

California Arbovirus Surveillance Bulletin # 29

Week 36 Friday, September 5, 2008

Weekly and Year-To-Date Summaries

WEEKLY COMMENTS



Humans

Twenty-eight new human cases of West Nile virus (WNV) illness were reported this week from 11 counties: Colusa (1), Contra Costa (1), Los Angeles (5), Orange (7), Placer (2), Riverside (4), Sacramento (1), San Bernardino (2), San Diego (1), Stanislaus (1), and Tehama. **These are the first human cases reported this year from Colusa, Contra Costa, Placer, and Tehama counties.** A total of 155 human cases have been reported this year in the following 18 counties: Alameda (1), Butte (2), Colusa (1), Contra Costa (1), Fresno (1), Los Angeles (39), Orange (41), Placer (2), Riverside (27), Sacramento (5), San Bernardino (5), San Diego (10), San Joaquin (6), Shasta (1), Solano (1), Stanislaus (10), Tehama (1) and Tulare (1). Of the 155 individuals, 106 (68%) developed neuroinvasive symptoms. Three WNV-related fatalities have been reported in Orange (2) and San Bernardino (1) counties. The median age of the 155 individuals is 54 years (range: 4-85 years), and 99 (64%) are male. Three WNV-related fatalities have been reported this year in Orange (2) and San Bernardino (1) counties. In addition, 33 WNV-positive blood donation samples have been reported this year; 10 of the individuals reported symptoms and were reclassified as cases.

Horses

Two WNV-positive horses were reported this week from Lake and Riverside counties. **This is the first equine WNV case reported from Lake County this year.** In 2008, eight horses have tested positive for WNV from Fresno (1), Lake (1), Orange (1), Riverside (3), Sacramento (1), and San Diego (1) counties.

Dead Birds & Tree Squirrels

Two hundred and two WNV-positive dead birds were reported this week from the following 18 counties: Butte (5), Contra Costa (7), El Dorado (1), Fresno (5), Glenn (3), Kern (1), Lake (1), Los Angeles (33), Madera (1), Orange (63), Riverside (4), Sacramento (12), San Bernardino (15), San Diego (43), San Joaquin (1), Santa Clara (1), Stanislaus (5), and Yolo (1). **This is the first indication of WNV activity from Madera County this year.** In 2008, 1,658 WNV-positive dead birds have been detected in 38 counties.

Two WNV-positive tree squirrels were reported this week from Los Angeles County. In 2008, 13 tree squirrels have tested positive for WNV from Contra Costa (5), Los Angeles (3), Orange (1) and San Bernardino (4) counties.

Mosquito Pools

Ninety-two WNV-positive mosquito pools were reported this week from the following 10 counties: Fresno (4), Los Angeles (27), Orange (3), Sacramento (18), San Bernardino (5), San Diego (8), San Joaquin (10), Stanislaus (8), Tulare (6), and Yolo (3). In 2008, 1,518[^] WNV-positive mosquito pools have been detected in 24 counties.

[^]Total has been adjusted to include pools not previously reported.

Sentinel Chickens

Thirty-nine WNV seroconversions were reported this week from 7 counties: Contra Costa (2), Fresno (5), Los Angeles (12), Riverside (5), San Bernardino (12), San Diego (2), and Tulare (1). **These are the first WNV seroconversions reported from Contra Costa and Fresno counties this year.** In 2008, 173 WNV seroconversions have been detected in chickens from 15 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.

2007 & 2008 YTD West Nile Virus Comparisons

	2007	2008
Total # Dead Bird Reports	24,968	25,884
# Positive Counties	49	40
# Human Cases/ # Tested	199 / 814	155 / 776
# Horse Cases/ # Tested	19 / 273	8 / 163
# Positive Dead Birds/ # Tested	878 / 4,156	1,658 / 4,419
# Positive Mosquito Pools/ # Tested	830 / 20,995	1,518 / 23,069
# Positive Chicken Sera/ # Tested	231 / 20,536	173 / 21,288
# Positive Squirrels/ # Tested	11 / 143	13 / 212

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YTD WNV Activity by Element and County, 2008

County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Alameda	1		2	1		
Amador			2			
Butte	2		25	5	16	
Calaveras			1			
Colusa	1		2			
Contra Costa	1		55	23	2	5
El Dorado			3			
Fresno	1	1	16	40	5	
Glenn			12	1		
Imperial				7	11	
Kern			8	3		
Lake		1	1	3		
Los Angeles	39		290	377	39	3
Madera			1			
Marin			1			
Mendocino			1			
Merced			1			
Monterey			2			
Nevada			4			
Orange	41	1	433	255	3	1
Placer	2		2	24	2	
Riverside	27	3	32	86	38	
Sacramento	5	1	91	268	5	
San Bernardino	5		135	129	32	4
San Diego	10	1	362	21	10	
San Joaquin	6		60	160	1	
San Mateo			2			
Santa Barbara			1			
Santa Clara			10	1		
Santa Cruz			1			
Shasta	1		6			
Solano	1		5	1		
Sonoma			1	1		
Stanislaus	10		30	48	5	
Sutter			2	11	2	
Tehama	1		2			
Tulare	1		45	36	2	
Ventura			5			
Yolo			6	16		
Yuba				1		
Totals	155	8	1,658	1,518	173	13

