

California Arbovirus Surveillance Bulletin #23

Week 30 Friday, July 27, 2012



WEEKLY UPDATE

Human Cases

One new case of West Nile virus (WNV) has been reported from Stanislaus County. As of July 27, 2012, a total of 7 human cases of WNV have been reported in five counties: Fresno (1), Kern (2), Los Angeles (1), Merced (1), and Stanislaus (2). Of the 7 cases, 4 (57%) had neuroinvasive illness, including two pediatric cases. Dates of symptom onset for all cases ranged from May 23-July 10, 2012. No fatalities have been reported to date. Five WNV-positive blood donors have been reported this year; one individual developed symptoms and was reclassified as a case. At this time last year, one human WNV case had been reported from Santa Barbara County.

National Update: As of July 24, 2012, 113 human cases of WNV had been reported nationwide in 16 states. Of the 113 cases, 65 (58%) were classified as neuroinvasive disease. Two WNV-related fatalities have been reported in Arizona (1) and Texas (1).

Horses

The first equine case of WNV in 2012 has been reported from Stanislaus County. The 2-yr old unvaccinated filly was euthanized as a result of her illness. Onset date was 7/22/12. At this time last year, no equine cases had been reported in 2011.

Dead Birds & Squirrels

A total of 62 WNV positive dead birds were reported this week from 16 counties: Contra Costa (2), Fresno (1), Glenn (2), Kern (1), Los Angeles (4), Merced (1), Placer (4), Riverside (1), Sacramento (25), San Joaquin (3), Santa Clara (2), Stanislaus (3), Sutter (1), Tulare (7), Ventura (3), and Yolo (2). This is the first detection of WNV activity in Glenn County and the first WNV positive dead bird reported from Sutter County this year. In addition, 16 dead birds tested positive for chronic WNV infection this week. In 2012, 493 dead birds have tested positive for recent WNV infection from 21 counties. At this time last year, 88 dead birds from 12 counties had tested positive for WNV.

Mosquito Pools

A total of 168 WNV positive mosquito pools were reported this week from 18 counties: Contra Costa (1), Fresno (15), Kern (36), Kings (2), Los Angeles (14), Madera (1), Orange (1), Placer (16), Riverside (1), Sacramento (51), San Bernardino (4), San Joaquin (6), Stanislaus (11), Sutter (2), Tulare (1), Ventura (1), Yolo (1), and Yuba (4). This is the first detection of WNV activity in Kings and Madera counties this year. In 2012, 761 mosquito pools from 20 counties have tested positive for WNV. At this time last year, 272 mosquito pools had tested positive for WNV from 15 counties.

Sentinel Chickens

Eleven WNV seroconversions were reported this week from seven flocks in five counties: Butte (1), Los Angeles (1), Riverside (6), Sutter (1), and Tulare (2). This is the first WNV activity detected in Butte County and the first seroconversion detected in Sutter County this year. In 2012, 30 WNV antibody-positive chickens have been detected among twelve flocks in six counties. At this time last year, 19 WNV positive chickens had been detected from 3 counties.

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

California Arbovirus Surveillance Bulletin #23

Week 30 Friday, July 27, 2012

2011 & 2012 YTD West Nile Virus Comparisons		
	2011	2012
Total # Dead Bird Reports	5,078	8,697
# Positive Counties	18	26
# Human Cases	1	7
# Horse Cases	0	1
# Positive Dead Birds / # Tested	88 / 1,128	493 / 1,936
# Positive Mosquito Pools / # Tested	272 / 14,522	761 / 14,472
# Seroconversions / # Tested	19 / 10,936	30 / 9,723
# Positive Squirrels / # Tested	0 / 50	0 / 69

YTD WNV Activity by Element and County, 2012						
County	Humans	Horses	Dead Birds*	Mosquito Pools	Sentinel Chickens	Squirrels
Butte					1	
Contra Costa			8	4		
Fresno	1		10	59		
Glenn			2			
Imperial				2		
Kern	2		8	187		
Kings				2		
Los Angeles	1		19	34	2	
Madera				1		
Merced	1		10			
Orange			1	5		
Placer			5	21		
Riverside			2	57	12	
Sacramento			288	290	11	
San Bernardino				13		
San Joaquin			28	25		
San Mateo			1			
Santa Clara			9			
Santa Cruz			1			
Solano			12	1		
Stanislaus	2	1	22	20		
Sutter			1	10	1	
Tulare			34	15	3	
Ventura			8	1		
Yolo			23	9		
Yuba			1	5		
Totals	7	1	493	761	30	0

