

California Arbovirus Surveillance Bulletin # 31

Week 38 Friday, September 19, 2008

Weekly and Year-To-Date Summaries

WEEKLY COMMENTS



Humans

Thirty-eight new human cases of West Nile virus (WNV) illness were reported this week from 9 counties: Contra Costa (1), Los Angeles (21), Riverside (4), Sacramento (1), San Bernardino (5), San Diego (2), San Joaquin (1), Stanislaus (2), and Tulare (1). A total of 236 human cases have been reported this year in the following 22 counties: Alameda (1), Butte (4), Colusa (1), Contra Costa (2), Fresno (1), Glenn (2), Los Angeles (77, including 2 from Long Beach), Merced (1), Orange (45), Placer (2), Riverside (40), Sacramento (8), San Bernardino (10), San Diego (13), San Joaquin (9), Santa Clara (1), Shasta (1), Solano (1), Stanislaus (13), Tehama (1), Tulare (2) and Yolo (1). Of the 236 individuals, 150 (64%) developed neuroinvasive symptoms. The median age of the 236 individuals is 55.5 years (range: 2-94 years), and 145 (61%) are male. Five WNV-related fatalities have been reported in Los Angeles (1), Orange (2), Riverside (1) and San Bernardino (1) counties. A total of 49 WNV-positive blood donation samples have been reported this year; 13 of the individuals reported symptoms and were reclassified as cases.

Horses

Three WNV-positive horses were reported this week from Orange (1), Riverside (1), and Stanislaus (1) counties. **This is the first equine WNV case reported from Stanislaus County this year.** In 2008, 18 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-two WNV-positive dead birds were reported this week from the following 25 counties: Alameda (2), Amador (1), Butte (6), Contra Costa (7), El Dorado (1), Fresno (5), Glenn (1), Humboldt (1), Los Angeles (30), Madera (1), Merced (1), Monterey (3), Nevada (1), Orange (34), Riverside (2), Sacramento (9), San Bernardino (9), San Diego (17), San Joaquin (4), Solano (2), Sonoma (3), Stanislaus (4), Tehama (1), Tulare (2) and Ventura (5). **This is the first indication of WNV activity from Humboldt County this year.** In 2008, 1,965 WNV-positive dead birds have been detected in 40 counties.

Five WNV-positive tree squirrels were reported this week from Alameda (1), Contra Costa (1), and Los Angeles (3) counties. **This is the first WNV-positive tree squirrel reported from Alameda County this year.** In 2008, 22 tree squirrels have tested positive for WNV from five counties.

Mosquito Pools

Ninety-five WNV-positive mosquito pools were reported this week from the following 11 counties: Fresno (3), Kern (3), Lassen (1), Los Angeles (29), Orange (21), Riverside (7), Sacramento (3), San Bernardino (7), San Diego (6), San Joaquin (9), and Tulare (6). **This is the first detection of WNV in Lassen County this year.** In 2008, 1,723 WNV-positive mosquito pools have been detected in 26 counties.

Sentinel Chickens

Fifty-nine WNV seroconversions were reported this week from 10 counties: Glenn (1), Imperial (8), Los Angeles (12), Placer (3), Riverside (17), Sacramento (1), San Bernardino (10), San Diego (3), Tulare (2), and Ventura (2). **These are the first WNV seroconversion reported from Glenn and Ventura counties this year.** In 2008, 255 WNV seroconversions have been detected in chickens from 18 counties.

Website Information: For updated information on WNV in California, please visit the California WNV website, www.westnile.ca.gov, or the California Vectorborne Disease Surveillance System website, www.calsurv.org. For national information on WNV and other arboviruses, please visit the CDC website, www.cdc.gov, and the USGS website, www.westnilemaps.usgs.gov.

