

California Arbovirus Surveillance Bulletin #33

Week 40 Friday, October 5, 2012



Human Cases

A total of 49 new cases of West Nile virus (WNV) were reported this week from the following 16 counties: Butte (2), Fresno (2), Glenn (1), Kern (1), Kings (2), Los Angeles (17), Merced (3), Monterey (1), Orange (8), Riverside (1), Sacramento (1), San Bernardino (2), San Diego (1), San Joaquin (2), Stanislaus (4), and Yolo (1). These are the first human cases reported from Monterey and San Diego counties this year. As of October 4, 2012, a total of 231 human cases of WNV illness have been reported in 28 counties. Of the 231 cases, 135 (58%) had neuroinvasive illness. The median age of the 231 individuals is 55 years (range: 1-93 years); 128 (55%) are male. Dates of symptom onset for all cases ranged from May 23-September 22, 2012. Ten WNV-related fatalities have been reported to date in Fresno (2), Glenn (1), Kern (1), Los Angeles (2), Merced (1), Placer (1), and Sacramento (2) counties. A total of 46 WNV-positive blood donors have been reported this year; 14 individuals developed symptoms and were reclassified as cases. At this time last year, 104 WNV cases had been reported from 19 counties.

National Comments: As of October 2, 2012, 3,969 cases had been reported nationwide from 47 states and the District of Columbia (DC). This is the highest number of cases reported through the first week of October since 2003. Almost 70 percent of the cases have been reported from Texas, California, Louisiana, Mississippi, South Dakota, Michigan, Oklahoma, and Illinois. Of the 3,969 cases, 2010 (51%) were classified as neuroinvasive disease, and 163 (4%) died.

Horses

No new equine cases were reported this week. In 2012, 20 horses from 11 counties have tested positive for WNV; 6 (30%) died or were euthanized as a result of their illness. At this time last year, 10 equine cases of WNV from 6 counties had been reported.

Dead Birds & Squirrels

A total of 78 WNV positive dead birds were reported this week from 18 counties: Butte (2), Contra Costa (9), Fresno (2), Lake (2), Los Angeles (26), Mendocino (2), Merced (2), Orange (4), San Bernardino (4), San Joaquin (1), Santa Clara (2), Shasta (8), Sonoma (2), Stanislaus (4), Sutter (2), Tehama (1), Tulare (3), and Ventura (2). Five tree squirrels tested positive for WNV in Los Angeles County. An additional 19 dead birds and 2 tree squirrels tested positive for chronic WNV infection (see Dead Bird Table for details). In 2012, 1,456 dead birds and 16 squirrels have tested positive for recent WNV infection from 37 and 5 counties, respectively. At this time last year, 587 dead birds from 25 counties and 15 tree squirrels from 4 counties had tested positive for WNV.

Mosquito Pools

A total of 91 WNV positive mosquito pools were reported this week from 13 counties: Butte (1), Fresno (5), Kern (22), Kings (2), Lake (2), Los Angeles (21), Madera (2), Orange (4), Riverside (3), San Joaquin (4), Shasta (2), Stanislaus (15), and Tulare (8). In 2012, 2,632 mosquito pools from 28 counties have tested positive for WNV. At this time last year, 1,974 mosquito pools had tested positive for WNV from 25 counties.

Sentinel Chickens

A total of 22 WNV seroconversions were reported this week from 13 flocks in 8 counties: Butte (1), Contra Costa (1), Glenn (1), Kern (11), San Bernardino (2), Shasta (2), Tulare (2), and Ventura (2). These are the first WNV positive chickens detected in Ventura County this year. In 2012, 442 WNV antibody-positive chickens have been detected among 91 flocks in 21 counties. At this time last year, 296 WNV positive chickens had been detected from 15 counties.

