

California Arbovirus Surveillance Bulletin # 34

Week 41 Friday, October 10, 2008

Weekly and Year-To-Date Summaries

WEEKLY COMMENTS



Humans

Thirty-four new human cases of West Nile virus (WNV) illness were reported this week from 6 counties: Los Angeles (23), Riverside (2), San Bernardino (6), San Diego (1), San Joaquin (1), and Stanislaus (1). A total of 329 human WNV cases have been identified in the following 24 counties: Alameda (1), Butte (5), Calaveras (1), Colusa (1), Contra Costa (4), El Dorado (1), Fresno (1), Kings (1), Los Angeles (114, including 2 from Long Beach), Merced (1), Orange (60), Placer (4), Riverside (50), Sacramento (10), San Bernardino (18), San Diego (22), San Joaquin (11), Santa Clara (1), Shasta (1), Solano (1), Stanislaus (17), Tehama (1), Tulare (2) and Yolo (1). Of the 329 individuals, 212 (64%) developed neuroinvasive symptoms. The median age of the 329 individuals is 54 years (range: 3-94 years), and 200 (61%) are male. Seven WNV-related fatalities have been reported in Los Angeles (2), Orange (2), Riverside (2) and San Bernardino (1) counties. A total of 59 WNV-positive blood donation samples have been reported this year; 17 of the individuals reported symptoms and were reclassified as cases.

Horses

Five new equine cases were reported this week from four counties: Contra Costa (2), Riverside (1), Sacramento (1), and Ventura (1). **This is the first equine WNV case reported from Ventura County this year.** In 2008, 26 horses have tested positive for WNV; 16 died or were euthanized as a result of their infection.

Dead Birds & Tree Squirrels

Eighty-seven WNV-positive dead birds were reported this week from 14 counties: Alameda (2), Contra Costa (8), El Dorado (1), Fresno (3), Los Angeles (23), Napa (1), Orange (15), Sacramento (5), San Bernardino (1), San Diego (20), Sonoma (2), Tulare (1), Ventura (3), and Yolo (2). **This is the first indication of WNV activity from Napa County this year.** In 2008, 2,319 WNV-positive dead birds have been detected in 43 counties.

Two WNV-positive tree squirrels were reported this week from Fresno and Los Angeles counties. **This is the first WNV-positive tree squirrel reported from Fresno County this year.** In 2008, 27 tree squirrels have tested positive for WNV from seven counties.

Mosquito Pools

Thirty-four WNV-positive mosquito pools were reported this week from 9 counties: Contra Costa (3), Fresno (1), Los Angeles (19), Riverside (3), San Bernardino (3), San Diego (1), San Joaquin (1), Sonoma (1), and Tulare (2). In 2008, 1,839 WNV-positive mosquito pools have been detected in 26 counties.

Sentinel Chickens

Thirty-one WNV seroconversions were reported this week from 10 counties: Butte (4), Fresno (9), Glenn (1), Kern (3), Los Angeles (1), Placer (2), San Bernardino (3), San Joaquin (5), Stanislaus (2), and Sutter (1). In 2008, 452 WNV seroconversions have been detected in chickens from 20 counties.

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.

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YTD WNV Activity by Element and County, 2008

County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Alameda	1		10	1		1
Amador			3			
Butte	5		36	5	30	
Calaveras	1		1			
Colusa	1		3		1	
Contra Costa	4	3	86	28	14	6
El Dorado	1		6			
Fresno	1	1	34	52	22	1
Glenn			17	1	4	
Humboldt			1			
Imperial				7	21	
Kern			10	7	13	
Kings	1		1			
Lake		1	2	3		
Lassen				1		
Los Angeles	114		425	476	88	10
Madera			2	1		
Marin			1			
Mendocino			1			
Merced	1		5			
Modoc			1			
Mono			2			
Monterey			5			
Napa			1			
Nevada			5			
Orange	60	2	604	276	3	4
Placer	4	1	3	27	11	
Riverside	50	6	39	117	93	
Sacramento	10	2	125	277	6	1
San Bernardino	18	1	163	154	54	4
San Diego	22	4	489	38	13	
San Joaquin	11		69	195	18	
San Mateo			2			
Santa Barbara			1			
Santa Clara	1		11	1		
Santa Cruz			3			
Shasta	1		7			
Solano	1		7	1		
Sonoma			8	2		
Stanislaus	17	2	45	75	32	
Sutter			2	11	9	
Tehama	1		6			
Tulare	2	1	49	64	15	
Ventura		1	20		4	
Yolo	1	1	8	18		
Yuba				1	1	
Totals	329	26	2,319	1,839	452	27

