

California Arbovirus Surveillance Bulletin # 33

Week 40 Friday, October 3, 2008

Weekly and Year-To-Date Summaries

WEEKLY COMMENTS



Humans

Twenty-three new human cases of West Nile virus (WNV) illness were reported this week from 8 counties: Butte (1), Contra Costa (2), El Dorado (1), Orange (7), Riverside (5), Sacramento (2), San Diego (4), and San Joaquin (1). **This is the first human case reported from El Dorado County this year.** A total of 295 human cases of West Nile virus (WNV) have been reported this year 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 (91, including 2 from Long Beach), Merced (1), Orange (60), Placer (4), Riverside (48), Sacramento (10), San Bernardino (12), San Diego (21), San Joaquin (10), Santa Clara (1), Shasta (1), Solano (1), Stanislaus (16), Tehama (1), Tulare (2) and Yolo (1). Of the 295 individuals, 190 (64%) developed neuroinvasive symptoms. The median age of the 295 individuals is 54 years (range: 3-94 years), and 179 (61%) are male. Six WNV-related fatalities have been reported in Los Angeles (1), Orange (2), Riverside (2) and San Bernardino (1) counties. A total of 54 WNV-positive blood donation samples have been reported this year; 16 of the individuals reported symptoms and were reclassified as cases.

Horses

No new equine cases were reported this week. In 2008, 21 horses have tested positive for WNV; 13 died or were euthanized as a result of their infection.

Dead Birds & Tree Squirrels

One hundred-and-three WNV-positive dead birds were reported this week from 18 counties: Alameda (2), Butte (1), Colusa (1), Contra Costa (5), Fresno (1), Kern (1), Los Angeles (33), Merced (1), Mono (2), Orange (16), Sacramento (4), San Bernardino (2), San Diego (26), Santa Cruz (1), Sonoma (2), Stanislaus (1), Tulare (1), and Ventura (3). **This is the first indication of WNV activity from Mono County this year.** In 2008, 2,232 WNV-positive dead birds have been detected in 42 counties.

One WNV-positive tree squirrel was reported this week from Orange County. In 2008, 25 tree squirrels have tested positive for WNV from six counties.

Mosquito Pools

Forty WNV-positive mosquito pools were reported this week from 10 counties: Contra Costa (1), Fresno (1), Los Angeles (11), Placer (1), Riverside (1), Sacramento (2), San Bernardino (15), San Diego (3), Tulare (4), and Yolo (1). In 2008, 1,805 WNV-positive mosquito pools have been detected in 26 counties.

Sentinel Chickens

One hundred-and-twenty WNV seroconversions were reported this week from 9 counties: Fresno (8), Imperial (1), Kern (10), Los Angeles (34), Riverside (38), San Bernardino (8), San Joaquin (4), Stanislaus (14), Tulare (11), and Ventura (2). In 2008, 421 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		8	1		1
Amador			3			
Butte	5		36	5	26	
Calaveras	1		1			
Colusa	1		3		1	
Contra Costa	4	1	78	25	14	6
El Dorado	1		5			
Fresno	1	1	31	51	13	
Glenn			17	1	3	
Humboldt			1			
Imperial				7	21	
Kern			10	7	10	
Kings	1		1			
Lake		1	2	3		
Lassen				1		
Los Angeles	91		402	457	87	9
Madera			2	1		
Marin			1			
Mendocino			1			
Merced	1		5			
Modoc			1			
Mono			2			
Monterey			5			
Nevada			5			
Orange	60	2	589	276	3	4
Placer	4	1	3	27	9	
Riverside	48	5	39	114	93	
Sacramento	10	1	120	277	6	1
San Bernardino	12	1	162	151	51	4
San Diego	21	4	469	37	13	
San Joaquin	10		69	194	13	
San Mateo			2			
Santa Barbara			1			
Santa Clara	1		11	1		
Santa Cruz			3			
Shasta	1		7			
Solano	1		7	1		
Sonoma			6	1		
Stanislaus	16	2	45	75	30	
Sutter			2	11	8	
Tehama	1		6			
Tulare	2	1	48	62	15	
Ventura			17		4	
Yolo	1	1	6	18		
Yuba				1	1	
Totals	295	21	2,232*	1,805	421	25

