

California Arbovirus Surveillance Bulletin #34

Week 41 Friday, October 12, 2012



Human Cases

A total of 35 new cases of West Nile virus (WNV) were reported this week from the following 9 counties: Butte (2), Colusa (1), Kern (1), Los Angeles (18), Merced (1), Orange (3), Placer (3), Tulare (4), and Ventura (2). As of October 11, 2012, a total of 266 human cases of WNV illness have been reported in 28 counties. Of the 266 cases, 158 (59%) had neuroinvasive illness. The median age of the 266 individuals is 54 years (range: 1-93 years); 153 (58%) are male. Dates of symptom onset for all cases ranged from May 23 to September 26, 2012. A total of 11 WNV-related fatalities have been reported to date in Fresno (2), Glenn (1), Kern (2), Los Angeles (2), Merced (1), Placer (1), and Sacramento (2) counties. A total of 49 WNV-positive blood donors have been reported this year; 15 individuals developed symptoms and were reclassified as cases.

At this time last year, 113 WNV cases had been reported from 20 counties.

National Comments: As of October 9, 2012, 4,249 cases had been reported nationwide from 47 states and the District of Columbia (DC). This is the highest number of cases reported through the second 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 4,249 cases, 2,123 (50%) were classified as neuroinvasive disease, and 168 (4%) died.

Horses

No new equine cases were reported this week. In 2012, 20 horses from 12 counties have tested positive for WNV; 6 (30%) died or were euthanized as a result of their illness. At this time last year, 12 equine cases of WNV from 7 counties had been reported.

Dead Birds & Squirrels

A total of 56 WNV positive dead birds were reported this week from 17 counties: Alameda (2), Butte (2), Contra Costa (5), Glenn (1), Lake (1), Los Angeles (22), Madera (1), Marin (1), Mendocino (1), Nevada (1), Orange (6), Riverside (1), San Mateo (1), Shasta (7), Solano (1), Sonoma (1), and Tulare (2). One tree squirrel tested positive for WNV in Los Angeles County. An additional 26 dead birds and 4 tree squirrels tested positive for chronic WNV infection (see Dead Bird Table for details). In 2012, 1,511 dead birds and 17 squirrels have tested positive for recent WNV infection from 38 and 5 counties, respectively. At this time last year, 617 dead birds from 25 counties and 17 tree squirrels from 4 counties had tested positive for WNV.

Mosquito Pools

A total of 72 WNV positive mosquito pools were reported this week from 13 counties: Fresno (2), Kern (15), Kings (4), Lake (1), Los Angeles (25), Orange (11), Placer (1), Riverside (2), Sacramento (2), San Bernardino (1), San Joaquin (4), Stanislaus (1), and Tulare (3). In 2012, 2,704 mosquito pools from 28 counties have tested positive for WNV. At this time last year, 2,002 mosquito pools had tested positive for WNV from 25 counties.

Sentinel Chickens

A total of 21 WNV seroconversions were reported this week from 15 flocks in 7 counties: Imperial (1), Lake (1), Los Angeles (10), Riverside (5), San Bernardino (2), Shasta (1), and Sutter (1). In 2012, 463 WNV antibody-positive chickens have been detected among 99 flocks in 21 counties. At this time last year, 311 WNV positive chickens had been detected from 15 counties.

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YTD WNV Activity by Element and County, 2012						
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Alameda			15			1
Butte	10	1	49	27	42	2
Calaveras		1				
Colusa	3		5		6	
Contra Costa	2		62	19	7	
El Dorado			5			
Fresno	16	3	24	141		
Glenn	6	1	16	4	8	
Imperial	1			4	10	
Kern	22	2	14	556	67	
Kings	3		2	100		
Lake			10	23	4	
Los Angeles	65		210	259	96	11
Madera	1		2	14		
Marin			1			
Mendocino			6			
Merced	12	1	41	4		
Monterey	1					
Napa			1	1		
Nevada			3			
Orange	22		73	57		
Placer	9		57	108	8	
Riverside	10		4	125	54	
Sacramento	15	2	461	487	36	
San Bernardino	9		33	54	42	
San Diego	1					
San Francisco	1		1			
San Joaquin	9	2	53	156		
San Luis Obispo			1			
San Mateo			5			
Santa Clara			17	3		2
Santa Cruz			1			
Shasta		4	30	17	6	1
Solano	1		28	3	1	
Sonoma			6	3	1	
Stanislaus	21	1	49	208	8	
Sutter	6		25	19	37	
Tehama	1		5			
Tulare	7		52	141	11	
Ventura	4		35	2	2	
Yolo	5	1	98	154	4	
Yuba	3	1	11	15	13	
Totals	266	20	1,511	2,704	463	17

