

California Arbovirus Surveillance Bulletin #35

Week 42 Friday, October 19, 2012



Human Cases

A total of 35 new cases of West Nile virus (WNV) were reported this week from the following 12 counties: Alameda (1), Contra Costa (1), Fresno (2), Kern (3), Los Angeles (13), Merced (1), Orange (8), Placer (1), Riverside (2), Shasta (1), Stanislaus (1), and Tehama (1). These are the first human cases reported from Alameda and Shasta counties this year. As of October 18, 2012, a total of 301 human cases of WNV illness have been reported in 30 counties. Of the 301 case-patients, 188 (62%) had neuroinvasive illness. The median age of the 301 individuals is 54 years (range: 1-93 years); 178 (59%) are male. Dates of symptom onset for all patients ranged from May 23 to October 3, 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 52 WNV-positive blood donors have been reported this year; 15 individuals developed symptoms and were reclassified as cases.

At this time last year, 122 WNV cases had been reported from 20 counties.

National Comments: As of October 16, 2012, 4,531 cases had been reported nationwide from 47 states and the District of Columbia (DC). This is the highest number of cases reported through the third week of October since 2003. Almost 70 percent of the cases have been reported from Texas, California, Louisiana, Mississippi, Illinois, South Dakota, Michigan, and Oklahoma. Of the 4,531 cases, 2,293 (51%) were classified as neuroinvasive disease, and 183 (4%) patients died.

Horses

One new equine case of WNV was reported this week: an unvaccinated gelding from Shasta County with onset date in early October; the horse was euthanized as a result of his illness. In 2012, 21 horses from 12 counties have tested positive for WNV; 7 (33%) died or were euthanized as a result of their illness. At this time last year, 14 equine cases of WNV from 7 counties had been reported.

Dead Birds & Squirrels

A total of 55 WNV positive dead birds were reported this week from 12 counties: Butte (2), Contra Costa (4), Fresno (1), Los Angeles (26), Merced (1), Orange (7), Placer (3), San Bernardino (3), San Joaquin (2), Shasta (3), Stanislaus (1), and Ventura (2). Two tree squirrels from Los Angeles County also tested positive for WNV this week. An additional 20 dead birds tested positive for chronic WNV infection (see Dead Bird Table for details). In 2012, 1,569 dead birds and 19 squirrels have tested positive for recent WNV infection from 38 and 5 counties, respectively. At this time last year, 656 dead birds from 26 counties and 21 tree squirrels from 6 counties had tested positive for WNV.

Mosquito Pools

A total of 53 WNV positive mosquito pools were reported this week from 11 counties: Fresno (4), Kern (10), Kings (2), Los Angeles (17), Orange (5), Placer (1), Riverside (2), San Bernardino (1), San Joaquin (8), Stanislaus (2), and Tulare (1). In 2012, 2,757 mosquito pools from 28 counties have tested positive for WNV. At this time last year, 2,030 mosquito pools had tested positive for WNV from 26 counties.

Sentinel Chickens

A total of 14 WNV seroconversions were reported this week from 12 flocks in 6 counties: Butte (1), Kern (1), Los Angeles (7), Riverside (3), Solano (1), and Sutter (1). In 2012, 477 WNV antibody-positive chickens have been detected among 100 flocks in 21 counties. At this time last year, 332 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	1		15			1
Butte	10	1	51	27	43	2
Calaveras		1				
Colusa	3		5		6	
Contra Costa	3		66	19	7	
El Dorado			5			
Fresno	18	3	25	145		
Glenn	6	1	16	4	8	
Imperial	1			4	10	
Kern	25	2	14	566	68	
Kings	3		2	102		
Lake			10	23	4	
Los Angeles	78		236	276	103	13
Madera	1		2	14		
Marin			1			
Mendocino			6			
Merced	13	1	42	4		
Monterey	1					
Napa			1	1		
Nevada			3			
Orange	30		80	62		
Placer	10		60	109	8	
Riverside	12		4	127	57	
Sacramento	15	2	464	487	36	
San Bernardino	9		36	55	42	
San Diego	1					
San Francisco	1		1			
San Joaquin	9	2	55	164		
San Luis Obispo			1			
San Mateo			5			
Santa Clara			17	3		2
Santa Cruz			1			
Shasta	1	5	33	17	6	1
Solano	1		28	3	2	
Sonoma			6	3	1	
Stanislaus	22	1	50	210	8	
Sutter	6		25	19	38	
Tehama	2		5			
Tulare	7		52	142	11	
Ventura	4		37	2	2	
Yolo	5	1	98	154	4	
Yuba	3	1	11	15	13	
Totals	301	21	1,569	2,757	477	19