California Arbovirus Surveillance Bulletin #33

Week 40 Friday, October 5, 2012

2011 & 2012 YTD West Nile Virus Comparisons		
	2011	2012
Total # Dead Bird Reports	8,708	18,088
# Positive Counties	32	41
# Human Cases	104	231
# Horse Cases	10	20
# Positive Dead Birds / # Tested	587 / 2,135	1,456 / 3701
# Positive Mosquito Pools / # Tested	1,974 / 29,413	2,632 / 29,224
# Seroconversions / # Tested	296 / 18,846	442 / 19,713
# Positive Squirrels / # Tested	15 / 85	16 / 148

YTD WNV Activity by Element and County, 2012						
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels*
Alameda			13			1
Butte	8	1	47	27	42	2
Calaveras		1				
Colusa	2		5		6	
Contra Costa	2		57	19	7	
El Dorado			5			
Fresno	16	3	24	139		
Glenn	6	1	15	4	8	
Imperial	1			4	9	
Kern	21	2	14	541	67	
Kings	3		2	96		
La ke			9	22	3	
Los Angeles	47		189	234	86	10
Madera	1		1	14		
Mendocino			5			
Merced	11	1	41	4		
Monterey	1					
Napa			1	1		
Nevada			2			
Orange	19		67	46		
Placer	6		57	107	8	
Riverside	10		3	123	49	
Sacramento	15	2	461	485	36	
San Bernardino	9		33	53	40	
San Diego	1					
San Francisco	1		1			
San Joaquin	9	2	53	152		
San Luis Obispo			1			
San Mateo			4			
Santa Clara			17	3		2
Santa Cruz			1			
Shasta		4	23	17	5	1
Solano	1		27	3	1	
Sonoma			5	3	1	
Stanislaus	21	1	49	207	8	
Sutter	6		25	19	36	
Tehama	1		5			
Tulare	3		50	138	11	
Ventura	2		35	2	2	
Yolo	5	1	98	154	4	
Yuba	3	1	11	15	13	
Totals	231	20	1,456	2,632	442	16

California Arbovirus Surveillance Bulletin #33

Week 40 Friday, October 5, 2012

TESTING SUMMARIES

Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	49	0	0	0	0	0
	YTD	231	0	0	0	0	0
Horse Cases	Week	0	0	0	0	0	0
	YTD	20	0	0	0	0	0

Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	149	78
	YTD	3,701	1,456
Squirrels	Week	16	5
	YTD	148	16

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	440	22	0	0
	YTD	19,713	442	0	0
Mosquito Pools	Week	1,084	91	0	0
	YTD	29,224	2,632	0	0

POSITIVES: WEEK 40

Humans

WNV Cases							
ID	Report Date	County	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
12-0183	09/27/12	LOS ANGELES	46	F	WNND	08/18/12	NO
12-0184	09/27/12	LOS ANGELES	54	M	WNND	08/01/12	NO
12-0185	09/27/12	LOS ANGELES	35	M	WNND	09/07/12	NO
12-0186	09/27/12	LOS ANGELES	49	M	WNF	08/28/12	NO
12-0187	09/27/12	LOS ANGELES	85	M	WNND	08/31/12	YES
12-0188	09/27/12	LOS ANGELES	69	F	WNND	09/06/12	NO
12-0189	09/27/12	LOS ANGELES	71	M	WNND	08/09/12	NO
12-0190	09/27/12	LOS ANGELES	40	F	WNF	09/01/12	NO
12-0191	09/27/12	LOS ANGELES	61	M	WNND	09/08/12	NO
12-0192	09/27/12	LOS ANGELES	66	F	WNND	09/10/12	NO