**Total does not include chronic infections*

California Arbovirus Surveillance Bulletin #23

Week 30 Friday, July 27, 2012

TESTING SUMMARIES

Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	1	0	0	0	0	0
	YTD	7	0	0	0	0	0
Horse Cases	Week	1	0	0	0	0	0
	YTD	1	0	0	0	0	0

Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	148	62
	YTD	1,936	493
Tree Squirrels	Week	3	0
	YTD	69	0

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	518	11	0	0
	YTD	9,723	30	0	0
Mosquito Pools	Week	1364	168	0	0
	YTD	14,472	761	0	0

POSITIVES: WEEK 30

Humans

WNV Cases							
ID	Report Date	County	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
12-0007	07/19/12	Stanislaus	63	M	WNF	07/7/12	NO

Dead Birds & Squirrels

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Alameda	Alameda Co MAD	Hayward	94541	House Finch	7/12/2012	WNV	Chronic	RT-PCR
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	7/25/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Walnut Creek	94598	American Crow	7/16/2012	WNV	Recent	RT-PCR
El Dorado	El Dorado Co EM	Placerville	95667	Black-headed Grosbeak	7/16/2012	WNV	Chronic	RT-PCR

California Arbovirus Surveillance Bulletin #23

Week 30 Friday, July 27, 2012

El Dorado	El Dorado Co EM	Cameron Park	95682	House Finch	7/12/2012	WNV	Chronic	RT-PCR
Fresno	Fresno MVCD	Fresno	93722	Western Scrub-Jay	7/16/2012	WNV	Recent	RT-PCR
Glenn	Glenn Co MVCD	Orland	95963	American Crow	7/16/2012	WNV	Recent	RT-PCR
Glenn	Glenn Co MVCD	Willows	95988	American Crow	7/17/2012	WNV	Recent	RT-PCR
Kern	Kern MVCD	Bakersfield	93313	Western Scrub-Jay	7/12/2012	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - Sylmar	Northridge	91325	American Crow	7/17/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Culver City	90230	American Crow	7/12/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Winnetka	91306	American Crow	7/9/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Reseda	91335	Cooper's Hawk	7/16/2012	WNV	Recent	RT-PCR
Madera	Madera Co MVCD	North Fork	93643	Common Raven	7/12/2012	WNV	Chronic	RT-PCR
Merced	Merced Co MAD	Atwater	95301	American Crow	7/17/2012	WNV	Recent	RT-PCR
Nevada	NV Co EH - NV City	Grass Valley	95949	Spotted Towhee	7/13/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Lincoln	95648	Yellow-billed Magpie	7/23/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	Unknown	7/23/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Rocklin	95677	Western Scrub-Jay	7/23/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95678	Western Scrub-Jay	7/20/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Rocklin	95765	American Robin	7/6/2012	WNV	Chronic	RT-PCR
Riverside	NW Mosquito VCD	Norco	92860	American Crow	7/16/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Carmichael	95608	American Crow	7/19/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	7/23/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elverta	95626	American Crow	7/20/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elverta	95626	Yellow-billed Magpie	7/23/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Yellow-billed Magpie	7/17/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Yellow-billed Magpie	7/17/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Western Scrub-Jay	7/18/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	galt	95632	Western Scrub-Jay	7/18/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Western Scrub-Jay	7/21/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Western Scrub-Jay	7/24/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	House Finch	7/22/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Herald	95638	American Crow	7/17/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	North Highlands	95660	American Crow	7/23/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Orangevale	95662	Western Scrub-Jay	7/21/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rio Linda	95673	American Crow	7/19/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Murietta	95683	Western Scrub-Jay	7/23/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	Yellow-billed Magpie	7/17/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	American Crow	7/18/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	Western Scrub-Jay	7/18/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Cordova	95742	Brewer's Blackbird	7/9/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95757	Barn Owl	7/10/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95758	Western Scrub-Jay	7/17/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95815	Western Scrub-Jay	7/17/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95821	American Crow	7/19/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95821	American Crow	7/19/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95838	Western Scrub-Jay	7/23/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95852	American Crow	7/19/2012	WNV	Recent	RT-PCR
San Bernardino	Riverside Co VCP	Colton	92324	Common Raven	7/11/2012	WNV	Chronic	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95204	House Finch	7/12/2012	WNV	Chronic	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95204	Sharp-shinned Hawk	7/8/2012	WNV	Chronic	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95219	American Robin	7/2/2012	WNV	Chronic	RT-PCR
San Joaquin	San Joaquin Co MVCD	Lodi	95242	Sparrow	7/19/2012	WNV	Recent	RT-PCR

