

California Arbovirus Surveillance Bulletin # 25

Week 32 Friday, August 8th, 2008

Weekly and Year-To-Date Summaries

WEEKLY COMMENTS



Humans

Twenty six new human cases of West Nile virus (WNV) illness were reported this week from Alameda (1), Butte (1), Los Angeles (5), Orange (3), Riverside (9), Sacramento (2), San Bernardino (2), San Diego (2), and Stanislaus (1) counties. In 2008, 55 human cases have been reported in the following 12 counties: Alameda (1), Butte (2), Fresno (1), Los Angeles (17), Orange (12), Riverside (9), Sacramento (2), San Bernardino (2), San Diego (3), San Joaquin (1), Stanislaus (5), and Tulare (1). Thirty-six (67%) of the individuals developed neuroinvasive symptoms. The median age of the 54 individuals is 52 years (range: 4-80 years), and 33 (61%) are male. No cases have resulted in fatalities. Eighteen WNV-positive blood donation samples have been reported this year; 7 of the individuals reported symptoms and were reclassified as cases.

Horses

No new equine cases were reported this week. In 2008, four WNV cases have been detected in horses from Fresno (1), Riverside (2), and San Diego (1) counties.

Dead Birds & Tree Squirrels

One hundred and seventy-three new West Nile virus (WNV) positive dead birds were reported this week from the following counties: Alameda (1), Amador (1), Butte (4), Colusa (1), Contra Costa (4), Fresno (3), Glenn (1), Kern (1), Los Angeles (39), Marin (1), Mendocino (1), Merced (1), Orange (8), Riverside (1), Sacramento (12), San Bernardino (20), San Diego (62), San Joaquin (3), Santa Cruz (1), Solano (1), Stanislaus (3), Tulare (2), and Yolo (2). **This is the first indication of WNV activity from Colusa, Marin, Mendocino, Merced, and Santa Cruz counties this year.** In 2008, 981 WNV positive dead birds have been detected in 32 counties.

No new WNV positive tree squirrels were reported this week. In 2008, five WNV tree squirrels have been detected from Contra Costa (3) and San Bernardino (2) counties.

Mosquito Pools

One hundred and eight new positive mosquito pools were reported this week from the following counties: Contra Costa (2), Fresno (7), Los Angeles (18), Orange (3), Placer (7), Riverside (19), Sacramento (18), San Bernardino (10), San Diego (3), San Joaquin (8), Sonoma (1), Stanislaus (5), Tulare (4), and Yolo (3). **This is the first indication of WNV activity in Sonoma County this year.** In 2008, 712 WNV positive mosquito pools have been detected in 23 counties.

Sentinel Chickens

Nineteen new seroconversions were reported this week from Imperial (2), Los Angeles (3), Riverside (5), Sacramento (1), San Bernardino (6), and Stanislaus (2) counties. In 2008, 50 WNV seroconversions have been detected in chickens from eight 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	20,392	21,360
# Positive Counties	42	36
# Human Cases/ # Tested	87 / 660	55 / 523
# Horse Cases/ # Tested	9 / 180	4 / 158
# Positive Dead Birds/ # Tested	556 / 3,235	981 / 3,427
# Positive Mosquito Pools/ # Tested	531 / 15,728	712 / 16,544
# Positive Chicken Sera/ # Tested	106 / 16,936	50 / 17,407
# Positive Squirrels/ # Tested	7 / 111	5 / 104

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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			
Amador			2			
Butte	1		13	2		
Colusa			1			
Contra Costa			29	11		3
El Dorado			2			
Fresno	1	1	9	21		
Glenn			3	1		
Imperial				1	4	
Kern			5	3		
Lake				1		
Los Angeles	17		138	150	6	
Marin			1			
Mendocino			1			
Merced			1			
Monterey			2			
Nevada			4			
Orange	12		267	67		
Placer			1	10		
Riverside	9	2	17	63	16	
Sacramento	2		61	168	1	
San Bernardino	2		56	79	12	2
San Diego	3	1	215	10	8	
San Joaquin	1		54	74		
San Mateo			1			
Santa Clara			8	1		
Santa Cruz			1			
Shasta			6			
Solano			5	1		
Sonoma				1		
Stanislaus	5		23	18	2	
Sutter			2	8		
Tulare	1		44	16	1	
Ventura			3			
Yolo			4	5		
Yuba				1		
Totals	55	4	981	712	50	5

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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	26	0	26	0	0	0	0	0	0
	YTD	523	0	55	0	0	0	0	0	0
Horses Tested	Week	29	0	0	0	0	0	0	0	0
	YTD	158	0	4	0	0	0	0	0	0

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead Birds	Week	292	173
	YTD	3,427	981
Tree Squirrels	Week	4	0
	YTD	104	5

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive
Chicken Sera	Week	993	19	0	0
	YTD	17,407	50	0	0
Mosquito Pools: RT-PCR	Week	1,466	84	0	0
	YTD	14,978	555	0	0
Mosquito Pools: RAMP	Week	220	24	N/A	N/A
	YTD	1,566	157	N/A	N/A