California Arbovirus Surveillance Bulletin #33

Week 40 Friday, October 5, 2012

12-0193	09/27/12	LOS ANGELES	66	F	WNND	09/08/12	NO
12-0194	09/27/12	LOS ANGELES	50	M	WNF	08/13/12	NO
12-0195	09/27/12	LOS ANGELES	92	M	WNF	09/09/12	NO
12-0196	09/27/12	LOS ANGELES	71	M	WNND	08/06/12	NO
12-0197	09/27/12	LOS ANGELES	51	M	WNND	09/04/12	NO
12-0198	09/27/12	LOS ANGELES	66	F	WNND	09/03/12	NO
12-0199	09/27/12	ORANGE	55	F	WNND	Week 34	NO
12-0200	09/27/12	ORANGE	74	M	WNND	Week 37	NO
12-0201	09/27/12	ORANGE	40	M	WNF	Week 37	NO
12-0202	09/27/12	ORANGE	69	F	WNF	Week 35	NO
12-0203	09/27/12	ORANGE	59	M	WNF	Week 34	NO
12-0204	09/27/12	RIVERSIDE	12	F	WNF	09/04/12	NO
12-0205	09/27/12	YOLO	>18	M	WNF	09/06/12	NO
12-0206	09/27/12	GLENN	>18	F	WNND	N/A	NO
12-0207	09/27/12	BUTTE	>18	F	WNF	08/24/12	NO
12-0208	09/27/12	SACRAMENTO	65	F	N/A	N/A	NO
12-0209	09/28/12	FRESNO	84	F	WNND	N/A	YES
12-0210	09/28/12	MERCED	>18	F	WNF	09/18/12	NO
12-0211	09/28/12	MERCED	>18	F	WNND	09/01/12	NO
12-0212	10/01/12	MERCED	>18	F	WNND	09/17/12	NO
12-0213	10/01/12	SAN DIEGO	42	M	WNF	09/04/12	NO
12-0214	10/01/12	KERN	62	F	WNF	09/06/12	NO
12-0215	10/01/12	BUTTE	>18	M	WNF	09/05/12	NO
12-0216	10/01/12	STANISLAUS	16	F	WNF	09/11/12	NO
12-0217	10/01/12	STANISLAUS	49	M	WNND	09/18/12	NO
12-0218	10/01/12	STANISLAUS	55	F	WNND	09/15/12	NO
12-0219	10/01/12	SAN BERNARDINO	31	F	WNF	09/13/12	NO
12-0220	10/01/12	SAN BERNARDINO	68	F	WNF	09/03/12	NO
12-0221	10/02/12	KINGS	>18	M	WNF	N/A	NO
12-0222	10/02/12	SAN JOAQUIN	57	F	WNF	07/31/12	NO
12-0223	10/02/12	MONTEREY	55	M	WNND	08/28/12	NO
12-0224	10/02/12	SAN JOAQUIN	48	M	WNF	08/31/12	NO
12-0225	10/02/12	STANISLAUS	43	M	WNF	09/08/12	NO
12-0226	10/02/12	FRESNO	34	F	WNF	09/12/12	NO
12-0227	10/02/12	ORANGE	81	M	WNND	Week 38	NO
12-0228	10/03/12	PASADENA CITY	80	F	WNF	09/09/12	NO
12-0229	10/03/12	ORANGE	18	M	WNF	Week 37	NO
12-0230	10/03/12	ORANGE	46	F	WNF	Week 38	NO
12-0231	10/03/12	KINGS	>18	M	WNF	N/A	NO

California Arbovirus Surveillance Bulletin #33

Week 40 Friday, October 5, 2012

Presumptive Viremic Blood Donors (Asymptomatic Infections)							
ID	Report Date	County	Age	Sex			
BD12-0027	09/24/12	LONG BEACH CITY	58	M			
BD12-0028	09/27/12	LOS ANGELES	21	F			
BD12-0029	09/27/12	LOS ANGELES	62	M			
BD12-0030	09/27/12	LOS ANGELES	43	M			
BD12-0031	09/27/12	ORANGE	34	M			
BD12-0032	09/27/12	SACRAMENTO	49	M			
BD12-0033	09/28/12	ORANGE	55	M			
BD12-0034	09/28/12	FRESNO	74	M			
BD12-0035	10/01/12	YOLO	>18	M			
BD12-0036	10/03/12	ORANGE	25	M			

Dead Birds & Squirrels

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Butte	Butte MVCD	Chico	95926	American Crow	9/20/2012	WNV	Chronic	RT-PCR
Butte	Butte MVCD	Chico	95926	Song Sparrow	9/24/2012	WNV	Chronic	RT-PCR
Butte	Butte MVCD	Chico	95926	American Crow	9/20/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95928	Goldfinch	9/19/2012	WNV	Chronic	RT-PCR
Butte	Butte MVCD	Chico	95928	House Sparrow	9/25/2012	WNV	Chronic	RT-PCR
Butte	Butte MVCD	Durham	95938	American Robin	9/19/2012	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Discovery Bay	94505	Western Scrub-Jay	9/21/2012	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	10/2/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	10/3/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	9/25/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	10/1/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Pleasant Hill	94523	Western Scrub-Jay	9/19/2012	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Pleasant Hill	94523	American Crow	9/27/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Oakley	94561	Western Scrub-Jay	9/21/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Walnut Creek	94597	American Crow	9/28/2012	WNV	Recent	RAMP
Fresno	Fresno MVCD	Kerman	93630	American Crow	9/20/2012	WNV	Recent	RT-PCR
Fresno	Fresno MVCD	Fresno	93722	European Starling	9/20/2012	WNV	Chronic	RT-PCR
Fresno	Fresno W MAD	Mendota	93640	American Crow	9/19/2012	WNV	Recent	RT-PCR
Lake	Lake Co VCD	Clearlake Oaks	95423	Western Scrub-Jay	9/21/2012	WNV	Recent	RT-PCR
Lake	Lake Co VCD	Kelseyville	95451	Western Scrub-Jay	9/18/2012	WNV	Recent	RT-PCR
Los Angeles	Antelope Vall. MVCD	Quartz Hill	93536	House Sparrow	9/26/2012	WNV	Chronic	RT-PCR
Los Angeles	LA VCD - SFS	Downey	90241	American Crow	9/3/2012	WNV	Recent	RT-PCR
Los Angeles	LA VCD - SFS	Whittier	90605	American Crow	9/17/2012	WNV	Recent	RT-PCR
Los Angeles	LA VCD - SFS	Norwalk	90650	Seagull	9/19/2012	WNV	Chronic	RT-PCR