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2011 & 2012 YTD West Nile Virus Comparisons		
	2011	2012
Total # Dead Bird Reports	9,149	19,174
# Positive Counties	34	42
# Human Cases	122	301
# Horse Cases	14	21
# Positive Dead Birds / # Tested	656 / 2,282	1,569 / 3,977
# Positive Mosquito Pools / # Tested	2,030 / 30,933	2,757 / 30,882
# Seroconversions / # Tested	332 / 20,325	477 / 20,844
# Positive Squirrels / # Tested	21 / 95	19 / 167

TESTING SUMMARIES

Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	35	0	0	0	0	0
	YTD	301	0	0	0	0	0
Horse Cases	Week	1	0	0	0	0	0
	YTD	21	0	0	0	0	0

Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	157	55
	YTD	3,977	1,569
Squirrels	Week	11	2
	YTD	167	19

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	636	14	0	0
	YTD	20,844	477	0	0
Mosquito Pools	Week	635	53	0	0
	YTD	30,882	2,757	0	0

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POSITIVES: WEEK 42

Humans

WNV Cases							
ID	Report Date	County	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
12-0267	10/11/12	LOS ANGELES	67	M	WNND	09/25/12	NO
12-0268	10/11/12	LOS ANGELES	73	F	WNF	09/21/12	NO
12-0269	10/11/12	LOS ANGELES	49	M	WNND	09/23/12	NO
12-0270	10/11/12	LOS ANGELES	44	M	WNND	09/26/12	NO
12-0271	10/11/12	LOS ANGELES	80	F	WNND	09/24/12	NO
12-0272	10/11/12	LOS ANGELES	86	M	WNND	08/30/12	NO
12-0273	10/11/12	LOS ANGELES	76	M	WNND	09/18/12	NO
12-0274	10/11/12	LOS ANGELES	55	M	WNF	08/19/12	NO
12-0275	10/11/12	LOS ANGELES	28	M	WNND	09/12/12	NO
12-0276	10/11/12	LOS ANGELES	63	M	WNND	09/17/12	NO
12-0277	10/11/12	LOS ANGELES	61	M	WNND	09/16/12	NO
12-0278	10/11/12	LOS ANGELES	34	F	WNND	09/03/12	NO
12-0279	10/11/12	LOS ANGELES	44	M	WNND	09/19/12	NO
12-0280	10/12/12	TEHAMA	>18	F	WNF	Week 39	NO
12-0281	10/12/12	MERCED	>18	M	WNF	09/25/12	NO
12-0282	10/12/12	ALAMEDA	70	M	WNND	09/23/12	NO
12-0283	10/15/12	CONTRA COSTA	>18	F	WNND	09/15/12	NO
12-0284	10/15/12	KERN	52	F	WNND	08/17/12	NO
12-0285	10/15/12	KERN	50	M	WNF	09/19/12	NO
12-0286	10/15/12	KERN	52	F	WNF	09/21/12	NO
12-0287	10/15/12	RIVERSIDE	37	M	WNND	09/26/12	NO
12-0288	10/15/12	RIVERSIDE	77	M	WNND	09/14/12	NO
12-0289	10/15/12	PLACER	>18	F	WNF	09/19/12	NO
12-0290	10/16/12	ORANGE	21	M	WNND	Week 38	NO
12-0291	10/16/12	ORANGE	36	M	WNND	Week 36	NO
12-0292	10/16/12	ORANGE	40	M	WNND	Week 38	NO
12-0293	10/16/12	ORANGE	54	M	WNND	Week 39	NO
12-0294	10/16/12	ORANGE	74	M	WNF	Week 38	NO
12-0295	10/16/12	ORANGE	50	M	WNND	Week 39	NO
12-0296	10/16/12	ORANGE	45	F	WNND	Week 39	NO
12-0297	10/16/12	ORANGE	66	F	WNND	Week 37	NO
12-0298	10/16/12	FRESNO	78	M	WNND	09/27/12	NO
12-0299	10/16/12	FRESNO	70	M	WNND	10/03/12	NO
12-0300	10/17/12	STANISLAUS	54	M	WNF	09/29/12	NO
12-0301	10/17/12	SHASTA	>18	N/A	WNND	Week 39	NO

