

## California Arbovirus Surveillance Bulletin #32

Week 39 Friday, September 28, 2012



### Human Cases

A total of 35 new cases of West Nile virus (WNV) were reported this week from the following 11 counties: Kern (5), Kings (1), Los Angeles (9), Merced (1), Orange (5), Placer (1), Riverside (2), Sacramento (5), San Francisco (1), San Joaquin (1), and Stanislaus (4). These are the first human cases reported from Kings and San Francisco counties this year. As of September 20, 2012, a total of 182 human cases of WNV illness have been reported in 26 counties. Of the 182 cases, 113 (62%) had neuroinvasive illness. The median age of the 181 individuals where data are available is 56 years (range: 1-93 years); 104 (57%) of 182 cases are male. Dates of symptom onset for all cases ranged from May 23-September 17, 2012. Eight WNV-related fatalities have been reported to date in Fresno (1), Glenn (1), Kern (1), Los Angeles (1), Merced (1), Placer (1), and Sacramento (2) counties. A total of 32 WNV-positive blood donors have been reported this year; 9 individuals developed symptoms and were reclassified as cases. At this time last year, 87 WNV cases had been reported from 18 counties.

**National Comments:** As of September 25, 2012, 3,545 cases had been reported nationwide from 47 states and the District of Columbia (DC). This is the highest number of cases reported through the fourth week of September since 2003. Seventy percent of the cases have been reported from Texas, Mississippi, South Dakota, Michigan, California, Louisiana, Oklahoma, and Illinois. Of the 3,545 cases, 1,816 (51%) were classified as neuroinvasive disease, and 147 (4%) died.

### Horses

Three new equine cases of WNV were reported this week from Fresno (1), Shasta (1), and Yuba (1) counties; all 3 horses were unvaccinated. 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 86 WNV positive dead birds were reported this week from 22 counties: Alameda (1), Butte (5), Contra Costa (2), El Dorado (1), Fresno (3), Kings (1), Lake (2), Los Angeles (28), Mendocino (2), Merced (2), Napa (1), Nevada (1), Orange (13), Placer (7), San Bernardino (4), San Joaquin (2), Shasta (1), Stanislaus (4), Sutter (1), Tulare (1), Ventura (2), and Yuba (2). This is the first WNV positive dead bird found in Napa County this year. Two squirrels tested positive for WNV from Butte and Los Angeles counties. An additional 27 dead birds and 1 tree squirrel tested positive for chronic WNV infection (see Dead Bird Table for details). In 2012, 1,376 dead birds and 11 squirrels have tested positive for recent WNV infection from 37 and 5 counties, respectively. At this time last year, 526 dead birds from 25 counties and 3 tree squirrels from 3 counties had tested positive for WNV.

### Mosquito Pools

A total of 124 WNV positive mosquito pools were reported this week from 16 counties: Butte (2), Fresno (8), Kern (20), Kings (7), Lake (2), Los Angeles (17), Merced (1), Orange (2), Riverside (1), Sacramento (31), San Bernardino (2), San Joaquin (7), Shasta (1), Stanislaus (13), Tulare (3), and Yolo (7). In 2012, 2,541 mosquito pools from 28 counties have tested positive for WNV. At this time last year, 1,896 mosquito pools had tested positive for WNV from 25 counties.

### Sentinel Chickens

A total of 31 WNV seroconversions were reported this week from 17 flocks in 6 counties: Imperial (1), Kern (6), Lake (2), Los Angeles (14), Riverside (2), and San Bernardino (6). In 2012, 420 WNV antibody-positive chickens have been detected among 88 flocks in 20 counties. At this time last year, 252 WNV positive chickens had been detected from 15 counties.

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2011 & 2012 YTD West Nile Virus Comparisons		
	2011	2012
Total # Dead Bird Reports	8,467	17,312
# Positive Counties	32	39
# Human Cases	87	182
# Horse Cases	10	20
# Positive Dead Birds / # Tested	526 / 2,008	1,376 / 3,550
# Positive Mosquito Pools / # Tested	1,896 / 28,318	2,541 / 28,140
# Seroconversions / # Tested	252 / 17,982	420 / 19,273
# Positive Squirrels / # Tested	3 / 70	11 / 132

YTD WNV Activity by Element and County, 2012						
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels*
Alameda			13			1
Butte	6	1	45	26	41	2
Calaveras		1				
Colusa	2		5		6	
Contra Costa	2		48	19	6	
El Dorado			5			
Fresno	14	3	22	134		
Glenn	5	1	15	4	7	
Imperial	1			4	9	
Kern	20	2	14	519	56	
Kings	1		2	94		
Lake			7	20	3	
Los Angeles	30		163	213	86	5
Madera	1		1	12		
Mendocino			3			
Merced	8	1	39	4		
Napa			1	1		
Nevada			2			
Orange	11		61	42		
Placer	6		57	107	8	
Riverside	9		3	120	49	
Sacramento	14	2	461	485	36	
San Bernardino	7		29	53	38	
San Francisco	1		1			
San Joaquin	7	2	52	148		
San Luis Obispo			1			
San Mateo			4			
Santa Clara			15	3		2
Santa Cruz			1			
Shasta		4	15	15	3	1
Solano	1		27	3	1	
Sonoma			3	3	1	
Stanislaus	17	1	45	192	8	
Sutter	6		23	19	36	
Tehama	1		4			
Tulare	3		47	130	9	
Ventura	2		33	2		
Yolo	4	1	98	154	4	
Yuba	3	1	11	15	13	
<b>Totals</b>	<b>182</b>	<b>20</b>	<b>1,376</b>	<b>2,541</b>	<b>420</b>	<b>11</b>