POSITIVES: 8/4/08 – 8/8/08

Humans

Report Date	County	Age	Sex	Clin Pres	Onset Date	WNF Fatality?
08/04/08	RIVERSIDE	36	F	WNND	07/08/08	NO
08/04/08	RIVERSIDE	55	M	WNF^	06/29/08	NO
08/04/08	RIVERSIDE	52	F	WNND	07/14/08	NO
08/04/08	RIVERSIDE	71	F	WNND	07/13/08	NO
08/04/08	RIVERSIDE	42	M	WNND	07/02/08	NO
08/04/08	SAN DIEGO	58	F	WNND	07/15/08	NO
08/04/08	ALAMEDA	<18	M	WNND	07/18/08	NO
08/04/08	RIVERSIDE	37	F	WNF^	07/30/08	NO
08/04/08	RIVERSIDE	42	F	WNF^	07/25/08	NO
08/05/08	ORANGE	50	M	WNND	Week 29	NO
08/05/08	SAN BERNARDINO	38	M	WNND	07/11/08	NO
08/05/08	SAN BERNARDINO	34	M	n/a	07/23/08	NO
08/06/08	STANISLAUS	58	F	WNF	n/a	NO
08/06/08	SAN DIEGO	38	F	WNND	07/03/08	NO

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08/07/08	SACRAMENTO	29	F	n/a	07/18/08	NO
08/07/08	SACRAMENTO	33	M	n/a	07/26/08	NO
08/07/08	RIVERSIDE	16	F	WNND	07/18/08	NO
08/07/08	RIVERSIDE	49	F	WNF^	07/15/08	NO
08/07/08	LOS ANGELES	80	M	WNND	07/15/08	NO
08/07/08	LOS ANGELES	52	M	WNND	07/19/08	NO
08/07/08	LOS ANGELES	60	F	WNND	07/23/08	NO
08/07/08	LOS ANGELES	48	M	WNF	07/21/08	NO
08/07/08	LOS ANGELES	62	M	WNF	07/21/08	NO
08/07/08	ORANGE	28	M	WNND	Week 30	NO
08/07/08	ORANGE	33	M	WNND	Week 31	NO

Dead Birds and Tree Squirrels

County	City	Zip	Species	Reported	Tested	Test Method
Alameda	Oakland	94619	American Crow	7/28/08	7/29/08	RAMP
Amador	lone	95640	Western Scrub-Jay	7/29/08	8/4/08	RT-PCR
Butte	Oroville	95965	American Crow	7/25/08	8/4/08	RT-PCR
Butte	Oroville	95965	American Crow	7/30/08	8/4/08	RT-PCR
Butte	Paradise	95969	Western Scrub-Jay	7/23/08	8/4/08	RT-PCR
Butte	Paradise	95969	Acorn Woodpecker	7/29/08	8/4/08	RT-PCR
Colusa	Grimes	95950	Western Scrub-Jay	7/29/08	8/4/08	RT-PCR
Contra Costa	Antioch	94509	House Finch	7/28/08	8/4/08	RT-PCR
Contra Costa	Antioch	94509	American Crow	7/30/08	7/30/08	RAMP
Contra Costa	Brentwood	94513	Western Scrub-Jay	7/29/08	8/4/08	RT-PCR
Contra Costa	Pittsburg	94565	American Crow	7/29/08	7/30/08	RAMP
Fresno	Clovis	93612	American Crow	7/29/08	8/4/08	RT-PCR
Fresno	Fresno	93711	Unknown	7/29/08	8/4/08	RT-PCR
Fresno	Fresno	93705	Northern Mockingbird	7/29/08	8/4/08	RT-PCR
Glenn	Orland	95963	Western Scrub-Jay	7/29/08	8/4/08	RT-PCR
Kern	Bakersfield	93307	House Finch	7/28/08	8/4/08	RT-PCR
Los Angeles	Agoura Hills	91301	American Crow	7/29/08	8/4/08	RT-PCR
Los Angeles	Arcadia	91006	American Crow	7/29/08	8/4/08	RT-PCR
Los Angeles	Arcadia	91007	American Crow	8/4/08	8/4/08	VecTest
Los Angeles	Arcadia	91006	American Crow	8/4/08	8/4/08	VecTest
Los Angeles	Bellflower	90706	American Crow	7/28/08	8/4/08	RT-PCR
Los Angeles	Calabasas	91302	Red-tailed Hawk	7/24/08	8/4/08	RT-PCR
Los Angeles	Canoga Park	91303	American Crow	7/28/08	7/29/08	VecTest
Los Angeles	Cerritos	90703	American Crow	7/24/08	8/4/08	RT-PCR
Los Angeles	Cerritos	90703	American Crow	7/28/08	8/4/08	RT-PCR
Los Angeles	Chatsworth	91311	American Crow	7/30/08	8/4/08	RT-PCR
Los Angeles	Covina	91723	American Crow	7/16/08	8/4/08	RT-PCR
Los Angeles	Covina	91722	American Crow	7/21/08	8/4/08	RT-PCR
Los Angeles	El Monte	91731	American Crow	7/31/08	8/4/08	VecTest
Los Angeles	Encino	91436	Red-tailed Hawk	7/30/08	8/4/08	RT-PCR
Los Angeles	La Crescenta	91214	American Crow	7/30/08	7/30/08	VecTest
Los Angeles	La Verne	91750	American Crow	7/27/08	8/4/08	RT-PCR