California Arbovirus Surveillance Bulletin #33

Week 40 Friday, October 5, 2012

Los Angeles	LA VCD - SFS	Cerritos	90703	American Crow	9/12/2012	WNV	Recent	RT-PCR
Los Angeles	LA VCD - SFS	Bellflower	90706	American Crow	7/23/2012	WNV	Recent	RT-PCR
Los Angeles	LA VCD - SFS	Long Beach	90808	Bluebird	9/25/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	90024	Fox Squirrel	9/11/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Woodland Hills	91367	Fox Squirrel	9/25/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Sherman Oaks	91401	Fox Squirrel	9/25/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Sherman Oaks	91403	Fox Squirrel	9/25/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Van Nuys	91406	Fox Squirrel	9/21/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	North Hollywood	91601	Fox Squirrel	9/11/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	90016	American Crow	9/19/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	90019	American Crow	9/22/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	90025	American Crow	9/18/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Santa Monica	90402	American Crow	9/25/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Santa Monica	90404	American Crow	9/24/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Santa Monica	90404	American Crow	9/24/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Agoura Hills	91301	American Crow	9/15/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Mission Hills	91345	Western Scrub-Jay	9/24/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Woodland Hills	91367	American Crow	9/22/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Studio City	91604	American Crow	9/18/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	91607	American Crow	9/17/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90034	American Crow	9/25/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90049	American Crow	9/18/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90064	American Crow	9/19/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90066	American Crow	9/21/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90066	Common Raven	9/23/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90066	House Finch	9/24/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Beverly Hills	90210	House Sparrow	9/20/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90230	American Crow	9/24/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90230	American Crow	9/20/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90230	American Crow	9/20/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90232	Common Raven	9/20/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90232	American Crow	9/25/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90232	American Crow	9/19/2012	WNV	Recent	RT-PCR
Los Angeles	San Gabriel Vall. MVCD	Altadena	91001	American Crow	9/27/2012	WNV	Recent	RAMP
Mendocino	Mendocino EHD	Ukiah	95482	Common Raven	9/24/2012	WNV	Recent	RT-PCR
Mendocino	Mendocino EHD	Ukiah	95482	Western Scrub-Jay	9/26/2012	WNV	Recent	RT-PCR
Merced	Merced MAD	Dos Palos	93620	American Crow	9/24/2012	WNV	Recent	RT-PCR
Merced	Merced MAD	Merced	95341	American Crow	9/24/2012	WNV	Recent	RT-PCR
Napa	Napa MAD	American Canyon	94503	Pacific-slope Flycatcher	9/25/2012	WNV	Chronic	RT-PCR
Orange	Orange VCD	San Juan Capistrano	92675	American Crow	9/24/2012	WNV	Recent	RT-PCR
Orange	Orange VCD	Tustin	92705	American Crow	9/27/2012	WNV	Recent	RT-PCR
Orange	Orange VCD	Garden Grove	92840	American Crow	9/26/2012	WNV	Recent	RT-PCR
Orange	Orange VCD	Villa Park	92861	American Crow	9/25/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95661	MacGillivray's Warbler	9/13/2012	WNV	Chronic	RT-PCR
San Bernardino	San Bernardino VCP	Upland	91786	American Crow	9/20/2012	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Chino	91710	American Crow	9/19/2012	WNV	Chronic	RT-PCR
San Bernardino	West Valley MVCD	Rancho Cucamonga	91730	American Crow	9/19/2012	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Rancho Cucamonga	91730	White-crowned Sparrow	9/19/2012	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Ontario	91761	American Crow	9/21/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Tracy	95304	American Crow	9/28/2012	WNV	Recent	RT-PCR