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2007 & 2008 YTD West Nile Virus Comparisons		
	2007	2008
Total # Dead Bird Reports	28,773	30,266
# Positive Counties	51	46
# Human Cases/ # Tested	344 / 1,066	329 / 949
# Horse Cases/ # Tested	25 / 309	26 / 285
# Positive Dead Birds/ # Tested	1,288 / 4,974	2,319 / 5,365
# Positive Mosquito Pools/ # Tested	994 / 25,933	1,839 / 28,321
# Positive Chicken Sera/ # Tested	425 / 24,790	452 / 25,730
# Positive Squirrels/ # Tested	25 / 192	27 / 259

2008 TEST SUMMARIES

Human & Horse Cases

		Number Tested	WNV		WEE		SLE		Other	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested*	Week	30	0	34	0	0	0	0	0	0
	YTD	949	0	329	0	0	0	0	0	0
Horses Tested	Week	47	0	5	0	0	0	0	0	0
	YTD	285	0	26	0	0	0	0	0	0

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead Birds	Week	143	87
	YTD	5,365	2,319
Tree Squirrels	Week	9	2
	YTD	259	27

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive
Chicken Sera	Week	721	31	0	0
	YTD	25,730	452	0	0
Mosquito Pools: RT-PCR	Week	788	31	0	0
	YTD	25,566	1,497	0	0
Mosquito Pools: RAMP	Week	16	3	N/A	N/A
	YTD	2,755	342	N/A	N/A

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POSITIVES: 10/6/08 – 10/10/08

Humans

County	Report Date	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
LOS ANGELES	9/25/2008	17	M	WNF^	9/8/2008	NO
LOS ANGELES	10/03/08	50	M	WNND	09/13/08	NO
LOS ANGELES	10/03/08	48	M	WNND	08/26/08	NO
LOS ANGELES	10/03/08	67	M	WNND	09/13/08	NO
LOS ANGELES	10/03/08	80	F	WNND	09/18/08	NO
LOS ANGELES	10/03/08	79	M	WNND	09/12/08	NO
LOS ANGELES	10/03/08	44	F	WNND	09/01/08	NO
LOS ANGELES	10/03/08	74	M	WNF	09/10/08	NO
LOS ANGELES	10/03/08	67	F	WNND	09/01/08	NO
LOS ANGELES	10/03/08	39	F	WNF	09/06/08	NO
LOS ANGELES	10/03/08	78	M	WNF	09/15/08	NO
LOS ANGELES	10/03/08	75	F	WNND	06/24/08	NO
LOS ANGELES	10/9/2008	19	M	WNND	9/19/2008	NO
LOS ANGELES	10/9/2008	78	M	WNND	9/14/2008	NO
LOS ANGELES	10/9/2008	45	F	WNF	9/14/2008	NO
LOS ANGELES	10/9/2008	42	M	WNF	8/25/2008	NO
LOS ANGELES	10/9/2008	61	M	WNND	8/19/2008	NO
LOS ANGELES	10/9/2008	38	M	WNND	9/30/2008	NO
LOS ANGELES	10/9/2008	69	M	WNND	8/2/2008	NO
LOS ANGELES	10/9/2008	67	M	WNND	9/14/2008	NO
LOS ANGELES	10/9/2008	27	M	WNND	9/20/2008	NO
LOS ANGELES	10/9/2008	29	F	WNF	9/21/2008	NO
LOS ANGELES	10/9/2008	76	M	WNND	9/14/2008	YES
RIVERSIDE	10/07/08	45	M	n/a	08/21/08	NO
RIVERSIDE	10/8/2008	53	M	WNND	9/7/2008	NO
SAN BERNARDINO	10/06/08	45	F	WNF	08/02/08	NO
SAN BERNARDINO	10/06/08	69	F	n/a	n/a	NO
SAN BERNARDINO	10/8/2008	42	M	WNND	8/2/2008	NO
SAN BERNARDINO	10/8/2008	58	F	WNND	9/19/2008	NO
SAN BERNARDINO	10/9/2008	60	M	WNF	8/3/2008	NO
SAN BERNARDINO	10/9/2008	23	F	WNND	9/12/2008	NO
SAN DIEGO	10/7/2008	51	M	WNND	n/a	NO
SAN JOAQUIN	10/9/2008	51	F	WNF	8/1/2008	NO
STANISLAUS	10/9/2008	66	F	WNND	n/a	NO

