

California Arbovirus Surveillance Bulletin #29

Week 36 Friday, September 5, 2014

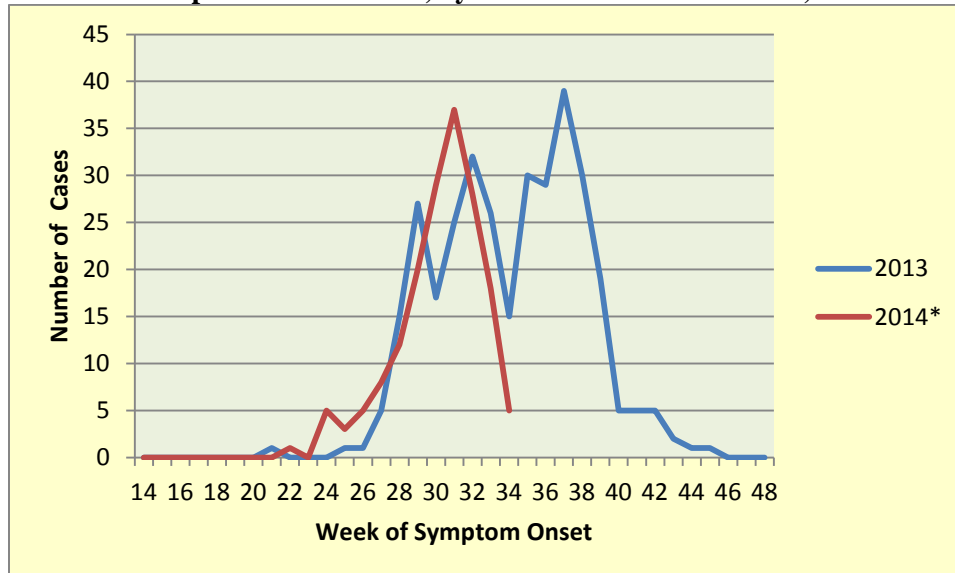


WEEKLY UPDATE

Humans

A total of 52 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), Fresno (5), Glenn (4), Imperial (1), Los Angeles (9), Orange (26), Placer (1), Sacramento (1), San Joaquin (1), Santa Clara (1), Tehama (1), and Tulare (1). **These are the first human cases reported from Imperial, Placer, and Tehama counties this year.** As of September 2, a total of 181 human cases of WNV disease have been reported from 22 counties. As of this date in 2013, 101 cases had been reported from 23 counties. Of the 181 case-patients, 122 (67%) had neuroinvasive illness. The median age of the 181 individuals is 58 years (range: 6-90 years); 148 (71%) are male. Dates of symptom onset for individuals where data were available range from May 27 to August 20. Eight WNV-related fatalities have been reported to CDPH from six counties: Glenn (1), Orange (2), Sacramento (1), Shasta (1), and Stanislaus (2), and Sutter (1). In addition, 26 asymptomatic WNV-positive blood donors have been reported this year from 12 counties: Butte (1), Contra Costa (1), Kern (2), Los Angeles (3), Orange (8), San Diego (1), San Joaquin (2), Santa Clara (2), Stanislaus (3), Sutter (1), Tulare (1), and Yuba (1).

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



*Reported to CDPH as of 9/2/14. Data incomplete due to reporting delays.

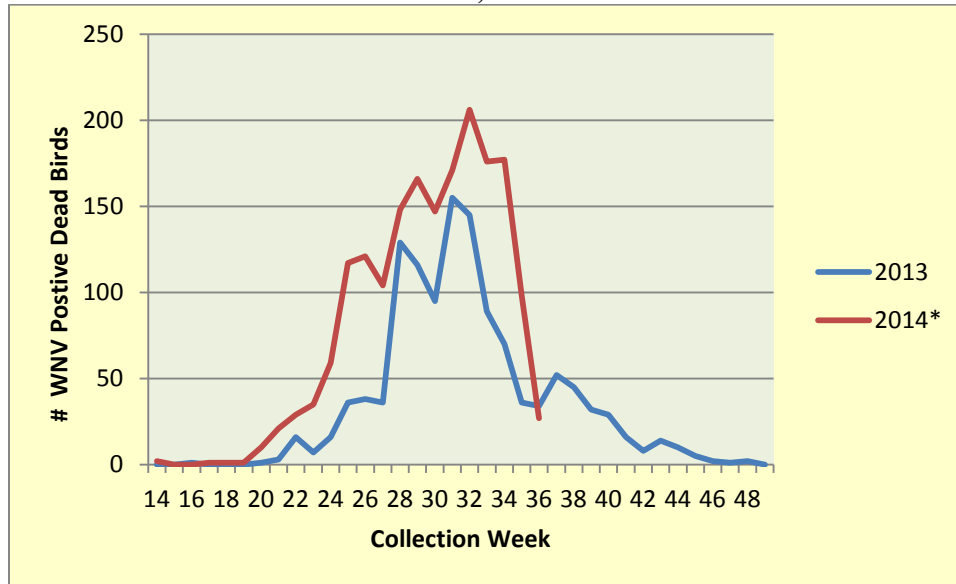
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Dead Birds

A total of 94 WNV positive dead birds were reported this week from the following 11 counties: Alameda (9), Butte (1), Contra Costa (4), Los Angeles (12), Sacramento (18), San Bernardino (2), San Joaquin (2), Santa Clara (32), Shasta (2), Stanislaus (4), and Yolo (8). In 2014, 1,827 dead birds have tested positive for WNV from 34 counties. At this time last year, 982 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 9/5/14. Data incomplete due to reporting delays.