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Los Angeles	La Verne	91750	American Crow	8/4/08	8/5/08	VecTest
Los Angeles	Long Beach	90815	American Crow	7/22/08	8/4/08	RT-PCR
Los Angeles	Long Beach	90815	American Crow	7/24/08	8/4/08	RT-PCR
Los Angeles	Long Beach	90808	American Crow	7/25/08	8/4/08	RT-PCR
Los Angeles	Long Beach	90808	American Crow	7/25/08	8/4/08	RT-PCR
Los Angeles	Long Beach	90808	American Crow	7/27/08	8/4/08	RT-PCR
Los Angeles	Los Angeles	90034	American Crow	8/4/08	8/4/08	VecTest
Los Angeles	Lynwood	90262	House Finch	7/24/08	8/4/08	RT-PCR
Los Angeles	Monrovia	91016	American Crow	7/30/08	8/4/08	RT-PCR
Los Angeles	Pasadena	91107	American Crow	7/30/08	7/30/08	VecTest
Los Angeles	Redondo Beach	90278	American Crow	7/24/08	8/4/08	RT-PCR
Los Angeles	San Dimas	91773	American Crow	7/30/08	7/31/08	VecTest
Los Angeles	Santa Clarita	91355	American Crow	8/5/08	8/5/08	VecTest
Los Angeles	Santa Fe Springs	90670	American Crow	7/23/08	8/4/08	RT-PCR
Los Angeles	South Pasadena	91030	Acorn Woodpecker	7/30/08	8/4/08	RT-PCR
Los Angeles	Temple City	91780	American Crow	7/30/08	8/4/08	RT-PCR
Los Angeles	Temple City	91780	American Crow	8/1/08	8/1/08	VecTest
Los Angeles	Temple City	91780	American Crow	8/4/08	8/5/08	VecTest
Los Angeles	Walnut	91789	American Crow	7/29/08	8/4/08	RT-PCR
Los Angeles	West Covina	91790	American Crow	7/24/08	7/28/08	VecTest
Los Angeles	West Covina	91790	American Crow	7/24/08	8/4/08	RT-PCR
Los Angeles	Whittier	90602	House Finch	7/25/08	8/4/08	RT-PCR
Los Angeles	Woodland Hills	91367	American Crow	8/4/08	8/4/08	VecTest
Marin	San Rafael	94903	House Finch	7/29/08	8/4/08	RT-PCR
Mendocino	Ukiah	95482	Black-headed Grosbeak	7/29/08	8/4/08	RT-PCR
Merced	Winton	95388	Cockatiel	7/28/08	8/4/08	RT-PCR
Orange	Anaheim	92802	American Crow	7/29/08	7/28/08	RT-PCR
Orange	Buena Park	90620	American Crow	7/23/08	7/25/08	RT-PCR
Orange	Costa Mesa	92626	American Crow	7/28/08	7/28/08	RT-PCR
Orange	Laguna Hills	92653	American Crow	7/25/08	7/25/08	RT-PCR
Orange	Orange	92867	American Crow	7/24/08	7/24/08	RT-PCR
Orange	Orange	92867	American Crow	7/28/08	7/28/08	RT-PCR
Orange	Tustin	92782	House Finch	7/24/08	7/25/08	RT-PCR
Orange	Westminster	92683	American Crow	8/5/08	7/28/08	RT-PCR
Riverside	Perris	92570	American Crow	7/25/08	8/4/08	RT-PCR
Sacramento	Carmichael	95608	Western Scrub-Jay	7/30/08	8/4/08	RT-PCR
Sacramento	Citrus Heights	95621	House Finch	7/23/08	8/4/08	RT-PCR
Sacramento	Elk Grove	95624	American Crow	7/25/08	8/4/08	RT-PCR
Sacramento	Elk Grove	95758	Western Scrub-Jay	7/28/08	8/4/08	RT-PCR
Sacramento	Elk Grove	95624	American Crow	7/29/08	8/4/08	RT-PCR
Sacramento	Fair Oaks	95628	American Crow	7/24/08	8/4/08	RT-PCR
Sacramento	Fair Oaks	95628	Western Scrub-Jay	7/25/08	8/4/08	RT-PCR
Sacramento	Fair Oaks	95628	Yellow-billed Magpie	7/30/08	8/4/08	RT-PCR
Sacramento	Sacramento	95824	House Wren	7/25/08	8/4/08	RT-PCR
Sacramento	Sacramento	95820	American Crow	7/28/08	8/4/08	RT-PCR
Sacramento	Sacramento	95838	Yellow-billed Magpie	7/29/08	8/4/08	RT-PCR
Sacramento	Sacramento	95827	American Robin	7/29/08	8/4/08	RT-PCR
San Bernardino	Arrowhead Farms	92407	Western Scrub-Jay	7/22/08	8/4/08	RT-PCR
San Bernardino	Chino	91710	American Crow	7/23/08	8/4/08	RT-PCR
San Bernardino	Chino	91710	American Crow	7/25/08	8/4/08	RT-PCR

