

California Arbovirus Surveillance Bulletin #32

Week 39 Friday, September 26, 2014

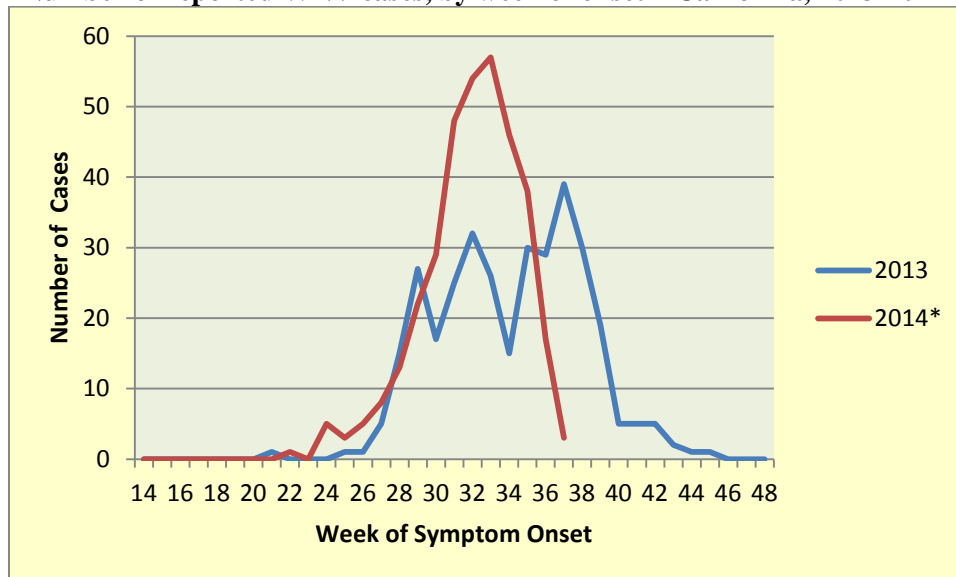


WEEKLY UPDATE

Humans

A total of 65 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 (3), Fresno (1), Glenn (1), Kern (1), Los Angeles (19), Madera (1), Orange (23), Riverside (3), Sacramento (3), San Bernardino (1), San Joaquin (1), Stanislaus (3), Tehama (1), Tulare (1), Yolo (2), and Yuba (1). As of September 22, a total of 375 human cases of WNV disease have been reported from 28 counties. As of this date in 2013, 176 cases had been reported from 25 counties. Of the 375 case-patients, 252 (67%) had neuroinvasive illness. The median age of the 375 individuals is 58 years (range: 6-93 years); 237 (63%) are male. Dates of symptom onset for individuals where data are available range from May 27 to September 9. Fifteen WNV-related fatalities have been reported to CDPH from seven counties: Glenn (1), Los Angeles (3), Orange (4), Sacramento (2), Shasta (1), and Stanislaus (2), and Sutter (2). In addition, 52 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 (8), Orange (11), Placer (1), Riverside (1), San Bernardino (1), 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 9/22/14. Data incomplete due to reporting delays.

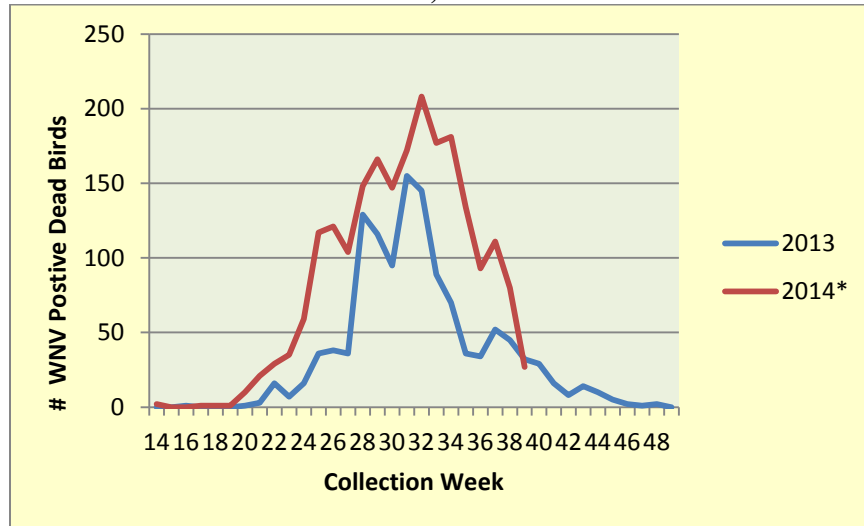
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Dead Birds