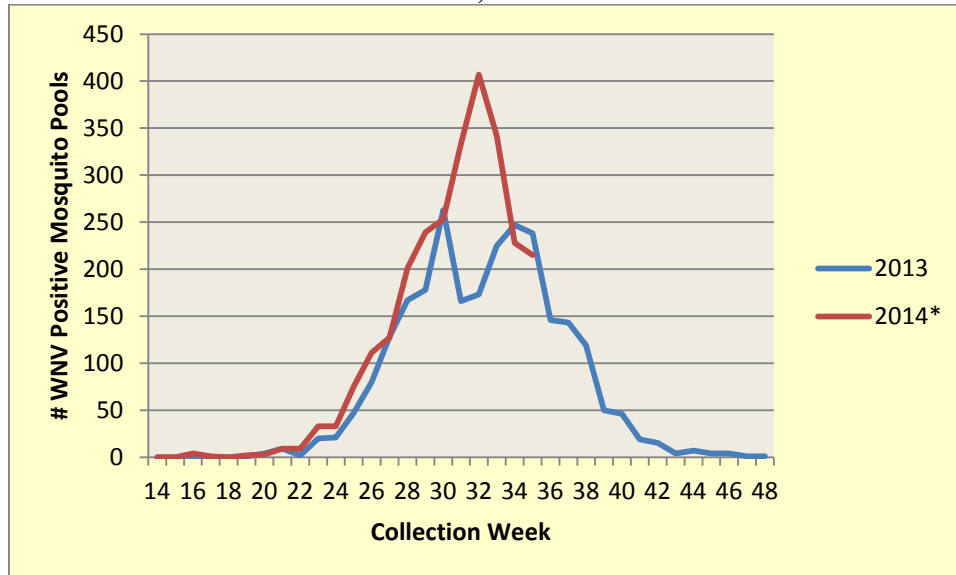
Mosquito Pools

A total of 175 WNV positive mosquito pools were reported this week from the following 19 counties: Alameda (3), Butte (6), Fresno (4), Kern (6), Lake (4), Los Angeles (32), Madera (2), Merced (1), Orange (77), Riverside (1), Sacramento (18), San Bernardino (3), San Joaquin (10), Shasta (1), Solano (1), Sonoma (1), Stanislaus (2), Yolo (2), and Yuba (1). In 2014, 2,660 mosquito pools from 29 counties have tested positive for WNV. At this time last year, 2,085 WNV positive mosquito pools had been reported from 26 counties.

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

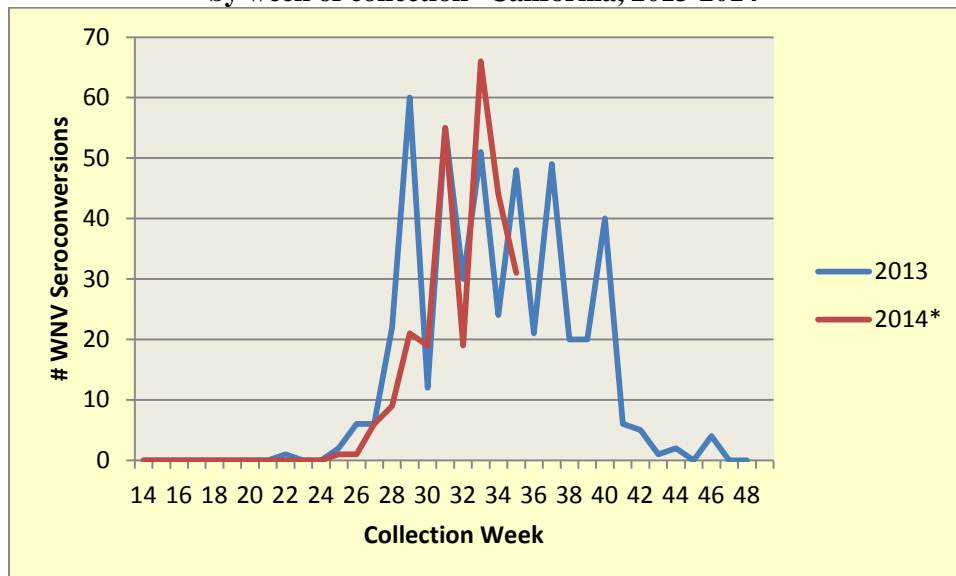


*Reported to CDPH as of 9/5/14. Data incomplete due to reporting delays.

