

California Arbovirus Surveillance Bulletin # 30

Week 37 Friday, September 12, 2008

Weekly and Year-To-Date Summaries

WEEKLY COMMENTS



Humans

Forty-three new human cases of West Nile virus (WNV) illness were reported this week from 12 counties: Butte (2), Glenn (2), Los Angeles (17), Merced (1), Orange (4), Riverside (9), Sacramento (2), San Diego (1), San Joaquin (2), Santa Clara (1), Stanislaus (1), and Yolo (1). **These are the first human cases reported this year from Glenn, Merced, Santa Clara, and Yolo counties.** A total of 198 human cases have been reported this year in the following 22 counties: Alameda (1), Butte (4), Colusa (1), Contra Costa (1), Fresno (1), Glenn (2), Los Angeles (56), Merced (1), Orange (45), Placer (2), Riverside (36), Sacramento (7), San Bernardino (5), San Diego (11), San Joaquin (8), Santa Clara (1), Shasta (1), Solano (1), Stanislaus (11), Tehama (1), Tulare (1) and Yolo (1). Of the 198 individuals, 128 (65%) developed neuroinvasive symptoms. The median age of the 198 individuals is 55 years (range: 2-88 years), and 123 (62%) are male. Four WNV-related fatalities have been reported in Los Angeles (1), Orange (2), and San Bernardino (1) counties. A total of 44 WNV-positive blood donation samples have been reported this year; 11 of the individuals reported symptoms and were reclassified as cases.

Horses

Seven WNV-positive horses were reported this week from Contra Costa (1), Placer (1), Riverside (1), San Diego (2), Tulare(1), and Yolo (1) counties. **These are the first equine WNV cases reported from Contra Costa, Placer, Tulare and Yolo counties this year.** In 2008, 15 horses have tested positive for WNV; 11 died or were euthanized as a result of their infection.

Dead Birds & Tree Squirrels

One hundred and fifty-five WNV-positive dead birds were reported this week from the following 19 counties: Alameda (1), Butte (3), Contra Costa (4), Fresno (3), Glenn (3), Kings (1), Los Angeles (26), Merced (1), Orange (46), Placer (1), Riverside (4), Sacramento (5), San Bernardino (8), San Diego (38), San Joaquin (1), Shasta (1), Stanislaus (5), Tehama (2), and Ventura (2). **This is the first indication of WNV activity from Kings County this year.** In 2008, 1,813 WNV-positive dead birds have been detected in 39 counties.

Four WNV-positive tree squirrels were reported this week from Los Angeles (2) and Orange (2) counties. In 2008, 17 tree squirrels have tested positive for WNV from Contra Costa (5), Los Angeles (5), Orange (3) and San Bernardino (4) counties.

Mosquito Pools

One hundred and ten WNV-positive mosquito pools were reported this week from the following 12 counties: Fresno (6), Kern (1), Los Angeles (19), Madera (1), Placer (1), Riverside (13), Sacramento (3), San Diego (5), San Joaquin (24), Stanislaus (21), Tulare (15), and Yolo (1). **This is the first WNV-positive pool detected in Madera County this year.** In 2008, 1,628 WNV-positive mosquito pools have been detected in 25 counties.

Sentinel Chickens

Twenty-three WNV seroconversions were reported this week from 7 counties: Butte (9), Contra Costa (2), Placer (2), San Bernardino (1), Stanislaus (3), Sutter (5), and Yuba (1). **This is the first WNV seroconversion reported from Yuba County this year.** In 2008, 196 WNV seroconversions have been detected in chickens from 16 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	26,031	27,024
# Positive Counties	49	41
# Human Cases/ # Tested	232 / 867	198 / 761
# Horse Cases/ # Tested	21 / 283	15/ 174
# Positive Dead Birds/ # Tested	980 / 4,337	1,813 /4,641
# Positive Mosquito Pools/ # Tested	902 / 22,374	1,628 / 24,353
# Positive Chicken Sera/ # Tested	275 / 21,325	196 / 22,182
# Positive Squirrels/ # Tested	13 / 150	17 / 221

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YTD WNV Activity by Element and County, 2008

County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Alameda	1		3	1		
Amador			2			
Butte	4		28	5	25	
Calaveras			1			
Colusa	1		2			
Contra Costa	1	1	59	23	4	5
El Dorado			3			
Fresno	1	1	19	46	5	
Glenn	2		15	1		
Imperial				7	11	
Kern			8	4		
Kings			1			
Lake		1	1	3		
Los Angeles	56		316	396	39	5
Madera			1	1		
Marin			1			
Mendocino			1			
Merced	1		2			
Monterey			2			
Nevada			4			
Orange	45	1	479	255	3	3
Placer	2	1	3	25	4	
Riverside	36	4	36	99	38	
Sacramento	7	1	96	271	5	
San Bernardino	5		143	129	33	4
San Diego	11	3	400	26	10	
San Joaquin	8		61	184	1	
San Mateo			2			
Santa Barbara			1			
Santa Clara	1		10	1		
Santa Cruz			1			
Shasta	1		7			
Solano	1		5	1		
Sonoma			1	1		
Stanislaus	11		35	69	8	
Sutter			2	11	7	
Tehama	1		4			
Tulare	1	1	45	51	2	
Ventura			7			
Yolo	1	1	6	17		
Yuba				1	1	
Totals	198	15	1,813	1,628	196	17