A total of 76 WNV positive dead birds were reported this week from the following 16 counties: Alameda (3), Contra Costa (2), El Dorado (1), Los Angeles (10), Marin (2), Orange (20), Placer (1), Sacramento (10), San Joaquin (3), Santa Mateo (2), Santa Clara (11), Shasta (1), Solano (1), Sonoma (6), Stanislaus (2), and Yolo (1). In 2014, 2,155 dead birds have tested positive for WNV from 35 counties. At this time last year, 1,095 WNV positive dead birds had been detected in 38 counties.

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

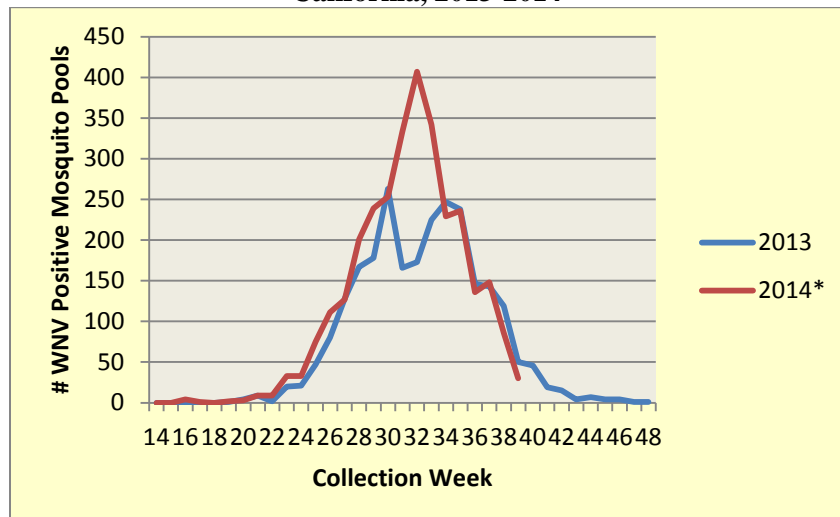


*Reported to CDPH as of 9/26/14. Data incomplete due to reporting delays.

Mosquito Pools

A total of 96 WNV positive mosquito pools were reported this week from the following 13 counties: Contra Costa (1), Fresno (5), Kern (7), Kings (3), Los Angeles (20), Merced (1), Orange (29), Riverside (4), Sacramento (2), San Bernardino (5), San Joaquin (10), Stanislaus (7), and Yolo (2). In 2014, 3,048 mosquito pools from 29 counties have tested positive for WNV. At this time last year, 2,380 WNV positive mosquito pools had been reported from 27 counties.

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



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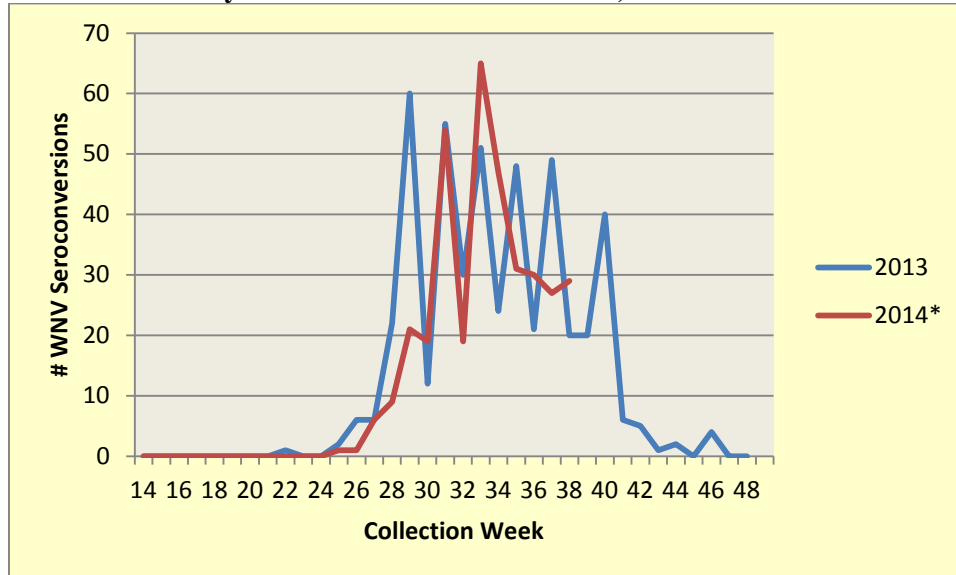
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Sentinel Chickens