Sentinel Chickens

A total of 32 new WNV seroconversions were reported this week from 19 flocks located in the following 10 counties: Butte (1), Colusa (1), Contra Costa (1), Glenn (1), Los Angeles (17), Riverside (1), Shasta (4), Sutter (2), Tehama (3), and Yuba (1). In 2014, 274 WNV positive chickens have been reported from 73 flocks located in 20 counties. At this time last year, 316 WNV seroconversions had been reported from 80 flocks in 23 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		73	15	
Butte	12	19	37	34
Colusa	2	4	1	6
Contra Costa	1	34	19	13
El Dorado		1		
Fresno	23	8	114	
Glenn	6	4	8	8
Humboldt		2		
Imperial	1			
Kern	3	3	90	
Kings		2	138	
Lake		15	67	2
Los Angeles	24	47	192	82
Madera	2	4	33	
Marin		3	3	
Merced		1	10	6
Napa		9		
Orange	61	228	316	
Placer	1	27	73	
Riverside			56	7
Sacramento	4	256	442	8
San Bernardino	2	11	79	16
San Diego		7		
San Joaquin	2	42	182	
San Mateo		9	12	
Santa Clara	4	801	29	2
Santa Cruz		1		
Shasta	1	5	32	7
Solano	1	32	11	19
Sonoma		15	5	1
Stanislaus	21	35	113	12
Sutter	1	19	51	26
Tehama	1			8
Tulare	6	38	308	4
Ventura		2		
Yolo		54	200	6
Yuba	2	16	24	7
Totals	181	1,827	2,660	274

**Total does not include asymptomatic infections*

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2013 & 2014 YTD West Nile Virus Comparisons		
	2013	2014
Total # Dead Bird Reports	11,813	11,239
# Positive Counties	40	37
# Human Cases	101	181
# Positive Dead Birds / # Tested	982 / 2,762	1,827 / 3,036
# Positive Mosquito Pools / # Tested	2,085 / 23,184	2,660 / 21,832
# Seroconversions / # Tested	316 / 12,305	274 / 10,979

TESTING SUMMARIES

Humans

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	52	0	0	0	0	0
	YTD	181	0	0	0	0	0

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	117	94
	YTD	3,036	1,827

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	379	32	0	0
	YTD	10,979	274	0	0
Mosquito Pools	Week	980	175	0	0
	YTD	21,832	2,660	0	0

NEW POSITIVES

Dead Birds

County	Agency	City	Zip	Species	Reported	Virus	Method
Alameda	Alameda Co MAD	Fremont	94538	American Crow	9/3/2014	WNV	RAMP
Alameda	Alameda Co MAD	Livermore	94550	American Crow	8/27/2014	WNV	RAMP
Alameda	Alameda Co MAD	Livermore	94550	American Crow	8/28/2014	WNV	RAMP
Alameda	Alameda Co MAD	Livermore	94550	American Crow	8/29/2014	WNV	RAMP
Alameda	Alameda Co MAD	Livermore	94550	American Crow	9/3/2014	WNV	RAMP
Alameda	Alameda Co MAD	Livermore	94550	American Crow	9/3/2014	WNV	RAMP
Alameda	Alameda Co MAD	Livermore	94550	Western Scrub-Jay	9/3/2014	WNV	RAMP
Alameda	Alameda Co MAD	Livermore	94551	American Crow	9/3/2014	WNV	RAMP
Alameda	Alameda Co MAD	Pleasanton	94566	Common Raven	9/1/2014	WNV	RAMP
Butte	Butte Co MVCD	Oroville	95966	American Crow	8/5/2014	WNV	RT-PCR
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	9/2/2014	WNV	RAMP

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Contra Costa	Contra Costa MVCD	Brentwood	94513	Western Scrub-Jay	9/4/2014	WNV	RAMP
Contra Costa	Contra Costa MVCD	Oakley	94561	American Crow	9/2/2014	WNV	RAMP
Contra Costa	Contra Costa MVCD	Walnut Creek	94598	Western Scrub-Jay	9/2/2014	WNV	RAMP
Los Angeles	Greater L.A. Co VCD - SFS	Artesia	90701	American Crow	8/27/2014	WNV	RT-PCR
Los Angeles	Greater L.A. Co VCD - SFS	Cerritos	90703	American Crow	8/15/2014	WNV	RT-PCR
Los Angeles	Greater L.A. Co VCD - SFS	Cerritos	90703	American Crow	8/21/2014	WNV	RT-PCR
Los Angeles	Greater L.A. Co VCD - SFS	Cerritos	90703	American Crow	8/26/2014	WNV	RT-PCR
Los Angeles	Greater L.A. Co VCD - SFS	Lakewood	90712	American Crow	8/26/2014	WNV	RT-PCR
Los Angeles	Greater L.A. Co VCD - SFS	Montebello	90640	American Crow	8/28/2014	WNV	RT-PCR
Los Angeles	L.A. Co West VCD	Los Angeles	90064	American Crow	8/26/2014	WNV	RT-PCR
Los Angeles	L.A. Co West VCD	Los Angeles	90066	American Crow	8/25/2014	WNV	RT-PCR
Los Angeles	L.A. Co West VCD	Los Angeles	90066	American Crow	8/28/2014	WNV	RT-PCR
Los Angeles	L.A. Co West VCD	Manhattan Beach	90266	American Crow	8/20/2014	WNV	RT-PCR
Los Angeles	L.A. Co West VCD	Venice	90291	American Crow	8/27/2014	WNV	RT-PCR
Los Angeles	L.A. Co West VCD	West Hollywood	90038	American Crow	8/28/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	8/26/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95621	Western Scrub-Jay	9/1/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	American Crow	8/31/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	8/25/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	8/27/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Galt	95632	American Crow	8/25/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95670	American Crow	9/1/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	American Crow	8/26/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95817	Unknown	8/28/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95818	American Crow	8/22/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95818	American Crow	8/23/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	American Crow	8/26/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	8/26/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95823	American Crow	8/27/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95823	Steller's Jay	8/26/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95838	Western Scrub-Jay	8/26/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	8/27/2014	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	American Crow	8/31/2014	WNV	RT-PCR
San Bernardino	San Bernardino VCP	Fontana	92337	American Crow	8/25/2014	WNV	RT-PCR
San Bernardino	San Bernardino VCP	Grand Terrace	92313	American Crow	8/26/2014	WNV	RT-PCR
San Joaquin	San Joaquin Co MVCD	Ripon	95366	Yellow-billed Magpie	8/30/2014	WNV	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95212	American Crow	9/3/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Campbell	95008	American Crow	8/28/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Campbell	95008	American Crow	8/28/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Cupertino	95014	American Crow	8/28/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Cupertino	95014	American Crow	8/28/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Cupertino	95014	Western Scrub-Jay	8/27/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Los Altos	94024	American Crow	8/29/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Monte Sereno	95030	Western Scrub-Jay	8/29/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Mountain View	94043	American Crow	8/28/2014	WNV	RT-PCR