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Dead Birds and Tree Squirrels

County	City	Zip Code	Species	Reported	Tested	Result	Test Type
Alameda	Berkeley	94702	American Crow	9/18/08	10/6/08	WNV	RT-PCR
Alameda	Pleasanton	94566	American Crow	9/19/08	10/6/08	WNV	RT-PCR
Contra Costa	Antioch	94509	Western Scrub-Jay	9/25/08	10/6/08	WNV	RT-PCR
Contra Costa	Antioch	94531	Yellow Warbler	9/17/08	10/6/08	WNV	RT-PCR
Contra Costa	Brentwood	94513	American Crow	10/6/08	10/7/08	WNV	RAMP
Contra Costa	Brentwood	94513	American Crow	10/6/08	10/7/08	WNV	RAMP
Contra Costa	Brentwood	94513	American Crow	10/6/08	10/7/08	WNV	RAMP
Contra Costa	Brentwood	94513	Western Scrub-Jay	9/28/08	10/6/08	WNV	RT-PCR
Contra Costa	Martinez	94553	Lesser Goldfinch	9/28/08	10/6/08	WNV	RT-PCR
Contra Costa	Walnut Creek	94596	Lesser Goldfinch	9/17/08	10/6/08	WNV	RT-PCR
El Dorado	Cool	95614	Western Scrub-Jay	9/17/08	10/6/08	WNV	RT-PCR
Fresno	Fresno	93726	Western Scrub-Jay	9/22/08	10/6/08	WNV	RT-PCR
Fresno	Fresno	93727	Western Scrub-Jay	9/29/08	10/6/08	WNV	RT-PCR
Fresno	Fresno	93703	Western Scrub-Jay	9/30/08	10/6/08	WNV	RT-PCR
Fresno	Fresno	93711	Fox Squirrel	9/18/08	10/6/08	WNV	RT-PCR
Los Angeles	Arcadia	91006	Fox Squirrel	9/16/08	10/6/08	WNV	RT-PCR
Los Angeles	Angeles National Forest	91342	Mallard	9/22/08	10/6/08	WNV	RT-PCR
Los Angeles	Canyon Country	91387	House Finch	9/29/08	10/6/08	WNV	RT-PCR
Los Angeles	Cerritos	90703	American Crow	9/15/08	10/6/08	WNV	RT-PCR
Los Angeles	Glendale	91208	Wilson's Warbler	9/23/08	10/6/08	WNV	RT-PCR
Los Angeles	Lancaster	93535	Common Raven	9/29/08	10/6/08	WNV	RT-PCR
Los Angeles	Lancaster	93535	House Finch	9/29/08	10/6/08	WNV	RT-PCR
Los Angeles	Long Beach	90808	American Crow	9/21/08	10/6/08	WNV	RT-PCR
Los Angeles	Long Beach	90803	American Crow	9/24/08	10/6/08	WNV	RT-PCR
Los Angeles	Long Beach	90815	American Crow	9/28/08	10/6/08	WNV	RT-PCR
Los Angeles	Long Beach	90815	American Crow	9/29/08	10/6/08	WNV	RT-PCR
Los Angeles	Los Angeles	90026	Mallard	9/24/08	10/6/08	WNV	RT-PCR
Los Angeles	Newhall	91321	House Finch	9/26/08	10/6/08	WNV	RT-PCR
Los Angeles	North Hollywood	91601	Red-shouldered Hawk	9/28/08	10/6/08	WNV	RT-PCR
Los Angeles	Northridge	91324	American Crow	9/29/08	10/6/08	WNV	RT-PCR
Los Angeles	Pomona	91767	Mourning Dove	9/22/08	10/6/08	WNV	RT-PCR
Los Angeles	Reseda	91335	American Crow	9/25/08	10/6/08	WNV	RT-PCR
Los Angeles	Santa Clarita	91350	American Crow	9/25/08	10/6/08	WNV	RT-PCR
Los Angeles	Santa Clarita	91355	American Crow	9/29/08	10/6/08	WNV	RT-PCR
Los Angeles	Sun Valley	91352	Western Scrub-Jay	9/30/08	10/6/08	WNV	RT-PCR
Los Angeles	Torrance	90502	American Crow	9/29/08	10/6/08	WNV	RT-PCR
Los Angeles	Torrance	90505	American Crow	10/1/08	10/6/08	WNV	RT-PCR
Los Angeles	Valencia	91355	American Crow	9/30/08	10/6/08	WNV	RT-PCR
Los Angeles	Winnetka	91306	Goldfinch	9/17/08	10/6/08	WNV	RT-PCR
Napa	Saint Helena	94574	Cooper's Hawk	9/23/08	10/6/08	WNV	RT-PCR
Orange	Anaheim	92804	American Crow	9/23/08	9/25/08	WNV	RT-PCR
Orange	Buena Park	90620	Black Phoebe	9/26/08	9/29/08	WNV	RT-PCR
Orange	Fountain Valley	92708	American Crow	9/23/08	9/25/08	WNV	RT-PCR
Orange	Fountain Valley	92708	American Crow	9/24/08	9/29/08	WNV	RT-PCR
Orange	Fountain Valley	92708	American Crow	9/22/08	9/30/08	WNV	RT-PCR
Orange	Garden Grove	92843	American Crow	10/2/08	9/30/08	WNV	RT-PCR
Orange	Garden Grove	92845	House Sparrow	9/24/08	9/29/08	WNV	RT-PCR
Orange	Garden Grove	92845	Sharp-shinned Hawk	8/14/08	9/29/08	WNV	RT-PCR
Orange	Huntington Beach	92647	American Crow	9/25/08	9/29/08	WNV	RT-PCR