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2008 TEST SUMMARIES

Human & Horse Cases

		Number Tested	WNV		WEE		SLE		Other	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested*	Week	61	0	28	0	0	0	0	0	0
	YTD	776	0	155	0	0	0	0	0	0
Horses Tested	Week	2	0	2	0	0	0	0	0	0
	YTD	163	0	8	0	0	0	0	0	0

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead Birds	Week	263	202
	YTD	4,419	1,658
Tree Squirrels	Week	9	2
	YTD	212	13

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive
Chicken Sera	Week	869	39	0	0
	YTD	21,288	173	0	0
Mosquito Pools: RT-PCR	Week	999	80	0	0
	YTD	20,754	1,223	0	0
Mosquito Pools: RAMP	Week	88	12	N/A	N/A
	YTD	2,315	295	N/A	N/A

POSITIVES: 9/1/08 – 9/5/08

Humans

County	Reported	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
COLUSA	09/04/08	>18	n/a	WNF	08/11/08	NO
CONTRA COSTA	08/29/08	56	F	WNND	08/10/08	NO
LOS ANGELES	09/04/08	76	M	WNND	08/17/08	NO
LOS ANGELES	09/04/08	54	M	WNND	08/19/08	NO
LOS ANGELES	09/04/08	41	M	WNF	08/13/08	NO
LOS ANGELES	09/04/08	61	M	WNND	08/15/08	NO
LOS ANGELES	09/04/08	71	M	WNF	08/08/08	NO
ORANGE	08/29/08	57	M	WNND	Week 33	NO
ORANGE	09/02/08	80	F	WNND	Week 32	NO
ORANGE	09/02/08	85	M	WNND	Week 34	NO
ORANGE	09/03/08	29	F	WNND	Week 33	NO
ORANGE	09/04/08	78	M	WNND	Week 33	NO
ORANGE	09/04/08	56	F	WNF	Week 34	NO
ORANGE	09/04/08	35	M	WNF	Week 34	NO
PLACER	09/03/08	>18	M	WNF	08/14/08	NO
PLACER	09/03/08	>18	M	WNF	08/22/08	NO
RIVERSIDE	09/02/08	52	M	WNND	08/05/08	NO
RIVERSIDE	09/02/08	41	M	WNF	07/18/08	NO
RIVERSIDE	09/02/08	47	M	WNND	08/17/08	NO
RIVERSIDE	09/03/08	53	M	WNND	08/13/08	NO

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SACRAMENTO	08/27/08	63	F	WNF^	08/24/08	NO
SAN BERNARDINO	09/05/08	48	M	WNND	08/11/08	YES
SAN BERNARDINO	09/05/08	46	M	WNND	08/19/08	NO
SAN DIEGO	08/29/08	20	M	WNND	n/a	NO
STANISLAUS	09/03/08	38	M	WNF	n/a	NO
STANISLAUS	09/03/08	57	M	WNND	n/a	NO
STANISLAUS	09/04/08	49	F	WNF	n/a	NO
TEHAMA	09/04/08	>18	M	WNF	n/a	NO

Dead Birds and Tree Squirrels

County	City	Zip Code	Species	Reported	Tested	Test Type
Butte	Magalia	95954	American Crow	8/25/08	9/2/08	RT-PCR
Butte	Chico	95928	American Crow	8/26/08	9/2/08	RT-PCR
Butte	Oroville	95966	Oak Titmouse	8/14/08	9/2/08	RT-PCR
Butte	Oroville	95966	Western Scrub-Jay	8/21/08	9/2/08	RT-PCR
Butte	Gridley	95948	Yellow-billed Magpie	8/22/08	9/2/08	RT-PCR
Contra Costa	Brentwood	94513	American Crow	8/29/08	8/29/08	RAMP
Contra Costa	Oakley	94561	American Robin	8/13/08	9/2/08	RT-PCR
Contra Costa	Brentwood	94513	American Robin	8/20/08	9/2/08	RT-PCR
Contra Costa	Brentwood	94513	House Finch	8/20/08	9/2/08	RT-PCR
Contra Costa	Antioch	94531	Western Scrub-Jay	8/11/08	8/11/08	RAMP
Contra Costa	Brentwood	94513	Western Scrub-Jay	8/19/08	9/2/08	RT-PCR
Contra Costa	Oakley	94561	Western Scrub-Jay	8/26/08	8/27/08	RAMP
El Dorado	Placerville	95667	Mourning Dove	8/13/08	9/2/08	RT-PCR
Fresno	Fresno	93710	American Crow	8/27/08	9/2/08	RT-PCR
Fresno	Fresno	93722	American Crow	9/2/08	9/2/08	VecTest
Fresno	Fresno	93720	House Finch	8/18/08	9/2/08	RT-PCR
Fresno	Fresno	93710	Western Scrub-Jay	8/26/08	9/2/08	RT-PCR
Fresno	Fresno	93727	Western Scrub-Jay	8/26/08	9/2/08	RT-PCR
Glenn	Willows	95988	American Crow	8/22/08	9/2/08	RT-PCR
Glenn	Orland	95963	Western Scrub-Jay	8/25/08	9/2/08	RT-PCR
Glenn	Orland	95963	Yellow-billed Magpie	8/20/08	9/2/08	RT-PCR
Kern	Bakersfield	93313	American Crow	8/24/08	9/2/08	RT-PCR
Lake	Lakeport	95453	American Crow	8/21/08	9/2/08	RT-PCR
Los Angeles	Long Beach	90808	American Crow	8/20/08	9/2/08	RT-PCR
Los Angeles	Long Beach	90815	American Crow	8/21/08	9/2/08	RT-PCR
Los Angeles	Long Beach	90808	American Crow	8/21/08	9/2/08	RT-PCR
Los Angeles	Long Beach	90808	American Crow	8/21/08	9/2/08	RT-PCR
Los Angeles	Long Beach	90808	American Crow	8/21/08	9/2/08	RT-PCR
Los Angeles	Long Beach	90815	American Crow	8/22/08	9/2/08	RT-PCR
Los Angeles	Long Beach	90803	American Crow	8/25/08	9/2/08	RT-PCR
Los Angeles	Arcadia	91006	American Crow	8/18/08	9/2/08	RT-PCR
Los Angeles	West Covina	91790	American Crow	8/19/08	9/2/08	RT-PCR
Los Angeles	South El Monte	91733	American Crow	8/20/08	9/2/08	RT-PCR
Los Angeles	Downey	90242	American Crow	8/20/08	9/2/08	RT-PCR
Los Angeles	West Hollywood	90048	American Crow	8/21/08	9/2/08	RT-PCR
Los Angeles	West Covina	91790	American Crow	8/21/08	9/2/08	RT-PCR
Los Angeles	Winnetka	91306	American Crow	8/21/08	9/2/08	RT-PCR