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Santa Clara	Santa Clara Co VCD	San Jose	95110	American Crow	9/2/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95112	American Crow	8/28/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95117	American Crow	9/2/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95119	American Crow	8/28/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95119	American Crow	9/2/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95123	American Crow	8/28/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95123	American Crow	8/28/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	8/28/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	8/28/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	8/28/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	8/29/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95125	Western Scrub-Jay	8/29/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95129	American Crow	8/28/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95133	Western Scrub-Jay	9/2/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95135	Western Scrub-Jay	8/29/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Santa Clara	95050	American Crow	9/3/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Santa Clara	95051	American Crow	9/3/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Santa Clara	95051	Western Scrub-Jay	9/2/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	8/27/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	8/31/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	9/2/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94085	Western Scrub-Jay	9/2/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94086	American Crow	8/29/2014	WNV	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	9/3/2014	WNV	RT-PCR
Shasta	Shasta MVCD	Anderson	96007	Yellow-billed Magpie	8/28/2014	WNV	RT-PCR
Shasta	Shasta MVCD	Redding	96001	American Crow	8/28/2014	WNV	RT-PCR
Stanislaus	Turlock MAD	Hughson	95326	Yellow-billed Magpie	8/21/2014	WNV	RAMP
Stanislaus	Turlock MAD	Newman	95360	Northern Mockingbird	8/20/2014	WNV	RT-PCR
Stanislaus	Turlock MAD	Newman	95360	Song Sparrow	8/21/2014	WNV	RT-PCR
Stanislaus	Turlock MAD	Turlock	95382	Yellow-billed Magpie	8/19/2014	WNV	RT-PCR
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/22/2014	WNV	RT-PCR
Yolo	Sacramento-Yolo MVCD	Davis	95616	Western Scrub-Jay	8/23/2014	WNV	RT-PCR
Yolo	Sacramento-Yolo MVCD	Davis	95616	Western Scrub-Jay	8/23/2014	WNV	RT-PCR
Yolo	Sacramento-Yolo MVCD	Davis	95616	Western Scrub-Jay	8/27/2014	WNV	RT-PCR
Yolo	Sacramento-Yolo MVCD	Davis	95616	Yellow-billed Magpie	8/28/2014	WNV	RT-PCR
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	8/25/2014	WNV	RT-PCR
Yolo	Sacramento-Yolo MVCD	Davis	95618	Unknown	9/2/2014	WNV	RT-PCR
Yolo	Sacramento-Yolo MVCD	Woodland	95695	Western Scrub-Jay	8/29/2014	WNV	RT-PCR

Mosquitoes

County	Site Code	Pool #	City	Species	# in Pool	Trap	Collected	Virus	Method
Alameda	ALCO217	168	Livermore	Cx. pipiens	13	CO2	8/26/14	WNV	RTPCR
Alameda	ALCO217	169	Livermore	Cx. tarsalis	19	CO2	8/26/14	WNV	RTPCR
Alameda	ALCO61	174	Livermore	Cx. pipiens	45	CO2	8/27/14	WNV	RTPCR