A total of 33 new WNV seroconversions were reported this week from 16 flocks located in the following 5 counties: Lake (1), Los Angeles (14), Merced (1), Riverside (16), and Santa Clara (1). In 2014, 361 WNV positive chickens have been reported from 85 flocks located in 21 counties. At this time last year, 404 WNV seroconversions had been reported from 99 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		89	16	1
Butte	19	20	38	36
Colusa	3	4	1	8
Contra Costa	1	40	22	13
El Dorado		5		
Fresno	27	9	128	
Glenn	11	4	8	8
Humboldt		2		
Imperial	2			
Kern	6	3	110	
Kings	2	3	148	
Lake	1	18	68	5
Los Angeles	69	70	266	114
Madera	3	5	37	
Marin		5	3	
Mendocino	1			
Merced		7	11	9
Napa		12		
Orange	139	326	413	
Placer	3	39	76	
Riverside	4	1	74	29
Sacramento	10	285	476	8
San Bernardino	8	13	91	23
San Diego	2	7		
San Joaquin	5	50	208	
San Mateo		16	13	
Santa Clara	6	863	30	4
Santa Cruz		1		
Shasta	2	6	33	9
Solano	1	33	11	19
Sonoma		26	6	2
Stanislaus	28	45	155	12
Sutter	2	19	52	27
Tehama	3			13
Tulare	10	40	311	4
Ventura		5		
Yolo	3	68	219	8
Yuba	4	16	24	9
Totals	375	2,155	3,048	361

**Total does not include asymptomatic infections*

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2013 & 2014 YTD West Nile Virus Comparisons		
	2013	2014
Total # Dead Bird Reports	13,044	12,602
# Positive Counties	41	38
# Human Cases	176	375
# Positive Dead Birds / # Tested	1,095 / 2,956	2,155 / 3,496
# Positive Mosquito Pools / # Tested	2,380 / 26,761	3,048 / 25,625
# Seroconversions / # Tested	404 / 13,882	361 / 12,313

TESTING SUMMARIES

Humans

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	65	0	0	0	0	0
	YTD	375	0	0	0	0	0

Dead Birds

Dead Birds		Number Tested	WNV Positive
		Week	102
	YTD	3,496	2,155

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
		Chicken Sera	Week	399	33
	YTD	12,313	361	0	0
Mosquito Pools	Week	1,084	96	0	0
	YTD	25,625	3,048	0	0

NEW POSITIVES

Dead Birds

County	Agency	City	Zip	Species	Reported	Virus	Method
Alameda	Alameda Co MAD	Livermore	94551	American Crow	9/22/2014	WNV	RAMP
Alameda	Alameda Co MAD	Livermore	94551	House Sparrow	9/12/2014	WNV	RT-PCR
Alameda	Alameda Co MAD	Pleasanton	94566	American Crow	9/23/2014	WNV	RAMP
Contra Costa	Contra Costa MVCD	Discovery Bay	94505	American Crow	9/24/2014	WNV	RAMP
Contra Costa	Contra Costa MVCD	Danville	94526	American Crow	9/21/2014	WNV	RAMP
El Dorado	El Dorado Co Env Mgmt.	Pilot Hill	95664	Cooper's Hawk	9/18/2014	WNV	RT-PCR
Los Angeles	Greater L.A. Co VCD - SFS	Cerritos	90703	American Crow	9/16/2014	WNV	RT-PCR
Los Angeles	Greater L.A. Co VCD - SFS	Long Beach	90808	American Crow	9/8/2014	WNV	RT-PCR
Los Angeles	Greater L.A. Co VCD - SFS	Long Beach	90808	American Crow	9/15/2014	WNV	RT-PCR