California Arbovirus Surveillance Bulletin #23
 Week 30 Friday, July 27, 2012

San Joaquin	San Joaquin Co MVCD	Ripon	95366	Black-chinned Hummingbird	7/10/2012	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95118	American Crow	7/20/2012	WNV	Recent	VecTest
Santa Clara	Santa Clara Co VCD	San Jose	95136	American Crow	7/20/2012	WNV	Recent	VecTest
Santa Cruz	Santa Cruz MVCD	Aptos	95003	Unknown	7/18/2012	WNV	Chronic	RT-PCR
Santa Cruz	Santa Cruz MVCD	Santa Cruz	95062	Northern Mockingbird	7/17/2012	WNV	Chronic	RT-PCR
Stanislaus	East Side MAD	Modesto	95354	Western Scrub-Jay	7/13/2012	WNV	Recent	RT-PCR
Stanislaus	East Side MAD	Modesto	95355	Western Scrub-Jay	7/17/2012	WNV	Recent	RT-PCR
Stanislaus	East Side MAD	Oakdale	95361	European Starling	7/16/2012	WNV	Chronic	RT-PCR
Stanislaus	Turlock MAD	Ceres	95307	American Crow	7/12/2012	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Ceres	95307	American Crow	7/12/2012	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Yuba City	95991	American Crow	7/13/2012	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93277	American Crow	7/12/2012	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93277	Western Scrub-Jay	7/20/2012	WNV	Recent	RAMP
Tulare	Delta VCD	Visalia	93277	Common Raven	7/23/2012	WNV	Recent	RAMP
Tulare	Delta VCD	Visalia	93277	American Crow	7/25/2012	WNV	Recent	RAMP
Tulare	Delta VCD	Visalia	93291	Western Scrub-Jay	7/20/2012	WNV	Recent	RAMP
Tulare	Delta VCD	Visalia	93292	American Crow	7/13/2012	WNV	Recent	RT-PCR
Tulare	Tulare MAD	Visalia	93277	Western Scrub-Jay	7/18/2012	WNV	Recent	RT-PCR
Ventura	Ventura Co EHD	Simi Valley	93063	American Crow	7/12/2012	WNV	Recent	RT-PCR
Ventura	Ventura Co EHD	Simi Valley	93063	American Crow	7/13/2012	WNV	Recent	RT-PCR
Ventura	Ventura Co EHD	Simi Valley	93063	American Crow	7/16/2012	WNV	Recent	RT-PCR
Ventura	Ventura Co EHD	Simi Valley	93065	American Crow	7/17/2012	WNV	Chronic	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	Western Scrub-Jay	7/17/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	American Crow	7/17/2012	WNV	Recent	RT-PCR

Mosquito Pools

County	Site Code	Pool #	City	Species	# in Pool	Trap Type	Collected	Virus	Method
Contra Costa	CNTR1688	205	Brentwood	Cx. pipiens	10	CO2	07/23/12	WNV	RAMP
Fresno	CNSL1209	191	Clovis	Cx. quinquefasciatus	21	GRVD	07/12/12	WNV	RTPCR
Fresno	CNSL1244	423	Clovis	Cx. tarsalis	36	CO2	07/24/12	WNV	RTPCR
Fresno	CNSL1483	195	Clovis	Cx. tarsalis	33	CO2	07/12/12	WNV	RTPCR
Fresno	CNSL1575	414	Clovis	Cx. quinquefasciatus	50	CO2	07/18/12	WNV	RTPCR
Fresno	CNSL1575	415	Clovis	Cx. tarsalis	50	CO2	07/18/12	WNV	RTPCR
Fresno	CNSL1631	192	Fresno	Cx. quinquefasciatus	29	GRVD	07/12/12	WNV	RTPCR
Fresno	CNSL1726	1004	Clovis	Cx. quinquefasciatus	35	GRVD	07/25/12	WNV	RAMP
Fresno	CNSL1804	417	Clovis	Cx. tarsalis	19	CO2	07/20/12	WNV	RTPCR
Fresno	CNSL2299	196	Sanger	Cx. quinquefasciatus	50	GRVD	07/13/12	WNV	RTPCR
Fresno	CNSL3119	630	Sanger	Cx. stigmatosoma	21	REST	07/24/12	WNV	RTPCR
Fresno	FRWS1101	76	Dos Palos	Cx. tarsalis	28	CO2	07/17/12	WNV	RTPCR
Fresno	FRWS1101	84	Dos Palos	Cx. tarsalis	50	CO2	07/24/12	WNV	RTPCR
Fresno	FRWS1101	85	Dos Palos	Cx. tarsalis	50	CO2	07/24/12	WNV	RTPCR
Fresno	FRWS2105	88	Dos Palos	Cx. tarsalis	28	CO2	07/24/12	WNV	RTPCR
Fresno	FRWS3201	75	Firebaugh	Cx. quinquefasciatus	18	OTHE R	07/17/12	WNV	RTPCR
Kern	KERN1137	993	Bakersfield	Cx. quinquefasciatus	50	CO2	07/12/12	WNV	RTPCR

