534	Byron	Cx. pipiens	45	CO2	10/6/2014	WNV	RAMP
Fresno	CNSL1888	485	Fresno	Cx. quinquefasciatus	48	GRVD	9/25/2014	WNV	RTPCR
Fresno	FRWS400010	283	Mendota	Cx. tarsalis	50	CO2	10/7/2014	WNV	RTPCR
Fresno	FRWS4102	287	Kerman	Cx. tarsalis	50	CO2	10/7/2014	WNV	RTPCR
Fresno	FRWS5116	291	Tranquility	Cx. tarsalis	30	CO2	10/7/2014	WNV	RTPCR
Kern	WEST6236	132		Cx. tarsalis	50	CO2	10/8/2014	WNV	RTPCR
Lake	LAKE315	733	Kelseyville	Cx. thriambus	18	REST	10/3/2014	WNV	RTPCR
Lake	LAKE317	734	Kelseyville	Cx. stigmatosoma	32	REST	10/3/2014	WNV	RTPCR
Lake	LAKE317	735	Kelseyville	Cx. thriambus	12	REST	10/3/2014	WNV	RTPCR
Los Angeles	GRLA2007	5818	Toluca Lake	Cx. quinquefasciatus	50	GRVD	10/3/2014	WNV	RTPCR
Los Angeles	GRLA2021	5794	Reseda	Cx. quinquefasciatus	50	GRVD	10/1/2014	WNV	RTPCR
Los Angeles	GRLA2034	5793	Tarzana	Cx. quinquefasciatus	29	GRVD	10/1/2014	WNV	RTPCR
Los Angeles	GRLA2196	716	South El Monte	Cx. quinquefasciatus	23	GRVD	10/2/2014	WNV	RTPCR
Los Angeles	GRLA2228	721	Diamond Bar	Cx. quinquefasciatus	40	GRVD	10/2/2014	WNV	RTPCR
Los Angeles	GRLA2592	5811	San Marino	Cx. quinquefasciatus	50	GRVD	10/2/2014	WNV	RTPCR
Los Angeles	GRLA3069	5822	Valley Village	Cx. quinquefasciatus	50	GRVD	10/3/2014	WNV	RTPCR
Los Angeles	GRLA3070	706	Commerce	Cx. quinquefasciatus	50	GRVD	10/1/2014	WNV	RTPCR
Los Angeles	GRLA3071	708	East Los Angeles	Cx. quinquefasciatus	50	GRVD	10/1/2014	WNV	RTPCR
Los Angeles	GRLA3073	711	Lincoln Heights	Cx. quinquefasciatus	50	GRVD	10/1/2014	WNV	RTPCR
Los Angeles	GRLA3075	713	El Sereno	Cx. quinquefasciatus	50	GRVD	10/1/2014	WNV	RTPCR
Los Angeles	GRLA3080	5823	North Hollywood	Cx. quinquefasciatus	50	GRVD	10/3/2014	WNV	RTPCR
Los Angeles	GRLA3102	5820	Studio City	Cx. quinquefasciatus	50	GRVD	10/3/2014	WNV	RTPCR
Orange	ORCO1000	2127	Placentia	Cx. quinquefasciatus	50	GRVD	9/30/2014	WNV	RTPCR
Orange	ORCO1005	2084	Buena Park	Cx. quinquefasciatus	38	GRVD	9/26/2014	WNV	RTPCR
Orange	ORCO1009	2103	Garden Grove	Cx. quinquefasciatus	43	GRVD	9/30/2014	WNV	RTPCR
Orange	ORCO1010	2151	Huntington Beach	Cx. quinquefasciatus	23	GRVD	10/1/2014	WNV	RTPCR
Orange	ORCO1010	2152	Huntington Beach	Cx. quinquefasciatus	23	GRVD	10/1/2014	WNV	RTPCR
Orange	ORCO1015	2182	Orange	Cx. quinquefasciatus	35	GRVD	10/2/2014	WNV	RTPCR
Orange	ORCO1025	2213	Costa Mesa	Cx. quinquefasciatus	50	GRVD	10/2/2014	WNV	RTPCR
Orange	ORCO1025	2221	Costa Mesa	Cx. quinquefasciatus	50	GRVD	10/2/2014	WNV	RTPCR
Orange	ORCO1025	2223	Costa Mesa	Cx. quinquefasciatus	46	GRVD	10/2/2014	WNV	RTPCR
Orange	ORCO13	2177	Irvine	Cx. tarsalis	4	CO2	10/2/2014	WNV	RTPCR
Orange	ORCO169	2094	Orange	Cx. quinquefasciatus	41	GRVD	9/30/2014	WNV	RTPCR
Orange	ORCO199	2188	Costa Mesa	Cx. quinquefasciatus	10	GRVD	10/2/2014	WNV	RTPCR
Orange	ORCO2	2118	Fullerton	Cx. quinquefasciatus	50	GRVD	9/30/2014	WNV	RTPCR
Orange	ORCO205	2097	Tustin	Cx. quinquefasciatus	40	GRVD	9/30/2014	WNV	RTPCR
Orange	ORCO205	2099	Tustin	Cx. quinquefasciatus	30	GRVD	9/30/2014	WNV	RTPCR
Orange	ORCO217	2212	Santa Ana	Cx. quinquefasciatus	8	CO2	10/2/2014	WNV	RTPCR
Orange	ORCO218	2150	Anaheim	Cx. quinquefasciatus	17	GRVD	10/1/2014	WNV	RTPCR
Orange	ORCO3	2090	Garden Grove	Cx. quinquefasciatus	24	GRVD	9/30/2014	WNV	RTPCR
Orange	ORCO36	2115	Cypress	Cx. quinquefasciatus	50	GRVD	9/30/2014	WNV	RTPCR
Orange	ORCO36	2116	Cypress	Cx. quinquefasciatus	26	GRVD	9/30/2014	WNV	RTPCR
Orange	ORCO5	2194	Huntington Beach	Cx. quinquefasciatus	30	GRVD	10/2/2014	WNV	RTPCR
Orange	ORCO7	2210	Seal Beach	Cx. quinquefasciatus	49	GRVD	10/2/2014	WNV	RTPCR
Orange	ORCO82	2109	Cypress	Cx. quinquefasciatus	20	GRVD	9/30/2014	WNV	RTPCR
Orange	ORCO84	2096	Orange	Cx. quinquefasciatus	43	GRVD	9/30/2014	WNV	RTPCR
Placer	PLCR184235	1961	Lincoln	Cx. pipiens	8	CO2	10/7/2014	WNV	RTPCR
Riverside	COAV131	1436	Oasis	Cx. tarsalis	47	CO2	10/7/2014	WNV	RTPCR