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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	35	0	43	0	0	0	0	0	0
	YTD	761	0	198	0	0	0	0	0	0
Horses Tested	Week	11	0	7	0	0	0	0	0	0
	YTD	174	0	15	0	0	0	0	0	0

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead Birds	Week	225	155
	YTD	4,641	1,813
Tree Squirrels	Week	9	4
	YTD	221	17

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive
Chicken Sera	Week	894	23	0	0
	YTD	22,182	196	0	0
Mosquito Pools: RT-PCR	Week	1,085	86	0	0
	YTD	21,839	1,309	0	0
Mosquito Pools: RAMP	Week	199	24	N/A	N/A
	YTD	2,514	319	N/A	N/A

POSITIVES: 9/8/08 – 9/12/08

Humans

County	Report Date	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
BUTTE	09/10/08	>18	M	WNF	08/23/08	NO
BUTTE	09/10/08	>18	F	WNF	08/01/08	NO
GLENN	09/09/08	<18	F	WNF	n/a	NO
GLENN	09/09/08	>18	F	WNF	n/a	NO
LOS ANGELES	09/05/08	57	F	WNF	n/a	NO
LOS ANGELES	09/11/08	72	F	WNND	08/07/08	NO
LOS ANGELES	09/11/08	61	M	WNF	08/10/08	NO
LOS ANGELES	09/11/08	68	F	WNND	08/16/08	NO
LOS ANGELES	09/11/08	35	F	WNF^	07/23/08	NO
LOS ANGELES	09/11/08	85	M	WNND	08/17/08	NO
LOS ANGELES	09/11/08	73	F	WNF	08/26/08	NO
LOS ANGELES	09/11/08	73	F	WNF	08/11/08	NO
LOS ANGELES	09/11/08	62	F	WNND	08/18/08	NO
LOS ANGELES	09/11/08	26	F	WNF	07/21/08	NO
LOS ANGELES	09/11/08	51	F	WNND	08/29/08	NO
LOS ANGELES	09/11/08	26	M	WNND	09/01/08	NO
LOS ANGELES	09/11/08	63	M	WNND	09/02/08	NO
LOS ANGELES	09/11/08	83	M	WNND	08/25/08	YES
LOS ANGELES	09/11/08	53	F	WNF	08/09/08	NO

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LOS ANGELES	09/11/08	57	M	WNND	08/13/08	NO
LOS ANGELES	09/11/08	78	F	WNND	08/29/08	NO
MERCED	09/05/08	56	M	WNND	08/11/08	NO
ORANGE	09/09/08	53	F	WNND	Week 35	NO
ORANGE	09/09/08	65	M	WNND	Week 34	NO
ORANGE	09/10/08	56	F	WNF	Week 36	NO
ORANGE	09/11/08	80	M	WNF	Week 35	NO
RIVERSIDE	09/08/08	46	M	WNND	08/22/08	NO
RIVERSIDE	09/09/08	76	M	WNND	08/22/08	NO
RIVERSIDE	09/09/08	64	F	WNND	08/18/08	NO
RIVERSIDE	09/10/08	62	M	WNF	07/21/08	NO
RIVERSIDE	09/11/08	79	M	WNND	08/08/08	NO
RIVERSIDE	09/11/08	48	M	WNF	08/18/08	NO
RIVERSIDE	09/11/08	55	M	WNND	08/19/08	NO
RIVERSIDE	09/11/08	83	M	n/a	08/18/08	NO
RIVERSIDE	09/11/08	48	M	WNND	08/15/08	NO
SACRAMENTO	09/08/08	54	M	WNF	08/04/08	NO
SACRAMENTO	09/11/08	88	M	WNND	08/25/08	NO
SAN DIEGO	09/09/08	20	M	WNND	n/a	NO
SAN JOAQUIN	09/11/08	66	F	WNF	08/08/08	NO
SAN JOAQUIN	09/11/08	52	M	WNF	08/20/08	NO
SANTA CLARA	09/11/08	49	F	WNF	08/07/08	NO
STANISLAUS	09/09/08	51	M	WNND	09/01/08	NO
YOLO	09/10/08	>18	M	WNF	09/01/08	NO