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Los Angeles	Los Angeles	90024	American Crow	8/21/08	9/2/08	RT-PCR
Los Angeles	Winnetka	91306	American Crow	8/22/08	9/2/08	RT-PCR
Los Angeles	Winnetka	91306	American Crow	8/25/08	9/2/08	RT-PCR
Los Angeles	Agoura Hills	91301	American Crow	8/25/08	9/2/08	RT-PCR
Los Angeles	Chatsworth	91311	American Crow	8/25/08	9/2/08	RT-PCR
Los Angeles	Arcadia	91006	American Crow	8/25/08	9/2/08	RT-PCR
Los Angeles	Rolling Hills Estates	90274	American Crow	8/25/08	9/2/08	RT-PCR
Los Angeles	Covina	91722	American Crow	8/25/08	9/2/08	RT-PCR
Los Angeles	Arcadia	91006	American Crow	8/26/08	9/2/08	RT-PCR
Los Angeles	Pomona	91767	American Crow	8/26/08	9/2/08	RT-PCR
Los Angeles	Monrovia	91016	American Crow	8/26/08	9/2/08	RT-PCR
Los Angeles	Pico Rivera	90660	American Crow	8/26/08	9/2/08	RT-PCR
Los Angeles	La Puente	91746	American Crow	8/26/08	9/2/08	RT-PCR
Los Angeles	San Dimas	91773	American Crow	8/27/08	9/2/08	RT-PCR
Los Angeles	Woodland Hills	91371	Common Raven	8/18/08	9/2/08	RT-PCR
Los Angeles	Long Beach	90815	Fox Squirrel	8/20/2008	9/3/2008	RT-PCR
Los Angeles	Van Nuys	91401	Fox Squirrel	8/25/2008	9/3/2008	RT-PCR
Los Angeles	Carson	90746	House Finch	8/21/08	9/2/08	RT-PCR
Los Angeles	Tarzana	91356	House Finch	8/22/08	9/2/08	RT-PCR
Los Angeles	Claremont	91711	Western Scrub-Jay	8/26/08	9/2/08	RT-PCR
Los Angeles	Topanga	90290	Western Scrub-Jay	8/26/08	9/2/08	RT-PCR
Madera	Madera	93637	Western Scrub-Jay	8/22/08	9/2/08	RT-PCR
Orange	Villa Park	92861	American Crow	8/18/08	8/21/08	RT-PCR
Orange	Anaheim	92805	American Crow	8/15/08	8/21/08	RT-PCR
Orange	Anaheim	92805	American Crow	8/21/08	8/21/08	RT-PCR
Orange	SANTA ANA	92704	American Crow	8/15/08	8/21/08	RT-PCR
Orange	Fountain Valley	92708	American Crow	8/18/08	8/21/08	RT-PCR
Orange	Lake Forest	92630	American Crow	8/21/08	8/21/08	RT-PCR
Orange	Orange	92867	American Crow	8/21/08	8/21/08	RT-PCR
Orange	Tustin	92780	American Crow	8/21/08	8/21/08	RT-PCR
Orange	Orange	92867	American Crow	8/19/08	8/21/08	RT-PCR
Orange	San Juan Capistrano	92675	American Crow	8/21/08	8/25/08	RT-PCR
Orange	Cypress	90630	American Crow	8/19/08	8/25/08	RT-PCR
Orange	SANTA ANA	92705	American Crow	8/19/08	8/25/08	RT-PCR
Orange	Huntington Beach	92649	American Crow	8/19/08	8/25/08	RT-PCR
Orange	Orange	92865	American Crow	8/19/08	8/25/08	RT-PCR
Orange	Huntington Beach	92647	American Crow	8/21/08	8/25/08	RT-PCR
Orange	Anaheim	92807	American Crow	8/21/08	8/25/08	RT-PCR
Orange	Orange	92866	American Crow	8/21/08	8/25/08	RT-PCR
Orange	Fountain Valley	92708	American Crow	8/1/08	8/25/08	RT-PCR
Orange	Huntington Beach	92647	American Crow	8/19/08	8/25/08	RT-PCR
Orange	Los Alamitos	90720	American Crow	8/19/08	8/25/08	RT-PCR
Orange	Santa Ana	92707	American Crow	8/19/08	8/25/08	RT-PCR
Orange	Santa Ana	92705	American Crow	8/20/08	8/25/08	RT-PCR
Orange	Santa Ana	92706	American Crow	8/20/08	8/25/08	RT-PCR
Orange	Santa Ana	92705	American Crow	8/22/08	8/25/08	RT-PCR
Orange	Cypress	90630	American Crow	8/20/08	8/25/08	RT-PCR
Orange	Lake Forest	92630	American Crow	8/20/08	8/25/08	RT-PCR
Orange	Tustin	92780	American Crow	8/21/08	8/25/08	RT-PCR
Orange	Orange	92869	American Crow	8/20/08	8/26/08	RT-PCR
Orange	Santa Ana	92704	American Crow	8/20/08	8/26/08	RT-PCR
Orange	Lake Forest	92691	American Crow	8/22/08	8/26/08	RT-PCR
Orange	Tustin	92780	American Crow	8/22/08	8/26/08	RT-PCR