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2011 & 2012 YTD West Nile Virus Comparisons		
	2011	2012
Total # Dead Bird Reports	8,938	18,691
# Positive Counties	33	42
# Human Cases	113	266
# Horse Cases	12	20
# Positive Dead Birds / # Tested	617 / 2,198	1,511 / 3,822
# Positive Mosquito Pools / # Tested	2,002 / 30,088	2,704 / 30,247
# Seroconversions / # Tested	311 / 19,619	463 / 20,208
# Positive Squirrels / # Tested	17 / 90	17 / 156

TESTING SUMMARIES

Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	35	0	0	0	0	0
	YTD	266	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	123	56
	YTD	3,822	1,511
Squirrels	Week	8	1
	YTD	156	17

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	495	21	0	0
	YTD	20,208	463	0	0
Mosquito Pools	Week	1,023	72	0	0
	YTD	30,247	2,704	0	0

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POSITIVES: WEEK 41

Humans

WNV Cases							
ID	Report Date	County	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
12-0232	10/04/12	LOS ANGELES	52	M	WNF	09/17/12	NO
12-0233	10/04/12	LOS ANGELES	69	F	WNND	09/09/12	NO
12-0234	10/04/12	LOS ANGELES	71	M	WNF	09/21/12	NO
12-0235	10/04/12	LOS ANGELES	80	M	WNND	09/03/12	NO
12-0236	10/04/12	LOS ANGELES	68	F	WNF	09/12/12	NO
12-0237	10/04/12	LOS ANGELES	21	M	WNND	09/01/12	NO
12-0238	10/04/12	LOS ANGELES	81	M	WNF	09/07/12	NO
12-0239	10/04/12	LOS ANGELES	82	F	WNND	09/15/12	NO
12-0240	10/04/12	LOS ANGELES	49	M	WNND	09/14/12	NO
12-0241	10/04/12	LOS ANGELES	20	M	WNND	09/09/12	NO
12-0242	10/04/12	LOS ANGELES	64	F	WNF	08/28/12	NO
12-0243	10/04/12	LOS ANGELES	29	F	WNND	09/10/12	NO
12-0244	10/04/12	LOS ANGELES	36	F	WNND	09/16/12	NO
12-0245	10/04/12	LOS ANGELES	53	M	WNF	09/04/12	NO
12-0246	10/04/12	LOS ANGELES	67	M	WNND	09/09/12	NO
12-0247	10/04/12	LOS ANGELES	21	F	WNND	09/14/12	NO
12-0248	10/04/12	LOS ANGELES	46	F	WNND	09/15/12	NO
12-0249	10/04/12	PASADENA CITY	51	M	WNF	09/24/12	NO
12-0250	10/05/12	MERCED	>18	M	WNND	08/29/12	NO
12-0251	10/05/12	VENTURA	>18	N/A	WNND	N/A	NO
12-0252	10/05/12	VENTURA	>18	N/A	WNND	N/A	NO
12-0253	10/05/12	PLACER	>18	F	WNND	09/04/12	NO
12-0254	10/05/12	ORANGE	49	M	WNF	N/A	NO
12-0255	10/05/12	PLACER	>18	M	WNND	09/20/12	NO
12-0256	10/05/12	PLACER	>18	M	WNF	09/06/12	NO
12-0257	10/08/12	BUTTE	<18	M	WNF	09/22/12	NO
12-0258	10/08/12	KERN	51	M	WNND	09/12/12	NO
12-0259	10/09/12	ORANGE	25	M	WNF	Week 39	NO
12-0260	10/09/12	ORANGE	57	M	WNND	Week 38	NO
12-0261	10/10/12	TULARE	28	M	WNND	09/08/12	NO
12-0262	10/10/12	TULARE	75	M	WNND	08/25/12	NO
12-0263	10/10/12	TULARE	41	F	WNND	08/21/12	NO
12-0264	10/10/12	TULARE	55	M	WNND	08/14/12	NO
12-0265	10/10/12	BUTTE	>18	M	WNF	08/22/12	NO
12-0266	10/10/12	COLUSA	>18	N/A	WNND	09/26/12	NO