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Butte	BUCO13	163	Chico	Cx. tarsalis	50	CO2	8/25/14	WNV	RTPCR
Butte	BUCO37	157	Honcut	Cx. tarsalis	50	CO2	8/21/14	WNV	RTPCR
Butte	BUCO37	158	Honcut	Cx. tarsalis	50	CO2	8/21/14	WNV	RTPCR
Butte	BUCO78	153	Oroville	Cx. tarsalis	50	CO2	8/21/14	WNV	RTPCR
Butte	BUCO78	154	Oroville	Cx. tarsalis	50	CO2	8/21/14	WNV	RTPCR
Butte	BUCO78	155	Oroville	Cx. tarsalis	50	CO2	8/21/14	WNV	RTPCR
Fresno	CNSL1133	108	Clovis	Cx. quinquefasciatus	40	GRVD	8/26/14	WNV	RTPCR
Fresno	CNSL4024	464	Selma	Cx. quinquefasciatus	13	GRVD	9/3/14	WNV	RTPCR
Fresno	FRNO62	38	Fresno	Cx. tarsalis	50	CO2	8/12/14	WNV	RTPCR
Fresno	FRWS4108	127	Mendota	Cx. tarsalis	50	CO2	8/21/14	WNV	RTPCR
Kern	KERN118	447	Buttonwillow	Cx. quinquefasciatus	50	CO2	8/27/14	WNV	RTPCR
Kern	KERN2049	441	Lamont	Cx. quinquefasciatus	33	GRVD	8/26/14	WNV	RTPCR
Kern	KERN3027	460	Arvin	Cx. quinquefasciatus	50	CO2	8/29/14	WNV	RTPCR
Kern	KERN3029	449	Buttonwillow	Cx. quinquefasciatus	50	CO2	8/27/14	WNV	RTPCR
Kern	KERN3037	453	Bakersfield	Cx. quinquefasciatus	20	CO2	8/28/14	WNV	RTPCR
Kern	KERN45	446	Buttonwillow	Cx. quinquefasciatus	29	CO2	8/26/14	WNV	RTPCR
Lake	LAKE199	644	Spring Valley	Cx. tarsalis	36	CO2	8/28/14	WNV	RTPCR
Lake	LAKE328	652	Upper Lake	Cx. tarsalis	50	CO2	9/3/14	WNV	RTPCR
Lake	LAKE84	654	Upper Lake	Cx. tarsalis	32	CO2	9/3/14	WNV	RTPCR
Lake	LAKE94	649	Upper Lake	Cx. tarsalis	50	CO2	9/3/14	WNV	RTPCR
Los Angeles	GRLA2023	5674	Reseda	Cx. quinquefasciatus	15	GRVD	8/29/14	WNV	RTPCR
Los Angeles	GRLA2029	5644	Canoga Park	Cx. quinquefasciatus	50	GRVD	8/27/14	WNV	RTPCR
Los Angeles	GRLA2030	5645	West Hills	Cx. quinquefasciatus	50	GRVD	8/27/14	WNV	RTPCR
Los Angeles	GRLA2270	584	Bellflower	Cx. quinquefasciatus	43	GRVD	8/28/14	WNV	RTPCR
Los Angeles	GRLA2414	5668	Granada Hills	Cx. quinquefasciatus	23	GRVD	8/28/14	WNV	RTPCR
Los Angeles	GRLA2434	5649	Chatsworth	Cx. quinquefasciatus	12	GRVD	8/27/14	WNV	RTPCR
Los Angeles	GRLA2438	5650	Chatsworth	Cx. quinquefasciatus	50	GRVD	8/27/14	WNV	RTPCR
Los Angeles	GRLA2500	5629	Los Angeles	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Los Angeles	GRLA2554	5642	Winnetka	Cx. quinquefasciatus	50	GRVD	8/27/14	WNV	RTPCR
Los Angeles	GRLA2555	5671	Encino	Cx. quinquefasciatus	28	GRVD	8/29/14	WNV	RTPCR
Los Angeles	GRLA2567	5640	Woodland Hills	Cx. quinquefasciatus	30	GRVD	8/27/14	WNV	RTPCR
Los Angeles	GRLA2574	5659	Sherman Oaks	Cx. quinquefasciatus	50	GRVD	8/28/14	WNV	RTPCR
Los Angeles	GRLA2580	5658	Sherman Oaks	Cx. quinquefasciatus	44	GRVD	8/28/14	WNV	RTPCR
Los Angeles	GRLA2592	5653	San Marino	Cx. quinquefasciatus	50	GRVD	8/28/14	WNV	RTPCR
Los Angeles	GRLA2593	5652	San Marino	Cx. quinquefasciatus	43	GRVD	8/28/14	WNV	RTPCR
Los Angeles	GRLA2635	5670	Van Nuys	Cx. quinquefasciatus	50	GRVD	8/29/14	WNV	RTPCR
Los Angeles	GRLA2636	5669	Van Nuys	Cx. quinquefasciatus	50	GRVD	8/29/14	WNV	RTPCR
Los Angeles	GRLA2637	5663	Van Nuys	Cx. quinquefasciatus	50	GRVD	8/28/14	WNV	RTPCR
Los Angeles	GRLA2650	5662	Encino	Cx. quinquefasciatus	50	GRVD	8/28/14	WNV	RTPCR
Los Angeles	GRLA2655	5661	Encino	Cx. quinquefasciatus	50	GRVD	8/28/14	WNV	RTPCR
Los Angeles	GRLA3034	5667	North Hills	Cx. quinquefasciatus	50	GRVD	8/28/14	WNV	RTPCR
Los Angeles	GRLA3036	5646	Canoga Park	Cx. quinquefasciatus	50	GRVD	8/27/14	WNV	RTPCR
Los Angeles	GRLA3044	563	South El Monte	Cx. quinquefasciatus	16	GRVD	8/26/14	WNV	RTPCR
Los Angeles	GRLA3046	585	Bellflower	Cx. quinquefasciatus	50	GRVD	8/28/14	WNV	RTPCR
Los Angeles	GRLA3054	577	Bell Gardens	Cx. quinquefasciatus	41	GRVD	8/28/14	WNV	RTPCR
Los Angeles	GRLA3063	573	Watts	Cx. quinquefasciatus	38	GRVD	8/26/14	WNV	RTPCR
Los Angeles	GRLA3064	574	Los Angeles	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Los Angeles	GRLA3065	575	Los Angeles	Cx. quinquefasciatus	29	GRVD	8/26/14	WNV	RTPCR
Los Angeles	GRLA3077	5634	Silver Lake	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Los Angeles	LACW1002	146	Torrance	Cx. quinquefasciatus	37	CO2	8/26/14	WNV	RTPCR
Los Angeles	LACW1003	151	Redondo Beach	Cx. quinquefasciatus	50	GRVD	8/28/14	WNV	RTPCR
Los Angeles	LACW1004	149	Lawndale	Cx. quinquefasciatus	31	GRVD	8/27/14	WNV	RTPCR
Madera	MADR195	136	Madera	Cx. tarsalis	50	CO2	8/28/14	WNV	RTPCR
Madera	MADR95	141	CHOWCHILLA	Cx. quinquefasciatus	50	CO2	8/29/14	WNV	RTPCR