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Orange	Tustin	92780	American Crow	8/22/08	8/26/08	RT-PCR
Orange	Irvine	92604	American Crow	8/22/08	8/26/08	RT-PCR
Orange	Villa Park	92861	American Crow	8/22/08	8/26/08	RT-PCR
Orange	Cypress	90630	American Crow	8/22/08	8/26/08	RT-PCR
Orange	Fullerton	92835	American Crow	8/22/08	8/26/08	RT-PCR
Orange	Los Alamitos	90720	American Crow	8/25/08	8/26/08	RT-PCR
Orange	Orange	92867	American Crow	8/21/08	8/26/08	RT-PCR
Orange	Villa Park	92861	American Crow	8/22/08	8/26/08	RT-PCR
Orange	Irvine	92604	American Crow	8/22/08	8/26/08	RT-PCR
Orange	Garden Grove	92840	American Crow	8/22/08	8/26/08	RT-PCR
Orange	Costa Mesa	92626	American Crow	8/22/08	8/26/08	RT-PCR
Orange	Tustin	92780	American Crow	8/21/08	8/26/08	RT-PCR
Orange	Tustin	92780	American Crow	8/24/08	8/26/08	RT-PCR
Orange	Huntington Beach	92647	American Crow	8/23/08	8/26/08	RT-PCR
Orange	Huntington Beach	92647	American Crow	8/25/08	8/26/08	RT-PCR
Orange	Garden Grove	92845	American Crow	8/25/08	8/26/08	RT-PCR
Orange	Costa mesa	92627	American Crow	8/18/08	8/26/08	RT-PCR
Orange	N. Tustin	92705	American Crow	8/22/08	8/26/08	RT-PCR
Orange	Los Alamitos	90720	American Crow	8/25/08	8/26/08	RT-PCR
Orange	Santa Ana	92701	American Crow	8/22/08	8/26/08	RT-PCR
Orange	Ladera Ranch	92694	American Crow	8/22/08	8/26/08	RT-PCR
Orange	Buen Park	90621	American Goldfinch	8/22/08	8/26/08	RT-PCR
Orange	Irvine	92620	Anna's Hummingbird	8/20/08	8/25/08	RT-PCR
Orange	Anaheim	92807	Common Raven	8/21/08	8/26/08	RT-PCR
Orange	La Habra	90631	House Finch	8/19/08	8/25/08	RT-PCR
Orange	Orange	92869	House Finch	8/21/08	8/25/08	RT-PCR
Orange	Orange	92867	House Finch	8/20/08	8/25/08	RT-PCR
Orange	Anaheim	92804	House Finch	8/21/08	8/26/08	RT-PCR
Orange	Fountain Valley	92708	House Sparrow	8/18/08	8/21/08	RT-PCR
Orange	Fountain Valley	92708	Lesser Goldfinch	8/18/08	8/21/08	RT-PCR
Orange	san clemente	92672	Mourning Dove	8/21/08	8/21/08	RT-PCR
Orange	Buena Park	90620	Rock Dove	8/25/08	8/26/08	RT-PCR
Riverside	Calimesa	92320	American Crow	8/22/08	9/2/08	RT-PCR
Riverside	Banning	92220	American Crow	8/20/08	9/2/08	RT-PCR
Riverside	Perris	92570	American Crow	8/21/08	9/2/08	RT-PCR
Riverside	Murrieta	92562	American Crow	8/20/08	9/2/08	RT-PCR
Sacramento	Gold River	95670	American Crow	8/21/08	9/2/08	RT-PCR
Sacramento	Elverta	95626	American Crow	8/20/08	9/2/08	RT-PCR
Sacramento	Sacramento	95814	American Crow	8/22/08	9/2/08	RT-PCR
Sacramento	Sacramento	95833	American Crow	8/22/08	9/2/08	RT-PCR
Sacramento	Sacramento	95815	American Crow	8/25/08	9/2/08	RT-PCR
Sacramento	Sacramento	95826	American Crow	8/24/08	9/2/08	RT-PCR
Sacramento	Elk Grove	95758	American Robin	8/25/08	9/2/08	RT-PCR
Sacramento	Sacramento	95826	House Finch	8/21/08	9/2/08	RT-PCR
Sacramento	Carmichael	95608	House Finch	8/25/08	9/2/08	RT-PCR
Sacramento	Sacramento	95817	Northern Mockingbird	8/20/08	9/2/08	RT-PCR
Sacramento	Fair Oaks	95628	Western Scrub-Jay	8/21/08	9/2/08	RT-PCR
Sacramento	Elk Grove	95758	Western Scrub-Jay	8/26/08	9/2/08	RT-PCR
San Bernardino	Upland	91786	American Crow	8/15/08	9/2/08	RT-PCR
San Bernardino	Upland	91784	American Crow	8/20/08	9/2/08	RT-PCR
San Bernardino	Upland	91786	American Crow	8/21/08	9/2/08	RT-PCR
San Bernardino	Rancho Cucamonga	91730	American Crow	7/30/08	8/4/08	RT-PCR
San Bernardino	Rancho Cucamonga	91730	American Crow	8/22/08	9/2/08	RT-PCR