California Arbovirus Surveillance Bulletin #23

Week 30 Friday, July 27, 2012

Kern	KERN1156	1060	Arvin	Cx. quinquefasciatus	50	CO2	07/18/12	WNV	RTPCR
Kern	KERN121	983	Bakersfield	Cx. quinquefasciatus	33	GRVD	07/12/12	WNV	RTPCR
Kern	KERN121	1094	Bakersfield	Cx. quinquefasciatus	17	GRVD	07/19/12	WNV	RTPCR
Kern	KERN2002	1090	Bakersfield	Cx. quinquefasciatus	50	GRVD	07/19/12	WNV	RTPCR
Kern	KERN2007	982	Bakersfield	Cx. quinquefasciatus	16	GRVD	07/12/12	WNV	RTPCR
Kern	KERN2007	1092	Bakersfield	Cx. quinquefasciatus	50	GRVD	07/19/12	WNV	RTPCR
Kern	KERN2007	1093	Bakersfield	Cx. quinquefasciatus	17	GRVD	07/19/12	WNV	RTPCR
Kern	KERN2010	977	Bakersfield	Cx. quinquefasciatus	36	GRVD	07/12/12	WNV	RTPCR
Kern	KERN2010	1088	Bakersfield	Cx. quinquefasciatus	49	GRVD	07/19/12	WNV	RTPCR
Kern	KERN2014	981	Bakersfield	Cx. quinquefasciatus	43	GRVD	07/12/12	WNV	RTPCR
Kern	KERN2014	1087	Bakersfield	Cx. quinquefasciatus	26	GRVD	07/19/12	WNV	RTPCR
Kern	KERN2015	1036	Bakersfield	Cx. quinquefasciatus	19	GRVD	07/18/12	WNV	RTPCR
Kern	KERN2016	1029	Bakersfield	Cx. quinquefasciatus	40	GRVD	07/17/12	WNV	RTPCR
Kern	KERN2018	1028	Bakersfield	Cx. quinquefasciatus	29	GRVD	07/17/12	WNV	RTPCR
Kern	KERN2020	978	Bakersfield	Cx. quinquefasciatus	50	GRVD	07/12/12	WNV	RTPCR
Kern	KERN2020	979	Bakersfield	Cx. quinquefasciatus	33	GRVD	07/12/12	WNV	RTPCR
Kern	KERN2020	1082	Bakersfield	Cx. quinquefasciatus	50	GRVD	07/19/12	WNV	RTPCR
Kern	KERN2020	1083	Bakersfield	Cx. quinquefasciatus	50	GRVD	07/19/12	WNV	RTPCR
Kern	KERN2024	1024	Bakersfield	Cx. quinquefasciatus	50	GRVD	07/17/12	WNV	RTPCR
Kern	KERN2025	985	Bakersfield	Cx. quinquefasciatus	20	GRVD	07/12/12	WNV	RTPCR
Kern	KERN2025	1096	Bakersfield	Cx. quinquefasciatus	25	GRVD	07/19/12	WNV	RTPCR
Kern	KERN2027	980	Bakersfield	Cx. quinquefasciatus	12	GRVD	07/12/12	WNV	RTPCR
Kern	KERN2028	976	Bakersfield	Cx. quinquefasciatus	24	GRVD	07/12/12	WNV	RTPCR
Kern	KERN2030	1027	Bakersfield	Cx. quinquefasciatus	50	GRVD	07/17/12	WNV	RTPCR
Kern	KERN2043	1097	Bakersfield	Cx. quinquefasciatus	11	GRVD	07/19/12	WNV	RTPCR
