

California Arbovirus Surveillance Bulletin # 28

Week 35 Friday, August 29, 2008

Weekly and Year-To-Date Summaries

WEEKLY COMMENTS



Humans

Thirty-five new human cases of West Nile virus (WNV) illness were reported this week from Los Angeles (9), Orange (13), Riverside (4), San Bernardino (1), San Diego (4), San Joaquin (1), Shasta (1), and Stanislaus (2) counties. In 2008, 127 human cases have been reported this year in the following 14 counties: Alameda (1), Butte (2), Fresno (1), Los Angeles (34), Orange (34), Riverside (23), Sacramento (4), San Bernardino (3), San Diego (9), San Joaquin (6), Shasta (1), Solano (1), Stanislaus (7), and Tulare (1). Of the 127 individuals, 89 (70%) developed neuroinvasive symptoms. The median age of the 127 individuals is 54 years (range: 4-84 years), and 79 (63%) are male. Two WNV-related fatalities have been reported in Orange County. In addition, 30 WNV-positive blood donation samples have been reported this year; 9 of the individuals reported symptoms and were reclassified as cases. At this time last year, 172 human cases had been reported in California.

Horses

One new WNV-positive horse was reported this week from Sacramento County. This is the first equine WNV case reported in Sacramento County this year. In 2008, six horses have tested positive for WNV from Fresno (1), Orange (1), Riverside (2), Sacramento (1), and San Diego (1) counties.

Dead Birds & Tree Squirrels

One hundred and sixty-one WNV-positive dead birds were reported this week from the following counties: Contra Costa (8), Fresno (1), Glenn (3), Los Angeles (59), Orange (16), Riverside (4), Sacramento (5), San Bernardino (23), San Diego (33), San Joaquin (2), San Mateo (1), Santa Barbara (1), Stanislaus (2), Ventura (2), and Yolo (1). **This is the first indication of WNV from Santa Barbara County this year.** In 2008, 1,456 WNV-positive dead birds have been detected in 36 counties.

Two WNV-positive tree squirrels were reported this week from Orange and San Bernardino counties. This is the first WNV-positive tree squirrel reported from Orange County this year. In 2008, 11 tree squirrels have tested positive for WNV from Contra Costa (5), Los Angeles (1), Orange (1) and San Bernardino (4) counties.

Mosquito Pools

One hundred and forty-three WNV-positive mosquito pools were reported this week from the following counties: Contra Costa (2), Fresno (8), Los Angeles (64), Orange (11), Placer (3), Riverside (8), Sacramento (19), San Joaquin (14), Stanislaus (5), Sutter (1), Tulare (3), and Yolo (5). In 2008, 1,405[^] WNV-positive mosquito pools have been detected in 24 counties.

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

Sentinel Chickens

Twenty-seven new WNV seroconversions were reported this week from Butte (14), Imperial (7), Placer (2), Riverside (2), San Bernardino (1), and Sutter (1) counties. These are the first seroconversions reported from Placer County this year. In 2008, 134* WNV seroconversions have been detected in chickens from 13 counties.

*Two seroconversions from Riverside County were reported twice and have been removed from the total.

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	24,106	24,693
# Positive Counties	48	39
# Human Cases/ # Tested	172 / 758	127 / 665
# Horse Cases/ # Tested	18 / 263	6 / 161
# Positive Dead Birds/ # Tested	789 / 4,026	1,456 / 4,154
# Positive Mosquito Pools/ # Tested	761 / 19,978	1,405 / 21,982
# Positive Chicken Sera/ # Tested	194 / 19,601	134 / 20,419
# Positive Squirrels/ # Tested	10 / 133	11 / 119

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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		20	5	16	
Calaveras			1			
Colusa			2			
Contra Costa			48	20		5
El Dorado			2			
Fresno	1	1	11	35		
Glenn			9	1		
Imperial				7	11	
Kern			7	3		
Lake				3		
Los Angeles	34		257	350	27	1
Marin			1			
Mendocino			1			
Merced			1			
Monterey			2			
Nevada			4			
Orange	34	1	370	252	3	1
Placer			2	24	2	
Riverside	23	2	28	86	33	
Sacramento	4	1	79	250	5	
San Bernardino	3		120	124	20	4
San Diego	9	1	319	13	8	
San Joaquin	6		59	134	1	
San Mateo			2			
Santa Barbara			1			
Santa Clara			9	1		
Santa Cruz			1			
Shasta	1		6			
Solano	1		5	1		
Sonoma			1	1		
Stanislaus	7		25	39	5	
Sutter			2	11	2	
Tehama			2			
Tulare	1		45	30	1	
Ventura			5			
Yolo			5	13		
Yuba				1		
Totals	127	6	1,456	1,405	134	11

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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	29	0	35	0	0	0	0	0	0
	YTD	665	0	127	0	0	0	0	0	0
Horses Tested	Week	1	0	1	0	0	0	0	0	0
	YTD	161	0	6	0	0	0	0	0	0

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead Birds	Week	244	161
	YTD	4,154	1,456
Tree Squirrels	Week	6	2
	YTD	119	11

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive
Chicken Sera	Week	1,053	27	0	0
	YTD	20,419	134	0	0
Mosquito Pools: RT-PCR	Week	1,538	125	0	0
	YTD	19,755	1,143	0	0
Mosquito Pools: RAMP	Week	127	18	N/A	N/A
	YTD	2,227	262	N/A	N/A