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San Bernardino	Rancho Cucamonga	91730	American Crow	8/28/08	8/28/08	RAMP
San Bernardino	Chino	91710	American Crow	8/28/08	8/28/08	RAMP
San Bernardino	Chino	91710	American Crow	8/28/08	8/28/08	RAMP
San Bernardino	Alta Loma	91701	American Crow	8/28/08	8/28/08	RAMP
San Bernardino	Ontario	91762	American Crow	8/28/08	8/28/08	RAMP
San Bernardino	Chino	91710	American Crow	8/28/08	8/28/08	RAMP
San Bernardino	Alta Loma	91701	American Crow	8/29/08	8/29/08	RAMP
San Bernardino	Rancho Cucamonga	91730	House Finch	8/20/08	9/2/08	RT-PCR
San Bernardino	Chino	91710	House Sparrow	8/21/08	9/2/08	RT-PCR
San Bernardino	Redlands	92373	Sparrow	8/20/08	9/2/08	RT-PCR
San Diego	Oceanside	92057	American Crow	8/22/08	8/27/08	RT-PCR
San Diego	Escondido	92027	American Crow	8/22/08	8/27/08	RT-PCR
San Diego	San Diego	92111	American Crow	8/22/08	8/27/08	RT-PCR
San Diego	Poway	92064	American Crow	8/22/08	8/27/08	RT-PCR
San Diego	San Diego	92123	American Crow	8/22/08	8/27/08	RT-PCR
San Diego	Poway	92064	American Crow	8/23/08	8/27/08	RT-PCR
San Diego	Poway	92064	American Crow	8/23/08	8/27/08	RT-PCR
San Diego	Poway	92064	American Crow	8/23/08	8/27/08	RT-PCR
San Diego	Poway	92064	American Crow	8/23/08	8/27/08	RT-PCR
San Diego	Ramona	92065	American Crow	8/25/08	8/27/08	RT-PCR
San Diego	San Diego	92126	American Crow	8/25/08	8/27/08	RT-PCR
San Diego	Oceanside	92057	American Crow	8/25/08	8/27/08	RT-PCR
San Diego	Carlsbad	92009	American Crow	8/25/08	8/27/08	RT-PCR
San Diego	Oceanside	92054	American Crow	8/25/08	8/27/08	RT-PCR
San Diego	Del Mar	92014	American Crow	8/25/08	8/27/08	RT-PCR
San Diego	Oceanside	92057	American Crow	8/25/08	8/27/08	RT-PCR
San Diego	Oceanside	92054	American Crow	8/25/08	8/27/08	RT-PCR
San Diego	Lakeside	92040	American Crow	8/25/08	8/27/08	RT-PCR
San Diego	Alpine	91901	American Crow	8/25/08	8/27/08	RT-PCR
San Diego	La Jolla	92037	American Crow	8/25/08	8/27/08	RT-PCR
San Diego	Chula Vista	91910	American Crow	8/25/08	8/27/08	RT-PCR
San Diego	Chula Vista	91910	American Crow	8/25/08	8/27/08	RT-PCR
San Diego	San Diego	92109	American Crow	8/25/08	8/27/08	RT-PCR
San Diego	Ramona	92065	American Crow	8/25/08	8/27/08	RT-PCR
San Diego	Spring Valley	91977	American Crow	8/26/08	8/27/08	RT-PCR
San Diego	San Diego	92121	American Crow	8/26/08	8/27/08	RT-PCR
San Diego	San Diego	92117	American Crow	8/26/08	8/27/08	RT-PCR
San Diego	Spring Valley	91977	American Crow	8/26/08	8/27/08	RT-PCR
San Diego	Chula Vista	91910	American Crow	8/26/08	8/27/08	RT-PCR
San Diego	Escondido	92026	American Crow	8/26/08	8/27/08	RT-PCR
San Diego	Ramona	92065	American Crow	8/27/08	8/27/08	RT-PCR
San Diego	Lakeside	92040	American Crow	8/27/08	8/27/08	RT-PCR
San Diego	Oceanside	92057	American Crow	8/27/08	8/27/08	RT-PCR
San Diego	San Diego	92130	American Crow	8/27/08	8/27/08	RT-PCR
San Diego	Oceanside	92057	American Crow	8/28/08	8/28/08	RT-PCR
San Diego	Ramona	92065	American Crow	8/28/08	8/28/08	RT-PCR
San Diego	Santee	92071	American Crow	8/28/08	8/28/08	RT-PCR
San Diego	Oceanside	92057	American Crow	8/28/08	8/28/08	RT-PCR
San Diego	Santee	92071	American Crow	8/28/08	8/28/08	RT-PCR
San Diego	Santee	92071	American Crow	8/28/08	8/28/08	RT-PCR
San Diego	Escondido	92027	Brewer's Blackbird	8/22/08	8/27/08	RT-PCR
San Diego	Encinitas	92024	Western Scrub-Jay	8/25/08	8/27/08	RT-PCR
San Diego	Ramona	92065	Western Scrub-Jay	8/26/08	8/28/08	RT-PCR
San Diego	San Diego	92104	Western Scrub-Jay	8/28/08	8/28/08	RT-PCR