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Los Angeles	Greater L.A. Co VCD - SFS	Long Beach	90815	Common Raven	9/8/2014	WNV	RT-PCR
Los Angeles	Greater L.A. Co VCD - Sylmar	Los Angeles	90026	American Crow	9/18/2014	WNV	RT-PCR
Los Angeles	Los Angeles Co West VCD	Los Angeles	90036	American Crow	9/19/2014	WNV	RT-PCR
Los Angeles	Los Angeles Co West VCD	Rolling Hills Estates	90274	American Crow	9/16/2014	WNV	RT-PCR
Los Angeles	San Gabriel Valley MVCD	San Gabriel	91775	American Crow	9/21/2014	WNV	RAMP
Los Angeles	San Gabriel Valley MVCD	San Gabriel	91775	Common Raven	9/19/2014	WNV	RAMP
Los Angeles	San Gabriel Valley MVCD	Alhambra	91801	American Crow	9/19/2014	WNV	RAMP
Marin	Marin-Sonoma MVCD	San Rafael	94901	American Crow	9/17/2014	WNV	RT-PCR
Marin	Marin-Sonoma MVCD	Novato	94945	American Crow	9/18/2014	WNV	RT-PCR
Orange	Orange Co VCD	Rossmoor	90720	American Crow	9/19/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92604	American Crow	9/17/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92604	American Crow	9/20/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92604	American Crow	9/21/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92604	American Crow	9/22/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92606	American Crow	9/22/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92612	American Crow	9/19/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92612	American Crow	9/22/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92614	American Crow	9/17/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92618	American Crow	9/22/2014	WNV	RT-PCR
Orange	Orange Co VCD	Irvine	92620	American Crow	9/20/2014	WNV	RT-PCR
Orange	Orange Co VCD	Costa Mesa	92626	American Crow	9/19/2014	WNV	RT-PCR
Orange	Orange Co VCD	Lake Forest	92630	American Crow	9/18/2014	WNV	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92647	American Crow	9/17/2014	WNV	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92647	American Crow	9/19/2014	WNV	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92648	American Crow	9/17/2014	WNV	RT-PCR
Orange	Orange Co VCD	Mission Viejo	92692	American Crow	9/22/2014	WNV	RT-PCR
Orange	Orange Co VCD	Santa Ana	92703	Western Gull	9/22/2014	WNV	RT-PCR
Orange	Orange Co VCD	Anaheim	92807	American Crow	9/17/2014	WNV	RT-PCR
Orange	Orange Co VCD	Orange	92866	American Crow	9/18/2014	WNV	RT-PCR
Placer	Placer MVCD	Rocklin	95677	Western Scrub-Jay	9/21/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	American Crow	9/18/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	American Crow	9/17/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Folsom	95630	Western Scrub-Jay	9/16/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Folsom	95630	Western Scrub-Jay	9/20/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95670	American Crow	9/17/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	American Crow	9/20/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95811	American Crow	9/19/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95818	American Crow	9/20/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Western Scrub-Jay	9/21/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Yellow-billed Magpie	9/18/2014	WNV	RT-PCR