POSITIVES: 8/25/08 – 8/29/08

Humans

County	Report Date	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
LOS ANGELES	08/22/08	45	F	WNF	07/28/08	NO
LOS ANGELES	08/22/08	67	M	WNND	08/12/08	NO
LOS ANGELES	08/22/08	59	M	WNND	07/18/08	NO
LOS ANGELES	08/28/08	61	F	WNND	08/15/08	NO
LOS ANGELES	08/28/08	34	M	WNF	08/08/08	NO
LOS ANGELES	08/28/08	72	M	WNND	08/05/08	NO
LOS ANGELES	08/28/08	69	F	WNND	08/07/08	NO
LOS ANGELES	08/28/08	54	M	WNND	08/10/08	NO
LOS ANGELES	08/28/08	34	M	WNF	08/03/08	NO
ORANGE	08/22/08	39	F	WNF	Week 31	NO
ORANGE	08/25/08	59	F	WNND	Week 33	NO
ORANGE	08/25/08	72	F	WNND	Week 30	YES
ORANGE	08/25/08	44	M	WNND	Week 32	NO
ORANGE	08/25/08	31	M	WNND	Week 33	NO
ORANGE	08/26/08	76	M	WNND	Week 33	NO
ORANGE	08/26/08	59	M	WNF	Week 32	NO
ORANGE	08/27/08	21	F	WNF	Week 32	NO
ORANGE	08/27/08	24	M	WNND	Week 32	NO
ORANGE	08/27/08	64	M	WNND	Week 32	YES
ORANGE	08/27/08	56	F	WNND	Week 33	NO

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ORANGE	08/28/08	74	M	WNND	Week 29	NO
ORANGE	08/29/08	62	F	WNND	Week 32	NO
RIVERSIDE	08/25/08	79	M	WNND	07/01/08	NO
RIVERSIDE	08/26/08	42	F	WNF	06/07/08	NO
RIVERSIDE	08/27/08	59	F	WNND	08/15/08	NO
RIVERSIDE	08/28/08	54	M	WNND	07/28/08	NO
SAN BERNARDINO	08/29/08	31	F	WNND	07/27/08	NO
SAN DIEGO	08/28/08	53	M	WNND	n/a	NO
SAN DIEGO	08/28/08	48	F	WNND	n/a	NO
SAN DIEGO	08/28/08	56	M	WNF	n/a	NO
SAN DIEGO	08/28/08	56	F	WNND	n/a	NO
SAN JOAQUIN	08/28/08	46	M	WNF	08/10/08	NO
SHASTA	08/29/08	>18	n/a	WNF^	Week 32	NO
STANISLAUS	08/27/08	59	M	WNF	n/a	NO
STANISLAUS	08/28/08	71	M	WNF	n/a	NO

Dead Birds and Tree Squirrels

County	City	Zip	Species	Reported	Tested	Test Method
Contra Costa	Antioch	94531	Western Scrub-Jay	8/12/08	8/25/08	RT-PCR
Contra Costa	Antioch	94531	Western Scrub-Jay	8/14/08	8/25/08	RT-PCR
Contra Costa	Antioch	94509	Western Scrub-Jay	8/18/08	8/25/08	RT-PCR
Contra Costa	Antioch	94509	American Crow	8/20/08	8/22/08	RAMP
Contra Costa	Bay Point	94565	American Crow	8/22/08	8/22/08	RAMP
Contra Costa	Brentwood	94513	American Crow	8/21/08	8/22/08	RAMP
Contra Costa	Brentwood	94513	American Crow	8/22/08	8/25/08	RAMP
Contra Costa	Oakley	94561	American Crow	8/25/08	8/25/08	RAMP
Fresno	Fresno	93722	House Finch	8/19/08	8/25/08	RT-PCR
Glenn	Orland	95963	Yellow-billed Magpie	8/20/08	8/25/08	RT-PCR
Glenn	Willows	95988	American Crow	8/18/08	8/25/08	RT-PCR
Glenn	Willows	95988	American Crow	8/19/08	8/25/08	RT-PCR
Los Angeles	Agoura Hills	91301	House Finch	8/18/08	8/25/08	RT-PCR
Los Angeles	Arcadia	91007	American Crow	7/23/08	7/23/08	RAMP
Los Angeles	Arcadia	91006	American Crow	8/17/08	8/25/08	RT-PCR
Los Angeles	Beverly Hills	90210	American Crow	8/26/08	8/26/08	VecTest
Los Angeles	Calabasas	91302	Red-shouldered Hawk	8/19/08	8/25/08	RT-PCR
Los Angeles	Calabasas	91302	Red-tailed Hawk	8/20/08	8/25/08	RT-PCR
Los Angeles	Canoga Park	91304	American Crow	8/18/08	8/25/08	RT-PCR
Los Angeles	Canyon Country	91351	American Crow	8/18/08	8/25/08	RT-PCR
Los Angeles	Compton	90220	American Crow	8/15/08	8/25/08	RT-PCR
Los Angeles	Compton	90220	American Crow	8/15/08	8/25/08	RT-PCR
Los Angeles	Covina	91722	American Crow	6/18/08	6/19/08	RAMP
Los Angeles	Doamond Bar	91765	American Crow	8/20/08	8/25/08	RT-PCR
Los Angeles	Glendale	91202	American Crow	8/18/08	8/25/08	RT-PCR
Los Angeles	Glendora	91741	American Crow	7/14/08	7/14/08	RAMP
Los Angeles	Glendora	91741	Brewer's Blackbird	8/4/08	8/4/08	RAMP
Los Angeles	Hacienda Heights	91745	Goose	8/13/08	8/25/08	RT-PCR