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San Joaquin	French Camp	95231	American Crow	8/28/08	8/26/08	VecTest
Santa Clara	Santa Clara	95050	American Crow	8/18/08	8/18/08	VecTest
Stanislaus	Modesto	95358	American Crow	8/25/08	9/2/08	RT-PCR
Stanislaus	Turlock	95382	Western Scrub-Jay	8/21/08	9/2/08	RT-PCR
Stanislaus	Modesto	95357	Yellow-billed Magpie	8/25/08	9/2/08	RT-PCR
Stanislaus	Ceres	95307	Yellow-billed Magpie	8/20/08	9/2/08	RT-PCR
Stanislaus	Turlock	95382	Yellow-billed Magpie	8/27/08	9/2/08	RT-PCR
Yolo	Davis	95616	Yellow-billed Magpie	8/24/08	9/2/08	RT-PCR

Mosquito Pools

County	Site Code	Pool #	Species	# in Pool	Collected	City	Virus
Fresno	CNSL1245	483	Cx quinquefasciatus	48	8/28/2008	Clovis	WN
Fresno	CNSL1590	481	Cx tarsalis	44	8/27/2008	Clovis	WN
Fresno	CNSL2063	550	Cx stigmatosoma	16	8/28/2008	Sanger	WN
Fresno	CNSL3113	545	Cx quinquefasciatus	15	8/28/2008	Parlier	WN
Los Angeles	GRLA2531	5821	Cx quinquefasciatus	50	8/28/2008	Chatsworth	WN
Los Angeles	GRLA2635	5796	Cx quinquefasciatus	50	8/26/2008	Van Nuys	WN
Los Angeles	GRLA2635	5797	Cx quinquefasciatus	50	8/26/2008	Van Nuys	WN
Los Angeles	GRLA2635	5798	Cx quinquefasciatus	43	8/26/2008	Van Nuys	WN
Los Angeles	GRLA2636	5792	Cx quinquefasciatus	50	8/26/2008	Van Nuys	WN
Los Angeles	GRLA2636	5793	Cx quinquefasciatus	50	8/26/2008	Van Nuys	WN
Los Angeles	GRLA2636	5794	Cx quinquefasciatus	50	8/26/2008	Van Nuys	WN
Los Angeles	GRLA2636	5810	Cx quinquefasciatus	40	8/26/2008	Van Nuys	WN
Los Angeles	GRLA2636	5811	Cx quinquefasciatus	16	8/26/2008	Van Nuys	WN
Los Angeles	GRLA2637	5790	Cx quinquefasciatus	50	8/26/2008	Van Nuys	WN
Los Angeles	GRLA2637	5791	Cx quinquefasciatus	35	8/26/2008	Van Nuys	WN
Los Angeles	GRLA2637	5808	Cx quinquefasciatus	12	8/26/2008	Van Nuys	WN
Los Angeles	GRLA2641	5803	Cx quinquefasciatus	47	8/26/2008	Encino	WN
Los Angeles	GRLA2648	5777	Cx quinquefasciatus	50	8/26/2008	Encino	WN
Los Angeles	GRLA2649	5778	Cx quinquefasciatus	50	8/26/2008	Encino	WN
Los Angeles	GRLA2650	5780	Cx quinquefasciatus	50	8/26/2008	Encino	WN
Los Angeles	GRLA2650	5782	Cx quinquefasciatus	18	8/26/2008	Encino	WN
Los Angeles	GRLA2650	5786	Cx stigmatosoma	11	8/26/2008	Encino	WN
Los Angeles	GRLA2650	5802	Cx quinquefasciatus	28	8/26/2008	Encino	WN
Los Angeles	GRLA2652	5784	Cx quinquefasciatus	50	8/26/2008	Encino	WN
Los Angeles	GRLA2655	5787	Cx quinquefasciatus	50	8/26/2008	Encino	WN
Los Angeles	GRLA2655	5788	Cx quinquefasciatus	50	8/26/2008	Encino	WN
Los Angeles	GRLA2655	5804	Cx quinquefasciatus	50	8/26/2008	Encino	WN
Los Angeles	GRLA2947	5829	Cx quinquefasciatus	50	8/28/2008	Sunland	WN
Los Angeles	GRLA2951	5832	Cx quinquefasciatus	24	8/28/2008	Sunland	WN
Los Angeles	GRLA2999	5814	Cx quinquefasciatus	23	8/28/2008	Sun Valley	WN
Los Angeles	LONG0305	275	Cx quinquefasciatus	34	9/3/2008	Long Beach	WN
Orange	ORCO0006	1166	Cx quinquefasciatus	7	8/28/2008	Irvine	WN
Orange	ORCO0032	1179	Cx quinquefasciatus	50	8/29/2008	Anaheim	WN
Orange	ORCO0082	1190	Cx quinquefasciatus	50	8/29/2008	Cypress	WN
Sacramento	SAYO2103	7088	Cx tarsalis	17	9/3/2008	Carmichael	WN
Sacramento	SAYO2108	7106	Cx pipiens	27	9/3/2008	Elverta	WN
Sacramento	SAYO2211	6957	Cx tarsalis	50	8/28/2008	Sacramento	WN
Sacramento	SAYO2213	6866	Cx pipiens	11	8/27/2008	Elk Grove	WN
Sacramento	SAYO2213	6899	Cx tarsalis	50	8/28/2008	Elk Grove	WN
Sacramento	SAYO2213	6923	Cx tarsalis	6	8/28/2008	Elk Grove	WN
Sacramento	SAYO2213	6937	Cx pipiens	37	8/28/2008	Elk Grove	WN
Sacramento	SAYO2213	6939	Cx tarsalis	50	8/28/2008	Elk Grove	WN
Sacramento	SAYO2213	6941	Cx pipiens	50	8/28/2008	Elk Grove	WN