Dead Birds and Tree Squirrels

County	City	Zip Code	Species	Reported	Tested	Test Type
Alameda	Alameda	94502	Yellow Warbler	9/3/08	9/8/08	RT-PCR
Butte	Chico	95973	American Crow	8/28/08	9/8/08	RT-PCR
Butte	Oroville	95965	American Crow	9/2/08	9/8/08	RT-PCR
Butte	Durham	95938	Yellow-billed Magpie	8/29/08	9/8/08	RT-PCR
Contra Costa	San Ramon	94582	Great Horned Owl	9/1/08	9/8/08	RT-PCR
Contra Costa	Discovery Bay	94505	Western Scrub-Jay	8/28/08	9/8/08	RT-PCR
Contra Costa	Orinda	94563	Western Scrub-Jay	9/3/08	9/4/08	RAMP
Contra Costa	Pittsburg	94565	Western Scrub-Jay	9/4/08	9/5/08	RAMP
Fresno	Fresno	93722	American Crow	9/3/08	9/4/08	VecTest
Fresno	Fresno	93720	Western Scrub-Jay	9/1/08	9/8/08	RT-PCR
Fresno	Fresno	93723	Western Scrub-Jay	9/4/08	9/4/08	VecTest
Glenn	Orland	95963	American Crow	8/27/08	9/8/08	RT-PCR
Glenn	Orland	95963	American Crow	8/27/08	9/8/08	RT-PCR
Glenn	Orland	95963	American Crow	8/28/08	9/8/08	RT-PCR
Kings	Lemoore	93245	Western Scrub-Jay	9/3/08	9/8/08	RT-PCR
Los Angeles	Glendora	91741	American Crow	8/4/08	9/8/08	RT-PCR
Los Angeles	Walnut	91789	American Crow	8/11/08	9/8/08	RT-PCR
Los Angeles	Duarte	91010	American Crow	8/11/08	9/8/08	RT-PCR
Los Angeles	Long Beach	90815	American Crow	8/25/08	9/8/08	RT-PCR
Los Angeles	Long Beach	90808	American Crow	8/25/08	9/8/08	RT-PCR
Los Angeles	Harbor City	90710	American Crow	8/25/08	9/8/08	RT-PCR
Los Angeles	Long Beach	90808	American Crow	8/26/08	9/8/08	RT-PCR

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Los Angeles	Long Beach	90815	American Crow	8/27/08	9/8/08	RT-PCR
Los Angeles	Montebello	90640	American Crow	8/27/08	9/8/08	RT-PCR
Los Angeles	Long Beach	90815	American Crow	8/27/08	9/8/08	RT-PCR
Los Angeles	Long Beach	90815	American Crow	8/28/08	9/8/08	RT-PCR
Los Angeles	Covina	91723	American Crow	8/28/08	9/8/08	RT-PCR
Los Angeles	La Mirada	90638	American Crow	8/28/08	9/8/08	RT-PCR
Los Angeles	Lakewood	90712	American Crow	8/28/08	9/8/08	RT-PCR
Los Angeles	Carson	90746	American Crow	8/27/08	9/8/08	RT-PCR
Los Angeles	Woodland Hills	91367	American Crow	8/28/08	9/8/08	RT-PCR
Los Angeles	Pico Rivera	90660	American Crow	8/28/08	9/8/08	RT-PCR
Los Angeles	Los Angeles	90004	American Crow	8/28/08	9/8/08	RT-PCR
Los Angeles	Los Angeles	90004	American Crow	8/28/08	9/8/08	RT-PCR
Los Angeles	Hacienda Heights	91745	American Crow	8/28/08	9/8/08	RT-PCR
Los Angeles	Santa Clarita	91387	American Crow	8/28/08	9/8/08	RT-PCR
Los Angeles	Los Angeles	90045	American Crow	9/2/08	9/8/08	RT-PCR
Los Angeles	Claremont	91711	American Crow	9/2/08	9/8/08	RT-PCR
Los Angeles	Pomona	91766	American Crow	9/2/08	9/8/08	RT-PCR
Los Angeles	Diamond Bar	91767	American Crow	9/2/08	9/8/08	RT-PCR
Los Angeles	Claremont	91711	Fox Squirrel	8/26/2008	9/8/08	RT-PCR
Los Angeles	Van Nuys	91406	Fox Squirrel	8/29/2008	9/8/08	RT-PCR
Los Angeles	Long Beach	90808	Goldfinch	8/27/08	9/8/08	RT-PCR
Merced	Merced	95340	Yellow-billed Magpie	8/27/08	9/8/08	RT-PCR
Orange	Mission Viejo	92692	American Crow	8/26/08	8/27/08	RT-PCR
Orange	Huntington Beach	92646	American Crow	8/27/08	8/27/08	RT-PCR
Orange	Buena Park	90620	American Crow	8/27/08	8/27/08	RT-PCR
Orange	San Juan Capistrano	92675	American Crow	8/26/08	8/27/08	RT-PCR
Orange	Huntington Beach	92646	American Crow	8/27/08	8/27/08	RT-PCR
Orange	Anaheim	92802	American Crow	8/27/08	8/27/08	RT-PCR
Orange	Huntington Beach	92646	American Crow	8/27/08	8/27/08	RT-PCR
Orange	Rossmoor	90720	American Crow	8/27/08	8/27/08	RT-PCR
Orange	Lake Forest	92630	American Crow	8/26/08	8/27/08	RT-PCR
Orange	Huntington Beach	92648	American Crow	8/28/08	8/27/08	RT-PCR
Orange	Tustin	92780	American Crow	8/25/08	8/27/08	RT-PCR
Orange	Buena Park	90621	American Crow	8/28/08	8/27/08	RT-PCR
Orange	Santa Ana	92706	American Crow	8/26/08	8/27/08	RT-PCR
Orange	Costa Mesa	92627	American Crow	8/27/08	9/4/08	RT-PCR
Orange	Mission Viejo	92691	American Crow	8/28/08	9/4/08	RT-PCR
Orange	Huntington Beach	92647	American Crow	8/29/08	9/4/08	RT-PCR
Orange	Tustin	92780	American Crow	8/29/08	9/4/08	RT-PCR
Orange	Santa Ana	92704	American Crow	8/26/08	9/4/08	RT-PCR
Orange	Anaheim	92807	American Crow	8/27/08	9/4/08	RT-PCR
Orange	Buena Park	90621	American Crow	8/29/08	9/4/08	RT-PCR
Orange	Santa Ana	92705	American Crow	8/27/08	9/4/08	RT-PCR
Orange	Tustin	92780	American Crow	8/28/08	9/4/08	RT-PCR
Orange	Tustin	92782	American Crow	8/29/08	9/4/08	RT-PCR
Orange	Lake Forest	92630	American Crow	8/29/08	9/4/08	RT-PCR
Orange	Tustin	92780	American Crow	8/29/08	9/4/08	RT-PCR
Orange	Tustin	92782	American Crow	8/29/08	9/4/08	RT-PCR
Orange	Mission Viejo	92692	American Crow	8/29/08	9/4/08	RT-PCR
Orange	Huntington Beach	92647	American Crow	8/29/08	9/4/08	RT-PCR
Orange	Huntington Beach	92648	American Crow	8/29/08	9/4/08	RT-PCR
Orange	Villa Park	92861	American Crow	8/29/08	9/4/08	RT-PCR
Orange	Mission Viejo	92691	American Crow	8/29/08	9/4/08	RT-PCR