**Total has been adjusted to include positive birds from Orange County not previously reported*

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2007 & 2008 YTD West Nile Virus Comparisons		
	2007	2008
Total # Dead Bird Reports	28,142	29,705
# Positive Counties	51	45
# Human Cases/ # Tested	323 / 1,009	295 / 919
# Horse Cases/ # Tested	25 / 300	21 / 238
# Positive Dead Birds/ # Tested	1,240 / 4,824	2,232 / 5,222
# Positive Mosquito Pools/ # Tested	987 / 25,230	1,805 / 27,517
# Positive Chicken Sera/ # Tested	400 / 24,127	421 / 25,009
# Positive Squirrels/ # Tested	19 / 173	25 / 250

2008 TEST SUMMARIES

Human & Horse Cases

		Number Tested	WNV		WEE		SLE		Other	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested*	Week	40	0	23	0	0	0	0	0	0
	YTD	919	0	295	0	0	0	0	0	0
Horses Tested	Week	0	0	0	0	0	0	0	0	0
	YTD	238	0	21	0	0	0	0	0	0

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead Birds	Week	162	103
	YTD	5,222	2,232
Tree Squirrels	Week	10	1
	YTD	250	25

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive
Chicken Sera	Week	1,114	120	0	0
	YTD	25,009	421	0	0
Mosquito Pools: RT-PCR	Week	842	39	0	0
	YTD	24,778	1,466	0	0
Mosquito Pools: RAMP	Week	28	1	N/A	N/A
	YTD	2,739	339	N/A	N/A

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POSITIVES: 9/29/08 – 10/3/08

Humans

County	Report Date	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
BUTTE	10/03/08	>18	F	WNF	09/15/08	NO
CONTRA COSTA	10/01/08	43	F	WNND	08/15/08	NO
CONTRA COSTA	10/01/08	28	F	WNND	09/03/08	NO
EL DORADO	10/02/08	54	F	WNF	n/a	NO
ORANGE	09/29/08	77	M	WNND	Week 36	NO
ORANGE	09/29/08	<18	M	WNND	Week 38	NO
ORANGE	09/29/08	50	F	WNND	Week 37	NO
ORANGE	10/01/08	74	F	WNND	Week 33	NO
ORANGE	10/01/08	38	M	WNF	Week 37	NO
ORANGE	10/03/08	60	F	n/a	n/a	NO
ORANGE	10/03/08	51	F	WNND	n/a	NO
RIVERSIDE	09/30/08	81	F	WNF	08/25/08	NO
RIVERSIDE	09/30/08	45	F	WNF	08/19/08	NO
RIVERSIDE	09/30/08	80	F	WNND	08/21/08	NO
RIVERSIDE	10/01/08	16	M	WNND	08/31/08	NO
RIVERSIDE	10/02/08	81	M	WNF	09/01/08	NO
SACRAMENTO	09/29/08	58	M	WNF	08/25/08	NO
SACRAMENTO	09/30/08	69	M	WNND	09/18/08	NO
SAN DIEGO	10/01/08	35	F	WNND	n/a	NO
SAN DIEGO	10/01/08	45	M	WNND	n/a	NO
SAN DIEGO	10/01/08	45	M	WNND	n/a	NO
SAN DIEGO	10/01/08	63	M	WNF	n/a	NO
SAN JOAQUIN	10/03/08	46	F	WNF	08/24/08	NO

Dead Birds and Tree Squirrels

County	City	Zip Code	Species	Reported	Tested	Result
Alameda	Livermore	94550	Yellow-billed Magpie	9/18/08	9/29/08	WNV
Alameda	Oakland	94619	Steller's Jay	9/16/08	9/29/08	WNV
Butte	Chico	95926	Black Phoebe	9/23/08	9/29/08	WNV
Colusa	Arbuckle	95912	House Finch	9/18/08	9/29/08	WNV
Contra Costa	Brentwood	94513	Western Scrub-Jay	9/25/08	9/30/08	WNV
Contra Costa	Concord	94518	American Robin	9/9/08	9/29/08	WNV
Contra Costa	Danville	94526	California Towhee	9/9/08	9/29/08	WNV
Contra Costa	Antioch	94531	American Robin	9/10/08	9/29/08	WNV
Contra Costa	Antioch	94531	Fox Sparrow	9/21/08	9/29/08	WNV
Fresno	Fresno	93730	American Crow	9/17/08	9/29/08	WNV