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Presumptive Viremic Blood Donors (Asymptomatic Infections)							
ID	Report Date	County	Age	Sex			
BD12-0037	10/04/12	LOS ANGELES	67	M			
BD12-0038	10/10/12	TULARE	43	F			
BD12-0039	10/10/12	TULARE	46	F			

Dead Birds & Squirrels

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Alameda	Alameda MAD	Fremont	94536	Hummingbird	9/26/2012	WNV	Chronic	RT-PCR
Alameda	Alameda MAD	Hayward	94544	Song Sparrow	10/1/2012	WNV	Chronic	RT-PCR
Alameda	Alameda MAD	Livermore	94550	Yellow-billed Magpie	9/28/2012	WNV	Recent	RT-PCR
Alameda	Alameda MAD	Livermore	94550	American Crow	9/28/2012	WNV	Recent	RT-PCR
Alameda	Alameda MAD	Pleasanton	94566	House Finch	10/1/2012	WNV	Chronic	RT-PCR
Butte	Butte MVCD	Oroville	95966	Brewer's Blackbird	9/27/2012	WNV	Chronic	RT-PCR
Butte	Butte MVCD	Paradise	95969	Western Scrub-Jay	9/27/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95973	Western Scrub-Jay	9/26/2012	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	9/26/2012	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Knightsen	94513	American Crow	10/5/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Concord	94519	Western Scrub-Jay	9/27/2012	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Concord	94521	Western Scrub-Jay	10/8/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Oakley	94561	Western Scrub-Jay	9/28/2012	WNV	Recent	RT-PCR
Fresno	Fresno MVCD	Fresno	93703	Fox Squirrel	10/11/2012	WNV	Chronic	RT-PCR
Fresno	Fresno MVCD	Fresno	93704	Common Raven	10/3/2012	WNV	Chronic	RT-PCR
Glenn	Glenn MVCD	Glenn	95943	Bluebird	9/26/2012	WNV	Recent	RT-PCR
Kern	Delano MAD	Delano	93215	Peacock	9/27/2012	WNV	Chronic	RT-PCR
Lake	Lake VCD	Clearlake	95422	American Crow	9/27/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Los Angeles	90013	American Crow	9/26/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Los Angeles	90064	Fox Squirrel	10/2/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Veterinarian	Los Angeles	90066	Fox Squirrel	10/2/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Santa Monica	90403	American Crow	9/28/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Santa Monica	90405	American Crow	9/27/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Santa Monica	90405	American Crow	9/26/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Glendale	91207	American Crow	9/25/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Sherman Oaks	91423	Fox Squirrel	10/2/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co West VCD	Calabasas	91302	Song Sparrow	10/1/2012	WNV	Chronic	RT-PCR
Los Angeles	LA VCD - Sylmar	Hollywood	90068	Great Horned Owl	10/2/2012	WNV	Chronic	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90006	American Crow	10/1/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90025	American Crow	10/2/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Westchester	90045	American Crow	9/28/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Westchester	90045	American Crow	9/27/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	W Hollywood	90046	American Crow	9/27/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90064	House Sparrow	9/26/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90066	American Crow	9/28/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90230	American Crow	9/27/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90230	American Crow	9/27/2012	WNV	Recent	RT-PCR