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Los Angeles	Irwindale	91706	American Crow	7/22/08	7/22/08	RAMP
Los Angeles	La Verne	91750	House Finch	8/15/08	8/25/08	RT-PCR
Los Angeles	Lakewood	90715	American Crow	8/19/08	8/25/08	RT-PCR
Los Angeles	Long Beach	90815	American Crow	7/17/08	7/23/08	RT-PCR
Los Angeles	Long Beach	90808	American Crow	8/12/08	8/25/08	RT-PCR
Los Angeles	Long Beach	90808	American Crow	8/13/08	8/25/08	RT-PCR
Los Angeles	Long Beach	90815	American Crow	8/14/08	8/25/08	RT-PCR
Los Angeles	Long Beach	90808	American Crow	8/14/08	8/25/08	RT-PCR
Los Angeles	Long Beach	90807	American Crow	8/15/08	8/25/08	RT-PCR
Los Angeles	Long Beach	90815	American Crow	8/15/08	8/25/08	RT-PCR
Los Angeles	Long Beach	90815	American Crow	8/15/08	8/25/08	RT-PCR
Los Angeles	Long Beach	90808	American Crow	8/15/08	8/25/08	RT-PCR
Los Angeles	Long Beach	90808	American Crow	8/18/08	8/25/08	RT-PCR
Los Angeles	Long Beach	90815	American Crow	8/18/08	8/25/08	RT-PCR
Los Angeles	Long Beach	90815	American Crow	8/18/08	8/25/08	RT-PCR
Los Angeles	Long Beach	90808	American Crow	8/18/08	8/25/08	RT-PCR
Los Angeles	Long Beach	90815	American Crow	8/18/08	8/25/08	RT-PCR
Los Angeles	Long Beach	90815	American Crow	8/18/08	8/25/08	RT-PCR
Los Angeles	Long Beach	90808	American Crow	8/19/08	8/25/08	RT-PCR
Los Angeles	Long Beach	90804	American Crow	8/18/08	8/25/08	RT-PCR
Los Angeles	Long Beach	90810	American Crow	8/19/08	8/25/08	RT-PCR
Los Angeles	Long Beach	90807	American Crow	8/19/08	8/25/08	RT-PCR
Los Angeles	Long Beach	90808	American Crow	8/19/08	8/25/08	RT-PCR
Los Angeles	Los Angeles	90008	American Crow	8/25/08	8/25/08	VecTest
Los Angeles	Monrovia	91016	American Crow	8/20/08	8/25/08	RT-PCR
Los Angeles	Monrovia	91016	American Crow	8/20/08	8/25/08	RT-PCR
Los Angeles	Northridge	91325	American Crow	8/18/08	8/25/08	RT-PCR
Los Angeles	Pico Rivera	90660	American Crow	8/18/08	8/25/08	RT-PCR
Los Angeles	Rosemead	91770	American Crow	6/3/08	6/3/08	RAMP
Los Angeles	San Gabriel	91775	American Crow	7/14/08	7/16/08	RAMP
Los Angeles	San Gabriel	91775	American Crow	7/24/08	7/24/08	RAMP
Los Angeles	San Gabriel	91775	American Crow	7/25/08	7/25/08	RAMP
Los Angeles	San Marino	91108	American Crow	8/14/08	8/25/08	RT-PCR
Los Angeles	Temple City	91780	American Crow	7/16/08	7/17/08	RAMP
Los Angeles	Torrance	90502	American Crow	8/26/08	8/26/08	VecTest
Los Angeles	West Covina	91790	American Crow	7/11/08	7/11/08	RAMP
Los Angeles	West Covina	91790	American Crow	7/17/08	7/18/08	RAMP
Los Angeles	West Covina	91790	American Crow	7/22/08	7/23/08	RAMP
Los Angeles	West Covina	91790	American Crow	7/23/08	7/23/08	RAMP
Los Angeles	West Covina	91790	American Crow	7/25/08	7/24/08	RAMP
Los Angeles	Whittier	90601	American Crow	8/18/08	8/25/08	RT-PCR
Los Angeles	Woodland Hills	91367	American Crow	8/14/08	8/25/08	RT-PCR
Los Angeles	Woodland Hills	91367	American Crow	8/18/08	8/25/08	RT-PCR
Orange	Buena Park	90620	American Crow	8/14/08	8/19/08	RT-PCR
Orange	Costa Mesa	92628	American Crow	8/15/08	8/19/08	RT-PCR
Orange	Costa Mesa	92627	American Crow	8/14/08	8/19/08	RT-PCR
Orange	Fountain Valley	92708	American Crow	8/14/08	8/19/08	RT-PCR
Orange	Huntington Beach	92647	Sparrow	8/14/08	8/19/08	RT-PCR
Orange	Huntington Beach	92648	American Crow	8/13/08	8/19/08	RT-PCR
Orange	Huntington Beach	92647	American Crow	8/14/08	8/19/08	RT-PCR