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San Joaquin	San Joaquin Co MVCD	Tracy	95304	American Crow	9/23/2014	WNV	RT-PCR
San Joaquin	San Joaquin Co MVCD	Manteca	95336	Western Scrub-Jay	9/19/2014	WNV	RT-PCR
San Joaquin	San Joaquin Co MVCD	Tracy	95376	American Crow	9/25/2014	WNV	RT-PCR
San Mateo	San Mateo Co MAD	Redwood City	94063	Western Bluebird	9/15/2014	WNV	RT-PCR
San Mateo	San Mateo Co MAD	Foster City	94404	House Finch	9/19/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	9/21/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Los Altos	94024	American Crow	9/20/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94086	American Crow	9/23/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	9/22/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	9/23/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	9/19/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95111	American Crow	9/19/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95116	American Crow	9/23/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95120	American Crow	9/19/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95120	Western Scrub-Jay	9/24/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95139	American Crow	9/22/2014	WNV	RT-PCR
Shasta	Shasta MVCD	Anderson	96007	Western Scrub-Jay	9/24/2014	WNV	RT-PCR
Solano	Solano Co MAD	Dixon	95620	American Crow	9/22/2014	WNV	RAMP
Sonoma	Marin-Sonoma MVCD	Rohnert Park	94928	American Crow	9/22/2014	WNV	RT-PCR
Sonoma	Marin-Sonoma MVCD	Petaluma	94954	American Crow	9/18/2014	WNV	RT-PCR
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95403	American Crow	9/18/2014	WNV	RT-PCR
Sonoma	Marin-Sonoma MVCD	Forestville	95436	Western Scrub-Jay	9/22/2014	WNV	RT-PCR
Sonoma	Marin-Sonoma MVCD	Healdsburg	95448	Steller's Jay	9/19/2014	WNV	RT-PCR
Sonoma	Marin-Sonoma MVCD	Sebastopol	95472	American Crow	9/17/2014	WNV	RT-PCR
Stanislaus	Turlock MAD	Turlock	95380	Yellow-billed Magpie	9/17/2014	WNV	RT-PCR
Stanislaus	Turlock MAD	Turlock	95382	Western Scrub-Jay	9/14/2014	WNV	RT-PCR
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/17/2014	WNV	RT-PCR

Mosquitoes

County	Site Code	Pool #	City	Species	# in Pool	Trap	Collected	Virus	Method
Contra Costa	CNTR5525	454	Byron	Cx. tarsalis	31	CO2	9/22/14	WNV	RAMP
Fresno	FRNO8	45	Fresno	Cx. quinquefasciatus	23	GRVD	9/23/14	WNV	RTPCR
Fresno	FRWS410001	218	Kerman	Cx. quinquefasciatus	30	CO2	9/23/14	WNV	RTPCR
Fresno	FRWS5301	201	Five Points	Cx. quinquefasciatus	50	CO2	9/18/14	WNV	RTPCR
Fresno	FRWS5302	219	Helm	Cx. quinquefasciatus	50	CO2	9/23/14	WNV	RTPCR
Fresno	FRWS5302	220	Helm	Cx. tarsalis	50	CO2	9/23/14	WNV	RTPCR
Kern	KERN111	496	Arvin	Cx. quinquefasciatus	47	CO2	9/16/14	WNV	RTPCR
Kern	KERN3016	510	Bakersfield	Cx. quinquefasciatus	16	CO2	9/19/14	WNV	RTPCR
Kern	KERN3032	497	Bakersfield	Cx. quinquefasciatus	23	CO2	9/16/14	WNV	RTPCR
Kern	KERN46	507	Wasco	Cx. tarsalis	14	CO2	9/18/14	WNV	RTPCR
Kern	WEST6209	122	Maricopa	Cx. tarsalis	50	CO2	9/24/14	WNV	RTPCR
Kern	WEST6209	125	Maricopa	Cx. tarsalis	39	CO2	9/24/14	WNV	RTPCR