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### TESTING SUMMARIES

#### Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	35	0	0	0	0	0
	YTD	182	0	0	0	0	0
Horse Cases	Week	3	0	0	0	0	0
	YTD	20	0	0	0	0	0

#### Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	183	86
	YTD	3,550	1,376
Squirrels	Week	11	2
	YTD	132	11

#### Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	699	31	0	0
	YTD	19,273	420	0	0
Mosquito Pools	Week	1,604	124	0	0
	YTD	28,140	2,541	0	0

### POSITIVES: WEEK 39

#### Humans

WNV Cases							
ID	Report Date	County	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
12-0148	09/20/12	LOS ANGELES	64	M	WNND	08/16/12	NO
12-0149	09/20/12	LOS ANGELES	84	M	WNND	08/20/12	NO
12-0150	09/20/12	LOS ANGELES	75	M	WNND	08/31/12	NO
12-0151	09/20/12	LOS ANGELES	90	F	WNF	09/05/12	NO
12-0152	09/20/12	LOS ANGELES	62	M	WNF	08/31/12	NO
12-0153	09/20/12	LOS ANGELES	33	M	WNND	08/27/12	NO
12-0154	09/20/12	LOS ANGELES	52	M	WNF	09/13/12	NO
12-0155	09/20/12	LOS ANGELES	42	M	WNF	09/05/12	NO
12-0156	09/20/12	LOS ANGELES	81	F	WNND	08/31/12	YES
12-0157	09/20/12	ORANGE	69	F	WNND	N/A	NO
12-0158	09/20/12	ORANGE	<18	M	WNND	Week 37	NO
12-0159	09/21/12	MERCED	>18	F	WNF	09/10/12	NO
12-0160	09/21/12	PLACER	>18	F	WNND	09/01/12	NO
12-0161	09/21/12	SACRAMENTO	83	F	WNND	09/01/12	NO

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12-0162	09/21/12	SACRAMENTO	68	F	WNF	08/22/12	NO
12-0163	09/21/12	ORANGE	35	F	WNF	Week 36	NO
12-0164	09/24/12	KERN	69	F	WNND	N/A	NO
12-0165	09/24/12	KERN	47	F	WNF	08/29/12	NO
12-0166	09/24/12	RIVERSIDE	41	M	WNND	08/22/12	NO
12-0167	09/24/12	SAN FRANCISCO	49	M	WNND	08/28/12	NO
12-0168	09/24/12	KINGS	N/A	M	WNF	N/A	NO
12-0169	09/25/12	KERN	67	F	WNND	08/23/12	NO
12-0170	09/25/12	SACRAMENTO	13	M	WNF	09/04/12	NO
12-0171	09/25/12	ORANGE	34	M	WNND	Week 37	NO
12-0172	09/25/12	ORANGE	30	M	WNND	Week 38	NO
12-0173	09/25/12	KERN	36	F	WNND	N/A	NO
12-0174	09/25/12	KERN	47	M	WNND	09/08/12	NO
12-0175	09/25/12	STANISLAUS	68	M	WNND	09/04/12	NO
12-0176	09/25/12	SACRAMENTO	67	F	WNND	09/04/12	NO
12-0177	09/26/12	SAN JOAQUIN	71	M	WNF	08/25/12	NO
12-0178	09/26/12	STANISLAUS	31	M	WNND	08/24/12	NO
12-0179	09/26/12	STANISLAUS	66	F	WNND	09/11/12	NO
12-0180	09/26/12	SACRAMENTO	80	F	WNND	09/09/12	NO
12-0181	09/26/12	RIVERSIDE	83	M	WNND	09/08/12	NO
12-0182	09/27/12	STANISLAUS	1	F	WNF	08/27/12	NO
<b>Presumptive Viremic Blood Donors (Asymptomatic Infections)</b>							
<b>ID</b>	<b>Report Date</b>	<b>County</b>	<b>Age</b>	<b>Sex</b>			
BD12-0025	09/20/12	LOS ANGELES	48	F			
BD12-0026	09/24/12	KERN	18	M			