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Orange	Huntington Beach	92647	American Crow	8/14/08	8/19/08	RT-PCR
Orange	Los Alamitos	90720	American Crow	8/13/08	8/19/08	RT-PCR
Orange	Los Alamitos	90720	Common Raven	8/13/08	8/19/08	RT-PCR
Orange	Orange	92867	American Crow	8/14/08	8/19/08	RT-PCR
Orange	Orange	92866	American Crow	6/23/08	6/24/08	RT-PCR
Orange	Santa Ana	92707	American Crow	8/15/08	8/19/08	RT-PCR
Orange	Santa Ana	92701	American Crow	8/14/08	8/19/08	RT-PCR
Orange	Santa Ana	92705	American Crow	8/13/08	8/19/08	RT-PCR
Orange	Seal Beach	90740	Unknown - Squirrel	8/13/2008	8/14/2008	RT-PCR
Orange	Tustin	92780	American Crow	8/15/08	8/19/08	RT-PCR
Riverside	Moreno Valley	92553	American Crow	8/18/08	8/25/08	RT-PCR
Riverside	Nuevo	92567	American Crow	8/18/08	8/25/08	RT-PCR
Riverside	Riverside	92504	American Crow	8/15/08	8/25/08	RT-PCR
Riverside	Temecula	92592	American Crow	8/13/08	8/25/08	RT-PCR
Sacramento	Carmichael	95608	House Finch	8/19/08	8/25/08	RT-PCR
Sacramento	Citrus Heights	95621	American Crow	8/18/08	8/25/08	RT-PCR
Sacramento	Orangevale	95662	American Crow	8/18/08	8/25/08	RT-PCR
Sacramento	Rio Linda	95673	American Crow	8/14/08	8/25/08	RT-PCR
Sacramento	Rio Linda	95673	American Crow	8/14/08	8/25/08	RT-PCR
San Bernardino	Chino	91710	American Crow	8/21/08	8/21/08	RAMP
San Bernardino	Chino	91710	American Crow	8/21/08	8/21/08	RAMP
San Bernardino	Chino	91710	American Crow	8/21/08	8/21/08	RAMP
San Bernardino	Chino	91710	American Crow	8/21/08	8/21/08	RAMP
San Bernardino	Chino	91710	American Crow	8/22/08	8/22/08	RAMP
San Bernardino	Chino	91710	American Crow	8/22/08	8/22/08	RAMP
San Bernardino	Chino	91710	American Crow	8/22/08	8/22/08	RAMP
San Bernardino	Chino	91710	American Crow	8/22/08	8/22/08	RAMP
San Bernardino	Chino	91710	American Crow	8/25/08	8/25/08	RAMP
San Bernardino	Chino	91710	American Crow	8/25/08	8/25/08	RAMP
San Bernardino	Chino	91710	American Crow	8/25/08	8/25/08	RAMP
San Bernardino	Chino	91710	American Crow	8/25/08	8/25/08	RAMP
San Bernardino	Chino	91710	American Crow	8/25/08	8/25/08	RAMP
San Bernardino	Chino	91710	American Crow	8/26/08	8/26/08	VecTest
San Bernardino	Chino Hills	91709	Lesser Goldfinch	8/18/08	8/25/08	RT-PCR
San Bernardino	Chino Hills	91709	American Crow	8/20/08	8/20/08	RAMP
San Bernardino	Lake Arrowhead	92352	Western Gray Squirrel	8/15/2008	8/25/08	RT-PCR
San Bernardino	Ontario	91762	American Crow	8/22/08	8/22/08	RAMP
San Bernardino	Ontario	91761	American Crow	8/26/08	8/26/08	RAMP
San Bernardino	Rancho Cucamonga	91739	House Finch	8/18/08	8/25/08	RT-PCR
San Bernardino	Rancho Cucamonga	91730	American Crow	8/22/08	8/22/08	VecTest
San Bernardino	Rancho Cucamonga	91730	American Crow	8/22/08	8/22/08	RAMP
San Bernardino	Rancho Cucamonga	91730	American Crow	8/25/08	8/25/08	RAMP
San Bernardino	Rancho Cucamonga	91737	American Crow	8/26/08	8/26/08	RAMP
San Bernardino	Upland	91784	House Sparrow	8/15/08	8/25/08	RT-PCR
San Diego	Alpine	91901	American Crow	8/20/08	8/22/08	RT-PCR
San Diego	Bonsall	92003	American Crow	8/18/08	8/21/08	RT-PCR
San Diego	Carlsbad	92008	American Crow	8/18/08	8/21/08	RT-PCR
San Diego	Carlsbad	92008	American Crow	8/18/08	8/21/08	RT-PCR
San Diego	El Cajon	92020	American Crow	8/18/08	8/21/08	RT-PCR
San Diego	El Cajon	92019	American Crow	8/19/08	8/21/08	RT-PCR
San Diego	El Cajon	92020	American Crow	8/20/08	8/22/08	RT-PCR