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San Bernardino	Chino	91710	House Finch	7/25/08	8/4/08	RT-PCR
San Bernardino	Chino	91710	American Crow	7/30/08	7/30/08	RAMP
San Bernardino	Chino	91710	American Crow	7/31/08	7/31/08	RAMP
San Bernardino	Chino	91710	American Crow	8/4/08	8/4/08	VecTest
San Bernardino	Chino	91710	American Crow	8/5/08	8/4/08	VecTest
San Bernardino	Fontana	92336	House Finch	7/28/08	8/4/08	RT-PCR
San Bernardino	Highland	92346	American Crow	7/22/08	8/4/08	RT-PCR
San Bernardino	Ontario	91762	House Finch	7/24/08	8/4/08	RT-PCR
San Bernardino	Ontario	91762	American Crow	7/31/08	8/1/08	RAMP
San Bernardino	Ontario	91762	American Crow	8/1/08	8/1/08	VecTest
San Bernardino	Rancho Cucamonga	91730	American Crow	7/25/08	8/4/08	RT-PCR
San Bernardino	Rancho Cucamonga	91730	American Crow	7/31/08	7/31/08	RAMP
San Bernardino	Rancho Cucamonga	91701	American Crow	8/1/08	8/1/08	RAMP
San Bernardino	San Bernardino	92404	American Crow	7/23/08	8/4/08	RT-PCR
San Bernardino	Upland	91786	House Sparrow	7/24/08	8/4/08	RT-PCR
San Bernardino	Upland	91784	American Crow	7/28/08	7/28/08	RAMP
San Bernardino	Upland	91784	American Crow	7/28/08	7/28/08	RAMP
San Diego	Alpine	91901	American Crow	7/29/08	7/31/08	RT-PCR
San Diego	Camp Pendleton	92055	Least Tern	7/29/08	7/21/08	RT-PCR
San Diego	Carlsbad	92008	American Crow	7/24/08	7/24/08	RT-PCR
San Diego	Carlsbad	92010	American Crow	7/28/08	7/31/08	RT-PCR
San Diego	Carlsbad	92010	American Crow	7/28/08	7/31/08	RT-PCR
San Diego	Carlsbad	92008	American Crow	7/28/08	7/31/08	RT-PCR
San Diego	Carlsbad	92008	American Crow	7/29/08	7/31/08	RT-PCR
San Diego	Carlsbad	92009	American Crow	7/30/08	7/31/08	RT-PCR
San Diego	Del Mar	92014	American Crow	7/25/08	7/25/08	RT-PCR
San Diego	Del Mar	92014	American Crow	7/28/08	7/31/08	RT-PCR
San Diego	El Cajon	92021	American Crow	7/25/08	7/25/08	RT-PCR
San Diego	El Cajon	92021	American Crow	7/25/08	7/31/08	RT-PCR
San Diego	Encinitas	92024	American Crow	7/25/08	7/31/08	RT-PCR
San Diego	Encinitas	92024	American Crow	7/31/08	8/4/08	RT-PCR
San Diego	Escondido	92025	Cliff Swallow	7/29/08	6/30/08	RT-PCR
San Diego	Escondido	92027	American Crow	7/30/08	7/31/08	RT-PCR
San Diego	Fallbrook	92028	American Crow	7/28/08	7/31/08	RT-PCR
San Diego	Fallbrook	92028	American Crow	7/31/08	8/4/08	RT-PCR
San Diego	Julian	92036	Western Scrub-Jay	7/29/08	7/31/08	RT-PCR
San Diego	Lakeside	92040	American Crow	7/28/08	7/31/08	RT-PCR
San Diego	Oceanside	92058	American Crow	7/28/08	7/31/08	RT-PCR
San Diego	Oceanside	92054	American Crow	7/28/08	7/31/08	RT-PCR
San Diego	Oceanside	92054	American Crow	7/28/08	7/31/08	RT-PCR
San Diego	Oceanside	92057	American Crow	7/28/08	7/31/08	RT-PCR
San Diego	Oceanside	92054	American Crow	7/28/08	7/31/08	RT-PCR
San Diego	Oceanside	92057	American Crow	7/29/08	7/31/08	RT-PCR
San Diego	Oceanside	92057	American Crow	7/29/08	7/31/08	RT-PCR
San Diego	Oceanside	92057	American Crow	7/31/08	8/4/08	RT-PCR
San Diego	Oceanside	92057	American Crow	8/1/08	8/4/08	RT-PCR
San Diego	Poway	92064	Cooper's Hawk	7/24/08	7/24/08	RT-PCR
San Diego	Poway	92064	Western Scrub-Jay	7/29/08	7/21/08	RT-PCR
San Diego	Ramona	92065	American Crow	7/24/08	7/24/08	RT-PCR
San Diego	Ramona	92065	American Crow	7/24/08	7/24/08	RT-PCR