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Los Angeles	LA West VCD	Culver City	90230	American Crow	10/1/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90232	American Crow	9/28/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90232	American Crow	9/26/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90232	American Crow	10/2/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90232	American Crow	10/1/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90232	American Crow	9/28/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Santa Monica	90401	American Crow	10/1/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Santa Monica	90405	American Crow	10/1/2012	WNV	Recent	RT-PCR
Madera	Madera Co MVCD	Madera	93638	House Sparrow	9/28/2012	WNV	Recent	RT-PCR
Marin	Marin-So. MVCD	Ross	94957	Hermit Thrush	9/28/2012	WNV	Recent	RT-PCR
Mendocino	Mendocino EHD	Ukiah	95482	American Crow	10/1/2012	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Merced	95348	Vulture	10/1/2012	WNV	Chronic	RT-PCR
Nevada	Nevada Co EH	Grass Valley	95949	Turkey	9/28/2012	WNV	Chronic	RT-PCR
Nevada	Nevada EH	Penn Valley	95946	Western Scrub-Jay	10/1/2012	WNV	Recent	RT-PCR
Orange	Orange VCD	Buena Park	90621	House Sparrow	10/2/2012	WNV	Chronic	RT-PCR
Orange	Orange VCD	Rossmoor	90720	American Crow	9/26/2012	WNV	Recent	RT-PCR
Orange	Orange VCD	Rossmoor	90720	American Crow	9/29/2012	WNV	Recent	RT-PCR
Orange	Orange VCD	Huntington Beach	92647	American Crow	10/3/2012	WNV	Recent	RT-PCR
Orange	Orange VCD	Santa Ana	92706	American Crow	10/3/2012	WNV	Recent	RT-PCR
Orange	Orange VCD	Orange	92866	Rock Dove	10/1/2012	WNV	Chronic	RT-PCR
Orange	Orange VCD	Orange	92867	American Crow	10/1/2012	WNV	Recent	RT-PCR
Orange	Orange VCD	Placentia	92870	American Crow	10/1/2012	WNV	Recent	RT-PCR
Riverside	Riverside PS	Riverside	92507	American Crow	10/2/2012	WNV	Recent	RT-PCR
San Bernardino	San Bern. VCP	Colton	92324	Savannah Sparrow	10/1/2012	WNV	Chronic	RT-PCR
San Francisco	SF EHD	San Francisco	94123	Song Sparrow	10/1/2012	WNV	Chronic	RT-PCR
San Francisco	SF EHD	San Francisco	94132	American Robin	9/28/2012	WNV	Chronic	RT-PCR
San Luis Obispo	SLO Animal Serv.	San Luis Obispo	93405	American Goldfinch	9/27/2012	WNV	Chronic	RT-PCR
San Mateo	San Mateo MAD	Belmont	94002	American Crow	9/27/2012	WNV	Recent	RT-PCR
San Mateo	San Mateo MAD	San Carlos	94070	House Finch	9/27/2012	WNV	Chronic	RT-PCR
San Mateo	San Mateo MAD	Foster City	94404	Hermit Thrush	9/26/2012	WNV	Chronic	RT-PCR
Santa Cruz	Santa Cruz MVCD	Santa Cruz	95060	Fox Squirrel	10/3/2012	WNV	Chronic	RT-PCR
Shasta	Shasta MVCD	Redding	96001	Western Scrub-Jay	10/5/2012	WNV	Recent	RAMP
Shasta	Shasta MVCD	Redding	96001	American Crow	10/8/2012	WNV	Recent	RAMP
Shasta	Shasta MVCD	Redding	96002	Steller's Jay	10/10/2012	WNV	Recent	RAMP
Shasta	Shasta MVCD	Redding	96002	Western Scrub-Jay	10/9/2012	WNV	Recent	RAMP
Shasta	Shasta MVCD	Anderson	96007	Western Scrub-Jay	10/8/2012	WNV	Recent	RAMP
Shasta	Shasta MVCD	Anderson	96007	Yellow-billed Magpie	10/10/2012	WNV	Recent	RAMP
Shasta	Shasta MVCD	Shasta Lake	96019	American Crow	10/8/2012	WNV	Recent	RAMP
Solano	Solano MAD	Rio Vista	94571	American Crow	9/20/2012	WNV	Recent	RAMP
Sonoma	Marin-Son. MVCD	Cloverdale	95425	American Crow	10/1/2012	WNV	Recent	RT-PCR
Sonoma	Marin-Son.MVCD	Petaluma	94952	Golden-Crowned Sparrow	10/1/2012	WNV	Chronic	RT-PCR
Sonoma	Marin-Son. MVCD	Santa Rosa	95409	Fox Sparrow	9/27/2012	WNV	Chronic	RT-PCR
Sonoma	Marin-Son. MVCD	Sebastopol	95472	Black Phoebe	9/28/2012	WNV	Chronic	RT-PCR
Sonoma	Marin-Son. MVCD	Sonoma	95476	Fox Sparrow	9/28/2012	WNV	Chronic	RT-PCR
Stanislaus	East Side MAD	Modesto	95350	House Sparrow	10/1/2012	WNV	Chronic	RT-PCR
Stanislaus	East Side MAD	Modesto	95350	Rock Dove	10/3/2012	WNV	Chronic	RT-PCR
Tulare	Delta VCD	Visalia	93277	House Sparrow	10/1/2012	WNV	Chronic	RT-PCR
Tulare	Delta VCD	Visalia	93277	Evening Grosbeak	9/27/2012	WNV	Recent	RT-PCR
Tulare	Delta VCD	Dinuba	93618	Barn Owl	9/27/2012	WNV	Chronic	RT-PCR

