

California Arbovirus Surveillance Bulletin #16

Week 25 Friday, June 24, 2016



Weekly Update

Humans

No human cases have been reported in 2016.

Dead Birds

This week, a total of 86 dead birds tested positive for West Nile virus (WNV) from the following 11 counties: Butte (1), Fresno (1), Los Angeles (10), Marin (1), Riverside (1), Sacramento (44), San Diego (18), San Joaquin (1), Santa Clara (5), Sutter (1), and Ventura (3). **These are the first detections of WNV in Butte and Marin counties this year. This is the first WNV positive bird reported from Riverside County this year.** In 2016, 277 dead birds have tested positive for WNV from 17 counties, whereas at this time last year, 101 WNV positive birds had been reported from 23 counties.

Mosquito Pools

West Nile virus

A total of 79 WNV positive mosquito pools were reported this week from the following 14 counties: Fresno (8), Kern (1), Kings (2), Los Angeles (3), Madera (2), Orange (5), Riverside (1), Sacramento (33), San Bernardino (1), San Joaquin (9), Stanislaus (6), Sutter (4), Tulare (2), and Yolo (2). **These are the first WNV positive mosquito pools detected in Yolo County in 2016.** To date this year, 264 WNV positive mosquito pools have been reported from 16 counties, whereas at this time last year, 180 WNV positive mosquito pools had been reported from 18 counties.

St. Louis encephalitis virus

No new positives were reported this week. To date this year, 17 SLEV positive mosquito pools have been reported from Kern County.

Sentinel Chickens

Two WNV seroconversions were reported this week from Los Angeles and San Diego counties. **This is the first WNV positive chicken detected in Los Angeles County in 2016.** To date this year, four WNV seroconversions have been reported from two counties, whereas at this time last year, three WNV seroconversions had been reported from two counties.

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2015 & 2016 YTD West Nile Virus Comparisons		
	2015	2016
Total # Dead Bird Reports	4,460	3,684
# Positive Counties	31	21
# Human Cases	0	0
# Positive Dead Birds / # Tested	101 / 1,027	277 / 950
# Positive Mosquito Pools / # Tested	180 / 10,358	264 / 14,797
# Seroconversions / # Tested	3 / 4,606	4 / 2,991

YTD WNV Activity by Element and County, 2016				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Butte		1		
Contra Costa		1		
Fresno		2	27	
Kern			12	
Kings			5	
Los Angeles		24	12	1
Madera		1	8	
Marin		1		
Orange		6	9	
Riverside		1	11	
Sacramento		109	69	
San Bernardino			11	
San Diego		100	40	3
San Joaquin		2	18	
Santa Clara		19	4	
Solano		1		
Stanislaus		2	8	
Sutter		2	12	
Tulare			16	
Ventura		4		
Yolo		1	2	
Totals	0	277	264	4

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TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Number of Cases Reported	Week	0	0	0
	YTD	0	0	0

Dead Birds

		Total Tested	WNV Positive
Dead Birds	Week	141	86
	YTD	950	277

Sentinel Chickens

		Total Tested	WNV +	SLEV +	WEEV +
Chicken Sera	Week	374	2	0	0
	YTD	2,991	4	0	0

Mosquitoes

		Positive / Total Tested						
Mosquito Pools		WNV	SLEV	WEEV	CHIK	DENV	ZIKA	
		Week	79 / 2,164	0 / 1,246	0 / 1,246	0 / 23	0 / 23	0 / 23
		YTD	264 / 14,797	17 / 8,523	0 / 8,523	0 / 32	0 / 32	0 / 32

NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Butte	Butte Co MVCD	Chico	95973	American Robin	6/20/2016	WNV
Fresno	Fresno MVCD	Fresno	93722	American Crow	6/21/2016	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Cerritos	90703	American Crow	6/14/2016	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Gardena	90249	American Crow	5/24/2016	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Canyon Country	91351	American Crow	6/17/2016	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Canyon Country	91351	American Crow	6/17/2016	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Canyon Country	91351	American Crow	6/17/2016	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	North Hills	91343	American Crow	6/15/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Beverly Hills	90212	Common Raven	6/17/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	North Hollywood	91605	American Crow	6/22/2016	WNV
Los Angeles	Los Angeles Co Veterinarian	Santa Clarita	91355	Common Raven	6/15/2016	WNV
Los Angeles	Los Angeles Co West VCD	Los Angeles	90046	Common Raven	6/21/2016	WNV
Marin	Marin-Sonoma MVCD	San Rafael	94903	American Crow	6/17/2016	WNV
Riverside	Northwest Mosquito VCD	Riverside	92508	American Crow	6/7/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	6/17/2016	WNV