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Merced	MERC201425	122	Merced	Cx. pipiens	50	CO2	8/28/14	WNV	RTPCR
Orange	ORCO1	1519	Irvine	Cx. quinquefasciatus	18	GRVD	8/28/14	WNV	RTPCR
Orange	ORCO1008	1391	Fullerton	Cx. quinquefasciatus	7	CO2	8/21/14	WNV	RTPCR
Orange	ORCO1008	1435	Fullerton	Cx. quinquefasciatus	17	GRVD	8/23/14	WNV	RTPCR
Orange	ORCO1011	1496	La Habra	Cx. quinquefasciatus	10	CO2	8/27/14	WNV	RTPCR
Orange	ORCO1015	1438	Orange	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO1015	1439	Orange	Cx. quinquefasciatus	15	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO1015	1520	Orange	Cx. quinquefasciatus	28	GRVD	8/28/14	WNV	RTPCR
Orange	ORCO1015	1525	Orange	Cx. quinquefasciatus	37	GRVD	8/28/14	WNV	RTPCR
Orange	ORCO1020	1494	Seal Beach	Cx. quinquefasciatus	42	GRVD	8/27/14	WNV	RTPCR
Orange	ORCO1025	1488	Costa Mesa	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO1025	1489	Costa Mesa	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO130	1436	Garden Grove	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO130	1437	Garden Grove	Cx. quinquefasciatus	36	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO147	1380	Garden Grove	Cx. quinquefasciatus	50	GRVD	8/20/14	WNV	RTPCR
Orange	ORCO147	1381	Garden Grove	Cx. quinquefasciatus	47	GRVD	8/20/14	WNV	RTPCR
Orange	ORCO168	1446	Santa Ana	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO168	1447	Santa Ana	Cx. quinquefasciatus	19	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO17	1445	Orange	Cx. quinquefasciatus	50	CO2	8/26/14	WNV	RTPCR
Orange	ORCO177	1432	Santa Ana	Cx. quinquefasciatus	15	GRVD	8/21/14	WNV	RTPCR
Orange	ORCO198	1450	La Habra	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO198	1451	La Habra	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO2	1453	Fullerton	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO2	1454	Fullerton	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO2	1455	Fullerton	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO2	1456	Fullerton	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO2	1457	Fullerton	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO202	1461	Fullerton	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO202	1462	Fullerton	Cx. quinquefasciatus	17	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO205	1441	Tustin	Cx. quinquefasciatus	51	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO205	1442	Tustin	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO205	1443	Tustin	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO205	1444	Tustin	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO209	1532	Santa Ana	Cx. quinquefasciatus	12	CO2	8/28/14	WNV	RTPCR
Orange	ORCO214	1412	Fullerton	Cx. quinquefasciatus	4	CO2	8/21/14	WNV	RTPCR
Orange	ORCO214	1530	Fullerton	Cx. quinquefasciatus	6	CO2	8/28/14	WNV	RTPCR
Orange	ORCO216	1410	Orange	Cx. quinquefasciatus	6	CO2	8/21/14	WNV	RTPCR
Orange	ORCO217	1390	Santa Ana	Cx. quinquefasciatus	40	GRVD	8/21/14	WNV	RTPCR
Orange	ORCO217	1407	Santa Ana	Cx. quinquefasciatus	50	GRVD	8/21/14	WNV	RTPCR
Orange	ORCO217	1408	Santa Ana	Cx. quinquefasciatus	36	GRVD	8/21/14	WNV	RTPCR
Orange	ORCO217	1429	Santa Ana	Cx. quinquefasciatus	50	GRVD	8/21/14	WNV	RTPCR
Orange	ORCO217	1430	Santa Ana	Cx. quinquefasciatus	50	GRVD	8/21/14	WNV	RTPCR
Orange	ORCO217	1431	Santa Ana	Cx. quinquefasciatus	48	GRVD	8/21/14	WNV	RTPCR
Orange	ORCO217	1469	Santa Ana	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO217	1470	Santa Ana	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO217	1505	Santa Ana	Cx. quinquefasciatus	50	GRVD	8/27/14	WNV	RTPCR
Orange	ORCO217	1507	Santa Ana	Cx. quinquefasciatus	30	GRVD	8/27/14	WNV	RTPCR
Orange	ORCO217	1510	Santa Ana	Cx. quinquefasciatus	34	GRVD	8/27/14	WNV	RTPCR
Orange	ORCO217	1513	Santa Ana	Cx. quinquefasciatus	30	GRVD	8/28/14	WNV	RTPCR
Orange	ORCO217	1514	Santa Ana	Cx. quinquefasciatus	29	GRVD	8/28/14	WNV	RTPCR
Orange	ORCO218	1383	Anaheim	Cx. quinquefasciatus	50	GRVD	8/20/14	WNV	RTPCR
Orange	ORCO218	1384	Anaheim	Cx. quinquefasciatus	21	GRVD	8/20/14	WNV	RTPCR
Orange	ORCO218	1463	Anaheim	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO218	1464	Anaheim	Cx. quinquefasciatus	46	GRVD	8/26/14	WNV	RTPCR