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Orange	Orange	92867	American Crow	8/29/08	9/4/08	RT-PCR
Orange	Fountain Valley	92708	Anna's Hummingbird	8/29/08	9/4/08	RT-PCR
Orange	Garden Grove	92841	Cooper's Hawk	8/20/08	8/27/08	RT-PCR
Orange	Costa Mesa	92626	Fox Squirrel	8/15/2008	9/4/08	RT-PCR
Orange	Fullerton	92833	Fox Squirrel	9/8/2008	9/8/08	RT-PCR
Orange	Garden Grove	92844	Ground Dove	8/13/08	8/27/08	RT-PCR
Orange	Anaheim	92804	Ground Dove	8/19/08	8/27/08	RT-PCR
Orange	Cypress	90630	Ground Dove	8/22/08	8/27/08	RT-PCR
Orange	Laguna Woods	92637	House Finch	8/29/08	9/4/08	RT-PCR
Orange	Brea	92823	House Finch	8/29/08	9/4/08	RT-PCR
Orange	Orange	92867	House Sparrow	8/26/08	8/27/08	RT-PCR
Orange	Fullerton	92835	House Sparrow	8/27/08	8/27/08	RT-PCR
Orange	Lake Forest	92630	Mourning Dove	8/12/08	8/27/08	RT-PCR
Orange	Fountain Valley	92708	Mourning Dove	8/22/08	8/27/08	RT-PCR
Orange	Tustin	92705	Pacific-slope Flycatcher	8/28/08	9/4/08	RT-PCR
Orange	Fullerton	92831	Western Kingbird	8/20/08	8/27/08	RT-PCR
Orange	Newport Beach	92660	White-tailed Kite	8/18/08	8/18/08	RT-PCR
Placer	Roseville	95678	Western Scrub-Jay	8/28/08	9/8/08	RT-PCR
Riverside	Sun City	92586	American Crow	8/27/08	9/8/08	RT-PCR
Riverside	Sun City	92585	American Crow	8/27/08	9/8/08	RT-PCR
Riverside	Nuevo	92567	American Crow	8/29/08	9/8/08	RT-PCR
Riverside	Riverside	92508	American Crow	9/2/08	9/8/08	RT-PCR
Sacramento	Carmichael	95608	American Crow	8/28/08	9/8/08	RT-PCR
Sacramento	Sacramento	95820	American Crow	8/28/08	9/8/08	RT-PCR
Sacramento	Rancho Cordova	95670	Western Scrub-Jay	8/28/08	9/8/08	RT-PCR
Sacramento	Citrus Heights	95610	Western Scrub-Jay	8/28/08	9/8/08	RT-PCR
Sacramento	Rosemont	95826	Western Scrub-Jay	9/2/08	9/8/08	RT-PCR
San Bernardino	San Bernardino	92404	American Crow	8/26/08	9/8/08	RT-PCR
San Bernardino	Highland	92346	American Crow	8/26/08	9/8/08	RT-PCR
San Bernardino	Upland	91786	American Crow	8/28/08	8/29/08	RAMP
San Bernardino	Upland	91786	American Crow	9/1/08	9/3/08	RAMP
San Bernardino	Ontario	91761	American Crow	9/2/08	9/2/08	RAMP
San Bernardino	Chino	91710	American Crow	9/5/08	9/5/08	RAMP
San Bernardino	Ontario	91764	American Crow	9/9/08	9/9/08	RAMP
San Bernardino	Rancho Cucamonga	91730	Western Scrub-Jay	8/28/08	9/8/08	RT-PCR
San Diego	Ramona	92065	American Crow	9/2/08	9/3/08	RT-PCR
San Diego	Oceanside	92057	American Crow	9/2/08	9/3/08	RT-PCR
San Diego	Encinitas	92024	American Crow	9/2/08	9/3/08	RT-PCR
San Diego	Oceanside	92057	American Crow	9/2/08	9/3/08	RT-PCR
San Diego	Oceanside	92056	American Crow	9/2/08	9/3/08	RT-PCR
San Diego	Vista	92081	American Crow	9/2/08	9/3/08	RT-PCR
San Diego	San Diego	92123	American Crow	9/2/08	9/3/08	RT-PCR
San Diego	Oceanside	92057	American Crow	9/2/08	9/3/08	RT-PCR
San Diego	Encinitas	92024	American Crow	9/2/08	9/3/08	RT-PCR
San Diego	Solana Beach	92075	American Crow	9/2/08	9/3/08	RT-PCR
San Diego	Oceanside	92057	American Crow	9/2/08	9/3/08	RT-PCR
San Diego	Camp Pendleton	92055	American Crow	9/3/08	9/5/08	RT-PCR
San Diego	San Diego	92130	American Crow	9/3/08	9/5/08	RT-PCR
San Diego	El Cajon	92020	American Crow	9/4/08	9/5/08	RT-PCR
San Diego	El Cajon	92020	American Crow	9/4/08	9/5/08	RT-PCR
San Diego	Solana Beach	92075	American Crow	9/4/08	9/5/08	RT-PCR
San Diego	Poway	92064	American Crow	9/4/08	9/5/08	RT-PCR