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Kern	WEST6230	126	Maricopa	Cx. tarsalis	35	CO2	9/24/14	WNV	RTPCR
Kings	KNGS3102	426	Armona	Cx. tarsalis	50	CO2	9/12/14	WNV	RTPCR
Kings	KNGS4403	431	Lemoore	Cx. pipiens	50	BGSENT	9/16/14	WNV	RTPCR
Kings	KNGS5506	429	Hanford	Cx. pipiens	18	BGSENT	9/12/14	WNV	RTPCR
Los Angeles	GRLA2007	5750	Toluca Lake	Cx. quinquefasciatus	33	GRVD	9/18/14	WNV	RTPCR
Los Angeles	GRLA2021	5747	Reseda	Cx. quinquefasciatus	39	GRVD	9/18/14	WNV	RTPCR
Los Angeles	GRLA2032	5738	Northridge	Cx. quinquefasciatus	37	GRVD	9/18/14	WNV	RTPCR
Los Angeles	GRLA2035	5746	Tarzana	Cx. quinquefasciatus	14	GRVD	9/18/14	WNV	RTPCR
Los Angeles	GRLA2194	652	South El Monte	Cx. quinquefasciatus	15	GRVD	9/16/14	WNV	RTPCR
Los Angeles	GRLA2539	5741	Northridge	Cx. quinquefasciatus	15	GRVD	9/18/14	WNV	RTPCR
Los Angeles	GRLA2555	5744	Encino	Cx. quinquefasciatus	26	GRVD	9/18/14	WNV	RTPCR
Los Angeles	GRLA2636	5742	Van Nuys	Cx. quinquefasciatus	50	GRVD	9/18/14	WNV	RTPCR
Los Angeles	GRLA2724	5731	Canoga Park	Cx. quinquefasciatus	50	GRVD	9/17/14	WNV	RTPCR
Los Angeles	GRLA2920	668	Carson	Cx. quinquefasciatus	50	CO2	9/18/2014	WNV	RTPCR
Los Angeles	GRLA2995	5729	Woodland Hills	Cx. quinquefasciatus	40	GRVD	9/17/2014	WNV	RTPCR
Los Angeles	GRLA3027	5748	Studio City	Cx. quinquefasciatus	30	GRVD	9/18/14	WNV	RTPCR
Los Angeles	GRLA3028	5735	West Hills	Cx. quinquefasciatus	24	GRVD	9/17/14	WNV	RTPCR
Los Angeles	GRLA3038	5753	Valley Village	Cx. quinquefasciatus	50	GRVD	9/18/14	WNV	RTPCR
Los Angeles	GRLA3052	657	La Habra Heights	Cx. quinquefasciatus	50	GRVD	9/16/14	WNV	RTPCR
Los Angeles	GRLA3067	664	Gardena	Cx. quinquefasciatus	17	GRVD	9/18/2014	WNV	RTPCR
Los Angeles	GRLA3069	5754	Valley Village	Cx. quinquefasciatus	41	GRVD	9/18/14	WNV	RTPCR
Los Angeles	GRLA3070	658	Commerce	Cx. quinquefasciatus	50	GRVD	9/17/14	WNV	RTPCR
Los Angeles	GRLA3072	660	Los Angeles	Cx. quinquefasciatus	50	GRVD	9/17/14	WNV	RTPCR
Los Angeles	GRLA3075	663	El Sereno	Cx. quinquefasciatus	50	GRVD	9/17/14	WNV	RTPCR
Merced	TRLK1448	1018	Newman	Cx. tarsalis	50	CO2	9/18/14	WNV	RTPCR
Orange	ORCO1000	1820	Placentia	Cx. quinquefasciatus	50	GRVD	9/16/14	WNV	RTPCR
Orange	ORCO1000	1821	Placentia	Cx. quinquefasciatus	30	GRVD	9/16/14	WNV	RTPCR
Orange	ORCO1009	1883	Garden Grove	Cx. quinquefasciatus	22	GRVD	9/18/14	WNV	RTPCR
Orange	ORCO1015	1801	Orange	Cx. quinquefasciatus	50	GRVD	9/16/14	WNV	RTPCR
Orange	ORCO1015	1802	Orange	Cx. quinquefasciatus	36	GRVD	9/16/14	WNV	RTPCR
Orange	ORCO1015	1904	Orange	Cx. quinquefasciatus	40	GRVD	9/20/14	WNV	RTPCR
Orange	ORCO1021	1796	Tustin	Cx. quinquefasciatus	41	GRVD	9/16/14	WNV	RTPCR
Orange	ORCO1025	1908	Costa Mesa	Cx. quinquefasciatus	20	GRVD	9/20/14	WNV	RTPCR
Orange	ORCO1029	1836	Lake Forest	Cx. quinquefasciatus	29	GRVD	9/17/14	WNV	RTPCR
Orange	ORCO13	1889	Irvine	Cx. tarsalis	34	CO2	9/18/14	WNV	RTPCR
Orange	ORCO130	1786	Garden Grove	Cx. quinquefasciatus	27	GRVD	9/16/14	WNV	RTPCR
Orange	ORCO168	1791	Santa Ana	Cx. quinquefasciatus	15	GRVD	9/16/14	WNV	RTPCR
Orange	ORCO17	1790	Orange	Cx. quinquefasciatus	6	GRVD	9/16/14	WNV	RTPCR
Orange	ORCO2	1811	Fullerton	Cx. quinquefasciatus	50	GRVD	9/16/14	WNV	RTPCR
Orange	ORCO205	1793	Tustin	Cx. quinquefasciatus	49	GRVD	9/16/14	WNV	RTPCR
Orange	ORCO217	1876	Santa Ana	Cx. stigmatosoma	4	GRVD	9/18/14	WNV	RTPCR
Orange	ORCO217	1899	Santa Ana	Cx. quinquefasciatus	50	GRVD	9/19/14	WNV	RTPCR
Orange	ORCO218	1797	Anaheim	Cx. quinquefasciatus	34	GRVD	9/16/14	WNV	RTPCR
Orange	ORCO218	1913	Anaheim	Cx. quinquefasciatus	50	GRVD	9/20/14	WNV	RTPCR
Orange	ORCO218	1915	Anaheim	Cx. quinquefasciatus	50	GRVD	9/20/14	WNV	RTPCR
Orange	ORCO222	1822	San Clemente	Cx. quinquefasciatus	33	GRVD	9/16/14	WNV	RTPCR
Orange	ORCO224	1846	Anaheim	Cx. quinquefasciatus	37	GRVD	9/18/14	WNV	RTPCR
Orange	ORCO229	1907	Fountain Valley	Cx. quinquefasciatus	18	GRVD	9/20/14	WNV	RTPCR
Orange	ORCO34	1807	Brea	Cx. quinquefasciatus	35	GRVD	9/16/14	WNV	RTPCR
Orange	ORCO36	1817	Cypress	Cx. quinquefasciatus	38	GRVD	9/16/14	WNV	RTPCR
Orange	ORCO4	1863	Huntington Beach	Cx. quinquefasciatus	15	GRVD	9/18/14	WNV	RTPCR
Orange	ORCO60	1872	Laguna Woods	Cx. quinquefasciatus	18	GRVD	9/18/14	WNV	RTPCR
Orange	ORCO80	1879	San Clemente	Cx. tarsalis	9	CO2	9/18/14	WNV	RTPCR
Orange	ORCO82	1808	Cypress	Cx. quinquefasciatus	12	GRVD	9/16/14	WNV	RTPCR