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Sacramento	SAYO2213	6943	Cx pipiens	50	8/28/2008	Elk Grove	WN
Sacramento	SAYO2213	6983	Cx tarsalis	50	8/29/2008	Elk Grove	WN
Sacramento	SAYO4223	6966	Cx pipiens	47	8/28/2008	Sacramento	WN
Sacramento	SAYO4223	6971	Cx pipiens	50	8/28/2008	Sacramento	WN
Sacramento	SAYO4250	6872	Cx tarsalis	50	8/27/2008	Sacramento	WN
Sacramento	SAYO4260	6859	Cx tarsalis	20	8/27/2008	Elk Grove	WN
Sacramento	SAYO4260	6908	Cx pipiens	31	8/28/2008	Elk Grove	WN
Sacramento	SAYO4264	6934	Cx tarsalis	3	8/28/2008	Sacramento	WN
Sacramento	SAYO7003	7183	Cx tarsalis	13	9/3/2008	Folsom	WN
San Bernardino	WVAL2007	948	Cx quinquefasciatus	50	8/26/2008	Ontario	WN
San Bernardino	WVAL5004	964	Cx quinquefasciatus	18	8/26/2008	Rancho Cucamonga	WN
San Bernardino	WVAL5005	967	Cx quinquefasciatus	50	8/26/2008	Rancho Cucamonga	WN
San Bernardino	WVAL5008	962	Cx quinquefasciatus	18	8/26/2008	Rancho Cucamonga	WN
San Bernardino	WVAL6012	966	Cx quinquefasciatus	25	8/26/2008	Ontario	WN
San Diego	SAND0043	158	Cx quinquefasciatus	18	8/28/2008	San Diego	WN
San Diego	SAND0111	159	Cx quinquefasciatus	40	8/28/2008	San Diego	WN
San Diego	SAND0173	127	Cx quinquefasciatus	21	8/22/2008	Spring Valley	WN
San Diego	SAND0179	135	Cx quinquefasciatus	28	8/25/2008	El Cajon	WN
San Diego	SAND0179	136	Cx quinquefasciatus	12	8/25/2008	El Cajon	WN
San Diego	SAND0191	151	Cx quinquefasciatus	17	8/28/2008	Encinitas	WN
San Diego	SAND0195	160	Cx quinquefasciatus	26	8/28/2008	San Diego	WN
San Diego	SAND0196	164	Cx quinquefasciatus	13	8/28/2008	Oceanside	WN
San Joaquin	SJCM8010	1559	Cx pipiens	50	9/3/2008	Ripon	WN
San Joaquin	SJCM8010	1565	Cx pipiens	50	9/3/2008	Ripon	WN
San Joaquin	SJCM8010	1569	Cx pipiens	50	9/3/2008	Ripon	WN
San Joaquin	SJCM8010	1570	Cx pipiens	50	9/3/2008	Ripon	WN
San Joaquin	SJCM8010	1572	Cx pipiens	45	9/3/2008	Ripon	WN
San Joaquin	SJCM8018	1535	Cx pipiens	50	9/3/2008	El Rancho	WN
San Joaquin	SJCM8018	1536	Cx pipiens	50	9/3/2008	El Rancho	WN
San Joaquin	SJCM8111	1555	Cx tarsalis	12	9/3/2008	Stockton	WN
San Joaquin	SJCM8157	1530	Cx pipiens	50	9/3/2008	Manteca	WN
San Joaquin	SJCM8157	1532	Cx pipiens	50	9/3/2008	Manteca	WN
Stanislaus	EAST1077	8258	Cx pipiens	50	9/3/2008	Modesto	WN
Stanislaus	EAST1077	8259	Cx pipiens	50	9/3/2008	Modesto	WN
Stanislaus	TRLK0527	1489	Cx tarsalis	4	9/3/2008	Keyes	WN
Stanislaus	TRLK0535	1485	Cx pipiens	50	9/3/2008	Keyes	WN
Stanislaus	TRLK0603	1497	Cx tarsalis	38	9/3/2008	Ceres	WN
Stanislaus	TRLK0619	1517	Cx pipiens	50	9/3/2008	Turlock	WN
Stanislaus	TRLK0625	1511	Cx pipiens	25	9/3/2008	Turlock	WN
Stanislaus	TRLK0625	1514	Cx pipiens	26	9/3/2008	Turlock	WN
Tulare	DLTA6225	472	Cx quinquefasciatus	50	8/29/2008	Kingsburg	WN
Tulare	DLTA9404	443	Cx quinquefasciatus	50	8/28/2008	Goshen	WN
Tulare	DLTA9513	430	Cx quinquefasciatus	50	8/27/2008	Farmersville	WN
Tulare	DLTA9513	431	Cx quinquefasciatus	50	8/27/2008	Farmersville	WN
Tulare	DLTA9616	467	Cx quinquefasciatus	50	8/28/2008	Exeter	WN
Tulare	DLTA9616	469	Cx quinquefasciatus	50	8/28/2008	Exeter	WN
Yolo	SAYO3220	7009	Cx pipiens	18	8/29/2008	Yolo	WN
Yolo	SAYO6006	7019	Cx tarsalis	50	8/29/2008	Woodland	WN
Yolo	SAYO6006	7049	Cx tarsalis	50	9/3/2008	Woodland	WN