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Presumptive Viremic Blood Donors (Asymptomatic Infections)							
ID	Report Date	County	Age	Sex			
BD12-0040	10/11/12	LOS ANGELES	17	F			
BD12-0041	10/16/12	ORANGE	32	M			
BD12-0042	10/16/12	ORANGE	<18	M			

Dead Birds & Squirrels

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Butte	Butte MVCD	Chico	95926	Western Scrub-Jay	10/2/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Oroville	95966	Rock Wren	10/4/2012	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Discovery Bay	94505	American Crow	10/11/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	10/12/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Concord	94520	American Crow	10/8/2012	WNV	Chronic	RT-PCR
Contra Costa	Contra Costa MVCD	Oakley	94561	Western Scrub-Jay	10/3/2012	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Walnut Creek	94597	Western Scrub-Jay	10/5/2012	WNV	Recent	RT-PCR
Fresno	Fresno MVCD	Fresno	93704	House Sparrow	10/4/2012	WNV	Chronic	RT-PCR
Fresno	Fresno WS MAD	Kerman	93630	American Crow	10/3/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	90012	American Crow	10/5/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	90019	Western Scrub-Jay	10/5/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	90025	American Crow	10/7/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Brentwood	90049	American Crow	10/9/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	90049	American Crow	10/5/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	90064	American Crow	10/6/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	90064	American Crow	10/17/2012	WNV	Recent	VecTest
Los Angeles	LA Co Vet	Los Angeles	90066	American Crow	10/5/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Beverly Hills	90210	American Crow	10/9/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Culver City	90230	American Crow	10/7/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Culver City	90232	American Crow	10/9/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Downey	90241	American Crow	10/3/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Santa Monica	90401	American Crow	10/1/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Santa Monica	90404	American Crow	10/5/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Santa Monica	90405	American Crow	10/6/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Santa Monica	90405	American Crow	10/7/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Montebello	90640	American Crow	10/3/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	90066	Fox Squirrel	10/9/2012	WNV	Positive	RT-PCR
Los Angeles	LA Co Vet	Woodland Hills	91367	Fox Squirrel	10/9/2012	WNV	Positive	RT-PCR
Los Angeles	LA VCD - Sylmar	Canyon Country	91387	Black Phoebe	10/4/2012	WNV	Chronic	RT-PCR
Los Angeles	LA West VCD	Westchester	90045	American Crow	10/3/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90049	American Crow	10/9/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90064	American Crow	10/3/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90066	American Crow	10/2/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90230	American Crow	10/9/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90230	American Crow	10/9/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90230	American Crow	10/5/2012	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	10/3/2012	WNV	Recent	RT-PCR