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Kern	Bakersfield	93312	House Sparrow	9/24/08	9/29/08	WNV
Los Angeles	Los Angeles	90016	American Crow	9/15/08	9/29/08	WNV
Los Angeles	Los Angeles	90019	House Finch	9/22/08	9/29/08	WNV
Los Angeles	Los Angeles	90024	American Crow	9/18/08	9/29/08	WNV
Los Angeles	Los Angeles	90038	American Crow	9/24/08	9/29/08	WNV
Los Angeles	Los Angeles	90064	American Crow	9/18/08	9/29/08	WNV
Los Angeles	Los Angeles	90064	Red-shouldered Hawk	9/15/08	9/29/08	WNV
Los Angeles	Culver City	90230	American Crow	9/24/08	9/24/08	WNV
Los Angeles	Gardena	90249	American Crow	9/23/08	9/29/08	WNV
Los Angeles	Hawthorne	90250	Savannah Sparrow	9/16/08	9/29/08	WNV
Los Angeles	Torrance	90505	American Crow	9/18/08	9/29/08	WNV
Los Angeles	Torrance	90505	American Crow	9/18/08	9/29/08	WNV
Los Angeles	Long Beach	90808	American Crow	9/14/08	9/29/08	WNV
Los Angeles	Long Beach	90808	American Crow	9/17/08	9/29/08	WNV
Los Angeles	Long Beach	90815	American Crow	9/15/08	9/29/08	WNV
Los Angeles	Long Beach	90815	American Crow	9/15/08	9/29/08	WNV
Los Angeles	Long Beach	90815	House Sparrow	9/15/08	9/29/08	WNV
Los Angeles	Altadena	91001	House Finch	9/17/08	9/29/08	WNV
Los Angeles	Monrovia	91016	Northern Mockingbird	9/17/08	9/29/08	WNV
Los Angeles	La Crescenta	91214	American Crow	9/16/08	9/29/08	WNV
Los Angeles	La Crescenta	91214	American Crow	9/18/08	9/29/08	WNV
Los Angeles	Bell Canyon	91307	American Crow	9/11/08	9/29/08	WNV
Los Angeles	San Fernando	91340	American Crow	9/22/08	9/29/08	WNV
Los Angeles	Angeles National Forest	91342	Mallard	9/22/08	9/29/08	WNV
Los Angeles	Canyon Country	91351	American Crow	9/18/08	9/29/08	WNV
Los Angeles	Santa Clarita	91355	American Crow	9/17/08	9/29/08	WNV
Los Angeles	Tarzana	91356	House Finch	9/22/08	9/29/08	WNV
Los Angeles	Canyon Country	91387	American Crow	9/22/08	9/29/08	WNV
Los Angeles	Van Nuys	91406	House Finch	9/15/08	9/29/08	WNV
Los Angeles	Studio City	91604	American Crow	9/17/08	9/29/08	WNV
Los Angeles	Pomona	91766	American Crow	9/24/08	9/29/08	WNV
Los Angeles	Pomona	91766	House Sparrow	9/18/08	9/29/08	WNV
Los Angeles	Pomona	91767	House Finch	9/24/08	9/29/08	WNV
Los Angeles	Temple City	91780	American Crow	9/15/08	9/29/08	WNV
Merced	Atwater	95301	Virginia Rail	9/10/08	9/29/08	WNV
Mono	Mammoth Lakes	93546	Mountain Quail	9/23/08	9/29/08	WNV
Mono	Mammoth Lakes	93546	Steller's Jay	9/10/08	9/29/08	WNV
Orange	Irvine	92604	American Crow	9/17/08	9/18/08	WNV
Orange	Costa Mesa	92627	American Crow	9/27/08	9/18/08	WNV
Orange	Fullerton	92835	Fox Squirrel	9/15/08	9/30/08	WNV
Orange	Huntington Beach	92647	American Crow	9/16/08	9/18/08	WNV
Orange	Huntington Beach	92648	American Crow	9/17/08	9/18/08	WNV
Orange	San Clemente	92673	Swainson's Thrush	5/27/08	8/27/08	WNV
Orange	Laguna Niguel	92677	Spotted Towhee	9/19/08	9/23/08	WNV
Orange	Mission Viejo	92692	American Crow	9/19/08	9/23/08	WNV
Orange	Ladera Ranch	92694	American Crow	9/15/08	9/18/08	WNV
Orange	Irvine	92697	American Crow	9/15/08	9/18/08	WNV
Orange	Tustin	92705	House Finch	9/16/08	9/18/08	WNV
Orange	Santa Ana	92707	Black Phoebe	9/16/08	9/18/08	WNV
Orange	Fountain Valley	92708	American Crow	9/17/08	9/18/08	WNV
Orange	Fountain Valley	92708	American Crow	9/19/08	9/23/08	WNV
Orange	Tustin	92780	American Crow	9/16/08	9/18/08	WNV
Orange	Brea	92823	Purple Finch	9/18/08	9/23/08	WNV