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San Diego	San Diego	92126	American Crow	9/4/08	9/9/08	RT-PCR
San Diego	Encinitas	92024	American Crow	9/4/08	9/9/08	RT-PCR
San Diego	Poway	92064	American Crow	9/5/08	9/9/08	RT-PCR
San Diego	Julian	92036	American Crow	9/5/08	9/9/08	RT-PCR
San Diego	Oceanside	92054	American Crow	9/8/08	9/9/08	RT-PCR
San Diego	Oceanside	92056	American Crow	9/8/08	9/9/08	RT-PCR
San Diego	Escondido	92025	American Crow	9/8/08	9/9/08	RT-PCR
San Diego	Vista	92183	American Crow	9/8/08	9/9/08	RT-PCR
San Diego	Encinitas	92024	American Crow	9/8/08	9/9/08	RT-PCR
San Diego	Lakeside	92040	American Crow	9/8/08	9/9/08	RT-PCR
San Diego	Oceanside	92057	American Crow	9/8/08	9/9/08	RT-PCR
San Diego	San Diego	92037	American Crow	9/8/08	9/9/08	RT-PCR
San Diego	Solana Beach	92075	American Crow	9/8/08	9/9/08	RT-PCR
San Diego	Escondido	92027	American Crow	9/8/08	9/5/08	RT-PCR
San Diego	Escondido	92027	American Crow	9/8/08	9/5/08	RT-PCR
San Diego	Escondido	92027	American Crow	9/8/08	9/5/08	RT-PCR
San Diego	San Diego	92117	American Crow	9/9/08	9/9/08	RT-PCR
San Diego	San Diego	92115	Sparrow	9/9/08	9/5/08	RT-PCR
San Diego	Julian	92036	Steller's Jay	9/2/08	9/3/08	RT-PCR
San Diego	Rancho Santa Fe	92067	Western Scrub-Jay	9/3/08	9/5/08	RT-PCR
San Diego	San Marcos	92069	Western Scrub-Jay	9/4/08	9/9/08	RT-PCR
San Joaquin	Lodi	95240	Western Scrub-Jay	8/29/08	9/8/08	RT-PCR
Shasta	Fall River Mills	96028	American Robin	9/1/08	9/8/08	RT-PCR
Stanislaus	La Grange	95329	American Robin	8/25/08	9/8/08	RT-PCR
Stanislaus	Modesto	95350	Lesser Goldfinch	9/2/08	9/8/08	RT-PCR
Stanislaus	Modesto	95350	Western Scrub-Jay	8/28/08	9/8/08	RT-PCR
Stanislaus	Denair	95316	Western Scrub-Jay	9/2/08	9/8/08	RT-PCR
Stanislaus	Turlock	95382	Yellow-billed Magpie	9/1/08	9/8/08	RT-PCR
Tehama	Corning	96021	Western Scrub-Jay	8/27/08	9/8/08	RT-PCR
Tehama	Red Bluff	96080	Yellow-billed Magpie	8/25/08	9/8/08	RT-PCR
Ventura	Camarillo	93010	American Crow	8/28/08	9/8/08	RT-PCR
Ventura	Camarillo	93012	American Crow	9/2/08	9/8/08	RT-PCR