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Riverside	COAV0	1237	Indio	Unknown	50	NA	9/23/14	WNV	RTPCR
Riverside	RIVR19	669	Murietta	Cx. erythrothorax	18	CO2	9/24/14	WNV	RTPCR
Riverside	RIVR22	644	Murrieta	Cx. erythrothorax	50	CO2	9/23/14	WNV	RTPCR
Riverside	RIVR22	646	Murrieta	Cx. erythrothorax	50	CO2	9/23/14	WNV	RTPCR
Sacramento	SAYO213034	6542	Sacramento	Cx. pipiens	26	GRVD	9/23/14	WNV	RTPCR
Sacramento	SAYO224012	6510	Rancho Cordova	Cx. pipiens	32	GRVD	9/23/14	WNV	RTPCR
San Bernardino	SANB1	383	Needles	Cx. erythrothorax	32	CO2	9/10/14	WNV	RTPCR
San Bernardino	SANB13	387	Highland	Cx. tarsalis	34	CO2	9/17/14	WNV	RTPCR
San Bernardino	SANB13	388	Highland	Cx. quinquefasciatus	30	CO2	9/17/14	WNV	RTPCR
San Bernardino	WVAL2022	1153	Fwy CA 60	Cx. quinquefasciatus	16	GRVD	9/19/14	WNV	RTPCR
San Bernardino	WVAL6009	1179	Ontario	Cx. quinquefasciatus	50	GRVD	9/23/14	WNV	RTPCR
San Joaquin	SJCM8008	1601	Manteca	Cx. tarsalis	50	CO2	9/23/14	WNV	RTPCR
San Joaquin	SJCM8041	1623	Lodi	Cx. tarsalis	22	CO2	9/23/14	WNV	RTPCR
San Joaquin	SJCM8083	1569	Escalon	Cx. tarsalis	19	CO2	9/23/14	WNV	RTPCR
San Joaquin	SJCM8083	1570	Escalon	Cx. pipiens	50	CO2	9/23/14	WNV	RTPCR
San Joaquin	SJCM8109	1588	Escalon	Cx. pipiens	23	CO2	9/23/14	WNV	RTPCR
San Joaquin	SJCM8111	1656	Stockton	Cx. erythrothorax	50	CO2	9/23/14	WNV	RTPCR
San Joaquin	SJCM8111	1657	Stockton	Cx. erythrothorax	50	CO2	9/23/14	WNV	RTPCR
San Joaquin	SJCM8111	1658	Stockton	Cx. erythrothorax	52	CO2	9/23/14	WNV	RTPCR
San Joaquin	SJCM8111	1659	Stockton	Cx. pipiens	50	CO2	9/23/14	WNV	RTPCR
San Joaquin	SJCM8189	1673	Acampo	Cx. pipiens	21	CO2	9/25/14	WNV	RTPCR
Stanislaus	TRLK1306	1024	Patterson	Cx. tarsalis	50	CO2	9/23/14	WNV	RTPCR
Stanislaus	TRLK1315	1080	Patterson	Cx. pipiens	50	CO2	9/23/14	WNV	RTPCR
Stanislaus	TRLK1329	1077	Modesto	Cx. tarsalis	50	CO2	9/23/14	WNV	RTPCR
Stanislaus	TRLK508	980	Turlock	Cx. pipiens	47	CO2	9/18/14	WNV	RTPCR
Stanislaus	TRLK606	1003	Turlock	Cx. pipiens	50	CO2	9/18/14	WNV	RTPCR
Stanislaus	TRLK711	986	Hughson	Cx. pipiens	50	CO2	9/18/14	WNV	RTPCR
Stanislaus	TRLK713	990	Keyes	Cx. pipiens	41	CO2	9/18/14	WNV	RTPCR
Yolo	SAYO103007	6597	Dunnigan	Cx. tarsalis	50	CO2	9/23/14	WNV	RTPCR
Yolo	SAYO135006	6587	Woodland	Cx. tarsalis	37	CO2	9/23/14	WNV	RTPCR