Kern	KERN2051	1038	Bakersfield	Cx. quinquefasciatus	36	GRVD	07/18/12	WNV	RTPCR
Kern	KERN29	1054	Lamont	Cx. tarsalis	33	CO2	07/18/12	WNV	RTPCR
Kern	KERN29	1056	Lamont	Cx. quinquefasciatus	50	CO2	07/18/12	WNV	RTPCR
Kern	KERN3004	1050	Bakersfield	Cx. tarsalis	50	CO2	07/18/12	WNV	RTPCR
Kern	KERN3004	1052	Bakersfield	Cx. quinquefasciatus	50	CO2	07/18/12	WNV	RTPCR
Kern	KERN3017	1098	Bakersfield	Cx. quinquefasciatus	26	CO2	07/19/12	WNV	RTPCR
Kern	KERN3028	1044	Bakersfield	Cx. quinquefasciatus	50	CO2	07/18/12	WNV	RTPCR
Kern	KERN3028	1046	Bakersfield	Cx. quinquefasciatus	50	CO2	07/18/12	WNV	RTPCR
Kern	KERN3028	1048	Bakersfield	Cx. quinquefasciatus	50	CO2	07/18/12	WNV	RTPCR
Kern	WEST6203	82	Hwy 119 and Hwy 43	Cx. tarsalis	50	CO2	07/25/12	WNV	RTPCR
Kings	KNGS3006	171	Lemoore NAS	Cx. tarsalis	35	CO2	07/19/12	WNV	RTPCR
Kings	KNGS3027	173	Lemoore	Cx. tarsalis	50	CO2	07/19/12	WNV	RTPCR
Los Angeles	GRLA2421	5774	Panorama City	Cx. quinquefasciatus	40	GRVD	07/20/12	WNV	RTPCR
Los Angeles	GRLA2427	5750	Chatsworth	Cx. quinquefasciatus	18	GRVD	07/19/12	WNV	RTPCR
Los Angeles	GRLA2438	5749	Chatsworth	Cx. quinquefasciatus	50	GRVD	07/19/12	WNV	RTPCR
Los Angeles	GRLA2465	5739	Los Angeles	Cx. quinquefasciatus	49	GRVD	07/17/12	WNV	RTPCR
Los Angeles	GRLA2522	5737	Los Angeles	Cx. stigmatosoma	28	GRVD	07/17/12	WNV	RTPCR
Los Angeles	GRLA2635	5755	Van Nuys	Cx. quinquefasciatus	47	GRVD	07/20/12	WNV	RTPCR
Los Angeles	GRLA2635	5756	Van Nuys	Cx. quinquefasciatus	13	CO2	07/20/12	WNV	RTPCR
Los Angeles	GRLA2636	5757	Van Nuys	Cx. quinquefasciatus	50	GRVD	07/20/12	WNV	RTPCR
Los Angeles	GRLA2637	5773	Van Nuys	Cx. quinquefasciatus	30	GRVD	07/20/12	WNV	RTPCR
Los Angeles	GRLA2650	5768	Encino	Cx. quinquefasciatus	50	GRVD	07/20/12	WNV	RTPCR
Los Angeles	GRLA2650	5771	Encino	Cx. quinquefasciatus	50	GRVD	07/20/12	WNV	RTPCR
Los Angeles	GRLA2651	5761	Encino	Cx. quinquefasciatus	46	GRVD	07/20/12	WNV	RTPCR
Los Angeles	GRLA2967	5752	Chatsworth	Cx. quinquefasciatus	50	GRVD	07/19/12	WNV	RTPCR