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Orange	Orange	92867	Western Tanager	5/30/08	8/27/08	WNV
Sacramento	Citrus Heights	95621	Lesser Goldfinch	9/23/08	9/29/08	WNV
Sacramento	Fair Oaks	95628	House Finch	9/23/08	9/29/08	WNV
Sacramento	Sacramento	95819	American Crow	9/15/08	9/29/08	WNV
Sacramento	Sacramento	95833	Yellow Warbler	9/23/08	9/29/08	WNV
San Bernardino	Rancho Cucamonga	91701	American Crow	9/23/08	9/23/08	WNV
San Bernardino	Chino	91710	American Crow	9/25/08	9/25/08	WNV
San Diego	Alpine	91901	American Crow	9/22/08	9/25/08	WNV
San Diego	Campo	91906	Western Scrub-Jay	9/24/08	9/29/08	WNV
San Diego	Cardiff	92007	Great Horned Owl	9/26/08	9/29/08	WNV
San Diego	Carlsbad	92008	American Crow	9/26/08	9/29/08	WNV
San Diego	Del Mar	92014	American Crow	9/22/08	9/25/08	WNV
San Diego	Escondido	92025	American Crow	9/22/08	9/25/08	WNV
San Diego	Escondido	92026	American Crow	9/22/08	9/25/08	WNV
San Diego	Escondido	92027	American Crow	9/23/08	9/25/08	WNV
San Diego	Escondido	92027	American Crow	9/26/08	9/29/08	WNV
San Diego	Escondido	92029	Western Scrub-Jay	9/23/08	9/25/08	WNV
San Diego	Lakeside	92040	American Crow	9/25/08	9/29/08	WNV
San Diego	Ramona	92065	American Crow	9/22/08	9/25/08	WNV
San Diego	Ramona	92065	American Crow	9/22/08	9/25/08	WNV
San Diego	Ramona	92065	American Crow	9/22/08	9/25/08	WNV
San Diego	Ramona	92065	American Crow	9/26/08	9/29/08	WNV
San Diego	Ramona	92065	Red-shouldered Hawk	09/25/08	09/29/08	WNV
San Diego	Rancho Santa Fe	92067	American Crow	9/25/08	9/29/08	WNV
San Diego	San Diego	92105	American Crow	9/24/08	9/29/08	WNV
San Diego	San Diego	92109	American Crow	9/23/08	9/25/08	WNV
San Diego	San Diego	92117	American Crow	9/22/08	9/25/08	WNV
San Diego	San Diego	92121	American Crow	9/22/08	9/25/08	WNV
San Diego	San Diego	92121	American Crow	9/23/08	9/25/08	WNV
San Diego	San Diego	92122	American Crow	9/25/08	9/29/08	WNV
San Diego	San Diego	92126	American Crow	9/23/08	9/25/08	WNV
San Diego	Rancho Bernardo	92128	American Crow	9/22/08	9/25/08	WNV
San Diego	San Diego	92128	American Crow	9/24/08	9/29/08	WNV
Santa Cruz	Scotts Valley	95066	Lesser Goldfinch	9/23/08	9/29/08	WNV
Sonoma	Santa Rosa	95401	Goose	9/18/08	9/29/08	WNV
Sonoma	Sebastopol	95472	American Crow	9/23/08	9/29/08	WNV
Stanislaus	Hughson	95326	Yellow-billed Magpie	9/22/08	9/29/08	WNV
Tulare	Visalia	93291	American Crow	9/18/08	9/29/08	WNV
Ventura	Ventura	93004	American Crow	9/23/08	9/29/08	WNV
Ventura	Camarillo	93010	American Crow	9/21/08	9/29/08	WNV
Ventura	Ojai	93023	American Robin	9/23/08	9/29/08	WNV