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Mosquito Pools

County	Site Code	Pool #	City	Species	# in Pool	Trap Type	Collected	Virus	Test Method
Fresno	FRWS410003	337	Kerman	Cx. tarsalis	41	CO2	10/5/2012	WNV	RTPCR
Fresno	FRWS410003	339	Kerman	Cx. quinquefasciatus	50	CO2	10/5/2012	WNV	RTPCR
Kern	KERN0111	2608	Arvin	Cx. quinquefasciatus	50	CO2	10/3/2012	WNV	RTPCR
Kern	KERN0115	2527	Bakersfield	Cx. tarsalis	49	CO2	10/1/2012	WNV	RTPCR
Kern	KERN0117	2528	Bakersfield	Cx. quinquefasciatus	50	CO2	10/1/2012	WNV	RTPCR
Kern	KERN2021	2600	Wasco	Cx. quinquefasciatus	50	GRVD	10/3/2012	WNV	RTPCR
Kern	KERN2022	2598	Shafter	Cx. quinquefasciatus	50	GRVD	10/3/2012	WNV	RTPCR
Kern	KERN2030	2574	Bakersfield	Cx. quinquefasciatus	50	GRVD	10/2/2012	WNV	RTPCR
Kern	KERN2043	2651	Bakersfield	Cx. quinquefasciatus	45	GRVD	10/4/2012	WNV	RTPCR
Kern	KERN3023	2556	Wasco	Cx. tarsalis	50	CO2	10/1/2012	WNV	RTPCR
Kern	KERN3024	2534	Bakersfield	Cx. quinquefasciatus	50	CO2	10/1/2012	WNV	RTPCR
Kern	KERN3024	2535	Bakersfield	Cx. tarsalis	50	CO2	10/1/2012	WNV	RTPCR
Kern	KERN3029	2583	Buttonwillow	Cx. quinquefasciatus	50	CO2	10/2/2012	WNV	RTPCR
Kern	KERN3029	2585	Buttonwillow	Cx. tarsalis	39	CO2	10/2/2012	WNV	RTPCR
Kern	KERN0038	2586	Wasco	Cx. tarsalis	50	CO2	10/2/2012	WNV	RTPCR
Kern	KERN0007	2658	Famoso	Cx. quinquefasciatus	50	CO2	10/4/2012	WNV	RTPCR
Kern	KERN0083	2618	Arvin	Cx. quinquefasciatus	50	CO2	10/3/2012	WNV	RTPCR
Kings	KNGS3050	705	Lemoore	Cx. pipiens	50	CO2	10/8/2012	WNV	RTPCR
Kings	KNGS3050	710	Lemoore	Cx. erythrothorax	50	CO2	10/8/2012	WNV	RTPCR
Kings	KNGS3062	702	Lemoore	Cx. pipiens	26	CO2	10/8/2012	WNV	RTPCR
Kings	KNGS3064	720	Hanford	Cx. pipiens	32	CO2	10/8/2012	WNV	RTPCR
Lake	LAKE0234	455	Clearlake Oaks	Cx. tarsalis	50	CO2	10/10/2012	WNV	RTPCR
Los Angeles	GRLA2065	1181	Gardena	Cx. quinquefasciatus	50	GRVD	10/4/2012	WNV	RTPCR
Los Angeles	GRLA2097	1160	La Mirada	Cx. quinquefasciatus	50	GRVD	10/2/2012	WNV	RTPCR
Los Angeles	GRLA2115	1167	Bell	Cx. quinquefasciatus	50	GRVD	10/4/2012	WNV	RTPCR
Los Angeles	GRLA2117	1170	Compton	Cx. quinquefasciatus	26	GRVD	10/4/2012	WNV	RTPCR