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Orange	Huntington Beach	92647	American Crow	9/26/08	9/29/08	WNV	RT-PCR
Orange	Ladera Ranch	92694	American Crow	9/22/08	9/25/08	WNV	RT-PCR
Orange	Laguna Hills	92653	American Crow	9/22/08	9/25/08	WNV	RT-PCR
Orange	Lake Forest	92630	American Crow	9/26/08	9/29/08	WNV	RT-PCR
Orange	Yorba Linda	92886	American Crow	9/12/08	9/29/08	WNV	RT-PCR
Orange	Yorba Linda	92886	House Finch	9/22/08	9/25/08	WNV	RT-PCR
Sacramento	Carmichael	95608	White-breasted Nuthatch	9/26/08	10/6/08	WNV	RT-PCR
Sacramento	Carmichael	95608	Yellow-billed Magpie	9/25/08	10/6/08	WNV	RT-PCR
Sacramento	Elverta	95626	American Crow	9/29/08	10/6/08	WNV	RT-PCR
Sacramento	Fair Oaks	95628	Western Scrub-Jay	9/25/08	10/6/08	WNV	RT-PCR
Sacramento	Sacramento	95819	American Crow	9/29/08	10/6/08	WNV	RT-PCR
San Bernardino	Chino	91710	American Crow	10/6/08	10/6/08	WNV	RAMP
San Diego	Chula Vista	91911	American Crow	9/30/08	9/30/08	WNV	RT-PCR
San Diego	Descanso	91916	Western Scrub-Jay	9/29/08	9/30/08	WNV	RT-PCR
San Diego	Escondido	92027	American Crow	9/29/08	9/29/08	WNV	RT-PCR
San Diego	Escondido	92029	American Crow	9/29/08	9/29/08	WNV	RT-PCR
San Diego	Escondido	92025	American Crow	10/1/08	9/30/08	WNV	RT-PCR
San Diego	Fallbrook	92028	American Crow	9/29/08	9/29/08	WNV	RT-PCR
San Diego	La Jolla	92037	American Crow	10/2/08	10/2/08	WNV	RT-PCR
San Diego	Oceanside	92054	American Crow	9/30/08	9/30/08	WNV	RT-PCR
San Diego	Oceanside	92057	American Crow	9/30/08	9/30/08	WNV	RT-PCR
San Diego	Oceanside	92056	American Crow	10/1/08	9/30/08	WNV	RT-PCR
San Diego	Poway	92064	American Crow	9/30/08	9/30/08	WNV	RT-PCR
San Diego	Poway	92064	Red-tailed Hawk	9/29/08	9/29/08	WNV	RT-PCR
San Diego	Ramona	92065	Western Scrub-Jay	9/29/08	9/29/08	WNV	RT-PCR
San Diego	San Diego	92115	American Crow	9/26/08	9/29/08	WNV	RT-PCR
San Diego	San Diego	92128	American Crow	9/29/08	9/30/08	WNV	RT-PCR
San Diego	San Diego	92130	American Crow	9/29/08	9/29/08	WNV	RT-PCR
San Diego	San Diego	92122	American Crow	9/29/08	9/29/08	WNV	RT-PCR
San Diego	San Diego	92126	American Crow	10/1/08	9/30/08	WNV	RT-PCR
San Diego	San Diego	92117	Western Scrub-Jay	9/29/08	9/29/08	WNV	RT-PCR
San Diego	Vista	92084	American Crow	10/2/08	10/3/08	WNV	RT-PCR
Sonoma	Glen Ellen	95442	Virginia Rail	9/25/08	10/6/08	WNV	RT-PCR
Sonoma	Santa Rosa	95401	Domestic Duck	9/18/08	10/6/08	WNV	RT-PCR
Tulare	Lindsay	93247	American Crow	9/30/08	10/6/08	WNV	RT-PCR
Ventura	Simi Valley	93065	American Crow	9/30/08	10/6/08	WNV	RT-PCR
Ventura	Simi Valley	93065	American Crow	9/30/08	10/6/08	WNV	RT-PCR
Ventura	Thousand Oaks	91360	Anna's Hummingbird	9/26/08	10/6/08	WNV	RT-PCR
Yolo	West Sacramento	95691	American Crow	9/28/08	10/6/08	WNV	RT-PCR
Yolo	Woodland	95695	Yellow-billed Magpie	9/26/08	10/6/08	WNV	RT-PCR