California Arbovirus Surveillance Bulletin #33

Week 40 Friday, October 5, 2012

San Mateo	San Mateo MAD	Hillsborough	94010	Cooper's Hawk	9/25/2012	WNV	Chronic	RT-PCR
Santa Clara	Santa Clara VCD	Morgan Hill	95037	White-tailed Kite	9/20/2012	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95125	American Crow	10/2/2012	WNV	Recent	VecTest
Santa Clara	Santa Clara VCD	San Jose	95126	Red-tailed Hawk	9/26/2012	WNV	Chronic	RT-PCR
Shasta	Shasta MVCD	Redding	96002	Western Scrub-Jay	9/24/2012	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Redding	96002	Western Scrub-Jay	10/4/2012	WNV	Recent	RAMP
Shasta	Shasta MVCD	Redding	96003	American Crow	9/26/2012	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Anderson	96007	Western Scrub-Jay	9/24/2012	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Anderson	96007	Western Scrub-Jay	10/3/2012	WNV	Recent	RAMP
Shasta	Shasta MVCD	Cottonwood	96022	Western Gray Squirrel	9/24/2012	WNV	Chronic	RT-PCR
Shasta	Shasta MVCD	Cottonwood	96022	Western Scrub-Jay	10/4/2012	WNV	Recent	RAMP
Shasta	Shasta MVCD	Cottonwood, CA	96022	Western Scrub-Jay	10/4/2012	WNV	Recent	RAMP
Shasta	Shasta MVCD	Palo Cedro	96073	American Crow	9/28/2012	WNV	Recent	RAMP
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95401	American Crow	9/18/2012	WNV	Recent	RT-PCR
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95403	American Crow	9/25/2012	WNV	Recent	RT-PCR
Stanislaus	East Side MAD	Oakdale	95361	Western Scrub-Jay	9/20/2012	WNV	Recent	RT-PCR
Stanislaus	East Side MAD	Oakdale	95361	Western Scrub-Jay	9/20/2012	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Ceres	95307	American Crow	9/19/2012	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Turlock	95380	Western Scrub-Jay	9/17/2012	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Live Oak	95953	Western Scrub-Jay	9/24/2012	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Yuba City	95991	Warbler	9/24/2012	WNV	Chronic	RT-PCR
Sutter	Sutter-Yuba MVCD	Yuba City	95991	Western Scrub-Jay	9/23/2012	WNV	Recent	RT-PCR
Tehama	Tehama Co MVCD	Red Bluff	96080	House Finch	9/20/2012	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93277	Western Scrub-Jay	9/17/2012	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93292	Western Scrub-Jay	9/18/2012	WNV	Recent	RT-PCR
Tulare	Tulare MAD	Tulare	93274	American Crow	9/20/2012	WNV	Recent	RT-PCR
Ventura	Ventura EHD	Westlake Village	91361	House Finch	9/24/2012	WNV	Chronic	RT-PCR
Ventura	Ventura EHD	Simi Valley	93065	American Crow	9/25/2012	WNV	Recent	RT-PCR
Ventura	Ventura EHD	Simi Valley	93065	American Crow	9/25/2012	WNV	Recent	RT-PCR
Ventura	Vernon Health	Westlake Village	91361	House Finch	9/24/2012	WNV	Chronic	RT-PCR