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San Diego	Encinitas	92024	American Crow	8/20/08	8/22/08	RT-PCR
San Diego	Escondido	92026	American Crow	8/19/08	8/21/08	RT-PCR
San Diego	Escondido	92026	Red-shouldered Hawk	8/19/08	8/21/08	RT-PCR
San Diego	Escondido	92026	American Crow	8/20/08	8/22/08	RT-PCR
San Diego	Escondido	92025	Western Scrub-Jay	8/21/08	8/22/08	RT-PCR
San Diego	Escondido	92025	American Crow	8/21/08	8/22/08	RT-PCR
San Diego	Lakeside	92040	American Crow	8/20/08	8/22/08	RT-PCR
San Diego	Oceanside	92058	American Crow	8/18/08	8/21/08	RT-PCR
San Diego	Oceanside	92057	American Crow	8/18/08	8/21/08	RT-PCR
San Diego	Oceanside	92056	American Crow	8/19/08	8/21/08	RT-PCR
San Diego	Oceanside	92056	American Crow	8/20/08	8/22/08	RT-PCR
San Diego	Oceanside	92057	American Crow	8/20/08	8/22/08	RT-PCR
San Diego	Oceanside	92057	American Crow	8/21/08	8/22/08	RT-PCR
San Diego	Poway	92064	American Crow	8/18/08	8/21/08	RT-PCR
San Diego	Poway	92064	American Crow	8/18/08	8/21/08	RT-PCR
San Diego	Poway	92064	American Crow	8/18/08	8/21/08	RT-PCR
San Diego	Ramona	92065	American Crow	8/18/08	8/21/08	RT-PCR
San Diego	Ramona	92065	American Crow	8/19/08	8/21/08	RT-PCR
San Diego	San Diego	92131	American Crow	8/18/08	8/21/08	RT-PCR
San Diego	San Diego	92109	American Crow	8/19/08	8/21/08	RT-PCR
San Diego	San Diego	92130	American Crow	8/19/08	8/21/08	RT-PCR
San Diego	San Diego	92117	American Crow	8/19/08	8/21/08	RT-PCR
San Diego	San Diego	92123	American Crow	8/21/08	8/22/08	RT-PCR
San Diego	San Diego	92124	American Crow	8/21/08	8/22/08	RT-PCR
San Diego	Santee	92071	American Crow	8/18/08	8/21/08	RT-PCR
San Diego	Vista	92084	American Crow	8/21/08	8/22/08	RT-PCR
San Joaquin	French Camp	95231	American Crow	8/20/08	8/20/08	VecTest
San Joaquin	Manteca	95336	American Crow	8/21/08	8/21/08	VecTest
San Mateo	Atherton	94027	Sparrow	8/15/08	8/25/08	RT-PCR
Santa Barbara	Santa Barbara	93108	American Crow	8/18/08	8/25/08	RT-PCR
Stanislaus	Modesto	95356	House Sparrow	8/13/08	8/25/08	RT-PCR
Stanislaus	Riverbank	95367	American Crow	8/21/08	8/22/08	RAMP
Ventura	Ventura	93003	American Crow	8/19/08	8/25/08	RT-PCR
Ventura	Westlake Village	91361	American Crow	8/20/08	8/25/08	RT-PCR
Yolo	Woodland	95695	American Crow	8/18/08	8/25/08	RT-PCR

Mosquito Pools

County	Site Code	Pool #	Species	# in Pool	City	Collected	Tested	Virus
Contra Costa	CNTR7402	421	Cx tarsalis	50	Oakley	8/25/2008	8/29/2008	WNV
Contra Costa	CNTR8302	370	Cx pipiens	35	Knightsen	8/18/2008	8/27/2008	WNV
Fresno	CNSL1060	469	Cx tarsalis	50	Clovis	8/20/2008	8/28/2008	WNV
Fresno	CNSL1060	470	Cx tarsalis	50	Clovis	8/20/2008	8/28/2008	WNV
Fresno	CNSL1157	1015	Cx tarsalis	30	Clovis	8/28/2008	8/28/2008	WNV
Fresno	CNSL1161	1013	Cx quinquefasciatus	33	Clovis	8/28/2008	8/28/2008	WNV
Fresno	CNSL1161	1014	Cx tarsalis	50	Clovis	8/28/2008	8/28/2008	WNV
Fresno	CNSL1170	1012	Cx tarsalis	35	Clovis	8/27/2008	8/27/2008	WNV
Fresno	CNSL4011	539	Cx quinquefasciatus	13	Fresno	8/26/2008	8/28/2008	WNV
Fresno	CNSL4028	535	Cx quinquefasciatus	21	Selma	8/21/2008	8/28/2008	WNV