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San Diego	Ramona	92065	American Crow	7/28/08	7/31/08	RT-PCR
San Diego	Ramona	92065	American Crow	7/28/08	7/31/08	RT-PCR
San Diego	Ramona	92065	American Crow	7/29/08	7/31/08	RT-PCR
San Diego	Ramona	92065	Western Scrub-Jay	7/29/08	7/31/08	RT-PCR
San Diego	Ramona	92065	American Crow	7/31/08	8/4/08	RT-PCR
San Diego	Ramona	92065	American Crow	8/1/08	8/4/08	RT-PCR
San Diego	San Diego	92121	American Crow	7/22/08	7/24/08	RT-PCR
San Diego	San Diego	92131	American Crow	7/24/08	7/24/08	RT-PCR
San Diego	San Diego	92130	American Crow	7/24/08	7/24/08	RT-PCR
San Diego	San Diego	92130	American Crow	7/24/08	7/24/08	RT-PCR
San Diego	San Diego	92111	American Crow	7/25/08	7/25/08	RT-PCR
San Diego	San Diego	92123	Cooper's Hawk	7/25/08	7/25/08	RT-PCR
San Diego	San Diego	92128	American Crow	7/28/08	7/31/08	RT-PCR
San Diego	San Diego	92124	American Crow	7/28/08	7/31/08	RT-PCR
San Diego	San Diego	92122	American Crow	7/28/08	7/31/08	RT-PCR
San Diego	San Diego	92120	American Crow	7/28/08	7/31/08	RT-PCR
San Diego	San Diego	92130	American Crow	7/29/08	7/31/08	RT-PCR
San Diego	San Diego	92117	American Crow	7/30/08	7/31/08	RT-PCR
San Diego	San Diego	92124	American Crow	7/31/08	8/4/08	RT-PCR
San Diego	San Diego	92154	American Crow	7/31/08	8/4/08	RT-PCR
San Diego	San Diego	92116	Western Scrub-Jay	7/31/08	8/4/08	RT-PCR
San Diego	San Diego	92126	American Crow	8/1/08	8/4/08	RT-PCR
San Diego	San Diego	92130	American Crow	8/1/08	8/4/08	RT-PCR
San Diego	San Marcos	92069	American Crow	7/24/08	7/24/08	RT-PCR
San Diego	Santee	92071	American Crow	7/25/08	7/25/08	RT-PCR
San Diego	Santee	92071	Western Scrub-Jay	7/30/08	7/31/08	RT-PCR
San Diego	University City	92122	American Crow	7/28/08	7/31/08	RT-PCR
San Diego	Vista	92084	American Crow	7/24/08	7/24/08	RT-PCR
San Diego	Vista	92084	American Crow	7/31/08	8/4/08	RT-PCR
San Joaquin	Manteca	95336	Western Scrub-Jay	7/26/08	8/4/08	RT-PCR
San Joaquin	Stockton	95219	American Robin	7/23/08	8/4/08	RT-PCR
San Joaquin	Stockton	95204	Western Scrub-Jay	7/23/08	7/22/08	RAMP
Santa Cruz	Scotts Valley	95066	House Finch	7/29/08	8/4/08	RT-PCR
Solano	Suisun City	94585	American Crow	7/28/08	7/28/08	RAMP
Stanislaus	Denair	95316	Yellow-billed Magpie	7/24/08	8/4/08	RT-PCR
Stanislaus	Hughson	95326	Lesser Goldfinch	7/24/08	8/4/08	RT-PCR
Stanislaus	Turlock	95380	American Crow	7/28/08	7/28/08	VecTest
Tulare	Visalia	93292	Western Scrub-Jay	7/25/08	8/4/08	RT-PCR
Tulare	Visalia	93277	American Crow	7/30/08	8/4/08	RT-PCR
Yolo	Davis	95616	Yellow-billed Magpie	7/30/08	8/4/08	RT-PCR
Yolo	Davis	95616	American Robin	7/31/08	8/4/08	RT-PCR

Mosquito Pools

Site Code	Pool #	Species	# in Pool	Collected	Tested	City	County	Result
CNTR1611	277	Cs incidens	38	7/31/2008	7/31/2008	Antioch	Contra Costa	WNV
CNTR9223	281	Cx tarsalis	21	7/31/2008	7/31/2008	Antioch	Contra Costa	WNV
WVAL2006	769	Cx tarsalis	50	8/6/2008	8/6/2008	Chino	San Bernardino	WNV