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Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	6/20/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	6/20/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	6/17/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	6/17/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95621	Western Scrub-Jay	6/18/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Western Scrub-Jay	6/19/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Western Scrub-Jay	6/19/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Western Scrub-Jay	6/19/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	American Crow	6/17/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Oak Titmouse	6/17/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	6/17/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	6/20/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Foothill Farms	95842	House Finch	6/20/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Isleton	95641	Northern Mockingbird	6/16/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	American Crow	6/17/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Brewer's Blackbird	6/21/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Western Scrub-Jay	6/18/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Western Scrub-Jay	6/18/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Western Scrub-Jay	6/21/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Yellow-billed Magpie	6/19/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Bushtit	6/18/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Cooper's Hawk	6/20/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Lesser Goldfinch	6/21/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Yellow-billed Magpie	6/19/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95823	American Crow	6/21/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95823	Western Scrub-Jay	6/19/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	American Crow	6/18/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95827	American Crow	6/16/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95838	American Crow	6/20/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95838	American Crow	6/21/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	6/16/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	6/17/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	6/19/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	6/20/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	6/21/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	6/21/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	6/21/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Western Scrub-Jay	6/19/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Western Scrub-Jay	6/20/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Western Scrub-Jay	6/20/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Yellow-billed Magpie	6/19/2016	WNV
Sacramento	Sutter-Yuba MVCD	Sacramento	95837	Unknown	6/16/2016	WNV
Sacramento	Sutter-Yuba MVCD	Sacramento	95837	Unknown	6/16/2016	WNV
San Diego	San Diego Co VCP	Bonita	91902	American Crow	6/22/2016	WNV
San Diego	San Diego Co VCP	Carlsbad	92008	American Crow	6/20/2016	WNV
San Diego	San Diego Co VCP	Carlsbad	92009	American Crow	6/20/2016	WNV
San Diego	San Diego Co VCP	Carlsbad	92009	American Crow	6/20/2016	WNV

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San Diego	San Diego Co VCP	Carlsbad	92009	Unknown	6/17/2016	WNV
San Diego	San Diego Co VCP	Encinitas	92024	American Crow	6/22/2016	WNV
San Diego	San Diego Co VCP	Fallbrook	92028	American Crow	6/17/2016	WNV
San Diego	San Diego Co VCP	Oceanside	92054	American Crow	6/22/2016	WNV
San Diego	San Diego Co VCP	Poway	92064	American Crow	6/17/2016	WNV
San Diego	San Diego Co VCP	Ramona	92065	American Crow	6/23/2016	WNV
San Diego	San Diego Co VCP	San Diego	92037	American Crow	6/23/2016	WNV
San Diego	San Diego Co VCP	San Diego	92128	American Crow	6/17/2016	WNV
San Diego	San Diego Co VCP	San Diego	92128	American Crow	6/23/2016	WNV
San Diego	San Diego Co VCP	San Diego	92128	American Crow	6/23/2016	WNV
San Diego	San Diego Co VCP	San Diego	92129	American Crow	6/20/2016	WNV
San Diego	San Diego Co VCP	San Diego	92154	American Crow	6/17/2016	WNV
San Diego	San Diego Co VCP	San Marcos	92069	American Crow	6/20/2016	WNV
San Diego	San Diego Co VCP	San Marcos	92078	American Crow	6/20/2016	WNV
San Joaquin	San Joaquin Co MVCD	Ripon	95366	American Crow	6/15/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95118	American Crow	6/17/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	6/15/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95125	Western Scrub-Jay	6/17/2016	WNV
Santa Clara	Santa Clara Co VCD	san Jose	95136	American Crow	6/14/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95136	American Crow	6/16/2016	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95993	Unknown-hawk	6/21/2016	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93065	American Crow	6/14/2016	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93065	American Crow	6/14/2016	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93065	American Crow	6/14/2016	WNV