Mosquito Pools

County	Site Code	Pool #	Species	# in Pool	Collected	City	Virus
Fresno	CNSL1592	495	Cx quinquefasciatus	50	9/5/2008	Fresno	WN
Fresno	CNSL1592	496	Cx quinquefasciatus	18	9/5/2008	Fresno	WN
Fresno	CNSL3028	557	Cx tarsalis	23	9/3/2008	Orange Cove	WN
Fresno	CNSL3178	556	Cx tarsalis	50	9/3/2008	Orange Cove	WN
Fresno	CNSL4024	568	Cx quinquefasciatus	44	9/9/2008	Selma	WN
Fresno	CNSL5104	553	Cx quinquefasciatus	50	9/3/2008	Kingsburg	WN
Kern	KERN2029	304	Cx quinquefasciatus	14	8/26/2008	Bakersfield	WN
Los Angeles	ANTV8736	32	Cx tarsalis	24	9/9/2008	Palmdale	WN
Los Angeles	GRLA2230	1034	Cx quinquefasciatus	23	9/3/2008	Rowland Heights	WN
Los Angeles	GRLA2359	1031	Cx quinquefasciatus	40	9/3/2008	Pico Rivera	WN
Los Angeles	GRLA2365	1030	Cx quinquefasciatus	33	9/3/2008	Pico Rivera	WN
Los Angeles	GRLA2417	5842	Cx quinquefasciatus	50	9/3/2008	Panorama City	WN
Los Angeles	GRLA2419	5845	Cx quinquefasciatus	40	9/3/2008	Panorama City	WN
Los Angeles	GRLA2420	5841	Cx quinquefasciatus	36	9/3/2008	Panorama City	WN
Los Angeles	GRLA2420	5848	Cx quinquefasciatus	24	9/3/2008	Panorama City	WN
Los Angeles	GRLA2421	5847	Cx quinquefasciatus	28	9/3/2008	Panorama City	WN