Mosquito Pools

County	Site Code	Pool #	Species	# in Pool	Collected	Tested	City	Result
Contra Costa	CNTR1688	593	Cx tarsalis	50	9/29/2008	10/1/2008	Brentwood	WNV
Fresno	FRNO0033	49	Cx quinquefasciatus	50	9/24/2008	10/1/2008	Fresno	WNV
Los Angeles	GRLA2114	1154	Cx quinquefasciatus	23	9/25/2008	10/1/2008	Los Angeles	WNV
Los Angeles	GRLA2115	1145	Cx quinquefasciatus	50	9/25/2008	10/1/2008	Bell	WNV
Los Angeles	GRLA2119	1138	Cx quinquefasciatus	50	9/25/2008	10/1/2008	Long Beach	WNV
Los Angeles	GRLA2335	1135	Cx quinquefasciatus	50	9/25/2008	10/1/2008	Whittier	WNV
Los Angeles	GRLA2431	5989	Cx quinquefasciatus	19	9/25/2008	10/2/2008	Chatsworth	WNV
Los Angeles	GRLA2500	5992	Cx quinquefasciatus	50	9/25/2008	10/2/2008	Los Angeles	WNV

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Los Angeles	GRLA2510	6001	Cx quinquefasciatus	12	9/25/2008	10/2/2008	Los Angeles	WNV
Los Angeles	GRLA2513	6006	Cx quinquefasciatus	40	9/25/2008	10/1/2008	Los Angeles	WNV
Los Angeles	GRLA2967	5986	Cx quinquefasciatus	47	9/25/2008	10/1/2008	Chatsworth	WNV
Los Angeles	GRLA2999	6010	Cx quinquefasciatus	35	9/26/2008	10/1/2008	Sun Valley	WNV
Los Angeles	LACW1010	200	Cx quinquefasciatus	41	9/16/2008	9/30/2008	Los Angeles (Miracle Mile)	WNV
Placer	PLCR0037	948	Cx tarsalis	27	9/25/2008	10/1/2008	Pleasant Grove	WNV
Riverside	COAV0208	1722	Cx quinquefasciatus	5	9/25/2008	10/1/2008	Palm Springs	WNV
Sacramento	SAYO4365	8009	Cx pipiens	50	9/26/2008	10/1/2008	Galt	WNV
Sacramento	SAYO7005	8134	Cx pipiens	8	9/30/2008	10/1/2008	Rancho Cordova	WNV
San Bernardino	SANB0002	371	Cx quinquefasciatus	50	9/10/2008	9/30/2008	Redlands	WNV
San Bernardino	SANB0003	343	Cx quinquefasciatus	50	9/4/2008	9/26/2008	Colton	WNV
San Bernardino	SANB0004	272	Cx quinquefasciatus	50	8/20/2008	9/26/2008	San Bernadino	WNV
San Bernardino	SANB0004	286	Cx tarsalis	4	8/22/2008	9/26/2008	San Bernadino	WNV
San Bernardino	SANB0004	333	Cx quinquefasciatus	47	9/4/2008	9/26/2008	San Bernadino	WNV
San Bernardino	SANB0010	287	Cx tarsalis	27	8/22/2008	9/26/2008	Rialto	WNV
San Bernardino	SANB0010	289	Cx quinquefasciatus	50	8/22/2008	9/26/2008	Rialto	WNV
San Bernardino	SANB0010	290	Cx stigmatosoma	3	8/22/2008	9/26/2008	Rialto	WNV
San Bernardino	SANB0012	282	Cx quinquefasciatus	38	8/22/2008	9/26/2008	Grand Terrace City Hall	WNV
San Bernardino	SANB0012	380	Cx tarsalis	50	9/10/2008	9/30/2008	Grand Terrace City Hall	WNV
San Bernardino	SANB0026	322	Cx quinquefasciatus	40	9/4/2008	9/26/2008	San Bernardino	WNV
San Bernardino	WVAL5005	1226	Cx quinquefasciatus	25	9/23/2008	9/29/2008	Rancho Cucamonga	WNV
San Bernardino	WVAL6002	1205	Cx quinquefasciatus	27	9/23/2008	9/29/2008	Ontario	WNV
San Bernardino	WVAL7001	1222	Cx quinquefasciatus	22	9/23/2008	9/29/2008	Montclair	WNV
San Bernardino	WVAL7002	1217	Cx quinquefasciatus	25	9/23/2008	9/29/2008	Montclair	WNV
San Diego	SAND0101	225	Cx quinquefasciatus	28	9/24/2008	10/2/2008	San Diego	WNV
San Diego	SAND0228	210	Cx quinquefasciatus	20	9/19/2008	9/30/2008	Bonita	WNV
San Diego	SAND0241	233	Cx quinquefasciatus	16	9/26/2008	10/2/2008	Escondido	WNV
Tulare	DLTA6403	648	Cx quinquefasciatus	19	10/1/2008	10/2/2008	Sultana	WNV
Tulare	DLTA7316	613	Cx quinquefasciatus	50	9/24/2008	9/30/2008	Traver	WNV
Tulare	DLTA7316	618	Cx quinquefasciatus	30	9/24/2008	9/30/2008	Traver	WNV
Tulare	DLTA7327	628	Cx quinquefasciatus	50	9/24/2008	9/30/2008	Traver	WNV
Yolo	SAYO6000	8157	Cx tarsalis	50	9/30/2008	10/1/2008	Dunnigan	WNV