### Dead Birds & Squirrels

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Alameda	Alameda MAD	Fremont	94538	Chickadee	9/19/2012	WNV	Chronic	RT-PCR
Alameda	Alameda MAD	Livermore	94551	Northern Mockingbird	9/19/2012	WNV	Chronic	RT-PCR
Alameda	Alameda MAD	Pleasanton	94588	American Crow	9/12/2012	WNV	Recent	RT-PCR
Butte	Butte County MVCD	Durham	95938	California Ground Squirrel	9/11/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95928	Yellow-billed Magpie	9/10/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95928	Western Scrub-Jay	9/13/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Durham	95938	American Robin	9/12/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Oroville	95966	Western Scrub-Jay	9/11/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Paradise	95969	Acorn Woodpecker	9/18/2012	WNV	Chronic	RT-PCR
Butte	Butte MVCD	Paradise	95969	American Goldfinch	9/17/2012	WNV	Chronic	RT-PCR
Butte	Butte MVCD	Paradise	95969	Western Scrub-Jay	9/7/2012	WNV	Recent	RT-PCR

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Butte	Butte MVCD	Chico	95973	Western Scrub-Jay	9/17/2012	WNV	Chronic	RT-PCR
Contra Costa	Contra Costa MVCD	Concord	94518	American Crow	9/20/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Concord	94521	Western Scrub-Jay	9/17/2012	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Walnut Creek	94596	Western Scrub-Jay	9/17/2012	WNV	Chronic	RT-PCR
Contra Costa	Contra Costa MVCD	Walnut Creek	94598	American Crow	9/18/2012	WNV	Chronic	RT-PCR
El Dorado	El Dorado EM	Cameron Park	95682	American Robin	9/17/2012	WNV	Chronic	RT-PCR
El Dorado	El Dorado EM	Somerset	95684	Acorn Woodpecker	9/18/2012	WNV	Chronic	RT-PCR
El Dorado	El Dorado EM	El Dorado Hills	95762	Pacific-slope Flycatcher	9/18/2012	WNV	Chronic	RT-PCR
El Dorado	El Dorado EM	El Dorado Hills	95762	American Crow	9/18/2012	WNV	Recent	RT-PCR
Fresno	Consolidated MAD	Clovis	93619	House Sparrow	8/29/2012	WNV	Recent	RT-PCR
Fresno	Consolidated MAD	Selma	93662	American Crow	9/19/2012	WNV	Recent	RT-PCR
Fresno	Fresno W. MAD	Firebaugh	93622	House Finch	9/11/2012	WNV	Recent	RT-PCR
Kings	Kings MAD	Hanford	93230	American Crow	9/17/2012	WNV	Recent	RT-PCR
Kings	Kings MAD	Lemoore	93245	House Sparrow	9/14/2012	WNV	Chronic	RT-PCR
Lake	Lake Co VCD	Kelseyville	95451	Steller's Jay	9/13/2012	WNV	Recent	RT-PCR
Lake	Lake Co VCD	Lucerne	95458	American Crow	9/14/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Thousand Oaks	91362	Turkey Vulture	9/6/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Veterinarian	Covina	91724	American Crow	9/12/2012	WNV	Recent	RT-PCR
Los Angeles	LA VCD - Sylmar	West Hills	91307	American Crow	9/14/2012	WNV	Recent	RT-PCR
Los Angeles	LA VCD - Sylmar	Encino	91316	Black-headed Grosbeak	9/17/2012	WNV	Chronic	RT-PCR
Los Angeles	LA VCD - Sylmar	Sun Valley	91352	American Crow	9/17/2012	WNV	Recent	RT-PCR
Los Angeles	LA VCD - Sylmar	Woodland Hills	91367	American Crow	9/18/2012	WNV	Chronic	RT-PCR
Los Angeles	LA VCD - Sylmar	Panorama City	91402	Western Scrub-Jay	9/14/2012	WNV	Recent	RT-PCR
Los Angeles	LA VCD - Sylmar	Sherman Oaks	91423	American Crow	9/11/2012	WNV	Recent	RT-PCR
Los Angeles	LA VCD - Sylmar	Sherman Oaks	91423	Anna's Hummingbird	9/18/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90034	American Crow	9/13/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90034	American Crow	9/17/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90035	American Crow	9/18/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90056	American Crow	9/18/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90064	American Crow	9/18/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90066	American Crow	9/11/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90066	American Crow	9/14/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90230	American Crow	9/12/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90230	American Crow	9/13/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90230	American Crow	9/13/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90232	House Finch	9/18/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Santa Monica	90405	American Crow	9/12/2012	WNV	Recent	RT-PCR
Los Angeles	LA County West	Los Angeles	90034	Fox Squirrel	9/13/2012	WNV	Recent	RT-PCR
Los Angeles	Pasadena HS	Pasadena	91103	American Crow	9/18/2012	WNV	Recent	RT-PCR
Los Angeles	Pasadena HS	Pasadena	91103	American Crow	9/18/2012	WNV	Recent	RT-PCR
Los Angeles	San Gabriel MVCD	Altadena	91001	American Crow	9/24/2012	WNV	Recent	RAMP
Los Angeles	San Gabriel MVCD	Covina	91722	American Crow	9/11/2012	WNV	Recent	RAMP
Los Angeles	San Gabriel MVCD	Glendora	91740	American Crow	9/11/2012	WNV	Recent	RAMP
Los Angeles	San Gabriel MVCD	San Gabriel	91775	Common Raven	9/26/2012	WNV	Recent	RAMP
Los Angeles	San Gabriel MVCD	West Covina	91790	American Crow	9/17/2012	WNV	Recent	RAMP
Los Angeles	San Gabriel MVCD	West Covina	91790	Common Raven	9/24/2012	WNV	Recent	RAMP
Los Angeles	San Gabriel MVCD	West Covina	91790	American Crow	9/20/2012	WNV	Recent	RAMP
Los Angeles	San Gabriel MVCD	West Covina	91790	American Crow	9/27/2012	WNV	Recent	RAMP
Mendocino	Mendocino EHD	Ukiah	95482	Pacific-slope Flycatcher	9/18/2012	WNV	Chronic	RT-PCR
Mendocino	Mendocino EHD	Ukiah	95482	Western Scrub-Jay	9/19/2012	WNV	Recent	RT-PCR
Mendocino	Mendocino EHD	Ukiah	95482	Western Scrub-Jay	9/19/2012	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Gustine	95322	Western Scrub-Jay	9/13/2012	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Winton	95388	House Finch	9/13/2012	WNV	Recent	RT-PCR
Monterey	N Salinas Vall. MAD	Del Rey Oaks	93940	American Crow	9/14/2012	WNV	Chronic	RT-PCR