California Arbovirus Surveillance Bulletin #23

Week 30 Friday, July 27, 2012

Los Angeles	GRLA3045	726	Whittier	Cx. stigmatosoma	12	GRVD	07/18/12	WNV	RTPCR
Madera	MADR6	56		Cx. tarsalis	15	CO2	07/18/12	WNV	RTPCR
Orange	ORCO52	730	Anaheim	Cx. quinquefasciatus	49	GRVD	07/17/12	WNV	RTPCR
Placer	PLCR1113	795	Pleasant Grove	Cx. pipiens	50	CO2	07/23/12	WNV	RTPCR
Placer	PLCR1113	798	Pleasant Grove	Cx. tarsalis	50	CO2	07/23/12	WNV	RTPCR
Placer	PLCR1113	799	Pleasant Grove	Cx. tarsalis	50	CO2	07/23/12	WNV	RTPCR
Placer	PLCR1113	801	Pleasant Grove	Cx. tarsalis	50	CO2	07/23/12	WNV	RTPCR
Placer	PLCR1113	802	Pleasant Grove	Cx. tarsalis	50	CO2	07/23/12	WNV	RTPCR
Placer	PLCR1113	803	Pleasant Grove	Cx. tarsalis	50	CO2	07/23/12	WNV	RTPCR
Placer	PLCR1113	804	Pleasant Grove	Cx. tarsalis	50	CO2	07/23/12	WNV	RTPCR
Placer	PLCR1113	814	Pleasant Grove	Cx. tarsalis	50	CO2	07/23/12	WNV	RTPCR
Placer	PLCR1113	817	Pleasant Grove	Cx. tarsalis	50	CO2	07/23/12	WNV	RTPCR
Placer	PLCR1113	819	Pleasant Grove	Cx. tarsalis	50	CO2	07/23/12	WNV	RTPCR
Placer	PLCR1113	821	Pleasant Grove	Cx. tarsalis	50	CO2	07/23/12	WNV	RTPCR
Placer	PLCR139	766	Roseville	Cx. tarsalis	50	CO2	07/23/12	WNV	RTPCR
Placer	PLCR17	773	Sheridan	Cx. tarsalis	50	CO2	07/23/12	WNV	RTPCR
Placer	PLCR17	775	Sheridan	Cx. tarsalis	33	CO2	07/23/12	WNV	RTPCR
Placer	PLCR516	757	Roseville	Cx. tarsalis	50	CO2	07/23/12	WNV	RTPCR
Placer	PLCR58	765	Lincoln	Cx. tarsalis	23	CO2	07/23/12	WNV	RTPCR
Riverside	COAV608	1918	Mecca	Cx. tarsalis	50	CO2	07/19/12	WNV	RTPCR
Sacramento	SAYO202012	3319	Rio Linda	Cx. pipiens	1	CO2	07/26/12	WNV	RTPCR
Sacramento	SAYO203006	3313	Elverta	Cx. pipiens	1	GRVD	07/26/12	WNV	RTPCR
Sacramento	SAYO203017	3316	Rio Linda	Cx. pipiens	50	GRVD	07/26/12	WNV	RTPCR
Sacramento	SAYO203018	3309	Rio Linda	Cx. tarsalis	4	CO2	07/26/12	WNV	RTPCR
Sacramento	SAYO203018	3310	Rio Linda	Cx. tarsalis	1	GRVD	07/26/12	WNV	RTPCR
Sacramento	SAYO203018	3311	Rio Linda	Cx. pipiens	1	CO2	07/26/12	WNV	RTPCR
Sacramento	SAYO203018	3312	Rio Linda	Cx. pipiens	7	GRVD	07/26/12	WNV	RTPCR
Sacramento	SAYO203025	3053	Rio Linda	Cx. tarsalis	21	CO2	07/20/12	WNV	RTPCR
Sacramento	SAYO203036	3038	Sacramento	Cx. pipiens	5	CO2	07/20/12	WNV	RTPCR
Sacramento	SAYO212033	3322	Sacramento	Cx. tarsalis	28	CO2	07/26/12	WNV	RTPCR
Sacramento	SAYO212033	3324	Sacramento	Cx. pipiens	5	CO2	07/26/12	WNV	RTPCR
Sacramento	SAYO212033	3326	Sacramento	Cx. pipiens	4	GRVD	07/26/12	WNV	RTPCR
Sacramento	SAYO213011	3150	Carmichael	Cx. tarsalis	11	CO2	07/24/12	WNV	RTPCR
Sacramento	SAYO213018	3060	Sacramento	Cx. pipiens	6	GRVD	07/20/12	WNV	RTPCR
Sacramento	SAYO213022	3164	Sacramento	Cx. pipiens	13	GRVD	07/24/12	WNV	RTPCR
Sacramento	SAYO213027	3064	Sacramento	Cx. tarsalis	5	CO2	07/20/12	WNV	RTPCR
Sacramento	SAYO213033	3156	Sacramento	Cx. tarsalis	11	CO2	07/24/12	WNV	RTPCR
Sacramento	SAYO213035	3153	Sacramento	Cx. tarsalis	20	CO2	07/24/12	WNV	RTPCR
Sacramento	SAYO213035	3154	Sacramento	Cx. pipiens	33	CO2	07/24/12	WNV	RTPCR
Sacramento	SAYO213035	3155	Sacramento	Cx. pipiens	7	GRVD	07/24/12	WNV	RTPCR
Sacramento	SAYO222001	3097	Sacramento	Cx. pipiens	18	GRVD	07/20/12	WNV	RTPCR
Sacramento	SAYO223006	3344	South Watt Ave.	Cx. tarsalis	13	CO2	07/26/12	WNV	RTPCR
Sacramento	SAYO223006	3345	South Watt Ave.	Cx. pipiens	6	CO2	07/26/12	WNV	RTPCR
Sacramento	SAYO223044	3328		Cx. pipiens	34	CO2	07/26/12	WNV	RTPCR
Sacramento	SAYO232017	3034	Elk Grove	Cx. pipiens	50	CO2	07/20/12	WNV	RTPCR
Sacramento	SAYO232017	3035	Elk Grove	Cx. pipiens	7	CO2	07/20/12	WNV	RTPCR
Sacramento	SAYO233001	3347	Elk Grove	Cx. pipiens	4	CO2	07/26/12	WNV	RTPCR
Sacramento	SAYO234025	3027	Elk Grove	Cx. tarsalis	42	CO2	07/20/12	WNV	RTPCR
Sacramento	SAYO234025	3028	Elk Grove	Cx. pipiens	32	CO2	07/20/12	WNV	RTPCR