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Fresno	CNSL1062	211	Cx. quinquefasciatus	Fresno	50	GRVD	6/21/16	WNV
Fresno	CNSL1267	218	Cx. quinquefasciatus	Clovis	22	GRVD	6/21/16	WNV
Fresno	CNSL1696	210	Cx. quinquefasciatus	Fresno	39	GRVD	6/21/16	WNV
Fresno	CNSL1930	209	Cx. quinquefasciatus	Clovis	50	GRVD	6/21/16	WNV
Fresno	FRNO103	71	Cx. tarsalis		12	CO2	6/22/16	WNV
Fresno	FRNO106	68	Cx. quinquefasciatus	Fresno	27	CO2	6/22/16	WNV
Fresno	FRNO117	70	Cx. quinquefasciatus	Fresno	14	GRVD	6/22/16	WNV
Fresno	FRWS5101	45	Cx. tarsalis	Mendota	50	CO2	6/21/16	WNV
Kern	KERN3039	251	Cx. tarsalis	Bakersfield	50	CO2	6/15/16	WNV
Kings	KNGS5506	67	Cx. tarsalis	Hanford	21	BGSENT	6/16/16	WNV
Kings	KNGS5506	68	Cx. pipiens	Hanford	50	BGSENT	6/16/16	WNV
Los Angeles	GRLA2540	5345	Cx. quinquefasciatus	Porter Ranch	50	GRVD	6/15/16	WNV
Los Angeles	GRLA3069	5362	Cx. quinquefasciatus	Valley Village	50	GRVD	6/17/16	WNV
Los Angeles	GRLA3133	5348	Cx. quinquefasciatus	San Fernando	50	GRVD	6/16/16	WNV
Madera	MADR12	153	Cx. quinquefasciatus	Madera	50	CO2	6/21/16	WNV
Madera	MADR204	151	Cx. quinquefasciatus	Madera	50	CO2	6/21/16	WNV
Orange	ORCO1037	1462	Cx. quinquefasciatus	La Habra	27	GRVD	6/21/16	WNV
Orange	ORCO1040	1303	Cx. quinquefasciatus	Orange	50	GRVD	6/14/16	WNV
Orange	ORCO22	1379	Cx. erythrothorax	Irvine	50	CO2	6/15/16	WNV
Orange	ORCO238	1376	Cx. quinquefasciatus	Anaheim	25	GRVD	6/15/16	WNV
Orange	ORCO52	1440	Cx. quinquefasciatus	Anaheim	50	GRVD	6/21/16	WNV