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Los Angeles	GRLA2468	5837	Cx quinquefasciatus	27	8/29/2008	Sunland	WN
Los Angeles	GRLA2476	5813	Cx quinquefasciatus	29	8/28/2008	Sunland	WN
Los Angeles	GRLA2523	5860	Cx stigmatosoma	25	9/5/2008	Los Angeles	WN
Los Angeles	GRLA2524	5859	Cx quinquefasciatus	33	9/5/2008	Los Angeles	WN
Los Angeles	GRLA2525	5856	Cx quinquefasciatus	48	9/5/2008	Los Angeles	WN
Los Angeles	GRLA2552	5865	Cx quinquefasciatus	45	9/5/2008	Glendale	WN
Los Angeles	GRLA2650	5781	Cx quinquefasciatus	50	8/26/2008	Encino	WN
Los Angeles	GRLA2651	5783	Cx quinquefasciatus	46	8/26/2008	Encino	WN
Los Angeles	GRLA2652	5785	Cx quinquefasciatus	25	8/26/2008	Encino	WN
Los Angeles	LONG0302	281	Cx quinquefasciatus	14	9/9/2008	Long Beach	WN
Madera	MADR1212	10	Cx pipiens	50	9/9/2008	Madera	WN
Placer	PLCR0519	836	Cx pipiens	25	9/9/2008	Roseville	WN
Riverside	COAV0017	1578	Cx tarsalis	50	9/3/2008	Mecca	WN
Riverside	COAV0033	1563	Cx tarsalis	50	9/3/2008	Mecca	WN
Riverside	COAV0033	1564	Cx tarsalis	41	9/3/2008	Mecca	WN
Riverside	COAV0068	1572	Cx tarsalis	29	9/3/2008	Mecca	WN
Riverside	COAV0130	1582	Cx tarsalis	50	9/3/2008	Mecca	WN
Riverside	COAV0540	1566	Cx tarsalis	50	9/3/2008	Mecca	WN
Riverside	COAV0540	1567	Cx tarsalis	50	9/3/2008	Mecca	WN
Riverside	COAV0542	1554	Cx tarsalis	50	9/3/2008	Mecca	WN
Riverside	RIVR0042	637	Cx quinquefasciatus	12	9/4/2008	Hemet	WN
Riverside	RIVR0046	633	Cx tarsalis	24	9/4/2008	Hemet	WN
Riverside	RIVR0048	629	Cx quinquefasciatus	45	9/4/2008	Hemet	WN
Riverside	RIVR0055	625	Cx quinquefasciatus	29	9/3/2008	Moreno Valley	WN
Riverside	RIVR0059	632	Cx quinquefasciatus	35	9/4/2008	Hemet	WN
Sacramento	SAYO2213	7234	Cx pipiens	50	9/4/2008	Elk Grove	WN
Sacramento	SAYO2213	7239	Cx pipiens	50	9/4/2008	Elk Grove	WN
Sacramento	SAYO4136	7309	Cx tarsalis	18	9/9/2008	Fair Oaks	WN
San Diego	SAND0008	153	Cx quinquefasciatus	16	8/28/2008	San Diego	WN
San Diego	SAND0154	133	Cx quinquefasciatus	23	8/22/2008	Oceanside	WN
San Diego	SAND0187	147	Cx quinquefasciatus	25	8/28/2008	La Mesa	WN
San Diego	SAND0202	174	Cx quinquefasciatus	50	9/5/2008	Chula Vista	WN
San Diego	SAND0205	179	Cx quinquefasciatus	36	9/5/2008	Del Mar	WN
San Joaquin	SJCM8009	1697	Cx tarsalis	50	9/5/2008	Stockton	WN
San Joaquin	SJCM8009	1710	Cx tarsalis	50	9/5/2008	Stockton	WN
San Joaquin	SJCM8009	1717	Cx tarsalis	50	9/5/2008	Stockton	WN
San Joaquin	SJCM8009	1722	Cx pipiens	29	9/5/2008	Stockton	WN
San Joaquin	SJCM8009	1723	Cx tarsalis	50	9/5/2008	Stockton	WN
San Joaquin	SJCM8009	1726	Cx tarsalis	50	9/5/2008	Stockton	WN
San Joaquin	SJCM8009	1728	Cx pipiens	50	9/5/2008	Stockton	WN
San Joaquin	SJCM8009	1741	Cx pipiens	50	9/5/2008	Stockton	WN
San Joaquin	SJCM8011	1769	Cx pipiens	44	9/10/2008	Ripon	WN
San Joaquin	SJCM8029	1774	Cx pipiens	50	9/10/2008	Farmington	WN
San Joaquin	SJCM8047	1597	Cx pipiens	50	9/5/2008	Stockton	WN
San Joaquin	SJCM8047	1599	Cx pipiens	50	9/5/2008	Stockton	WN
San Joaquin	SJCM8056	1627	Cx tarsalis	19	9/5/2008	Manteca	WN
San Joaquin	SJCM8070	1603	Cx tarsalis	7	9/5/2008	Galt	WN
San Joaquin	SJCM8079	1657	Cx pipiens	50	9/5/2008	Manteca	WN
San Joaquin	SJCM8079	1662	Cx pipiens	50	9/5/2008	Manteca	WN
San Joaquin	SJCM8079	1665	Cx pipiens	50	9/5/2008	Manteca	WN
San Joaquin	SJCM8079	1669	Cx pipiens	50	9/5/2008	Manteca	WN
San Joaquin	SJCM8079	1671	Cx pipiens	50	9/5/2008	Manteca	WN
San Joaquin	SJCM8079	1780	Cx pipiens	50	9/10/2008	Manteca	WN