Sentinel Chickens

County	Site Code	City	Date Bled	Result	Band 01	Band 02	Band 03	Band 04	Band 05	Band 06
Fresno	CNSL5006	Sanger	9/22/2008	WNV	2449	2451	2456			
Fresno	CNSL5008	Orange Cove	9/22/2008	WNV	2457	2459	2462	2465	2467	
Imperial	COAV5001	Niland	9/22/2008	WNV	2401					
Los Angeles	ANTV3247	Lancaster	9/24/2008	WNV	2031					
Los Angeles	ANTV5662	Lancaster	9/24/2008	WNV	2032	2037				
Los Angeles	ANTV8656	Lancaster	9/24/2008	WNV	2068	2069	2071	2073		
Los Angeles	GRLA2132	Wilmington	9/22/2008	WNV	3631					
Los Angeles	GRLA2223	Rowland Heights	9/22/2008	WNV	3611					
Los Angeles	GRLA2371	South El Monte	9/22/2008	WNV	3609					
Los Angeles	GRLA2465	Los Angeles	9/23/2008	WNV	3667					
Los Angeles	GRLA2615	Newhall	9/23/2008	WNV	3677					
Los Angeles	GRLA2651	Encino	9/23/2008	WNV	3656					

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Los Angeles	LACW1009	Los Angeles	9/22/2008	WNV	1072	1073	1074	1076		
Los Angeles	LACW1010	Los Angeles(Miracle Mile)	9/22/2008	WNV	1078	1079				
Los Angeles	LACW1049	Inglewood	9/23/2008	WNV	1135					
Los Angeles	LONG0002	Long Beach	9/22/2008	WNV	2214					
Los Angeles	SGVA0001		9/15/2008	WNV	1914					
Los Angeles	SGVA0006		9/25/2008	WNV	1893	1894	1895			
Los Angeles	SGVA0006		9/15/2008	WNV	1915					
Los Angeles	SGVA0007		9/15/2008	WNV	1901	1902	1903	1904		
Los Angeles	SGVA0008		9/25/2008	WNV	1905					
Los Angeles	SGVA0008		9/15/2008	WNV	1907					
Los Angeles	SGVA0024	Altadena	9/25/2008	WNV	1883	1884				
Riverside	COAV0035	Mecca	9/22/2008	WNV	2305	2307	2396			
Riverside	COAV0122	Mecca	9/22/2008	WNV	2337	2403				
Riverside	COAV0131	Oasis	9/22/2008	WNV	2325	2327	3835			
Riverside	COAV0200	Mecca	9/22/2008	WNV	2257	2264	2265	2266		
Riverside	NWST0002	Glen Ivy Hot Spring	9/24/2008	WNV	1373	1376	1377			
Riverside	NWST0004	Flabob Airport	9/25/2008	WNV	1420	1422	1425	1426		
Riverside	NWST6666		9/24/2008	WNV	1381	1382	1385	1386	1388	
Riverside	NWST9226		9/24/2008	WNV	1393	1398				
Riverside	NWST9227		9/25/2008	WNV	1406	1407	1408			
Riverside	RIVR0001	San Jacinto	9/24/2008	WNV	1507					
Riverside	RIVR0002	Nuevo	9/24/2008	WNV	1522	1523	1525	1527	1530	1531
Riverside	RIVR0008	Murrieta	9/24/2008	WNV	1546	1548				