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YTD WNV Activity by Element and County, 2008

County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Alameda	1		5	1		1
Amador			3			
Butte	4		34	5	25	
Calaveras			1			
Colusa	1		2			
Contra Costa	2	1	66	23	4	6
El Dorado			4			
Fresno	1	1	24	49	5	
Glenn	2		16	1	1	
Humboldt			1			
Imperial				7	19	
Kern			8	7		
Kings			1			
Lake		1	1	3		
Lassen				1		
Los Angeles	77		346	425	51	8
Madera			2	1		
Marin			1			
Mendocino			1			
Merced	1		3			
Monterey			5			
Nevada			5			
Orange	45	2	513	276	3	3
Placer	2	1	3	25	7	
Riverside	40	5	38	106	55	
Sacramento	8	1	105	274	6	
San Bernardino	10		152	136	43	4
San Diego	13	3	417	32	13	
San Joaquin	9		65	193	1	
San Mateo			2			
Santa Barbara			1			
Santa Clara	1		10	1		
Santa Cruz			1			
Shasta	1		7			
Solano	1		7	1		
Sonoma			4	1		
Stanislaus	13	1	39	69	8	
Sutter			2	11	7	
Tehama	1		5			
Tulare	2	1	47	57	4	
Ventura			12		2	
Yolo	1	1	6	17		
Yuba				1	1	
Totals	236	18	1,965	1,723	255	22

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2007 & 2008 YTD West Nile Virus Comparisons		
	2007	2,008
Total # Dead Bird Reports	26,783	28,161
# Positive Counties	50	43
# Human Cases/ # Tested	257 / 920	236 / 823
# Horse Cases/ # Tested	22 / 284	18 / 198
# Positive Dead Birds/ # Tested	1083 / 4,539	1,965 / 4,859
# Positive Mosquito Pools/ # Tested	929 / 23,371	1,723 / 25,560
# Positive Chicken Sera/ # Tested	331 / 22,411	255 / 23,101
# Positive Squirrels/ # Tested	15 / 156	22 / 231

2008 TEST SUMMARIES

Human & Horse Cases

		Number Tested	WNV		WEE		SLE		Other	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested*	Week	62	0	38	0	0	0	0	0	0
	YTD	823	0	236	0	0	0	0	0	0
Horses Tested	Week	42	0	3	0	0	0	0	0	0
	YTD	216	0	18	0	0	0	0	0	0

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead Birds	Week	219	152
	YTD	4,859	1,965
Tree Squirrels	Week	10	5
	YTD	231	22

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive
Chicken Sera	Week	919	59	0	0
	YTD	23,101	255	0	0
Mosquito Pools: RT-PCR	Week	1,097	79	0	0
	YTD	22,936	1,388	0	0
Mosquito Pools: RAMP	Week	110	16	N/A	N/A
	YTD	2,624	335	N/A	N/A

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POSITIVES: 9/15/08 – 9/19/08