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Riverside	NWST7	72	Cx. quinquefasciatus	Corona	35	CO2	6/14/16	WNV
Sacramento	SAYO203009	1655	Cx. tarsalis	North Highlands	50	CO2	6/21/16	WNV
Sacramento	SAYO204027	1627	Cx. tarsalis	Fair Oaks	47	CO2	6/21/16	WNV
Sacramento	SAYO204027	1629	Cx. pipiens	Fair Oaks	11	GRVD	6/21/16	WNV
Sacramento	SAYO212021	1831	Cx. pipiens	Sacramento	19	CO2	6/23/16	WNV
Sacramento	SAYO212033	1846	Cx. tarsalis	Sacramento	5	CO2	6/23/16	WNV
Sacramento	SAYO213014	1594	Cx. pipiens	Sacramento	14	GRVD	6/20/16	WNV
Sacramento	SAYO213023	1558	Cx. pipiens	Sacramento	20	CO2	6/20/16	WNV
Sacramento	SAYO213028	1562	Cx. pipiens	Carmichael	50	CO2	6/20/16	WNV
Sacramento	SAYO213028	1563	Cx. pipiens	Carmichael	22	CO2	6/20/16	WNV
Sacramento	SAYO213033	1582	Cx. pipiens	Sacramento	50	CO2	6/20/16	WNV
Sacramento	SAYO213033	1583	Cx. pipiens	Sacramento	40	CO2	6/20/16	WNV
Sacramento	SAYO213033	1584	Cx. pipiens	Sacramento	50	GRVD	6/20/16	WNV
Sacramento	SAYO213053	1568	Cx. pipiens	Carmichael	50	CO2	6/20/16	WNV
Sacramento	SAYO213053	1571	Cx. pipiens	Carmichael	35	CO2	6/20/16	WNV
Sacramento	SAYO213054	1579	Cx. pipiens	Carmichael	17	CO2	6/20/16	WNV
Sacramento	SAYO213054	1580	Cx. pipiens	Carmichael	9	GRVD	6/20/16	WNV
Sacramento	SAYO214011	1631	Cx. pipiens	Fair Oaks	25	CO2	6/21/16	WNV
Sacramento	SAYO214011	1632	Cx. pipiens	Fair Oaks	9	GRVD	6/21/16	WNV
Sacramento	SAYO214013	1595	Cx. tarsalis	Carmichael	6	CO2	6/21/16	WNV
Sacramento	SAYO214030	1610	Cx. tarsalis	Fair Oaks	36	CO2	6/21/16	WNV
Sacramento	SAYO214030	1612	Cx. pipiens	Fair Oaks	28	CO2	6/21/16	WNV
Sacramento	SAYO223004	1636	Cx. tarsalis	Sacramento	50	CO2	6/21/16	WNV
Sacramento	SAYO223004	1637	Cx. pipiens	Sacramento	11	CO2	6/21/16	WNV
Sacramento	SAYO223006	1836	Cx. pipiens	S. Watt Ave	12	GRVD	6/23/16	WNV
Sacramento	SAYO223009	1640	Cx. pipiens	Sacramento	50	CO2	6/21/16	WNV
Sacramento	SAYO223009	1641	Cx. pipiens	Sacramento	5	CO2	6/21/16	WNV
Sacramento	SAYO223048	1742	Cx. pipiens	Sacramento	25	CO2	6/22/16	WNV
Sacramento	SAYO233001	1772	Cx. tarsalis	Elk Grove	21	CO2	6/22/16	WNV
Sacramento	SAYO233002	1768	Cx. tarsalis	Elk Grove	14	CO2	6/22/16	WNV
Sacramento	SAYO233015	1833	Cx. pipiens	Sacramento	7	GRVD	6/23/16	WNV
Sacramento	SAYO233050	1789	Cx. pipiens	Elk Grove	3	GRVD	6/22/16	WNV
Sacramento	SAYO233060	1759	Cx. pipiens	Elk Grove	6	GRVD	6/22/16	WNV
Sacramento	SAYO233065	1755	Cx. tarsalis	Elk Grove	27	CO2	6/22/16	WNV
San Bernardino	WVAL5005	1133	Cx. quinquefasciatus	Rancho Cucamonga	16	GRVD	6/22/16	WNV
San Joaquin	SJCM7025	820	Cx. pipiens	Tracy	6	GRVD	6/21/16	WNV
San Joaquin	SJCM8003	814	Cx. pipiens	Tracy	2	CO2	6/21/16	WNV
San Joaquin	SJCM8008	888	Cx. tarsalis	Manteca	50	CO2	6/21/16	WNV
San Joaquin	SJCM8020	905	Cx. tarsalis	Acampo	50	CO2	6/21/16	WNV
San Joaquin	SJCM8020	907	Cx. tarsalis	Acampo	50	CO2	6/21/16	WNV
San Joaquin	SJCM8048	855	Cx. tarsalis	Stockton	6	CO2	6/21/16	WNV
San Joaquin	SJCM8083	904	Cx. pipiens	Escalon	40	CO2	6/21/16	WNV
San Joaquin	SJCM8197	859	Cx. tarsalis	Stockton	14	CO2	6/21/16	WNV
San Joaquin	SJCM8197	860	Cx. pipiens	Stockton	17	CO2	6/21/16	WNV
Stanislaus	TRLK1308	302	Cx. pipiens	Denair	50	CO2	6/21/16	WNV
Stanislaus	TRLK1612	292	Cx. pipiens	Turlock	39	CO2	6/21/16	WNV
Stanislaus	TRLK407	287	Cx. pipiens	Turlock	39	CO2	6/21/16	WNV
Stanislaus	TRLK432	295	Cx. pipiens	Turlock	50	CO2	6/21/16	WNV
Stanislaus	TRLK432	298	Cx. pipiens	Turlock	50	CO2	6/21/16	WNV
Stanislaus	TRLK432	299	Cx. tarsalis	Turlock	50	CO2	6/21/16	WNV
Sutter	SUYA16	61	Cx. tarsalis	Pleasant Grove	50	REST	6/20/16	WNV
Sutter	SUYA31	63	Cx. tarsalis	Rio Oso	50	REST	6/20/16	WNV
Sutter	SUYA44	57	Cx. tarsalis	Pleasant Grove	50	REST	6/20/16	WNV

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Sutter	SUYA44	58	Cx. tarsalis	Pleasant Grove	50	REST	6/20/16	WNV
Tulare	DLTA6408	1269	Cx. quinquefasciatus	Dinuba	50	GRVD	6/21/16	WNV
Tulare	DLTA6408	1353	Cx. quinquefasciatus	Dinuba	50	GRVD	6/22/16	WNV
Yolo	SAYO135016	1799	Cx. tarsalis	Woodland	50	CO2	6/22/16	WNV
Yolo	SAYO143008	1899	Cx. pipiens	Winters	13	CO2	6/23/16	WNV

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band #
Los Angeles	ANTV5465	Quartz Hill	6/15/2016	WNV	1026
San Diego	SAND0057	Sorrento Valley	6/14/2016	WNV	1322

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 RNA preservation 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. Some local agencies test birds using the RAMP© test or conduct RT-PCR on tissue samples.

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

Mosquito Pools:

Mosquito pools are submitted to CVEC and screened for West Nile, western equine encephalomyelitis, and St. Louis encephalitis viral RNA using a Taqman multiplex RT-PCR. CVEC no longer performs confirmatory 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.