San Bernardino	SANB0003	Colton	9/22/2008	WNV	1714					
San Bernardino	SANB0004	San Bernardino	9/22/2008	WNV	1719	1727				
San Bernardino	SANB0007	Fontana	9/22/2008	WNV	1746	1747				
San Bernardino	SANB0008	Upland	9/22/2008	WNV	1756	1758				
San Bernardino	WVAL0011	Ontario Airport	9/25/2008	WNV	1991					
San Joaquin	SJCM9901	Lodi	09/08/08	1936	1937	1938	1942			
Stanislaus	EAST1959	Oakdale	9/17/2008	WNV	2640					
Stanislaus	TRLK0402	Denair	9/29/2008	WNV	3381	3384	3385	3390		
Stanislaus	TRLK0529	Vernalis	9/15/2008	WNV	3441	3444	3450			
Stanislaus	TRLK9701	Grayson	9/29/2008	WNV	3429	3431	3433	3438		
Stanislaus	TRLK9702	Patterson	9/29/2008	WNV	3422					
Stanislaus	TRLK9703	Crows Landing	9/29/2008	WNV	3408					
Tulare	DLTA6309	Reedley	9/22/2008	WNV	2611	2612	2618			
Tulare	DLTA7322	Kingsburg	9/22/2008	WNV	3801	3802	3804	3805	3809	
Tulare	DLTA8530	Visalia	9/22/2008	WNV	2601	2607				
Tulare	TLRE0012	Alpaugh	9/24/2008	WNV	3350					
Ventura	VENT0500	Camarillo	9/23/2008	WNV	3495					
Ventura	VENT0600	Fillmore	9/23/2008	WNV	3468					

California Arbovirus Surveillance Bulletin # 33

Week 40 Friday, October 3, 2008

NATIONAL COMMENTS

As of September 30, 2008, 918 human cases had been reported nationwide this year in the following 39 states: Alabama (15), Arizona (45), Arkansas (8), California (272), Colorado (77), Connecticut (5), Delaware (1), Florida (2), Georgia (2), Idaho (32), Illinois (10), Indiana (2), Iowa (8), Kansas (16), Louisiana (26), Maryland (9), Michigan (5), Minnesota (20), Mississippi (84), Missouri (8), Montana (5), Nebraska (22), Nevada (15), New Jersey (4), New Mexico (5), New York (27), North Dakota (40), Ohio (12), Oklahoma (8), Oregon (4), Pennsylvania (5), South Dakota (35), Tennessee (11), Texas (48), Utah (16), Virginia (1), West Virginia (1), Wisconsin (5), and Wyoming (7). Of the 918 individuals, 418 (46%) had neuroinvasive illness. As of September 30, 19 fatalities had been reported in Arizona (3), California (6), Iowa (1), Mississippi (3), New Jersey (1), New York (4) and Texas (1). At this time last year, 2,511 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