Mosquito Pools

County	Site Code	City	Pool #	Species	# in Pool	Collected	Tested	Result
Contra Costa	CNTR1912	Pittsburg	641	Cx tarsalis	11	10/7/2008	10/7/2008	WNV
Contra Costa	CNTR1921	Pittsburg	645	Cx tarsalis	50	10/8/2008	10/10/2008	WNV
Contra Costa	CNTR1921	Pittsburg	646	Cx tarsalis	50	10/8/2008	10/10/2008	WNV
Fresno	CNSL4028	Selma	651	Cx quinquefasciatus	39	10/3/2008	10/9/2008	WNV
Los Angeles	ANTV4334	Lancaster	48	Cx quinquefasciatus	50	10/7/2008	10/9/2008	WNV
Los Angeles	GRLA2065	Gardena	1182	Cx quinquefasciatus	38	10/1/2008	10/10/2008	WNV
Los Angeles	GRLA2065	Gardena	1183	Cx quinquefasciatus	39	10/1/2008	10/8/2008	WNV
Los Angeles	GRLA2143	Wilmington	1181	Cx quinquefasciatus	49	10/1/2008	10/10/2008	WNV
Los Angeles	GRLA2222	Rowland Heights	1165	Cx quinquefasciatus	50	10/1/2008	10/10/2008	WNV