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Napa	Napa Co MAD	Saint Helena	94574	American Crow	9/14/2012	WNV	Recent	RT-PCR
Nevada	Nevada Co EH	Penn Valley	95946	American Crow	9/18/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Cypress	90630	American Crow	9/19/2012	WNV	Chronic	RT-PCR
Orange	Orange Co VCD	Cypress	90630	American Crow	9/19/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Seal Beach	90740	American Crow	9/13/2012	WNV	Chronic	RT-PCR
Orange	Orange Co VCD	Irvine	92602	American Crow	9/18/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Mission Viejo	92694	American Crow	9/14/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Santa Ana	92705	House Finch	9/14/2012	WNV	Chronic	RT-PCR
Orange	Orange Co VCD	Santa Ana	92705	House Finch	9/19/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Fountain Valley	92708	American Crow	9/19/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Anaheim	92802	American Crow	9/13/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Anaheim	92802	American Crow	9/19/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Anaheim	92802	American Crow	9/17/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Anaheim	92802	American Crow	9/14/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Anaheim	92804	American Crow	9/13/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Anaheim	92804	American Crow	9/17/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Fullerton	92835	American Crow	9/17/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Garden Grove	92841	American Crow	9/12/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Auburn	95602	Western Scrub-Jay	9/17/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Auburn	95603	Lesser Goldfinch	9/10/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Auburn	95603	American Crow	9/14/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	Mourning Dove	9/4/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Lincoln	95648	Mourning Dove	9/14/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Loomis	95650	Western Scrub-Jay	9/19/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Newcastle	95658	Western Scrub-Jay	9/24/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95661	American Crow	9/13/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Rocklin	95677	House Finch	9/13/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Granite Bay	95746	California Towhee	8/31/2012	WNV	Chronic	RT-PCR
San Bernardino	San Bernardino VCP	Highland	92346	American Crow	9/17/2012	WNV	Recent	RT-PCR
San Bernardino	San Bernardino VCP	Redlands	92373	Northern Mockingbird	9/14/2012	WNV	Chronic	RT-PCR
San Bernardino	West Valley MVCD	Chino Hills	91709	American Crow	9/18/2012	WNV	Chronic	RT-PCR
San Bernardino	West Valley MVCD	Chino Hills	91709	American Crow	9/13/2012	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Chino	91710	American Crow	9/12/2012	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Rancho Cucamonga	91730	American Crow	9/12/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Stockton	95206	Sparrow	9/24/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Banta	95304	American Crow	9/21/2012	WNV	Recent	RT-PCR
San Mateo	San Mateo MAD	Belmont	94002	House Finch	9/18/2012	WNV	Chronic	RT-PCR
Santa Clara	Santa Clara	San Jose	95120	Eastern Gray Squirrel	9/18/2012	WNV	Chronic	RT-PCR
Shasta	Shasta MVCD	Redding	96003	Western Scrub-Jay	9/17/2012	WNV	Recent	RT-PCR
Sonoma	Marin-Sonoma MVCD	Sonoma	95476	House Finch	9/12/2012	WNV	Chronic	RT-PCR
Stanislaus	Turlock MAD	Ceres	95307	American Crow	9/17/2012	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Newman	95360	American Crow	9/14/2012	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Turlock	95380	Yellow-billed Magpie	9/13/2012	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Turlock	95382	Yellow-billed Magpie	9/13/2012	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Yuba City	95993	Common Yellowthroat	9/14/2012	WNV	Chronic	RT-PCR
Sutter	Sutter-Yuba MVCD	Yuba City	95993	House Sparrow	9/16/2012	WNV	Recent	RT-PCR
Tulare	Delta VCD	Goshen	93291	Western Scrub-Jay	9/4/2012	WNV	Recent	RT-PCR
Ventura	Moorpark VCD	Moorpark	93021	American Crow	9/12/2012	WNV	Recent	RT-PCR
Ventura	Ventura EHD	Simi Valley	93065	American Crow	9/12/2012	WNV	Recent	RT-PCR
Yuba	Sutter-Yuba MVCD	Marysville	95901	Western Scrub-Jay	9/16/2012	WNV	Recent	RT-PCR
Yuba	Sutter-Yuba MVCD	Marysville	95901	American Crow	9/14/2012	WNV	Recent	RT-PCR