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Los Angeles	LA West VCD	Culver City	90232	American Crow	10/3/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90232	American Crow	10/3/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Venice	90291	House Sparrow	10/3/2012	WNV	Chronic	RT-PCR
Los Angeles	LA West VCD	Santa Monica	90403	American Crow	10/9/2012	WNV	Recent	RT-PCR
Marin	Marin-Son. MVCD	San Rafael	94903	House Finch	10/3/2012	WNV	Chronic	RT-PCR
Merced	Merced MAD	Atwater	95301	Yellow-billed Magpie	10/5/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92647	Western Gull	10/4/2012	WNV	Chronic	RT-PCR
Orange	Orange Co VCD	Santa Ana	92706	American Crow	10/10/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Fountain Valley	92708	American Crow	10/10/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Fountain Valley	92708	American Crow	10/10/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Anaheim	92801	American Crow	10/4/2012	WNV	Chronic	RT-PCR
Orange	Orange Co VCD	Garden Grove	92840	American Crow	10/10/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Garden Grove	92841	American Crow	10/10/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Orange	92867	American Crow	10/3/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Orange	92868	American Crow	10/10/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	Rock Dove	10/2/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Rocklin	95677	American Crow	10/4/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Rocklin	95765	Sparrow	10/9/2012	WNV	Recent	RT-PCR
San Bernardino	San Bernardino VCP	Upland	91786	House Finch	9/30/2012	WNV	Chronic	RT-PCR
San Bernardino	San Bernardino VCP	Loma Linda	92354	House Finch	10/5/2012	WNV	Chronic	RT-PCR
San Bernardino	W Valley MVCD	Chino	91710	American Crow	10/2/2012	WNV	Recent	RT-PCR
San Bernardino	W Valley MVCD	Chino	91710	Great Horned Owl	10/4/2012	WNV	Recent	RT-PCR
San Bernardino	W Valley MVCD	Montclair	91763	American Crow	10/5/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Stockton	95203	Western Scrub-Jay	10/14/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Lodi	95240	Western Scrub-Jay	9/13/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Lodi	95242	European Starling	9/12/2012	WNV	Chronic	RT-PCR
San Mateo	San Mateo MAD	Burlingame	94010	House Sparrow	10/9/2012	WNV	Chronic	RT-PCR
San Mateo	San Mateo MAD	Foster City	94404	Northern Shoveler	10/2/2012	WNV	Chronic	RT-PCR
Santa Cruz	Santa Cruz MVCD	Felton	95018	Western Scrub-Jay	10/8/2012	WNV	Chronic	RT-PCR
Santa Cruz	Santa Cruz MVCD	Scotts Valley	95066	Pine Siskin	10/9/2012	WNV	Chronic	RT-PCR
Shasta	Shasta MVCD	Redding	96002	American Crow	10/15/2012	WNV	Recent	RAMP
Shasta	Shasta MVCD	Redding	96003	Western Scrub-Jay	10/9/2012	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Anderson	96007	American Crow	10/12/2012	WNV	Recent	VecTest
Sonoma	Marin-Son. MVCD	Santa Rosa	95403	Snowy Egret	10/4/2012	WNV	Chronic	RT-PCR
Stanislaus	East Side MAD	Modesto	95350	White-crowned Sparrow	10/4/2012	WNV	Chronic	RT-PCR
Stanislaus	Turlock MAD	Ceres	95307	American Crow	10/5/2012	WNV	Recent	RT-PCR
Ventura	Ventura EHD	Simi Valley	93063	American Crow	10/4/2012	WNV	Recent	RT-PCR
Ventura	Ventura EHD	Simi Valley	93065	House Wren	10/10/2012	WNV	Chronic	RT-PCR
Ventura	Ventura EHD	Simi Valley	93065	American Crow	10/5/2012	WNV	Recent	RT-PCR

Mosquito Pools

County	Site Code	Pool #	City	Species	# in pool	Trap Type	Collected	Virus	Method
Fresno	CNSL1737	499	Fresno	Cx. quinquefasciatus	39	GRVD	10/5/2012	WNV	RTPCR
Fresno	CNSL5081	725	Laton	Cx. quinquefasciatus	50	CO2	10/9/2012	WNV	RTPCR
Fresno	FRWS400002	361	Mendota	Cx. tarsalis	50	CO2	10/16/2012	WNV	RTPCR
Fresno	FRWS5302	369	Helm	Cx. quinquefasciatus	50	CO2	10/16/2012	WNV	RTPCR
Kern	KERN0111	2735	Arvin	Cx. quinquefasciatus	50	CO2	10/10/2012	WNV	RTPCR
Kern	KERN0114	2732	Bakersfield	Cx. tarsalis	19	CO2	10/10/2012	WNV	RTPCR
Kern	KERN0156	2685	Butttonwillow	Cx. tarsalis	48	CO2	10/8/2012	WNV	RTPCR