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Riverside	COAV54	1500	Mecca	Cx. tarsalis	34	CO2	10/7/2014	WNV	RTPCR
Riverside	COAV540	1536	Mecca	Cx. tarsalis	50	CO2	10/7/2014	WNV	RTPCR
Riverside	COAV610	1526		Cx. tarsalis	50	CO2	10/7/2014	WNV	RTPCR
Sacramento	SAYO203007	7026	Elverta	Cx. pipiens	25	GRVD	10/7/2014	WNV	RTPCR
Sacramento	SAYO224010	7099	Sacramento	Cx. pipiens	25	CO2	10/9/2014	WNV	RTPCR
San Bernardino	SANB27	461	San Bernardino	Cx. quinquefasciatus	7	CO2	10/1/2014	WNV	RTPCR
San Bernardino	SANB47	432	San Bernardino	Cx. quinquefasciatus	50	CO2	9/30/2014	WNV	RTPCR
San Joaquin	SJCM8005	1908	Stockton	Cx. tarsalis	50	CO2	10/7/2014	WNV	RTPCR
San Joaquin	SJCM8005	1910	Stockton	Cx. pipiens	50	CO2	10/7/2014	WNV	RTPCR
San Joaquin	SJCM8056	1866	Manteca	Cx. tarsalis	50	CO2	10/7/2014	WNV	RTPCR
San Joaquin	SJCM8056	1869	Manteca	Cx. tarsalis	50	CO2	10/7/2014	WNV	RTPCR
San Joaquin	SJCM8056	1875	Manteca	Cx. pipiens	50	CO2	10/7/2014	WNV	RTPCR
San Joaquin	SJCM8083	1841	Escalon	Cx. pipiens	50	CO2	10/7/2014	WNV	RTPCR
San Joaquin	SJCM8094	1860	Manteca	Cx. tarsalis	50	CO2	10/7/2014	WNV	RTPCR
San Joaquin	SJCM8094	1861	Manteca	Cx. tarsalis	50	CO2	10/7/2014	WNV	RTPCR
San Joaquin	SJCM8094	1862	Manteca	Cx. tarsalis	50	CO2	10/7/2014	WNV	RTPCR
San Joaquin	SJCM8094	1863	Manteca	Cx. tarsalis	31	CO2	10/7/2014	WNV	RTPCR
San Joaquin	SJCM8094	1864	Manteca	Cx. pipiens	50	CO2	10/7/2014	WNV	RTPCR
San Joaquin	SJCM8161	1877	Ripon	Cx. tarsalis	30	CO2	10/7/2014	WNV	RTPCR
San Joaquin	SJCM8161	1878	Ripon	Cx. pipiens	50	CO2	10/7/2014	WNV	RTPCR
Sonoma	MARN538	817	Santa Rosa	Cx. pipiens	7	GRVD	10/4/2014	WNV	RTPCR
Stanislaus	TRLK548	1309	Newman	Cx. tarsalis	50	CO2	10/7/2014	WNV	RTPCR
Stanislaus	TRLK548	1310	Newman	Cx. tarsalis	50	CO2	10/7/2014	WNV	RTPCR

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01
Los Angeles	GRLA2132	Wilmington	9/29/2014	WNV	1419
Los Angeles	GRLA2465	Los Feliz	9/29/2014	WNV	1441
Los Angeles	LACW1003	Redondo Beach	9/17/2014	WNV	1615
Los Angeles	LACW1005	El Segundo	9/25/2014	WNV	1627
Merced	MERC0006	Merced	10/2/2014	WNV	1793
Riverside	COAV0122	Mecca	9/29/2014	WNV	1223
Riverside	COAV0131	Oasis	9/29/2014	WNV	1216
Sacramento	SAYO236001	Rancho Murieta	10/1/2014	WNV	2656
San Bernardino	SANB0007	Fontana	9/30/2014	WNV	2060
San Bernardino	WVAL0002	Chino	9/16/2014	WNV	4003
San Diego	SAND0016	Carlsbad	9/29/2014	WNV	2131
Santa Clara	STCL0000	San Jose	10/6/2014	WNV	2448

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Test Protocols

Humans:

Specimens are tested by local laboratories with an IgM or IgG immunofluorescent assay (IFA) and/or an IgM enzyme immunoassay (EIA). Specimens with inconclusive results are forwarded to the California Department of Public Health Viral and Rickettsial Disease Laboratory (VRDL) for further testing or confirmation.

Dead Birds

Oral swab samples from corvids are collected onto 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.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