Mosquito Pools

County	Site Code	Pool #	City	Species	# in Pool	Trap Type	Collected	Virus	Method
Butte	BUCO55	164	Palermo	Cx. tarsalis	50	CO2	9/25/12	WNV	RTPCR
Fresno	FRWS400003	332	Mendota	Cx. tarsalis	44	OTHER	10/2/12	WNV	RTPCR
Fresno	FRWS400006	317	Mendota	Cx. tarsalis	50	CO2	10/2/12	WNV	RTPCR
Fresno	FRWS400006	318	Mendota	Cx. tarsalis	50	CO2	10/2/12	WNV	RTPCR
Fresno	FRWS4102	333	Kerman	Cx. tarsalis	50	CO2	10/2/12	WNV	RTPCR
Fresno	FRWS4102	334	Kerman	Cx. quinquefasciatus	50	CO2	10/2/12	WNV	RTPCR
Kern	KERN1002	2367	Bakersfield	Cx. quinquefasciatus	50	GRVD	9/24/12	WNV	RTPCR
Kern	KERN1137	2508	Bakersfield	Cx. quinquefasciatus	50	CO2	9/27/12	WNV	RTPCR
Kern	KERN114	2456	Bakersfield	Cx. tarsalis	50	CO2	9/26/12	WNV	RTPCR
Kern	KERN115	2419	Bakersfield	Cx. tarsalis	50	CO2	9/25/12	WNV	RTPCR
Kern	KERN2002	2481	Bakersfield	Cx. quinquefasciatus	50	GRVD	9/27/12	WNV	RTPCR
Kern	KERN2018	2407	Bakersfield	Cx. quinquefasciatus	50	GRVD	9/25/12	WNV	RTPCR
Kern	KERN2021	2438	Wasco	Cx. quinquefasciatus	50	GRVD	9/26/12	WNV	RTPCR
Kern	KERN2022	2441	Shafter	Cx. quinquefasciatus	39	GRVD	9/26/12	WNV	RTPCR
Kern	KERN2025	2497	Bakersfield	Cx. quinquefasciatus	50	GRVD	9/27/12	WNV	RTPCR
Kern	KERN2031	2500	Bakersfield	Cx. quinquefasciatus	50	GRVD	9/27/12	WNV	RTPCR
Kern	KERN2043	2498	Bakersfield	Cx. quinquefasciatus	50	GRVD	9/27/12	WNV	RTPCR