California Arbovirus Surveillance Bulletin #23

Week 30 Friday, July 27, 2012

Sacramento	SAYO234025	3029	Elk Grove	Cx. pipiens	4	GRVD	07/20/12	WNV	RTPCR
Sacramento	SAYO235005	3229	Wilton	Cx. pipiens	19	GRVD	07/26/12	WNV	RTPCR
Sacramento	SAYO235013	3133	Wilton	Cx. tarsalis	13	CO2	07/24/12	WNV	RTPCR
Sacramento	SAYO244010	3251	Wilton	Cx. tarsalis	16	CO2	07/26/12	WNV	RTPCR
Sacramento	SAYO244010	3253	Wilton	Cx. pipiens	23	GRVD	07/26/12	WNV	RTPCR
Sacramento	SAYO244011	3281	Wilton	Cx. pipiens	39	GRVD	07/26/12	WNV	RTPCR
Sacramento	SAYO245004	3254	Wilton	Cx. tarsalis	5	CO2	07/26/12	WNV	RTPCR
Sacramento	SAYO245006	3284	Wilton	Cx. pipiens	9	CO2	07/26/12	WNV	RTPCR
Sacramento	SAYO245008	3089	Wilton	Cx. tarsalis	15	CO2	07/20/12	WNV	RTPCR
Sacramento	SAYO245008	3090	Wilton	Cx. tarsalis	1	GRVD	07/20/12	WNV	RTPCR
Sacramento	SAYO245008	3091	Wilton	Cx. pipiens	7	CO2	07/20/12	WNV	RTPCR
Sacramento	SAYO245025	3250	Wilton	Cx. pipiens	6	GRVD	07/26/12	WNV	RTPCR
Sacramento	SAYO253009	3127	Galt	Cx. pipiens	11	CO2	07/24/12	WNV	RTPCR
Sacramento	SAYO254003	3100	Herald	Cx. tarsalis	50	CO2	07/20/12	WNV	RTPCR
Sacramento	SAYO254003	3121	Herald	Cx. tarsalis	50	CO2	07/24/12	WNV	RTPCR
Sacramento	SAYO254011	3117	Galt	Cx. pipiens	10	CO2	07/24/12	WNV	RTPCR
Sacramento	SAYO254017	3295	Galt	Cx. tarsalis	5	CO2	07/26/12	WNV	RTPCR
Sacramento	SAYO254022	3298	Galt	Cx. pipiens	42	CO2	07/26/12	WNV	RTPCR
Sacramento	SAYO254027	3128	Galt	Cx. tarsalis	35	CO2	07/24/12	WNV	RTPCR
Sacramento	SAYO254027	3129	Galt	Cx. tarsalis	4	GRVD	07/24/12	WNV	RTPCR
Sacramento	SAYO254027	3131	Galt	Cx. pipiens	3	GRVD	07/24/12	WNV	RTPCR
Sacramento	SAYO254029	3304	Galt	Cx. pipiens	4	GRVD	07/26/12	WNV	RTPCR
San Bernardino	WVAL5004	271	Rancho Cucamonga	Cx. quinquefasciatus	26	GRVD	07/24/12	WNV	RTPCR
San Bernardino	WVAL5009	269	Rancho Cucamonga	Cx. quinquefasciatus	17	GRVD	07/24/12	WNV	RTPCR
San Bernardino	WVAL6004	273	Ontario	Cx. quinquefasciatus	24	GRVD	07/24/12	WNV	RTPCR
San Bernardino	WVAL6007	270	Ontario	Cx. quinquefasciatus	13	GRVD	07/24/12	WNV	RTPCR
San Joaquin	SJCM8018	441	Stockton	Cx. tarsalis	50	CO2	07/24/12	WNV	RTPCR
San Joaquin	SJCM8018	444	Stockton	Cx. tarsalis	50	CO2	07/24/12	WNV	RTPCR
San Joaquin	SJCM8018	445	Stockton	Cx. tarsalis	40	CO2	07/24/12	WNV	RTPCR
San Joaquin	SJCM8056	449	Manteca	Cx. pipiens	50	CO2	07/24/12	WNV	RTPCR
San Joaquin	SJCM8161	436	Ripon	Cx. pipiens	48	CO2	07/24/12	WNV	RTPCR
San Joaquin	SJCM9906	438	French Camp	Cx. tarsalis	6	CO2	07/24/12	WNV	RTPCR
Stanislaus	TRLK1105	381	Turlock	Cx. pipiens	50	CO2	07/24/12	WNV	RTPCR
Stanislaus	TRLK408	370	Turlock	Cx. pipiens	50	CO2	07/24/12	WNV	RTPCR
Stanislaus	TRLK432	373	Turlock	Cx. pipiens	50	CO2	07/24/12	WNV	RTPCR
Stanislaus	TRLK432	374	Turlock	Cx. pipiens	50	CO2	07/24/12	WNV	RTPCR
Stanislaus	TRLK432	375	Turlock	Cx. pipiens	37	CO2	07/24/12	WNV	RTPCR
Stanislaus	TRLK516	396	Denair	Cx. pipiens	50	CO2	07/24/12	WNV	RTPCR
Stanislaus	TRLK516	400	Denair	Cx. pipiens	50	CO2	07/24/12	WNV	RTPCR
Stanislaus	TRLK530	362	Turlock	Cx. pipiens	50	CO2	07/24/12	WNV	RTPCR
Stanislaus	TRLK531	365	Turlock	Cx. pipiens	39	CO2	07/24/12	WNV	RTPCR
Stanislaus	TRLK703	387	Turlock	Cx. pipiens	50	CO2	07/24/12	WNV	RTPCR
Stanislaus	TRLK703	391	Turlock	Cx. tarsalis	15	CO2	07/24/12	WNV	RTPCR
Sutter	SUYA30	210	Live Oak	Cx. tarsalis	50	REST	07/23/12	WNV	RTPCR
Sutter	SUYA63	209	Pennington	Cx. tarsalis	36	REST	07/23/12	WNV	RTPCR
Tulare	DLTA8520	97	Visalia	Cx. quinquefasciatus	33	GRVD	07/17/12	WNV	RTPCR
Ventura	VENT5027	7	Simi Valley	Cx. quinquefasciatus	22	CO2	06/15/12	WNV	RTPCR