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Sentinel Chickens

County	Site Code	City	Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05
Contra Costa	CNTR7402	Oakley	8/18/2008	WN	2517				
Contra Costa	CNTR8152	Knightsen	8/18/2008	WN	2505				
Fresno	CNSL5006	Sanger	8/25/2008	WN	2446	2447	2453	2454	
Fresno	CNSL5006	Sanger	8/11/2008	WN	2455				
Los Angeles	GRLA2223	Rowland Heights	8/25/2008	WN	3612	3613	3616	3617	
Los Angeles	GRLA2465	Los Angeles	8/26/2008	WN	3665	3666			
Los Angeles	GRLA2465	Los Angeles	8/12/2008	WN	3668	3670			
Los Angeles	GRLA2651	Encino	8/26/2008	WN	3658				
Los Angeles	GRLA2651	Encino	8/11/2008	WN	3659				
Los Angeles	LACW1005	El Segundo	8/25/2008	WN	1059				
Los Angeles	LONG2	Long Beach	8/11/2008	WN	2213				
Riverside	COAV200	Mecca	8/25/2008	WN	2259				
Riverside	NWST2	Glen Ivy Hot Spring	8/27/2008	WN	1369	1378			
Riverside	NWST9226	Woodcrest	8/27/2008	WN	1392				
Riverside	NWST9227	High Grove	8/27/2008	WN	1401				
San Bernardino	SANB3	Colton	8/25/2008	WN	1707	1711	1712	1713	
San Bernardino	SANB7	Fontana	8/25/2008	WN	1742	1743	1750		
San Bernardino	SANB8	Upland	8/25/2008	WN	1755	1760	1761	1763	1764
San Diego	SAND57	Sorrento Valley	8/25/2008	WN	1860	1861			
Tulare	TLRE12	Alpaugh	8/13/2008	WN	3351				

NATIONAL COMMENTS

As of September 2, 2008, 413 human cases had been reported nationwide this year in the following 34 states: Alabama (3), Arizona (8), Arkansas (7), California (127), Colorado (37), Connecticut (1), Idaho (8), Illinois (4), Indiana (1), Iowa (6), Kansas (7), Louisiana (6), Maryland (1), Michigan (2), Minnesota (15), Mississippi (53), Missouri (5), Montana (2), Nebraska (2), Nevada (7), New Mexico (3), New York (6), North Dakota (23), Ohio (2), Oklahoma (6), Oregon (4), Pennsylvania (1), South Dakota (28), Tennessee (8), Texas (19), Utah (7), West Virginia (1), Wisconsin (1), and Wyoming (2). Of the 413 individuals, 180 (44%) had neuroinvasive illness. As of September 2, five fatalities had been reported in Arizona (1), California (2), Mississippi (1) and New York (1). At this time last year, 906 human cases had been reported nationwide.

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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 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