California Arbovirus Surveillance Bulletin #33

Week 40 Friday, October 5, 2012

Kern	KERN2043	2499	Bakersfield	Cx. quinquefasciatus	50	GRVD	9/27/12	WNV	RTPCR
Kern	KERN3014	2472	Bakersfield	Cx. tarsalis	24	CO2	9/26/12	WNV	RTPCR
Kern	KERN3024	2375	Bakersfield	Cx. quinquefasciatus	50	CO2	9/24/12	WNV	RTPCR
Kern	KERN3027	2381	Arvin	Cx. quinquefasciatus	50	CO2	9/24/12	WNV	RTPCR
Kern	KERN3029	2424	Buttonwillow	Cx. quinquefasciatus	50	CO2	9/25/12	WNV	RTPCR
Kern	KERN3029	2425	Buttonwillow	Cx. quinquefasciatus	50	CO2	9/25/12	WNV	RTPCR
Kern	KERN3030	2478	Shafter	Cx. quinquefasciatus	50	CO2	9/26/12	WNV	RTPCR
Kern	KERN7	2513	Famoso	Cx. quinquefasciatus	50	CO2	9/27/12	WNV	RTPCR
Kern	KERN7	2516	Famoso	Cx. tarsalis	50	CO2	9/27/12	WNV	RTPCR
Kern	KERN83	2467	Arvin	Cx. tarsalis	50	CO2	9/26/12	WNV	RTPCR
Kern	KERN9	2507	Bakersfield	Cx. quinquefasciatus	34	CO2	9/27/12	WNV	RTPCR
Kings	KNGS3027	679	Lemoore	Cx. erythrothorax	23	CO2	10/1/12	WNV	RTPCR
Kings	KNGS3062	654	Lemoore	Cx. pipiens	10	CO2	10/1/12	WNV	RTPCR
Lake	LAKE233	429	Clearlake Oaks	Cx. tarsalis	50	CO2	10/2/12	WNV	RTPCR
Lake	LAKE80	439		Cx. stigmatosoma	18	REST	10/1/12	WNV	RTPCR
Los Angeles	ANTV3166	21	Palmdale	Cx. quinquefasciatus	26	GRVD	10/2/12	WNV	RTPCR
Los Angeles	GRLA2329	1127	Whittier	Cx. quinquefasciatus	44	GRVD	9/25/12	WNV	RTPCR
Los Angeles	GRLA2335	1139	Whittier	Cx. quinquefasciatus	22	GRVD	9/26/12	WNV	RTPCR
Los Angeles	GRLA2347	1131	Montebello	Cx. quinquefasciatus	39	GRVD	9/25/12	WNV	RTPCR
Los Angeles	GRLA2355	1128	Pico Rivera	Cx. quinquefasciatus	50	GRVD	9/25/12	WNV	RTPCR
Los Angeles	GRLA2419	6100	Panorama City	Cx. quinquefasciatus	42	GRVD	9/25/12	WNV	RTPCR
Los Angeles	GRLA2421	6099	Panorama City	Cx. quinquefasciatus	19	GRVD	9/25/12	WNV	RTPCR
Los Angeles	GRLA2450	6117	Glendale	Cx. quinquefasciatus	32	GRVD	9/27/12	WNV	RTPCR
Los Angeles	GRLA2497	6105	La Canada Flintridge	Cx. quinquefasciatus	9	GRVD	9/26/12	WNV	RTPCR
Los Angeles	GRLA2593	6102	San Marino	Cx. quinquefasciatus	50	GRVD	9/26/12	WNV	RTPCR
Los Angeles	GRLA2593	6103	San Marino	Cx. quinquefasciatus	38	GRVD	9/26/12	WNV	RTPCR
Los Angeles	GRLA2636	6095	Van Nuys	Cx. quinquefasciatus	50	GRVD	9/25/12	WNV	RTPCR
Los Angeles	GRLA2637	6089	Van Nuys	Cx. quinquefasciatus	23	GRVD	9/25/12	WNV	RTPCR
Los Angeles	GRLA2937	6112	Burbank	Cx. quinquefasciatus	50	GRVD	9/27/12	WNV	RTPCR
Los Angeles	GRLA2938	6115	Burbank	Cx. quinquefasciatus	50	GRVD	9/27/12	WNV	RTPCR
Los Angeles	GRLA2938	6116	Burbank	Cx. quinquefasciatus	45	GRVD	9/27/12	WNV	RTPCR
Los Angeles	GRLA2953	1147	Santa Fe Springs	Cx. quinquefasciatus	37	GRVD	9/26/12	WNV	RTPCR
Los Angeles	GRLA2954	1146	Cerritos	Cx. quinquefasciatus	24	GRVD	9/26/12	WNV	RTPCR
Los Angeles	GRLA3045	1150	Whittier	Cx. quinquefasciatus	50	GRVD	9/26/12	WNV	RTPCR
Los Angeles	GRLA3045	1151	Whittier	Cx. quinquefasciatus	23	GRVD	9/26/12	WNV	RTPCR
Los Angeles	LACW1049	313	Inglewood	Cx. quinquefasciatus	32	GRVD	10/2/12	WNV	RTPCR
Madera	MADR28	128		Cx. quinquefasciatus	50	CO2	9/21/12	WNV	RTPCR
Madera	MADR28	129		Cx. quinquefasciatus	50	CO2	9/21/12	WNV	RTPCR
Orange	ORCO103	1219	Fullerton	Cx. quinquefasciatus	13	GRVD	9/25/12	WNV	RTPCR
Orange	ORCO169	1206	Orange	Cx. quinquefasciatus	42	CO2	9/20/12	WNV	RTPCR
Orange	ORCO2	1231	Fullerton	Cx. quinquefasciatus	12	GRVD	9/25/12	WNV	RTPCR
Orange	ORCO202	1226	Fullerton	Cx. quinquefasciatus	17	GRVD	9/25/12	WNV	RTPCR
Riverside	NWST103	361		Cx. quinquefasciatus	30	GRVD	9/19/12	WNV	RTPCR
Riverside	NWST44	366	Norco	Cx. quinquefasciatus	3	GRVD	9/24/12	WNV	RTPCR
Riverside	NWST9402	370	Corona	Cx. tarsalis	50	CO2	9/24/12	WNV	RTPCR
San Joaquin	SJCM8029	1227	Farmington	Cx. pipiens	16	CO2	10/2/12	WNV	RTPCR
San Joaquin	SJCM8032	1231	Escalon	Cx. pipiens	50	CO2	10/2/12	WNV	RTPCR
San Joaquin	SJCM8109	1306	Escalon	Cx. pipiens	11	CO2	10/4/12	WNV	RTPCR
San Joaquin	SJCM8157	1229	Manteca	Cx. tarsalis	6	CO2	10/2/12	WNV	RTPCR
Shasta	SHAS116	673	Anderson	Cx. tarsalis	18	CO2	10/2/12	WNV	RTPCR