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WVAL2007	772	Cx tarsalis	50	8/6/2008	8/6/2008	Chino	San Bernardino	WNV
WVAL2008	760	Cx quinquefasciatus	50	8/6/2008	8/6/2008	Chino	San Bernardino	WNV
WVAL2008	777	Cx tarsalis	50	8/6/2008	8/6/2008	Chino	San Bernardino	WNV
WVAL2009	737	Cx quinquefasciatus	16	8/5/2008	8/5/2008	Ontario	San Bernardino	WNV
WVAL2012	736	Cx quinquefasciatus	49	8/5/2008	8/5/2008	Chino	San Bernardino	WNV
WVAL5002	740	Cx quinquefasciatus	15	8/5/2008	8/5/2008	Rancho Cucamonga	San Bernardino	WNV
WVAL6007	744	Cx quinquefasciatus	15	8/5/2008	8/5/2008	Ontario	San Bernardino	WNV
WVAL6014	739	Cx quinquefasciatus	31	8/5/2008	8/5/2008	Fwy CA 60	San Bernardino	WNV
WVAL7001	746	Cx quinquefasciatus	26	8/5/2008	8/5/2008	Montclair	San Bernardino	WNV
SJCM8008	1038	Cx tarsalis	50	8/7/2008	8/7/2008	Manteca	San Joaquin	WNV
SJCM8011	1015	Cx pipiens	20	8/5/2008	8/5/2008	Ripon	San Joaquin	WNV
SJCM8018	1008	Cx tarsalis	24	8/4/2008	8/4/2008	El Rancho	San Joaquin	WNV
SJCM8079	1059	Cx pipiens	50	8/7/2008	8/7/2008	Manteca	San Joaquin	WNV
SJCM8079	1061	Cx pipiens	50	8/7/2008	8/7/2008	Manteca	San Joaquin	WNV
SJCM8083	1047	Cx pipiens	50	8/7/2008	8/7/2008	Escalon	San Joaquin	WNV
SJCM8114	1030	Cx tarsalis	9	8/5/2008	8/5/2008	Manteca	San Joaquin	WNV
SJCM8153	1032	Cx tarsalis	24	8/1/2008	8/1/2008	Stockton	San Joaquin	WNV
EAST1023	8192	Cx pipiens	50	8/5/2008	8/5/2008	Modesto	Stanislaus	WNV
EAST1058	8199	Cx pipiens	50	8/5/2008	8/5/2008	Salida	Stanislaus	WNV
EAST1058	8200	Cx pipiens	50	8/5/2008	8/5/2008	Salida	Stanislaus	WNV
EAST1058	8203	Cx tarsalis	18	8/5/2008	8/5/2008	Salida	Stanislaus	WNV
ORCO52	880	Cx quinquefasciatus	50	8/1/2008	8/1/2008	Anaheim	Orange	WNV
ORCO52	881	Cx quinquefasciatus	39	8/1/2008	8/1/2008	Anaheim	Orange	WNV
ORCO52	882	Cx quinquefasciatus	25	8/1/2008	8/1/2008	Anaheim	Orange	WNV
SAYO2107	5157	Cx pipiens	23	8/3/2008	8/3/2008	Citrus Heights	Sacramento	WNV
SAYO4121	5325	Cx tarsalis	26	8/5/2008	8/5/2008	Antelope	Sacramento	WNV
SAYO4122	5090	Cx tarsalis	9	8/2/2008	8/2/2008	Citrus Heights	Sacramento	WNV
SAYO4123	5147	Cx pipiens	8	8/3/2008	8/3/2008	Fair Oaks	Sacramento	WNV
SAYO4123	5150	Cx tarsalis	50	8/3/2008	8/3/2008	Fair Oaks	Sacramento	WNV
SAYO4123	5151	Cx tarsalis	50	8/3/2008	8/3/2008	Fair Oaks	Sacramento	WNV
SAYO4125	5301	Cx tarsalis	50	8/5/2008	8/5/2008	Carmichael	Sacramento	WNV
SAYO4125	5303	Cx pipiens	33	8/5/2008	8/5/2008	Carmichael	Sacramento	WNV
SAYO4126	5059	Cx pipiens	20	8/2/2008	8/2/2008	Antelope	Sacramento	WNV
SAYO4126	5061	Cx tarsalis	50	8/2/2008	8/2/2008	Antelope	Sacramento	WNV
SAYO4126	5260	Cx tarsalis	48	8/4/2008	8/4/2008	Antelope	Sacramento	WNV
SAYO4126	5261	Cx pipiens	24	8/4/2008	8/4/2008	Antelope	Sacramento	WNV
SAYO4129	5029	Cx pipiens	19	8/1/2008	8/1/2008	North Highlands	Sacramento	WNV
SAYO4161	5200	Cx tarsalis	50	8/3/2008	8/3/2008	Sacramento	Sacramento	WNV
SAYO4174	5069	Cx tarsalis	1	8/2/2008	8/2/2008	Carmichael	Sacramento	WNV
SAYO4174	5070	Cx pipiens	50	8/2/2008	8/2/2008	Carmichael	Sacramento	WNV
SAYO4177	5021	Cx pipiens	50	8/1/2008	8/1/2008	Sacramento	Sacramento	WNV
SAYO4250	4848	Cx tarsalis	50	7/30/2008	7/30/2008	Sacramento	Sacramento	WNV
MARN1137	1446	Cx pipiens	1	7/22/2008	7/22/2008	Petaluma	Sonoma	WNV
CNSL1267	414	Cx quinquefasciatus	18	7/31/2008	8/7/2008	Clovis	Fresno	WNV
CNSL1546	411	Cx quinquefasciatus	27	7/29/2008	8/7/2008	Clovis	Fresno	WNV
CNSL1546	413	Cx tarsalis	11	7/29/2008	8/7/2008	Clovis	Fresno	WNV
CNSL1549	417	Cx quinquefasciatus	33	7/31/2008	8/7/2008	Clovis	Fresno	WNV
CNSL1552	415	Cx quinquefasciatus	24	7/31/2008	8/7/2008	Clovis	Fresno	WNV
CNSL2171	428	Cx tarsalis	50	8/1/2008	8/7/2008	Sanger	Fresno	WNV
CNSL2279	406	Cx stigmatosoma	21	7/30/2008	8/7/2008	Sanger	Fresno	WNV