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### Mosquito Pools

County	Site Code	Pool #	City	Species	# in Pool	Trap Type	Collected	Virus	Test Method
Butte	BUCO49	148	Biggs	Cx. tarsalis	50	CO2	9/12/12	WNV	RTPCR
Butte	BUCO78	151	Oroville	Cx. tarsalis	50	CO2	9/17/12	WNV	RTPCR
Fresno	CNSL1141	1016	Fresno	Cx. tarsalis	50	CO2	8/20/12	WNV	RAMP
Fresno	CNSL1141	1017	Fresno	Cx. quinquefasciatus	38	CO2	8/20/12	WNV	RAMP
Fresno	CNSL3306	1011	Reedly	Cx. quinquefasciatus	36	CO2	8/22/12	WNV	RAMP
Fresno	FRWS400005	282	Mendota	Cx. tarsalis	43	CO2	9/21/12	WNV	RTPCR
Fresno	FRWS4110	300	Mendota	Cx. tarsalis	50	CO2	9/25/12	WNV	RTPCR
Fresno	FRWS4110	301	Mendota	Cx. tarsalis	50	CO2	9/25/12	WNV	RTPCR
Fresno	FRWS5302	298	Helm	Cx. quinquefasciatus	50	CO2	9/25/12	WNV	RTPCR
Fresno	FRWS5302	299	Helm	Cx. quinquefasciatus	50	CO2	9/25/12	WNV	RTPCR
Kern	KERN0111	2314	Arvin	Cx. quinquefasciatus	50	CO2	9/19/12	WNV	RTPCR
Kern	KERN0115	2237	Bakersfield	Cx. quinquefasciatus	50	CO2	9/17/12	WNV	RTPCR
Kern	KERN0115	2239	Bakersfield	Cx. tarsalis	50	CO2	9/17/12	WNV	RTPCR
Kern	KERN2007	2336	Bakersfield	Cx. quinquefasciatus	40	GRVD	9/20/12	WNV	RTPCR
Kern	KERN2021	2291	Wasco	Cx. quinquefasciatus	49	GRVD	9/19/12	WNV	RTPCR
Kern	KERN2031	2344	Bakersfield	Cx. quinquefasciatus	32	GRVD	9/20/12	WNV	RTPCR
Kern	KERN0029	2297	Lamont	Cx. tarsalis	20	CO2	9/19/12	WNV	RTPCR
Kern	KERN3022	2332	Wasco	Cx. tarsalis	46	CO2	9/19/12	WNV	RTPCR
Kern	KERN3024	2242	Bakersfield	Cx. tarsalis	50	CO2	9/17/12	WNV	RTPCR
Kern	KERN3026	2247	Arvin	Cx. quinquefasciatus	39	CO2	9/17/12	WNV	RTPCR
Kern	KERN3029	2280	Buttonwillow	Cx. quinquefasciatus	50	CO2	9/18/12	WNV	RTPCR
Kern	KERN3029	2282	Buttonwillow	Cx. tarsalis	50	CO2	9/18/12	WNV	RTPCR
Kern	KERN3030	2320	Shafter	Cx. quinquefasciatus	50	CO2	9/19/12	WNV	RTPCR
Kern	KERN3031	2325	Shafter	Cx. quinquefasciatus	50	CO2	9/19/12	WNV	RTPCR
Kern	KERN3041	2363	Bakersfield	Cx. tarsalis	50	CO2	9/20/12	WNV	RTPCR
Kern	KERN0036	2257	Bakersfield	Cx. tarsalis	50	CO2	9/17/12	WNV	RTPCR
Kern	KERN0007	2351	Famoso	Cx. tarsalis	50	CO2	9/20/12	WNV	RTPCR
Kern	KERN0007	2352	Famoso	Cx. tarsalis	50	CO2	9/20/12	WNV	RTPCR
Kern	KERN0009	2354	Bakersfield	Cx. quinquefasciatus	30	CO2	9/20/12	WNV	RTPCR
Kern	WEST6204	140	Lost Hills	Cx. tarsalis	50	CO2	9/26/12	WNV	RTPCR
Kings	KNGS3005	619	Lemoore NAS	Cx. tarsalis	8	CO2	9/24/12	WNV	RTPCR
Kings	KNGS3022	604	Hanford	Cx. pipiens	26	CO2	9/24/12	WNV	RTPCR
Kings	KNGS3039	622	Lemoore	Cx. pipiens	24	CO2	9/24/12	WNV	RTPCR
Kings	KNGS3062	608	Lemoore	Cx. pipiens	33	CO2	9/24/12	WNV	RTPCR
Kings	KNGS3062	609	Lemoore	Cx. tarsalis	17	CO2	9/24/12	WNV	RTPCR
Kings	KNGS3080	641	Lemoore	Cx. tarsalis	50	CO2	9/24/12	WNV	RTPCR
Kings	KNGS8022	612	Lemoore	Cx. tarsalis	50	CO2	9/24/12	WNV	RTPCR
Lake	LAKE1508	418	Kelseyville	Cx. stigmatosoma	41	REST	9/26/12	WNV	RTPCR
Lake	LAKE0233	409	Clearlake Oaks	Cx. tarsalis	32	CO2	9/25/12	WNV	RTPCR
Los Angeles	GRLA2268	1109	Cerritos	Cx. quinquefasciatus	50	GRVD	9/21/12	WNV	RTPCR
Los Angeles	GRLA2500	6074	Los Angeles	Cx. quinquefasciatus	42	GRVD	9/20/12	WNV	RTPCR
Los Angeles	GRLA2512	6075	Los Angeles	Cx. quinquefasciatus	50	GRVD	9/20/12	WNV	RTPCR
Los Angeles	GRLA2520	6073	Los Angeles	Cx. quinquefasciatus	31	GRVD	9/20/12	WNV	RTPCR
Los Angeles	GRLA2531	6063	Chatsworth	Cx. quinquefasciatus	50	GRVD	9/20/12	WNV	RTPCR
Los Angeles	GRLA2548	6079	Sylmar	Cx. quinquefasciatus	18	GRVD	9/20/12	WNV	RTPCR
Los Angeles	GRLA2592	6078	San Marino	Cx. quinquefasciatus	34	GRVD	9/20/12	WNV	RTPCR
Los Angeles	GRLA2604	6077	Los Angeles	Cx. quinquefasciatus	45	GRVD	9/20/12	WNV	RTPCR
Los Angeles	GRLA2627	6087	Canyon Country	Cx. quinquefasciatus	30	CO2	9/20/12	WNV	RTPCR
Los Angeles	GRLA2655	6050	Encino	Cx. quinquefasciatus	50	GRVD	9/19/12	WNV	RTPCR
Los Angeles	GRLA2655	6051	Encino	Cx. quinquefasciatus	50	GRVD	9/19/12	WNV	RTPCR