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Los Angeles	GRLA2219	998	Cx quinquefasciatus	35	Rowland Heights	8/19/2008	8/29/2008	WNV
Los Angeles	GRLA2223	997	Cx quinquefasciatus	40	Rowland Heights	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2225	995	Cx quinquefasciatus	37	Rowland Heights	8/19/2008	8/29/2008	WNV
Los Angeles	GRLA2230	996	Cx quinquefasciatus	50	Rowland Heights	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2297	1024	Cx quinquefasciatus	50	Los Angeles	8/21/2008	8/28/2008	WNV
Los Angeles	GRLA2300	1013	Cx quinquefasciatus	50	Los Angeles	8/21/2008	8/28/2008	WNV
Los Angeles	GRLA2301	1020	Cx quinquefasciatus	22	Los Angeles	8/21/2008	8/28/2008	WNV
Los Angeles	GRLA2310	1021	Cx quinquefasciatus	30	Gardena	8/21/2008	8/29/2008	WNV
Los Angeles	GRLA2321	1010	Cx quinquefasciatus	39	Carson	8/21/2008	8/28/2008	WNV
Los Angeles	GRLA2334	1015	Cx quinquefasciatus	14	Whittier	8/21/2008	8/28/2008	WNV
Los Angeles	GRLA2334	1016	Cx quinquefasciatus	50	Whittier	8/21/2008	8/28/2008	WNV
Los Angeles	GRLA2334	1017	Cx quinquefasciatus	44	Whittier	8/21/2008	8/28/2008	WNV
Los Angeles	GRLA2335	1004	Cx quinquefasciatus	50	Whittier	8/21/2008	8/29/2008	WNV
Los Angeles	GRLA2346	1011	Cx quinquefasciatus	28	Montebello	8/21/2008	8/28/2008	WNV
Los Angeles	GRLA2347	1012	Cx quinquefasciatus	46	Montebello	8/21/2008	8/28/2008	WNV
Los Angeles	GRLA2355	1014	Cx quinquefasciatus	31	Pico Rivera	8/21/2008	8/28/2008	WNV
Los Angeles	GRLA2360	989	Cx quinquefasciatus	22	Pico Rivera	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2364	993	Cx quinquefasciatus	38	Pico Rivera	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2364	1000	Cx tarsalis	47	Pico Rivera	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2429	5737	Cx quinquefasciatus	18	Chatsworth	8/21/2008	8/28/2008	WNV
Los Angeles	GRLA2438	5739	Cx quinquefasciatus	50	Chatsworth	8/21/2008	8/29/2008	WNV
Los Angeles	GRLA2450	5753	Cx quinquefasciatus	50	Glendale	8/21/2008	8/29/2008	WNV
Los Angeles	GRLA2458	5767	Cx quinquefasciatus	47	Los Angeles	8/22/2008	8/28/2008	WNV
Los Angeles	GRLA2492	5699	Cx quinquefasciatus	39	La Canada Flintridge	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2522	5762	Cx quinquefasciatus	47	Los Angeles	8/22/2008	8/29/2008	WNV
Los Angeles	GRLA2523	5766	Cx stigmatosoma	42	Los Angeles	8/22/2008	8/28/2008	WNV
Los Angeles	GRLA2552	5771	Cx quinquefasciatus	43	Glendale	8/22/2008	8/29/2008	WNV
Los Angeles	GRLA2590	5694	Cx quinquefasciatus	43	San Marino	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2591	5695	Cx quinquefasciatus	42	San Marino	8/19/2008	8/29/2008	WNV
Los Angeles	GRLA2592	5696	Cx quinquefasciatus	41	San Marino	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2594	5698	Cx quinquefasciatus	38	San Marino	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2604	5760	Cx stigmatosoma	50	Los Angeles	8/21/2008	8/28/2008	WNV
Los Angeles	GRLA2635	5720	Cx quinquefasciatus	50	Van Nuys	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2635	5721	Cx quinquefasciatus	50	Van Nuys	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2635	5723	Cx quinquefasciatus	18	Van Nuys	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2635	5735	Cx quinquefasciatus	44	Van Nuys	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2635	5736	Cx tarsalis	9	Van Nuys	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2636	5717	Cx quinquefasciatus	50	Van Nuys	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2636	5718	Cx quinquefasciatus	50	Van Nuys	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2636	5719	Cx quinquefasciatus	21	Van Nuys	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2636	5732	Cx quinquefasciatus	50	Van Nuys	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2636	5733	Cx quinquefasciatus	50	Van Nuys	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2637	5716	Cx quinquefasciatus	25	Van Nuys	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2637	5731	Cx quinquefasciatus	11	Van Nuys	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2643	5724	Cx quinquefasciatus	17	Encino	8/19/2008	8/29/2008	WNV
Los Angeles	GRLA2643	5729	Cx tarsalis	8	Encino	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2645	5725	Cx quinquefasciatus	37	Encino	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2648	5703	Cx quinquefasciatus	50	Encino	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2649	5705	Cx quinquefasciatus	50	Encino	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2650	5707	Cx quinquefasciatus	50	Encino	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2650	5708	Cx quinquefasciatus	45	Encino	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2651	5709	Cx quinquefasciatus	50	Encino	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2652	5710	Cx quinquefasciatus	33	Encino	8/19/2008	8/28/2008	WNV