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GRLA2300	839	Cx quinquefasciatus	50	7/31/2008	8/8/2008	Los Angeles	Los Angeles	WNV
GRLA2301	836	Cx quinquefasciatus	29	7/31/2008	8/8/2008	Los Angeles	Los Angeles	WNV
GRLA2310	842	Cx quinquefasciatus	39	7/31/2008	8/8/2008	Gardena	Los Angeles	WNV
GRLA2329	831	Cx quinquefasciatus	33	7/31/2008	8/8/2008	Whittier	Los Angeles	WNV
GRLA2334	846	Cx quinquefasciatus	50	7/31/2008	8/8/2008	Whittier	Los Angeles	WNV
GRLA2334	847	Cx quinquefasciatus	50	7/31/2008	8/8/2008	Whittier	Los Angeles	WNV
GRLA2335	844	Cx quinquefasciatus	45	7/31/2008	8/8/2008	Whittier	Los Angeles	WNV
GRLA2335	845	Cx quinquefasciatus	16	7/31/2008	8/8/2008	Whittier	Los Angeles	WNV
GRLA2346	829	Cx quinquefasciatus	27	7/31/2008	8/8/2008	Montebello	Los Angeles	WNV
GRLA2360	814	Cx tarsalis	49	7/29/2008	8/8/2008	Pico Rivera	Los Angeles	WNV
GRLA2363	820	Cx tarsalis	50	7/29/2008	8/8/2008	Pico Rivera	Los Angeles	WNV
GRLA2365	813	Cx tarsalis	34	7/29/2008	8/8/2008	Pico Rivera	Los Angeles	WNV
GRLA2371	815	Cx stigmatosoma	28	7/29/2008	8/8/2008	South El Monte	Los Angeles	WNV
GRLA2371	816	Cx quinquefasciatus	50	7/29/2008	8/8/2008	South El Monte	Los Angeles	WNV
GRLA2800	854	Cx quinquefasciatus	50	7/31/2008	8/8/2008	Long Beach	Los Angeles	WNV
GRLA2800	855	Cx quinquefasciatus	50	7/31/2008	8/8/2008	Long Beach	Los Angeles	WNV
GRLA2800	857	Cx quinquefasciatus	49	7/31/2008	8/8/2008	Long Beach	Los Angeles	WNV
LONG0903	243	Cx quinquefasciatus	19	8/5/2008	8/7/2008	Long Beach	Los Angeles	WNV
PLCR0025	526	Cx tarsalis	50	7/31/2008	8/8/2008	Lincoln	Placer	WNV
PLCR0025	527	Cx tarsalis	50	7/31/2008	8/7/2008	Lincoln	Placer	WNV
PLCR0026	519	Cx tarsalis	50	7/31/2008	8/7/2008	Sheridan	Placer	WNV
PLCR0522	548	Cx tarsalis	43	7/31/2008	8/7/2008	roseville	Placer	WNV
PLCR1113	542	Cx tarsalis	50	7/31/2008	8/7/2008	Pleasant Grove	Placer	WNV
PLCR1114	536	Cx tarsalis	50	7/31/2008	8/7/2008	Lincoln	Placer	WNV
PLCR1114	537	Cx tarsalis	50	7/31/2008	8/7/2008	Lincoln	Placer	WNV
COAV0200	1438	Cx quinquefasciatus	14	7/30/2008	8/8/2008	Mecca	Riverside	WNV
NWST0006	190	Cx tarsalis	50	7/29/2008	8/6/2008	Lake Elsinore	Riverside	WNV
NWST0006	191	Cx tarsalis	20	7/29/2008	8/6/2008	Lake Elsinore	Riverside	WNV
RIVR0027	472	Cx tarsalis	50	7/30/2008	8/6/2008	San Jacinto	Riverside	WNV
RIVR0027	474	Cx tarsalis	50	7/30/2008	8/6/2008	San Jacinto	Riverside	WNV
RIVR0031	483	Cx tarsalis	50	7/30/2008	8/6/2008	Nuevo	Riverside	WNV
RIVR0038	500	Cx tarsalis	50	8/6/2008	8/8/2008	Hemet	Riverside	WNV
RIVR0038	501	Cx tarsalis	18	8/6/2008	8/8/2008	Hemet	Riverside	WNV
RIVR0039	493	Cx tarsalis	50	8/5/2008	8/8/2008	Moreno Valley	Riverside	WNV
RIVR0039	496	Cx tarsalis	50	8/5/2008	8/8/2008	Moreno Valley	Riverside	WNV
RIVR0039	497	Cx quinquefasciatus	50	8/5/2008	8/8/2008	Moreno Valley	Riverside	WNV
RIVR0050	413	Cx erythrothorax	16	7/22/2008	8/6/2008	Moreno Valley	Riverside	WNV
RIVR0051	416	Cx quinquefasciatus	12	7/22/2008	8/6/2008	Moreno Valley	Riverside	WNV
RIVR0052	418	Cx tarsalis	50	7/22/2008	8/6/2008	Moreno Valley	Riverside	WNV
RIVR0052	419	Cx quinquefasciatus	50	7/22/2008	8/6/2008	Moreno Valley	Riverside	WNV
RIVR0052	490	Cx quinquefasciatus	50	8/5/2008	8/8/2008	Moreno Valley	Riverside	WNV
RIVR0054	414	Cx quinquefasciatus	15	7/22/2008	8/6/2008	Moreno Valley	Riverside	WNV
RIVR0056	486	Cx tarsalis	17	8/5/2008	8/8/2008	Moreno Valley	Riverside	WNV
RIVR0059	503	Cx tarsalis	50	8/6/2008	8/8/2008	Hemet	Riverside	WNV
SAND0129	86	Cx quinquefasciatus	40	8/1/2008	8/7/2008	Chula Vista	San Diego	WNV
SAND0129	87	Cx quinquefasciatus	37	8/1/2008	8/7/2008	Chula Vista	San Diego	WNV
SAND0154	89	Cx quinquefasciatus	39	8/1/2008	8/7/2008	Oceanside	San Diego	WNV
TRLK0524	1086	Cx pipiens	50	8/5/2008	8/7/2008	Keyes	Stanislaus	WNV
DLTA1715	235	Cx tarsalis	50	8/5/2008	8/8/2008	Porterville	Tulare	WNV
DLTA1715	238	Cx quinquefasciatus	17	8/5/2008	8/8/2008	Porterville	Tulare	WNV