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Kern	KERN2025	2755	Bakersfield	Cx. quinquefasciatus	20	GRVD	10/11/2012	WNV	RTPCR
Kern	KERN3027	2672	Arvin	Cx. quinquefasciatus	35	CO2	10/8/2012	WNV	RTPCR
Kern	KERN3028	2728	Bakersfield	Cx. quinquefasciatus	18	CO2	10/10/2012	WNV	RTPCR
Kern	KERN3031	2741	Shafter	Cx. quinquefasciatus	16	CO2	10/10/2012	WNV	RTPCR
Kern	KERN0038	2712	Wasco	Cx. tarsalis	50	CO2	10/9/2012	WNV	RTPCR
Kern	KERN0039	2589	Wasco	Cx. tarsalis	50	CO2	10/2/2012	WNV	RTPCR
Kern	KERN0083	2734	Arvin	Cx. quinquefasciatus	50	CO2	10/10/2012	WNV	RTPCR
Kings	KNGS3050	779	Lemoore	Cx. pipiens	50	CO2	10/15/2012	WNV	RTPCR
Kings	KNGS8005	762	Stratford	Cx. pipiens	38	CO2	10/15/2012	WNV	RTPCR
Los Angeles	GRLA2082	1217	Downey	Cx. quinquefasciatus	29	GRVD	10/11/2012	WNV	RTPCR
Los Angeles	GRLA2166	1210	Montebello	Cx. quinquefasciatus	50	GRVD	10/10/2012	WNV	RTPCR
Los Angeles	GRLA2166	1211	Montebello	Cx. quinquefasciatus	50	GRVD	10/10/2012	WNV	RTPCR
Los Angeles	GRLA2182	1209	Pico Rivera	Cx. quinquefasciatus	21	GRVD	10/10/2012	WNV	RTPCR
Los Angeles	GRLA2194	1214	South El Monte	Cx. quinquefasciatus	49	GRVD	10/10/2012	WNV	RTPCR
Los Angeles	GRLA2274	1186	Lakewood	Cx. quinquefasciatus	50	GRVD	10/10/2012	WNV	RTPCR
Los Angeles	GRLA2359	1199	Pico Rivera	Cx. quinquefasciatus	50	GRVD	10/10/2012	WNV	RTPCR
Los Angeles	GRLA2365	1201	Pico Rivera	Cx. quinquefasciatus	47	GRVD	10/10/2012	WNV	RTPCR
Los Angeles	GRLA2574	6165	Sherman Oaks	Cx. quinquefasciatus	34	CO2	10/10/2012	WNV	RTPCR
Los Angeles	GRLA2891	1232	Hawaiian Gardens	Cx. quinquefasciatus	50	GRVD	10/11/2012	WNV	RTPCR
Los Angeles	GRLA2899	1226	Carson	Cx. quinquefasciatus	45	GRVD	10/11/2012	WNV	RTPCR
Los Angeles	GRLA3048	1196	Pico Rivera	Cx. quinquefasciatus	50	GRVD	10/10/2012	WNV	RTPCR
Los Angeles	GRLA3048	1197	Pico Rivera	Cx. quinquefasciatus	50	GRVD	10/10/2012	WNV	RTPCR
Los Angeles	GRLA3048	1198	Pico Rivera	Cx. quinquefasciatus	47	GRVD	10/10/2012	WNV	RTPCR
Los Angeles	GRLA3049	1202	Downey	Cx. quinquefasciatus	50	GRVD	10/10/2012	WNV	RTPCR
Los Angeles	LACW1001	318	Rolling Hills	Cx. quinquefasciatus	42	GRVD	10/4/2012	WNV	RTPCR
Los Angeles	LACW1006	316	Playa Del Rey	Cx. quinquefasciatus	50	GRVD	10/3/2012	WNV	RTPCR
Orange	ORCO0169	1360	Orange	Cx. quinquefasciatus	16	GRVD	10/10/2012	WNV	RTPCR
Orange	ORCO0198	1365	La Habra	Cx. quinquefasciatus	32	GRVD	10/10/2012	WNV	RTPCR