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Los Angeles	GRLA2652	5711	Cx quinquefasciatus	50	Encino	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2655	5712	Cx quinquefasciatus	50	Encino	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2655	5713	Cx quinquefasciatus	50	Encino	8/19/2008	8/28/2008	WNV
Los Angeles	GRLA2655	5714	Cx quinquefasciatus	29	Encino	8/19/2008	8/29/2008	WNV
Los Angeles	GRLA2936	5743	Cx quinquefasciatus	50	Burbank	8/21/2008	8/29/2008	WNV
Los Angeles	GRLA2937	5745	Cx quinquefasciatus	50	Burbank	8/21/2008	8/29/2008	WNV
Los Angeles	GRLA2938	5747	Cx quinquefasciatus	50	Burbank	8/21/2008	8/29/2008	WNV
Los Angeles	GRLA2938	5749	Cx quinquefasciatus	41	Burbank	8/21/2008	8/28/2008	WNV
Los Angeles	LACW1010	173	Cx quinquefasciatus	39	Los Angeles(Miracle Mile)	8/20/2008	8/27/2008	WNV
Los Angeles	LONG0305	268	Cx quinquefasciatus	41	Long Beach	8/26/2008	8/28/2008	WNV
Los Angeles	LONG0903	263	Cx quinquefasciatus	16	Long Beach	8/26/2008	8/29/2008	WNV
Orange	ORCO0003	1114	Cx quinquefasciatus	17	Garden Grove	8/21/2008	8/25/2008	WNV
Orange	ORCO0003	1115	Cx quinquefasciatus	50	Garden Grove	8/21/2008	8/25/2008	WNV
Orange	ORCO0003	1116	Cx quinquefasciatus	50	Garden Grove	8/21/2008	8/25/2008	WNV
Orange	ORCO0003	1117	Cx quinquefasciatus	15	Garden Grove	8/22/2008	8/25/2008	WNV
Orange	ORCO0004	1122	Cx quinquefasciatus	24	Huntington Beach	8/22/2008	8/25/2008	WNV
Orange	ORCO0017	1118	Cx quinquefasciatus	50	Orange	8/22/2008	8/25/2008	WNV
Orange	ORCO0017	1119	Cx quinquefasciatus	15	Orange	8/22/2008	8/25/2008	WNV
Orange	ORCO0017	1120	Cx stigmatosoma	9	Orange	8/22/2008	8/25/2008	WNV
Orange	ORCO0017	1121	Cx quinquefasciatus	6	Orange	8/22/2008	8/25/2008	WNV
Orange	ORCO0052	1124	Cx quinquefasciatus	50	Anaheim	8/22/2008	8/26/2008	WNV
Orange	ORCO0052	1125	Cx quinquefasciatus	20	Anaheim	8/22/2008	8/26/2008	WNV
Placer	PLCR0035	716	Cx tarsalis	35	Lincoln	8/26/2008	8/28/2008	WNV
Placer	PLCR0058	693	Cx tarsalis	50	Sheridan	8/21/2008	8/28/2008	WNV
Placer	PLCR0079	684	Cx tarsalis	35	Roseville	8/21/2008	8/29/2008	WNV
Riverside	COAV0017	1517	Cx tarsalis	29	Mecca	8/19/2008	8/29/2008	WNV
Riverside	COAV0130	1519	Cx tarsalis	50	Mecca	8/19/2008	8/28/2008	WNV
Riverside	COAV0131	1524	Cx tarsalis	50	Oasis	8/19/2008	8/28/2008	WNV
Riverside	COAV0132	1497	Cx tarsalis	14	Mecca	8/19/2008	8/28/2008	WNV
Riverside	RIVR0002	544	Cx tarsalis	50	Nuevo	8/13/2008	8/20/2008	WNV
Riverside	RIVR0046	569	Cx quinquefasciatus	39	Hemet	8/20/2008	8/27/2008	WNV
Riverside	RIVR0068	585	Cx tarsalis	50	Temecula	8/26/2008	8/29/2008	WNV
Riverside	RIVR0073	571	Cx quinquefasciatus	32	Temecula	8/26/2008	8/29/2008	WNV
Sacramento	SAYO2211	6444	Cx pipiens	15	Sacramento	8/19/2008	8/22/2008	WNV
Sacramento	SAYO2211	6445	Cx tarsalis	50	Sacramento	8/19/2008	8/22/2008	WNV
Sacramento	SAYO2211	6446	Cx tarsalis	50	Sacramento	8/19/2008	8/22/2008	WNV
Sacramento	SAYO2211	6447	Cx tarsalis	50	Sacramento	8/19/2008	8/22/2008	WNV
Sacramento	SAYO2211	6458	Cx tarsalis	28	Sacramento	8/20/2008	8/22/2008	WNV
Sacramento	SAYO2211	6459	Cx pipiens	50	Sacramento	8/20/2008	8/22/2008	WNV
Sacramento	SAYO2211	6696	Cx pipiens	34	Sacramento	8/26/2008	8/27/2008	WNV
Sacramento	SAYO2213	6491	Cx pipiens	50	Elk Grove	8/21/2008	8/22/2008	WNV
Sacramento	SAYO2213	6506	Cx tarsalis	39	Elk Grove	8/21/2008	8/22/2008	WNV
Sacramento	SAYO2213	6507	Cx pipiens	50	Elk Grove	8/21/2008	8/22/2008	WNV
Sacramento	SAYO2213	6508	Cx pipiens	17	Elk Grove	8/21/2008	8/22/2008	WNV
Sacramento	SAYO4162	6660	Cx stigmatosoma	1	Sacramento	8/22/2008	8/25/2008	WNV
Sacramento	SAYO4165	6640	Cx pipiens	7	Fair Oaks	8/22/2008	8/25/2008	WNV
Sacramento	SAYO4260	6499	Cx tarsalis	48	Elk Grove	8/21/2008	8/22/2008	WNV
Sacramento	SAYO4260	6500	Cx pipiens	50	Elk Grove	8/21/2008	8/22/2008	WNV
Sacramento	SAYO4260	6714	Cx tarsalis	37	Elk Grove	8/26/2008	8/27/2008	WNV
Sacramento	SAYO4264	6455	Cx pipiens	31	Sacramento	8/20/2008	8/22/2008	WNV
Sacramento	SAYO7006	6709	Cx tarsalis	1	Sacramento	8/26/2008	8/27/2008	WNV
Sacramento	VBDS9999	13	Cx tarsalis	50	Sacramento	8/20/2008	8/29/2008	WNV
San Joaquin	SJCM8022	1422	Cx tarsalis	50	Holt	8/28/2008	8/28/2008	WNV