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San Joaquin	SJCM8083	1683	Cx pipiens	50	9/5/2008	Escalon	WN
San Joaquin	SJCM8083	1760	Cx pipiens	50	9/10/2008	Escalon	WN
San Joaquin	SJCM8106	1764	Cx pipiens	50	9/10/2008	Escalon	WN
San Joaquin	SJCM8129	1638	Cx pipiens	31	9/5/2008	Ripon	WN
Stanislaus	TRLK0414	1703	Cx tarsalis	50	9/9/2008	Modesto	WN
Stanislaus	TRLK0421	1525	Cx pipiens	50	9/9/2008	Hughson	WN
Stanislaus	TRLK0421	1527	Cx pipiens	50	9/9/2008	Hughson	WN
Stanislaus	TRLK0421	1528	Cx pipiens	50	9/9/2008	Hughson	WN
Stanislaus	TRLK0432	1542	Cx pipiens	50	9/9/2008	Turlock	WN
Stanislaus	TRLK0434	1594	Cx tarsalis	4	9/9/2008	Ceres	WN
Stanislaus	TRLK0504	1551	Cx pipiens	50	9/9/2008	Denair	WN
Stanislaus	TRLK0504	1556	Cx pipiens	50	9/9/2008	Denair	WN
Stanislaus	TRLK0504	1560	Cx pipiens	50	9/9/2008	Denair	WN
Stanislaus	TRLK0504	1565	Cx pipiens	50	9/9/2008	Denair	WN
Stanislaus	TRLK0516	1570	Cx pipiens	50	9/9/2008	Denair	WN
Stanislaus	TRLK0516	1571	Cx pipiens	50	9/9/2008	Denair	WN
Stanislaus	TRLK0516	1572	Cx pipiens	50	9/9/2008	Denair	WN
Stanislaus	TRLK0516	1574	Cx pipiens	50	9/9/2008	Denair	WN
Stanislaus	TRLK0526	1520	Cx pipiens	50	9/3/2008	Denair	WN
Stanislaus	TRLK0531	1532	Cx pipiens	50	9/9/2008	Turlock	WN
Stanislaus	TRLK0538	1586	Cx tarsalis	5	9/9/2008	hughson	WN
Stanislaus	TRLK0538	1588	Cx pipiens	50	9/9/2008	hughson	WN
Stanislaus	TRLK0538	1590	Cx pipiens	50	9/9/2008	hughson	WN
Stanislaus	TRLK0605	1494	Cx pipiens	13	9/3/2008	Ceres	WN
Stanislaus	TRLK0613	1582	Cx pipiens	33	9/9/2008	Hickman	WN
Tulare	DLTA6226	538	Cx quinquefasciatus	50	9/3/2008	Kingsburg	WN
Tulare	DLTA6236	530	Cx quinquefasciatus	50	9/3/2008	Kingsburg	WN
Tulare	DLTA6330	523	Cx quinquefasciatus	50	9/3/2008	Kingsburg	WN
Tulare	DLTA6332	526	Cx quinquefasciatus	50	9/3/2008	Kingsburg	WN
Tulare	DLTA6403	552	Cx quinquefasciatus	50	9/9/2008	Sultana	WN
Tulare	DLTA6403	553	Cx quinquefasciatus	50	9/9/2008	Sultana	WN
Tulare	DLTA6403	557	Cx stigmatosoma	30	9/9/2008	Sultana	WN
Tulare	DLTA7315	517	Cx quinquefasciatus	50	9/3/2008	Traver	WN
Tulare	DLTA7316	504	Cx quinquefasciatus	50	9/3/2008	Traver	WN
Tulare	DLTA7316	515	Cx quinquefasciatus	50	9/3/2008	Traver	WN
Tulare	DLTA7323	522	Cx quinquefasciatus	50	9/3/2008	Traver	WN
Tulare	DLTA7520	560	Cx quinquefasciatus	50	9/9/2008	Yettem	WN
Tulare	DLTA7520	561	Cx quinquefasciatus	50	9/9/2008	Yettem	WN
Tulare	DLTA9603	548	Cx quinquefasciatus	34	9/4/2008	Exeter	WN
Tulare	DLTA9616	466	Cx quinquefasciatus	50	8/28/2008	Exeter	WN
Yolo	SAYO3343	7351	Cx pipiens	50	9/9/2008	Davis	WN

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Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Butte	BUCO0002	Oroville	9/2/2008	WN	2121	2122	2129	2130
Butte	BUCO0002	Oroville	8/18/2008	WN	2125			
Butte	BUCO0003	Oroville	9/2/2008	WN	2133	2134	2135	
Butte	BUCO0004	Gridley	9/2/2008	WN	2144			
Contra Costa	CNTR8152	Knightsen	9/2/2008	WN	2507	2511		
Placer	PLCR0403	Sheridan	9/2/2008	WN	1460			
Placer	PLCR0396	Roseville	9/2/2008	WN	1482			
San Bernardino	WVAL0004	Ontario	8/14/2008	WN	1979			
Stanislaus	EAST1947	Modesto	9/3/2008	WN	2629	2632	2633	
Sutter	SUYA0031	Rio Oso	8/21/2008	WN	4953	4957	4959	
Sutter	SUYA0015	Robbins	8/21/2008	WN	4968			
Sutter	SUYA0014	Sutter	9/4/2008	WN	4980			
Yuba	SUYA0007	Marysville	8/21/2008	WN	4939			

NATIONAL COMMENTS

As of September 9, 2008, 510 human cases had been reported nationwide this year in the following 34 states: Alabama (8), Arizona (8), Arkansas (7), California (155), Colorado (37), Connecticut (1), Idaho (22), Illinois (4), Indiana (1), Iowa (6), Kansas (12), Louisiana (6), Maryland (2), Michigan (2), Minnesota (16), Mississippi (71), Missouri (6), Montana (4), Nebraska (2), Nevada (12), New Mexico (3), New York (6), North Dakota (23), Ohio (5), Oklahoma (6), Oregon (4), Pennsylvania (2), South Dakota (34), Tennessee (8), Texas (23), Utah (7), West Virginia (1), Wisconsin (3), and Wyoming (3). Of the 510 individuals, 217 (43%) had neuroinvasive illness. As of September 9, eight fatalities had been reported in Arizona (1), California (3), Mississippi (2), New York (1) and Texas (1). At this time last year, 1,395 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