Los Angeles	GRLA2221	1163	Rowland Heights	Cx. quinquefasciatus	52	GRVD	10/2/2012	WNV	RTPCR
Los Angeles	GRLA2414	6135	Granada Hills	Cx. quinquefasciatus	50	GRVD	10/3/2012	WNV	RTPCR
Los Angeles	GRLA2478	6147	Sunland	Cx. quinquefasciatus	49	GRVD	10/4/2012	WNV	RTPCR
Los Angeles	GRLA2512	6151	Los Angeles	Cx. quinquefasciatus	50	GRVD	10/4/2012	WNV	RTPCR
Los Angeles	GRLA2512	6152	Los Angeles	Cx. quinquefasciatus	50	GRVD	10/4/2012	WNV	RTPCR
Los Angeles	GRLA2512	6153	Los Angeles	Cx. quinquefasciatus	16	GRVD	10/4/2012	WNV	RTPCR
Los Angeles	GRLA2520	6150	Los Angeles	Cx. quinquefasciatus	35	GRVD	10/4/2012	WNV	RTPCR
Los Angeles	GRLA2540	6137	Northridge	Cx. quinquefasciatus	49	GRVD	10/3/2012	WNV	RTPCR
Los Angeles	GRLA2554	6139	Winnetka	Cx. quinquefasciatus	50	GRVD	10/3/2012	WNV	RTPCR
Los Angeles	GRLA2592	6155	San Marino	Cx. quinquefasciatus	50	GRVD	10/4/2012	WNV	RTPCR
Los Angeles	GRLA2592	6156	San Marino	Cx. quinquefasciatus	34	GRVD	10/4/2012	WNV	RTPCR
Los Angeles	GRLA2604	6154	Los Angeles	Cx. quinquefasciatus	44	GRVD	10/4/2012	WNV	RTPCR
Los Angeles	GRLA2614	6160	Newhall	Cx. quinquefasciatus	26	GRVD	10/4/2012	WNV	RTPCR
Los Angeles	GRLA2655	6132	Encino	Cx. quinquefasciatus	50	GRVD	10/3/2012	WNV	RTPCR
Los Angeles	GRLA2936	6149	Burbank	Cx. quinquefasciatus	37	GRVD	10/4/2012	WNV	RTPCR
Los Angeles	GRLA3026	6121	Studio City	Cx. quinquefasciatus	50	GRVD	10/3/2012	WNV	RTPCR
Los Angeles	GRLA3026	6122	Studio City	Cx. quinquefasciatus	21	GRVD	10/3/2012	WNV	RTPCR
Los Angeles	GRLA3027	6123	Studio City	Cx. quinquefasciatus	50	GRVD	10/3/2012	WNV	RTPCR
Los Angeles	GRLA3027	6124	Studio City	Cx. quinquefasciatus	34	GRVD	10/3/2012	WNV	RTPCR
Los Angeles	GRLA3027	6125	Studio City	Cx. quinquefasciatus	20	CO2	10/3/2012	WNV	RTPCR
Los Angeles	GRLA3051	1179	Signal Hill	Cx. quinquefasciatus	43	GRVD	10/4/2012	WNV	RTPCR
Orange	ORCO0001	1338	Irvine	Cx. quinquefasciatus	28	GRVD	10/4/2012	WNV	RTPCR
Orange	ORCO0130	1300	Garden Grove	Cx. quinquefasciatus	34	GRVD	10/2/2012	WNV	RTPCR
Orange	ORCO0147	1298	Garden Grove	Cx. quinquefasciatus	35	GRVD	10/2/2012	WNV	RTPCR
Orange	ORCO0170	1290	Anaheim	Cx. quinquefasciatus	22	GRVD	10/2/2012	WNV	RTPCR