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San Joaquin	SJCM8056	1440	Cx pipiens	50	Manteca	8/28/2008	8/28/2008	WNV
San Joaquin	SJCM8079	1416	Cx pipiens	50	Manteca	8/28/2008	8/28/2008	WNV
San Joaquin	SJCM8079	1418	Cx pipiens	50	Manteca	8/28/2008	8/28/2008	WNV
San Joaquin	SJCM8083	1411	Cx pipiens	50	Escalon	8/28/2008	8/28/2008	WNV
San Joaquin	SJCM8083	1412	Cx pipiens	50	Escalon	8/28/2008	8/28/2008	WNV
San Joaquin	SJCM8083	1413	Cx pipiens	50	Escalon	8/28/2008	8/28/2008	WNV
San Joaquin	SJCM8100	1385	Cx pipiens	19	Tracy	8/26/2008	8/26/2008	WNV
San Joaquin	SJCM8155	1372	Cx pipiens	16	Manteca	8/26/2008	8/26/2008	WNV
San Joaquin	SJCM8159	1365	Cx pipiens	33	Stockton	8/26/2008	8/26/2008	WNV
San Joaquin	SJCM8161	1507	Cx pipiens	50	Ripon	8/26/2008	8/28/2008	WNV
San Joaquin	SJCM8161	1508	Cx pipiens	50	Ripon	8/26/2008	8/28/2008	WNV
San Joaquin	SJCM8161	1510	Cx pipiens	50	Ripon	8/26/2008	8/28/2008	WNV
San Joaquin	SJCM9906	1445	Cx pipiens	50	French Camp	8/28/2008	8/28/2008	WNV
Stanislaus	EAST1071	8231	Cx pipiens	50	Modesto	8/21/2008	8/29/2008	WNV
Stanislaus	TRLK0316	1460	Cx tarsalis	50	Newman	8/26/2008	8/28/2008	WNV
Stanislaus	TRLK0421	1293	Cx pipiens	50	Hughson	8/26/2008	8/29/2008	WNV
Stanislaus	TRLK0516	1317	Cx pipiens	50	Denair	8/26/2008	8/28/2008	WNV
Stanislaus	TRLK0526	1304	Cx tarsalis	18	Denair	8/26/2008	8/28/2008	WNV
Sutter	SUYA0014	259	Cx tarsalis	32	Sutter	8/18/2008	8/28/2008	WNV
Tulare	DLTA6532	405	Cx quinquefasciatus	50	Culter	8/26/2008	8/29/2008	WNV
Tulare	DLTA6532	406	Cx quinquefasciatus	50	Culter	8/26/2008	8/28/2008	WNV
Tulare	DLTA9609	424	Cx quinquefasciatus	45	Exeter	8/26/2008	8/28/2008	WNV
Yolo	DAVI5124	401	Cx tarsalis	50	Woodland	8/22/2008	8/27/2008	WNV
Yolo	SAYO3343	6551	Cx tarsalis	50	Davis	8/21/2008	8/22/2008	WNV
Yolo	SAYO6002	6572	Cx tarsalis	50	Woodland	8/21/2008	8/22/2008	WNV
Yolo	SAYO6006	6803	Cx tarsalis	50	Woodland	8/26/2008	8/27/2008	WNV
Yolo	SAYO9019	6628	Cx tarsalis	50	Zamora	8/21/2008	8/22/2008	WNV

Sentinel Chickens

Agency Code	County	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05
BUCO1	Butte	Chico	8/18/2008	WNV	2111				
BUCO3	Butte	Oroville	8/4/2008	WNV	2139				
BUCO3	Butte	Oroville	8/18/2008	WNV	2131	2132	2138	2140	2141
BUCO4	Butte	Gridley	8/4/2008	WNV	2145				
BUCO4	Butte	Gridley	8/18/2008	WNV	2146				
BUCO5	Butte	Honcut	8/4/2008	WNV	2154				
BUCO5	Butte	Honcut	8/18/2008	WNV	2155				
BUCO6	Butte	Chico	8/4/2008	WNV	2167	2172			
BUCO6	Butte	Chico	8/18/2008	WNV	2168				
COAV200	Riverside	Mecca	8/11/2008	WNV	2258	2263			
IMPR13	Imperial	Calipatria	7/29/2008	WNV	2810				
IMPR13	Imperial	Calipatria	8/12/2008	WNV	2806	2807	2808		
IMPR3	Imperial	El Centro	7/29/2008	WNV	2816	2818	2820		
PLCR396	Placer	Roseville	8/4/2008	WNV	1481	1484			
SUYA14	Sutter	Sutter	8/21/2008	WNV	4986				
WVAL2	San Bernardino	Chino	8/14/2008	WNV	1972				

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NATIONAL COMMENTS

As of August 26, 2008, 342 human cases had been reported nationwide this year in the following 34 states: Alabama (3), Arizona (8), Arkansas (5), California (97), Colorado (32), Connecticut (1), Idaho (8), Illinois (4), Indiana (1), Iowa (4), Kansas (7), Louisiana (6), Maryland (1), Michigan (1), Minnesota (13), Mississippi (53), Missouri (4), Montana (1), Nebraska (2), Nevada (7), New Mexico (1), New York (2), North Dakota (18), Ohio (1), Oklahoma (6), Oregon (3), Pennsylvania (1), South Dakota (22), Tennessee (8), Texas (16), Utah (2), West Virginia (1), Wisconsin (1), and Wyoming (2). Of the 342 individuals, 146 (43%) had neuroinvasive illness. As of August 26, three fatalities had been reported in Arizona, California, and Mississippi. At this time last year, 741 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