California Arbovirus Surveillance Bulletin #33

Week 40 Friday, October 5, 2012

Shasta	SHAS20040	678	Redding	Cx. pipiens	24	CO2	10/3/12	WNV	RTPCR
Stanislaus	EAST1013	12246	Modesto	Cx. tarsalis	23	CO2	10/4/12	WNV	RAMP
Stanislaus	TRLK1224	1541	Ceres	Cx. pipiens	50	CO2	10/2/12	WNV	RTPCR
Stanislaus	TRLK1226	1553	Patterson	Cx. pipiens	50	CO2	10/2/12	WNV	RTPCR
Stanislaus	TRLK307	1516	Grayson	Cx. pipiens	50	CO2	9/25/12	WNV	RTPCR
Stanislaus	TRLK424	1558	Patterson	Cx. pipiens	50	CO2	10/2/12	WNV	RTPCR
Stanislaus	TRLK426	1567	Patterson	Cx. pipiens	50	CO2	10/2/12	WNV	RTPCR
Stanislaus	TRLK426	1568	Patterson	Cx. pipiens	50	CO2	10/2/12	WNV	RTPCR
Stanislaus	TRLK426	1569	Patterson	Cx. pipiens	50	CO2	10/2/12	WNV	RTPCR
Stanislaus	TRLK426	1571	Patterson	Cx. pipiens	50	CO2	10/2/12	WNV	RTPCR
Stanislaus	TRLK426	1574	Patterson	Cx. pipiens	50	CO2	10/2/12	WNV	RTPCR
Stanislaus	TRLK426	1577	Patterson	Cx. pipiens	50	CO2	10/2/12	WNV	RTPCR
Stanislaus	TRLK426	1585	Patterson	Cx. tarsalis	50	CO2	10/2/12	WNV	RTPCR
Stanislaus	TRLK426	1586	Patterson	Cx. tarsalis	44	CO2	10/2/12	WNV	RTPCR
Stanislaus	TRLK437	1587	Patterson	Cx. pipiens	50	CO2	10/2/12	WNV	RTPCR
Stanislaus	TRLK437	1588	Patterson	Cx. pipiens	50	CO2	10/2/12	WNV	RTPCR
Tulare	DLTA6407	515	Dinuba	Cx. quinquefasciatus	43	GRVD	9/26/12	WNV	RTPCR
Tulare	DLTA8324	527	Goshen	Cx. quinquefasciatus	50	CO2	9/27/12	WNV	RTPCR
Tulare	DLTA8324	529	Goshen	Cx. quinquefasciatus	12	GRVD	9/27/12	WNV	RTPCR
Tulare	DLTA8324	436	Goshen	Cx. quinquefasciatus	42	GRVD	9/13/12	WNV	RTPCR
Tulare	DLTA8324	443	Goshen	Cx. quinquefasciatus	12	CO2	9/13/12	WNV	RTPCR
Tulare	DLTA7316	558	Traver	Cx. quinquefasciatus	50	CO2	10/3/12	WNV	RTPCR
Tulare	DLTA7316	564	Traver	Cx. quinquefasciatus	10	GRVD	10/3/12	WNV	RTPCR
Tulare	DLTA9606	545	Farmersville	Cx. quinquefasciatus	48	GRVD	9/28/12	WNV	RTPCR

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03
Butte	BUCO0003	Oroville	9/25/2012	WNV	1530		
Contra Costa	CNTR7402	Oakley	9/24/2012	WNV	1635		
Glenn	GLEN9701	Willows	9/26/2012	WNV	1682		
Kern	AFSB0107	Bakersfield	10/01/2012	WNV	4039		
Kern	AFSB0128	Bakersfield	10/01/2012	WNV	2096	2098	4032
Kern	AFSB0129	Bakersfield	10/01/2012	WNV	2084	4042	
Kern	AFSB0130	Bakersfield	10/01/2012	WNV	2003		
Kern	AFSB0132	Edison	10/01/2012	WNV	4029	4031	4043
Kern	DLNO0060	Delano	9/27/2012	WNV	1707		
San Bernardino	WVAL0009	Rancho Cucamonga	9/21/2012	WNV	3789	3794	
Shasta	SHAS0301	Redding	9/27/2012	WNV	2738	2740	
Tulare	DLNO0021	Earlimart	9/27/2012	WNV	1713	1714	
Ventura	MOOR0014	Moorpark	9/25/2012	WNV	2186	2189	

California Arbovirus Surveillance Bulletin #33

Week 40 Friday, October 5, 2012

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.

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.