Orange	ORCO0002	1372	Fullerton	Cx. quinquefasciatus	15	GRVD	10/10/2012	WNV	RTPCR
Orange	ORCO0003	1357	Garden Grove	Cx. quinquefasciatus	15	GRVD	10/10/2012	WNV	RTPCR
Orange	ORCO0070	1370	Anaheim	Cx. quinquefasciatus	14	GRVD	10/10/2012	WNV	RTPCR
Placer	PLCR0516	2112	Roseville	Cx. tarsalis	3	CO2	10/8/2012	WNV	RTPCR
Riverside	COAV0331	2843	Palm Desert	Cx. quinquefasciatus	12	GRVD	10/12/2012	WNV	RTPCR
Riverside	NWST0000	392	Corona	Cx. quinquefasciatus	5	GRVD	10/2/2012	WNV	RTPCR
San Bernardino	WVAL2018	586	Chino	Cx. quinquefasciatus	47	GRVD	10/16/2012	WNV	RTPCR
San Joaquin	SJCM8005	1399	Stockton	Cx. erythrothorax	6	CO2	10/16/2012	WNV	RTPCR
San Joaquin	SJCM8143	1377	Stockton	Cx. tarsalis	40	CO2	10/16/2012	WNV	RTPCR
San Joaquin	SJCM8143	1378	Stockton	Cx. tarsalis	19	CO2	10/16/2012	WNV	RTPCR
San Joaquin	SJCM8143	1379	Stockton	Cx. pipiens	46	CO2	10/16/2012	WNV	RTPCR
San Joaquin	SJCM8143	1380	Stockton	Cx. erythrothorax	13	CO2	10/16/2012	WNV	RTPCR
San Joaquin	SJCM8143	1382	Stockton	Ae. vexans	35	CO2	10/16/2012	WNV	RTPCR
San Joaquin	SJCM8144	1360	Mt. House/Tracy	Cx. tarsalis	35	CO2	10/12/2012	WNV	RTPCR
San Joaquin	SJCM8189	1400	Acampo	Cx. pipiens	8	CO2	10/18/2012	WNV	RTPCR
Stanislaus	TRLK1228	1715	Ceres	Cx. pipiens	50	CO2	10/10/2012	WNV	RTPCR
Stanislaus	TRLK1229	1720	Ceres	Cx. pipiens	50	CO2	10/10/2012	WNV	RTPCR
Tulare	DLTA8532	890	Visalia	Cx. quinquefasciatus	8	GRVD	10/09/2012	WNV	RTPCR

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Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02
Butte	BUCO0001	Chico	10/9/2012	WNV	1502	
Kern	DLNO0035	McFarland	10/11/2012	WNV	1735	
Los Angeles	LACW1006	Playa Del Rey	10/2/2012	WNV	1081	1083
Los Angeles	LACW1007	Baldwin Hills	10/4/2012	WNV	1090	
Los Angeles	LACW1010	Los Angeles(Miracle Mile)	9/27/2012	WNV	1101	
Los Angeles	LACW1026	Beverly Hills	10/5/2012	WNV	1148	1149
Los Angeles	LACW1049	Inglewood	10/2/2012	WNV	1156	
Riverside	NWST0002	Glen Ivy Hot Spring	10/3/2012	WNV	1027	
Riverside	NWST0004	Flabob Airport	10/3/2012	WNV	1020	
Riverside	NWST9401	Corona	10/3/2012	WNV	1011	
Solano	SOLA0125	Cordelia	10/16/2012	WNV	2582	
Sutter	SUYA0030	Live Oak	10/11/2012	WNV	1467	

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.

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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.