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Los Angeles	GRLA2655	6059	Encino	Cx. quinquefasciatus	50	CO2	9/19/12	WNV	RTPCR
Los Angeles	GRLA2955	1100	Cerritos	Cx. quinquefasciatus	37	GRVD	9/19/12	WNV	RTPCR
Los Angeles	GRLA2995	6056	Woodland Hills	Cx. quinquefasciatus	44	GRVD	9/19/12	WNV	RTPCR
Los Angeles	GRLA3027	6048	Studio City	Cx. quinquefasciatus	31	GRVD	9/19/12	WNV	RTPCR
Los Angeles	LACW1009	308	Los Angeles	Cx. quinquefasciatus	16	GRVD	9/18/12	WNV	RTPCR
Los Angeles	LACW1049	309	Inglewood	Cx. quinquefasciatus	28	GRVD	9/18/12	WNV	RTPCR
Merced	MERC0403	157	Hilmar	Cx. pipiens	50	CO2	9/20/12	WNV	RTPCR
Orange	ORCO0028	1169	Anaheim	Cx. quinquefasciatus	31	CO2	9/14/12	WNV	RTPCR
Orange	ORCO0070	1181	Anaheim	Cx. quinquefasciatus	16	GRVD	9/19/12	WNV	RTPCR
Riverside	COAV0321	2439	Rancho Mirage	Cx. quinquefasciatus	13	GRVD	9/19/12	WNV	RTPCR
Sacramento	SAYO203027	5919	Sacramento	Cx. pipiens	21	GRVD	9/20/12	WNV	RTPCR
Sacramento	SAYO205004	5843	Orangevale	Cx. pipiens	18	GRVD	9/20/12	WNV	RTPCR
Sacramento	SAYO214033	5834	Fair Oaks	Cx. pipiens	31	GRVD	9/20/12	WNV	RTPCR
Sacramento	SAYO214040	6113	Rancho Cordova	Cx. pipiens	44	GRVD	9/27/12	WNV	RTPCR
Sacramento	SAYO222003	5575	Sacramento	Cx. tarsalis	11	CO2	9/13/12	WNV	RTPCR
Sacramento	SAYO222003	5577	Sacramento	Cx. pipiens	3	CO2	9/13/12	WNV	RTPCR
Sacramento	SAYO222011	5573	Sacramento	Cx. pipiens	10	CO2	9/13/12	WNV	RTPCR
Sacramento	SAYO222011	5574	Sacramento	Cx. pipiens	5	GRVD	9/13/12	WNV	RTPCR
Sacramento	SAYO222012	5578	Sacramento	Cx. tarsalis	6	CO2	9/13/12	WNV	RTPCR
Sacramento	SAYO222012	5579	Sacramento	Cx. pipiens	3	CO2	9/13/12	WNV	RTPCR
Sacramento	SAYO223016	5586	Sacramento	Cx. pipiens	10	CO2	9/13/12	WNV	RTPCR
Sacramento	SAYO225005	5553	Elk Grove	Cx. pipiens	2	GRVD	9/13/12	WNV	RTPCR
Sacramento	SAYO232017	5796	Elk Grove	Cx. tarsalis	4	CO2	9/20/12	WNV	RTPCR
Sacramento	SAYO233003	5795	Elk Grove	Cx. pipiens	9	CO2	9/20/12	WNV	RTPCR
Sacramento	SAYO233009	6064	Elk Grove	Cx. tarsalis	16	CO2	9/27/12	WNV	RTPCR
Sacramento	SAYO233009	6065	Elk Grove	Cx. pipiens	15	CO2	9/27/12	WNV	RTPCR
Sacramento	SAYO233026	5503	Elk Grove	Cx. pipiens	23	CO2	9/13/12	WNV	RTPCR
Sacramento	SAYO234012	5532	Elk Grove	Cx. pipiens	6	CO2	9/13/12	WNV	RTPCR
Sacramento	SAYO234015	5549	Elk Grove	Cx. tarsalis	42	CO2	9/13/12	WNV	RTPCR
Sacramento	SAYO234015	5550	Elk Grove	Cx. pipiens	8	GRVD	9/13/12	WNV	RTPCR
Sacramento	SAYO235013	5536	Wilton	Cx. tarsalis	50	CO2	9/13/12	WNV	RTPCR
Sacramento	SAYO243020	5530	Elk Grove	Cx. pipiens	8	GRVD	9/13/12	WNV	RTPCR
Sacramento	SAYO243025	5516	Elk Grove	Cx. pipiens	10	CO2	9/13/12	WNV	RTPCR
Sacramento	SAYO244002	5540	Galt	Cx. tarsalis	50	CO2	9/13/12	WNV	RTPCR
Sacramento	SAYO244007	5554	Wilton	Cx. tarsalis	37	CO2	9/13/12	WNV	RTPCR
Sacramento	SAYO245010	5545	Wilton	Cx. tarsalis	42	CO2	9/13/12	WNV	RTPCR
Sacramento	SAYO253004	6030	Galt	Cx. tarsalis	50	CO2	9/25/12	WNV	RTPCR
Sacramento	SAYO253004	6031	Galt	Cx. tarsalis	50	CO2	9/25/12	WNV	RTPCR
Sacramento	SAYO255007	5930	Herald	Cx. tarsalis	18	CO2	9/25/12	WNV	RTPCR
Sacramento	SAYO255007	5931	Herald	Cx. pipiens	9	CO2	9/25/12	WNV	RTPCR
Sacramento	SAYO280001	6022	Rio Vista	Cx. tarsalis	50	CO2	9/25/12	WNV	RTPCR
San Bernardino	SANB0007	524	Fontana	Cx. quinquefasciatus	50	CO2	9/19/12	WNV	RTPCR
San Bernardino	SANB0007	538	Fontana	Cx. quinquefasciatus	50	GRVD	9/19/12	WNV	RTPCR
San Joaquin	SJCM8009	1202	Stockton	Cx. tarsalis	50	CO2	9/25/12	WNV	RTPCR
San Joaquin	SJCM8010	1139	Ripon	Cx. pipiens	50	CO2	9/25/12	WNV	RTPCR
San Joaquin	SJCM8010	1141	Ripon	Cx. pipiens	40	CO2	9/25/12	WNV	RTPCR
San Joaquin	SJCM8094	1176	Manteca	Cx. pipiens	50	CO2	9/25/12	WNV	RTPCR
San Joaquin	SJCM8157	1122	Manteca	Cx. pipiens	7	CO2	9/25/12	WNV	RTPCR
San Joaquin	SJCM8160	1170	Lodi	Cx. tarsalis	50	CO2	9/25/12	WNV	RTPCR
San Joaquin	SJCM8161	1129	Ripon	Cx. pipiens	50	CO2	9/25/12	WNV	RTPCR
Shasta	SHAS20040	672	Redding	Cx. tarsalis	31	CO2	9/26/12	WNV	RTPCR
Stanislaus	TRLK0305	1424	Grayson	Cx. tarsalis	50	CO2	9/25/12	WNV	RTPCR
Stanislaus	TRLK0305	1431	Grayson	Cx. pipiens	50	CO2	9/25/12	WNV	RTPCR
Stanislaus	TRLK0322	1455	Modesto	Cx. tarsalis	50	CO2	9/25/12	WNV	RTPCR