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Orange	ORCO229	1476	Fountain Valley	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO229	1477	Fountain Valley	Cx. quinquefasciatus	16	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO29	1392	Santa Ana	Cx. quinquefasciatus	31	CO2	8/21/14	WNV	RTPCR
Orange	ORCO29	1511	Santa Ana	Cx. quinquefasciatus	50	CO2	8/28/14	WNV	RTPCR
Orange	ORCO29	1512	Santa Ana	Cx. quinquefasciatus	44	CO2	8/28/14	WNV	RTPCR
Orange	ORCO3	1448	Garden Grove	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO3	1449	Garden Grove	Cx. quinquefasciatus	10	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO33	1378	Westminster	Cx. quinquefasciatus	30	GRVD	8/20/14	WNV	RTPCR
Orange	ORCO34	1479	Brea	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO34	1480	Brea	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO34	1481	Brea	Cx. quinquefasciatus	5	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO36	1467	Cypress	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO36	1468	Cypress	Cx. quinquefasciatus	42	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO4	1503	Huntington Beach	Cx. quinquefasciatus	50	GRVD	8/27/14	WNV	RTPCR
Orange	ORCO41	1474	Anaheim	Cx. quinquefasciatus	49	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO5	1500	Huntington Beach	Cx. quinquefasciatus	13	GRVD	8/27/14	WNV	RTPCR
Orange	ORCO50	1434	Buena Park	Cx. quinquefasciatus	24	GRVD	8/21/14	WNV	RTPCR
Orange	ORCO50	1465	Buena Park	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO52	1485	Anaheim	Cx. quinquefasciatus	50	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO52	1486	Anaheim	Cx. quinquefasciatus	47	GRVD	8/26/14	WNV	RTPCR
Orange	ORCO6	1517	Irvine	Cx. quinquefasciatus	13	GRVD	8/28/14	WNV	RTPCR
Orange	ORCO7	1491	Seal Beach	Cx. quinquefasciatus	50	GRVD	8/27/14	WNV	RTPCR
Orange	ORCO81	1495	Seal Beach	Cx. quinquefasciatus	36	GRVD	8/27/14	WNV	RTPCR
Orange	ORCO84	1478	Orange	Cx. quinquefasciatus	30	GRVD	8/26/14	WNV	RTPCR
Riverside	NWST26	201	Corona Center	Cx. quinquefasciatus	22	CO2	8/29/14	WNV	RTPCR
Sacramento	SAYO203022	5567	Sacramento	Cx. pipiens	2	CO2	8/29/14	WNV	RTPCR
Sacramento	SAYO214003	5533	Rancho Cordova	Cx. pipiens	25	CO2	8/29/14	WNV	RTPCR
Sacramento	SAYO222001	5550	Sacramento	Cx. pipiens	41	GRVD	8/29/14	WNV	RTPCR
Sacramento	SAYO223009	5540	Sacramento	Cx. pipiens	7	CO2	8/29/14	WNV	RTPCR
Sacramento	SAYO235001	5576	Wilton	Cx. tarsalis	29	CO2	9/3/14	WNV	RTPCR
Sacramento	SAYO235001	5577	Wilton	Cx. pipiens	18	CO2	9/3/14	WNV	RTPCR
Sacramento	SAYO235012	5587	Wilton	Cx. tarsalis	50	CO2	9/3/14	WNV	RTPCR
Sacramento	SAYO244002	5599	Galt	Cx. tarsalis	50	CO2	9/3/14	WNV	RTPCR
Sacramento	SAYO244002	5600	Galt	Cx. tarsalis	32	CO2	9/3/14	WNV	RTPCR
Sacramento	SAYO244002	5601	Galt	Cx. pipiens	50	CO2	9/3/14	WNV	RTPCR
Sacramento	SAYO254007	5654	Galt	Cx. pipiens	50	CO2	9/3/14	WNV	RTPCR
Sacramento	SAYO254011	5626	Galt	Cx. pipiens	17	CO2	9/3/14	WNV	RTPCR
Sacramento	SAYO254011	5627	Galt	Cx. pipiens	2	GRVD	9/3/14	WNV	RTPCR
Sacramento	SAYO254016	5628	Galt	Cx. tarsalis	50	CO2	9/3/14	WNV	RTPCR
Sacramento	SAYO254016	5634	Galt	Cx. pipiens	50	CO2	9/3/14	WNV	RTPCR
Sacramento	SAYO254021	5661	Galt	Cx. tarsalis	48	CO2	9/3/14	WNV	RTPCR
Sacramento	SAYO254021	5663	Galt	Cx. pipiens	50	CO2	9/3/14	WNV	RTPCR
Sacramento	SAYO261003	5713	Isleton	Cx. tarsalis	27	CO2	9/3/14	WNV	RTPCR
San Bernardino	SANB47	305	San Bernardino	Cx. quinquefasciatus	42	CO2	8/26/14	WNV	RTPCR
San Bernardino	WVAL2021	1084	Fwy CA 71	Cx. quinquefasciatus	6	GRVD	9/3/14	WNV	RTPCR
San Bernardino	WVAL6004	1086	Ontario	Cx. quinquefasciatus	13	GRVD	9/3/14	WNV	RTPCR
San Joaquin	SJCM8008	1357	Manteca	Cx. pipiens	50	CO2	9/3/14	WNV	RTPCR
San Joaquin	SJCM8021	1348	Lodi	Cx. tarsalis	25	CO2	9/3/14	WNV	RTPCR
San Joaquin	SJCM8041	1350	Lodi	Cx. tarsalis	36	CO2	9/3/14	WNV	RTPCR
San Joaquin	SJCM8056	1361	Manteca	Cx. pipiens	45	CO2	9/3/14	WNV	RTPCR
San Joaquin	SJCM8056	1362	Manteca	Cx. tarsalis	41	CO2	9/3/14	WNV	RTPCR
San Joaquin	SJCM8079	1382	Manteca	Cx. tarsalis	25	CO2	9/3/14	WNV	RTPCR
San Joaquin	SJCM8079	1385	Manteca	Cx. pipiens	50	CO2	9/3/14	WNV	RTPCR
San Joaquin	SJCM8083	1379	Escalon	Cx. tarsalis	17	CO2	9/3/14	WNV	RTPCR