California Arbovirus Surveillance Bulletin #23

Week 30 Friday, July 27, 2012

Yolo	SAYO145008	3182	Davis	Cx. pipiens	4	GRVD	07/24/12	WNV	RTPCR
Yuba	SUYA40	198	Linda	Cx. tarsalis	39	CO2	07/18/12	WNV	RTPCR
Yuba	SUYA40	199	Linda	Cx. pipiens	24	CO2	07/18/12	WNV	RTPCR
Yuba	SUYA97	201	Marysville	Cx. tarsalis	39	REST	07/23/12	WNV	RTPCR
Yuba	SUYA97	219	Marysville	Cx. tarsalis	35	REST	07/24/12	WNV	RTPCR

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Butte	BUCO000007	Chico	7/17/2012	WNV	1569			
Los Angeles	LACW001007	Baldwin Hills	7/13/2012	WNV	1091			
Riverside	COAV000035	Mecca	7/23/2012	WNV	3841			
Riverside	COAV000122	Mecca	7/23/2012	WNV	3875	3877	3879	3880
Riverside	COAV000201	Thermal	7/23/2012	WNV	3946			
Sutter	SUYA000015	Robbins	7/19/2012	WNV	1497			
Tulare	DLTA008530	Visalia	7/20/2012	WNV	1759	1760		

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.

Horses:

Serum or brain tissue specimens from horses displaying neurological symptoms are submitted to the California Animal Health and Safety Laboratory (CAHFS) and tested by EIA and PRNT.

Dead Birds and Tree Squirrels:

Dead birds and tree squirrels are necropsied at CAHFS laboratory at University of California, Davis. Oral swabs from American Crows and kidney tissue from all other dead birds and squirrels are forwarded to the UC Davis Center for Vectorborne Diseases (CVEC) for West Nile virus testing using 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.

California Arbovirus Surveillance Bulletin #23

Week 30 Friday, July 27, 2012

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

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