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Los Angeles	GRLA2315	Carson	1129	Cx quinquefasciatus	50	9/25/2008	10/8/2008	WNV
Los Angeles	GRLA2365	Pico Rivera	1169	Cx quinquefasciatus	44	10/1/2008	10/8/2008	WNV
Los Angeles	GRLA2371	South El Monte	1179	Cx quinquefasciatus	47	10/1/2008	10/8/2008	WNV
Los Angeles	GRLA2458	Los Angeles	6020	Cx quinquefasciatus	30	10/1/2008	10/10/2008	WNV
Los Angeles	GRLA2463	Los Angeles	6021	Cx quinquefasciatus	50	10/1/2008	10/10/2008	WNV
Los Angeles	GRLA2463	Los Angeles	6022	Cx quinquefasciatus	27	10/1/2008	10/10/2008	WNV
Los Angeles	GRLA2552	Glendale	6024	Cx quinquefasciatus	40	10/1/2008	10/9/2008	WNV
Los Angeles	GRLA2800	Long Beach	1185	Cx quinquefasciatus	18	10/1/2008	10/10/2008	WNV
Los Angeles	GRLA2950	Sunland	6017	Cx quinquefasciatus	16	9/30/2008	10/9/2008	WNV
Los Angeles	GRLA3030	Rosemead	1186	Cx quinquefasciatus	50	10/1/2008	10/8/2008	WNV
Los Angeles	GRLA3030	Rosemead	1187	Cx quinquefasciatus	50	10/1/2008	10/8/2008	WNV
Los Angeles	GRLA3030	Rosemead	1188	Cx quinquefasciatus	50	10/1/2008	10/8/2008	WNV
Los Angeles	LACW1024	Calabasas	244	Cx quinquefasciatus	18	10/1/2008	10/9/2008	WNV
Los Angeles	LACW1049	Inglewood	237	Cx quinquefasciatus	50	9/30/2008	10/10/2008	WNV
Riverside	COAV0121	Mecca	1794	Cx tarsalis	30	10/3/2008	10/9/2008	WNV
Riverside	RIVR0022	Murrieta	770	Cx erythrothorax	50	10/7/2008	10/10/2008	WNV
Riverside	RIVR0048	Hemet	756	Cx tarsalis	50	10/1/2008	10/7/2008	WNV
San Bernardino	SANB0002	Redlands	363	Cx quinquefasciatus	50	9/4/2008	10/8/2008	WNV
San Bernardino	SANB0002	Redlands	370	Cx quinquefasciatus	25	9/10/2008	10/8/2008	WNV
San Bernardino	SANB0012	Grand Terrace City Hall	378	Cx tarsalis	44	9/10/2008	10/8/2008	WNV
San Diego	SAND0249	San Diego	246	Cx quinquefasciatus	22	10/4/2008	10/10/2008	WNV
San Joaquin	SJCM8009	Stockton	2152	Cx tarsalis	50	10/3/2008	10/8/2008	WNV
Sonoma	MARN0176	Windsor	2569	Cx stigmatosoma	1	10/2/2008	10/7/2008	WNV
Tulare	DLTA7316	Traver	615	Cx quinquefasciatus	37	9/24/2008	10/8/2008	WNV
Tulare	DLTA7316	Traver	616	Cx quinquefasciatus	50	9/24/2008	10/8/2008	WNV