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Orange	ORCO0202	1292	Fullerton	Cx. quinquefasciatus	30	GRVD	10/2/2012	WNV	RTPCR
Orange	ORCO0202	1293	Fullerton	Cx. quinquefasciatus	30	GRVD	10/2/2012	WNV	RTPCR
Orange	ORCO0003	1307	Garden Grove	Cx. quinquefasciatus	23	GRVD	10/3/2012	WNV	RTPCR
Orange	ORCO0034	1299	Brea	Cx. quinquefasciatus	19	GRVD	10/2/2012	WNV	RTPCR
Orange	ORCO0088	1349	Fullerton	Cx. quinquefasciatus	7	CO2	10/5/2012	WNV	RTPCR
Orange	ORCO0009	1273	Anaheim	Cx. quinquefasciatus	6	CO2	9/28/2012	WNV	RTPCR
Orange	ORCO0009	1354	Anaheim	Cx. quinquefasciatus	10	CO2	10/5/2012	WNV	RTPCR
Placer	PLCR0516	2112	Roseville	Cx. tarsalis	3	CO2	10/8/2012	WNV	RTPCR
Riverside	COAV0321	2665	Rancho Mirage	Cx. quinquefasciatus	13	GRVD	10/4/2012	WNV	RTPCR
Riverside	COAV0331	2659	Palm Desert	Cx. quinquefasciatus	34	GRVD	10/4/2012	WNV	RTPCR
Sacramento	SAYO235001	6308	Wilton	Cx. tarsalis	15	CO2	10/4/2012	WNV	RTPCR
Sacramento	SAYO252003	6364	Walnut Grove	Cx. tarsalis	3	GRVD	10/4/2012	WNV	RTPCR
San Bernardino	WVAL5004	536	Rancho Cucamonga	Cx. quinquefasciatus	38	GRVD	10/3/2012	WNV	RTPCR
San Joaquin	SJCM8020	1321	Acampo	Cx. tarsalis	10	CO2	10/10/2012	WNV	RTPCR
San Joaquin	SJCM8056	1328	Manteca	Cx. pipiens	50	CO2	10/10/2012	WNV	RTPCR
San Joaquin	SJCM8161	1313	Ripon	Cx. pipiens	50	CO2	10/10/2012	WNV	RTPCR
San Joaquin	SJCM8161	1314	Ripon	Cx. pipiens	15	CO2	10/10/2012	WNV	RTPCR
Stanislaus	TRLK0424	1700	Patterson	Cx. pipiens	50	CO2	10/9/2012	WNV	RTPCR
Tulare	DLTA8501	567	Ivanhoe	Cx. quinquefasciatus	24	GRVD	10/5/2012	WNV	RTPCR
Tulare	DLTA9403	580	Visalia	Cx. quinquefasciatus	50	GRVD	10/5/2012	WNV	RTPCR
Tulare	KNGS3021	740	Waukena	Cx. pipiens	50	CO2	10/8/2012	WNV	RTPCR

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05
Imperial	COAV5001	Niland	10/1/2012	WNV	3902				
Lake	LAKE1000	Upper Lake	10/9/2012	WNV	1805				
Los Angeles	ANTV3247	Lancaster	10/3/2012	WNV	1210				
Los Angeles	GRLA2223	Rowland Heights	10/3/2012	WNV	3551				
Los Angeles	GRLA2371	South El Monte	10/2/2012	WNV	3562				
Los Angeles	GRLA2465	Los Angeles	10/1/2012	WNV	3504	3505	3506	3507	3508
Los Angeles	LONG0003	Long Beach	10/1/2012	WNV	3971				
Los Angeles	LONG0004	Long Beach	10/1/2012	WNV	3985				
Riverside	COAV0131	Oasis	10/1/2012	WNV	3894	3896	3897		
Riverside	COAV0327	Desert Hot Springs	10/1/2012	WNV	3807				
Riverside	NWST9401	Corona	10/3/2012	WNV	1012				
San Bernardino	SANB0006	Yucaipa	10/1/2012	WNV	1345				
San Bernardino	WVAL0001	Chino	10/1/2012	WNV	3778				
Shasta	SHAS9701	Cottonwood	9/13/2012	WNV	2715				
Sutter	SUYA0014	Sutter	9/27/2012	WNV	1471				

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Test Protocols

Humans:

Specimens are tested by local laboratories with an IgM or IgG immunofluorescent assay (IFA) and/or an IgM enzyme immunoassay (EIA). Specimens with inconclusive results are forwarded to the California Department of Public Health Viral and Rickettsial Disease Laboratory (VRDL) for further testing or confirmation.

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.