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DLTA8423	241	Cx quinquefasciatus	32	8/6/2008	8/8/2008	Visalia	Tulare	WNV
DLTA9518	232	Cx quinquefasciatus	16	8/5/2008	8/8/2008	Visalia	Tulare	WNV
DAVI5124	272	Cx tarsalis	50	8/1/2008	8/6/2008	Woodland	Yolo	WNV
DAVI5126	285	Cx pipiens	42	8/1/2008	8/8/2008	Davis	Yolo	WNV
DAVI5126	287	Cx pipiens	50	8/1/2008	8/6/2008	Davis	Yolo	WNV

Sentinel Chickens

Agency Code	County	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
COAV0035	Riverside	Mecca	7/28/2008	WNV	2365			
COAV0122	Riverside	Mecca	7/28/2008	WNV	2333			
EAST1947	Stanislaus	Modesto	7/23/2008	WNV	2626	2627		
GRLA2223	Los Angeles	Rowland Heights	7/29/2008	WNV	3614	3618	3619	
IMPR0002	Imperial	Seeley	7/29/2008	WNV	2814	2815		
NWST0002	Riverside	Glen Ivy Hot Spring	7/2/2008	WNV	1375			
NWST9227	Riverside	High Grove	7/16/2008	WNV	1404	1405		
SANB0003	San Bernardino	Colton	7/28/2008	WNV	1708	1710		
SANB0011	San Bernardino	Rialto	7/28/2008	WNV	1780	1781	1783	1787
SAYO7004	Sacramento	Sacramento	7/28/2008	WNV	1567			

NATIONAL COMMENTS

As of August 5, 2008, 114 human cases had been reported nationwide this year in the following 23 states: Alabama (1), Arizona (2), Arkansas (2), California (29), Colorado (14), Connecticut (1), Idaho (3), Louisiana (2), Minnesota (3), Mississippi (17), Missouri (4), Nebraska (2), Nevada (1), North Dakota (6), Ohio (1), Oklahoma (5), Pennsylvania (1), South Dakota (7), Tennessee (1), Texas (8), Utah (2), West Virginia (1), and Wyoming (1). Of the 114 individuals, 45 (39%) had neuroinvasive illness. Two fatalities have been reported in Arizona and Mississippi. At this time last year, 308 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.

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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