Sentinel Chickens

County	Site Code	City	Date Bled	Result	Band 01	Band 02	Band 03
Butte	BUCO0001	Chico	9/30/2008	WNV	2110	2112	
Butte	BUCO0003	Oroville	9/30/2008	WNV	2136		
Butte	BUCO0005	Honcut	9/30/2008	WNV	2156		
Fresno	CNSL5005	Fresno-Yosemite Airp	10/6/2008	WNV	2440		
Fresno	CNSL5006	Sanger	10/6/2008	WNV	2450	2452	
Fresno	CNSL5008	Orange Cove	10/6/2008	WNV	2463	2466	
Fresno	FRNO0012	Fresno	10/6/2008	WNV	2657	2659	2660
Fresno	FRNO0004	Kerman	10/6/2008	WNV	2675		
Glenn	GLEN9701	Willows	10/1/2008	WNV	2719		
Kern	KERN0105	Pumpkin Center	9/29/2008	WNV	2877		
Kern	KERN0107	Arvin	9/29/2008	WNV	2895		
Kern	KERN0111	Arvin	9/29/2008	WNV	2902		
Los Angeles	LACW1049	Inglewood	9/8/2008	WNV	1148		
Placer	PLCR0027	Loomis	9/15/2008	WNV	1491		
Placer	PLCR0401	Auburn	9/29/2008	WNV	1469		
San Bernardino	WVAL0004	Ontario	9/25/2008	WNV	1978		
San Bernardino	WVAL0006	Ontario	9/25/2008	WNV	1981	1982	
San Joaquin	SJCM9901	Lodi	10/06/08	WNV	1939	1941	1943
San Joaquin	SJCM9912	Stockton	10/06/08	WNV	1926	1933	
Stanislaus	TRLK0529	Vernalis	9/15/2008	WNV	3445		
Stanislaus	TRLK9702	Patterson	9/15/2008	WNV	3419		
Sutter	SUYA0031	Rio Oso	10/2/2008	WNV	4954		

California Arbovirus Surveillance Bulletin # 34

Week 41 Friday, October 10, 2008

NATIONAL COMMENTS

As of October 7, 2008, 1,030 human cases had been reported nationwide this year in the following 42 states: Alabama (16), Arizona (57), Arkansas (8), California (295), Colorado (77), Connecticut (7), Delaware (1), Florida (2), Georgia (4), Idaho (32), Illinois (13), Indiana (3), Iowa (9), Kansas (22), Kentucky (1), Louisiana (36), Maryland (10), Michigan (5), Minnesota (21), Mississippi (91), Missouri (15), Montana (5), Nebraska (37), Nevada (15), New Jersey (4), New Mexico (4), New York (31), North Dakota (42), Ohio (15), Oklahoma (9), Oregon (4), Pennsylvania (5), Rhode Island (1), South Dakota (37), Tennessee (11), Texas (51), Utah (16), Virginia (1), Washington (2), West Virginia (1), Wisconsin (6), and Wyoming (8). Of the 1,030 individuals, 465 (45%) had neuroinvasive illness. As of October 7, 20 fatalities had been reported in Arizona (3), California (6), Iowa (1), Mississippi (3), Missouri (1), New Jersey (1), New York (4) and Texas (1). At this time last year, 2,803 human cases had been reported nationwide.

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 by plaque reduction neutralization test (PRNT).

*Human denominator data only includes specimens tested at VRDL and does not include additional negative specimens that are tested by local agencies only.

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:

All bird and tree squirrel species from all zip codes are currently being accepted for testing unless otherwise requested by a local agency. Additionally, doves, pigeons, and chickens are no longer be accepted for testing. Corvids that test positive via RAMP or VecTest are no longer confirmed. Dead birds and 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 WNV testing using the singleplex RT-PCR Taqman assay and confirmed with a second primer set. The WNV Dead Bird Surveillance Coordinator, Erin Parker, can be reached directly at (510) 412-6254.

Sentinel Chickens:

Dried blood spot specimens from sentinel chickens are submitted to VBDS Laboratory and tested for the presence of antibodies to West Nile virus (WNV), western equine encephalomyelitis (WEE), and St. Louis encephalitis (SLE) 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 WEE, SLE, 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 Stan Husted by phone (510) 412-6253, FAX (510) 412-6263, or email: stan.husted@cdph.ca.gov