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San Joaquin	SJCM8160	1352	Lodi	Cx. pipiens	5	CO2	9/3/14	WNV	RTPCR
San Joaquin	SJCM8161	1376	Ripon	Cx. pipiens	50	CO2	9/3/14	WNV	RTPCR
Shasta	SHAS148	454	Cottonwood	Cx. tarsalis	46	CO2	9/3/14	WNV	RTPCR
Solano	SOLA3	95	Davis	Cx. tarsalis	8	CO2	8/21/14	WNV	RTPCR
Sonoma	MARN313	583	Santa Rosa	Cx. stigmatosoma	7	GRVD	8/28/14	WNV	RTPCR
Stanislaus	EAST1004	14246	Modesto	Cx. pipiens	50	CO2	8/27/14	WNV	RAMP
Stanislaus	EAST1100	14241	Riverbank	Cx. pipiens	28	CO2	8/27/14	WNV	RAMP
Yolo	SAYO125014	5693	Woodland	Cx. pipiens	9	GRVD	9/3/14	WNV	RTPCR
Yolo	SAYO135010	5699	Woodland	Cx. pipiens	7	GRVD	9/3/14	WNV	RTPCR
Yuba	SUYA8	356	Marysville	Cx. tarsalis	30	CO2	9/2/14	WNV	RTPCR

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Butte	BUCO0002	Oroville	8/26/2014	WNV	1107			
Colusa	CLSA0001	Colusa	8/26/2014	WNV	1281			
Contra Costa	CNTR5552	Walnut Creek	8/25/2014	WNV	1342			
Glenn	GLEN9701	Willows	8/27/2014	WNV	1386			
Los Angeles	LACW1001	Rolling Hills Estates	8/27/2014	WNV	1601	1602	1604	1711
Los Angeles	LACW1002	Torrance	8/21/2014	WNV	1611	1713		
Los Angeles	LACW1004	Lawndale	8/19/2014	WNV	1620	1621		
Los Angeles	LACW1006	Playa Del Rey	8/27/2014	WNV	1633			
Los Angeles	LACW1010	Los Angeles(Miracle Mile)	8/19/2014	WNV	1653			
Los Angeles	LACW1012	Venice	8/28/2014	WNV	1656	1657		
Los Angeles	LACW1026	Beverly Hills	8/26/2014	WNV	1693	1694		
Los Angeles	LACW1049	Inglewood	8/26/2014	WNV	1697	1700	1702	
Riverside	NWST9401	Corona	8/28/2014	WNV	2291			
Shasta	SHAS5038		8/28/2014	WNV	2160	2161	2162	2165
Sutter	SUYA0014	Sutter	8/28/2014	WNV	2245			
Sutter	SUYA0031	Rio Oso	8/28/2014	WNV	2224			
Tehama	TEHA0100	Corning	8/27/2014	WNV	2527			
Tehama	TEHA0066	Cottonwood	8/27/2014	WNV	2503	2505		
Yuba	SUYA7	Marysville	8/28/2014	WNV	2211			

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.

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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.