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Stanislaus	TRLK0414	1462	Modesto	Cx. tarsalis	50	CO2	9/25/12	WNV	RTPCR
Stanislaus	TRLK0426	1360	Patterson	Cx. pipiens	50	CO2	9/25/12	WNV	RTPCR
Stanislaus	TRLK0426	1362	Patterson	Cx. pipiens	50	CO2	9/25/12	WNV	RTPCR
Stanislaus	TRLK0426	1384	Patterson	Cx. pipiens	50	CO2	9/25/12	WNV	RTPCR
Stanislaus	TRLK0426	1388	Patterson	Cx. pipiens	50	CO2	9/25/12	WNV	RTPCR
Stanislaus	TRLK0437	1479	Patterson	Cx. pipiens	50	CO2	9/25/12	WNV	RTPCR
Stanislaus	TRLK0437	1480	Patterson	Cx. pipiens	12	CO2	9/25/12	WNV	RTPCR
Stanislaus	TRLK9768	1396	Grayson	Cx. tarsalis	50	CO2	9/25/12	WNV	RTPCR
Stanislaus	TRLK9769	1406	Grayson	Cx. tarsalis	50	CO2	9/25/12	WNV	RTPCR
Stanislaus	TRLK9769	1407	Grayson	Cx. tarsalis	50	CO2	9/25/12	WNV	RTPCR
Tulare	KNGS3021	634	Waukena	Cx. pipiens	50	CO2	9/24/12	WNV	RTPCR
Tulare	KNGS3021	635	Waukena	Cx. pipiens	50	CO2	9/24/12	WNV	RTPCR
Tulare	TLRE0055	97	Tulare	Cx. pipiens	49	CO2	9/25/12	WNV	RTPCR
Yolo	SAYO124004	6050	Woodland	Cx. tarsalis	22	CO2	9/25/12	WNV	RTPCR
Yolo	SAYO125011	5954	Woodland	Cx. pipiens	37	GRVD	9/25/12	WNV	RTPCR
Yolo	SAYO125016	5961	Woodland	Cx. tarsalis	1	CO2	9/25/12	WNV	RTPCR
Yolo	SAYO135006	5958	Woodland	Cx. tarsalis	16	CO2	9/25/12	WNV	RTPCR
Yolo	SAYO135006	5959	Woodland	Cx. tarsalis	1	GRVD	9/25/12	WNV	RTPCR
Yolo	SAYO136010	6039	Woodland	Cx. pipiens	50	CO2	9/25/12	WNV	RTPCR
Yolo	SAYO145010	5944	Davis	Cx. tarsalis	50	CO2	9/25/12	WNV	RTPCR

### Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Imperial	COAV5001	Niland	9/17/2012	WNV	3904			
Kern	AFSB0128	Bakersfield	9/17/2012	WNV	2088	2093	4028	4037
Kern	AFSB0129	Bakersfield	9/17/2012	WNV	2063	4034		
Lake	LAKE1000	Upper Lake	9/11/2012	WNV	1802	1804		
Los Angeles	ANTV7947	Palmdale	9/19/2012	WNV	1259			
Los Angeles	LACW1005	El Segundo	9/20/2012	WNV	1077			
Los Angeles	LACW1006	Playa Del Rey	9/18/2012	WNV	1082	1085		
Los Angeles	LACW1007	Baldwin Hills	9/20/2012	WNV	1092			
Los Angeles	LACW1009	Los Angeles	9/11/2012	WNV	1094	1097	1098	
Los Angeles	LACW1010	Los Angeles	9/20/2012	WNV	1099			
Los Angeles	LACW1012	Venice	9/20/2012	WNV	1108			
Los Angeles	LACW1023	Topanga	9/12/2012	WNV	1133			
Los Angeles	LACW1024	Calabasas	9/11/2012	WNV	1136	1139	1140	
Riverside	COAV0122	Mecca	9/17/2012	WNV	3921			
Riverside	COAV0204	Indio	9/17/2012	WNV	3938			
San Bernardino	SANB0001	Needles	9/19/2012	WNV	1301	1302	1304	
San Bernardino	SANB0003	Colton	9/20/2012	WNV	1324	1327	1332	

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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.

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#### **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.

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#### **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.

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#### **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.

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*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](mailto:tina.feiszli@cdph.ca.gov).*

*Website Information: For updated information on WNV in California, please visit the California WNV website, [www.westnile.ca.gov](http://www.westnile.ca.gov), or the California Vectorborne Disease Surveillance System website, [www.calsurv.org](http://www.calsurv.org). For national information on WNV and other arboviruses, please visit the CDC website, [www.cdc.gov](http://www.cdc.gov), and the USGS website, [www.westnilemaps.usgs.gov](http://www.westnilemaps.usgs.gov).*