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05	Band 06
Lake	LAKE1000	Upper Lake	9/22/2014	WNV	1501					
Los Angeles	ANTV2667	Palmdale	9/17/2014	WNV	1063					
Los Angeles	ANTV2877	Lancaster	9/17/2014	WNV	1050					
Los Angeles	ANTV7263	Lancaster	9/17/2014	WNV	1081					
Los Angeles	GRLA2132	Wilmington	9/17/2014	WNV	1411	1415	1416	1420		
Los Angeles	GRLA2223	Rowland Heights	9/18/2014	WNV	1426	1430				
Los Angeles	GRLA2465	Los Feliz	9/15/2014	WNV	1446	1449	1450			
Los Angeles	GRLA2651	Encino	9/15/2014	WNV	1460					
Los Angeles	LACW1009	Los Angeles	9/3/2014	WNV	1645					
Merced	MERC0002	Dos Palos	9/5/2014	WNV	1794					
Riverside	COAV0122	Mecca	9/15/2014	WNV	1201	1226				
Riverside	COAV0200	Mecca	9/15/2014	WNV	1186	1187	1188	1189	1190	1192
Riverside	COAV0035	Mecca	9/15/2014	WNV	1230					
Riverside	COAV0060	North Shore	9/15/2014	WNV	1207	1212	1235	1236		
Riverside	RIVR0008	Murrieta	9/17/2014	WNV	1880	1882	1884			
Santa Clara	STCL0702	San Jose	9/22/2014	WNV	2458					

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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