Humans

County	Report Date	Age	Sex	Clin Pres	Onset Date	WNV Fatality
CONTRA COSTA	09/17/08	<18	F	WNF	08/23/08	NO
LOS ANGELES	08/28/08	52	F	WNF^	07/15/08	NO
LOS ANGELES	09/18/08	61	M	WNND	08/14/08	NO
LOS ANGELES	09/18/08	56	M	WNND	08/25/08	NO
LOS ANGELES	09/18/08	94	M	WNF	08/03/08	NO
LOS ANGELES	09/18/08	71	M	WNND	08/26/08	NO
LOS ANGELES	09/18/08	58	M	WNND	08/22/08	NO
LOS ANGELES	09/18/08	62	M	WNF	08/14/08	NO
LOS ANGELES	09/18/08	79	M	WNND	08/16/08	NO
LOS ANGELES	09/18/08	18	M	WNF	08/18/08	NO
LOS ANGELES	09/18/08	55	M	WNND	08/16/08	NO
LOS ANGELES	09/18/08	67	M	WNND	09/05/08	NO
LOS ANGELES	09/18/08	53	M	WNND	08/08/08	NO
LOS ANGELES	09/18/08	22	F	WNND	08/15/08	NO
LOS ANGELES	09/18/08	72	M	WNND	08/09/08	NO
LOS ANGELES	09/18/08	38	F	WNF	08/25/08	NO
LOS ANGELES	09/18/08	83	M	WNND	09/01/08	NO
LOS ANGELES	09/18/08	70	M	WNND	09/04/08	NO
LOS ANGELES	09/18/08	55	M	WNF	08/30/08	NO
LOS ANGELES	09/18/08	67	M	WNND	09/04/08	NO
LOS ANGELES	09/18/08	37	F	WNF	09/01/08	NO
LOS ANGELES	09/18/08	58	F	WNF	08/25/08	NO
RIVERSIDE	09/16/08	82	F	WNND	08/11/08	YES
RIVERSIDE	09/16/08	74	F	WNND	08/11/08	NO
RIVERSIDE	09/16/08	55	F	WNND	08/07/08	NO
RIVERSIDE	09/17/08	21	M	WNND	08/28/08	NO
SACRAMENTO	09/17/08	53	F	WNF	09/04/08	NO
SAN BERNARDINO	09/12/08	60	M	WNF	07/25/08	NO
SAN BERNARDINO	09/12/08	19	M	WNF	08/19/08	NO
SAN BERNARDINO	09/12/08	33	M	WNF	08/01/08	NO
SAN BERNARDINO	09/17/08	71	F	WNND	08/27/08	NO
SAN BERNARDINO	09/18/08	16	F	WNF^	08/18/08	NO
SAN DIEGO	09/18/08	53	F	n/a	n/a	NO
SAN DIEGO	09/18/08	64	F	n/a	n/a	NO
SAN JOAQUIN	09/18/08	54	M	WNF	08/01/08	NO
STANISLAUS	09/15/08	80	F	WNND	n/a	NO
STANISLAUS	09/18/08	50	F	WNF	08/10/08	NO
TULARE	09/18/08	66	M	WNND	09/06/08	NO

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Dead Birds and Tree Squirrels

County	City	Zip Code	Species	Reported	Tested	Result	Test Type
Alameda	Hayward	94611	Fox Squirrel	9/10/08	9/15/08	WNV	RT-PCR
Alameda	Livermore	94551	American Crow	9/3/08	9/15/08	WNV	RT-PCR
Alameda	Livermore	94550	American Crow	9/4/08	9/15/08	WNV	RT-PCR
Amador	Pine Grove	95665	Acorn Woodpecker	8/29/08	9/15/08	WNV	RT-PCR
Butte	Chico	95973	American Crow	9/3/08	9/15/08	WNV	RT-PCR
Butte	Chico	95973	American Crow	9/3/08	9/15/08	WNV	RT-PCR
Butte	Chico	95973	American Crow	9/10/08	9/15/08	WNV	RT-PCR
Butte	Chico	95926	Western Scrub-Jay	9/3/08	9/15/08	WNV	RT-PCR
Butte	Chico	95928	Western Scrub-Jay	9/8/08	9/15/08	WNV	RT-PCR
Butte	Durham	95938	Western Scrub-Jay	9/3/08	9/15/08	WNV	RT-PCR
Contra Costa	Antioch	94509	American Crow	9/14/08	9/15/08	WNV	RAMP
Contra Costa	Antioch	94509	Western Scrub-Jay	9/16/08	9/16/08	WNV	RAMP
Contra Costa	Brentwood	94513	American Crow	9/15/08	9/16/08	WNV	RAMP
Contra Costa	Brentwood	94513	Common Yellowthroat	9/4/08	9/15/08	WNV	RT-PCR
Contra Costa	Oakley	94561	American Crow	9/11/08	9/11/08	WNV	RAMP
Contra Costa	Pittsburg	94565	Fox Squirrel	9/4/08	9/15/08	WNV	RT-PCR
Contra Costa	Pittsburg	94565	Western Scrub-Jay	9/4/08	9/15/08	WNV	RT-PCR
Contra Costa	Walnut Creek	94596	California Towhee	9/3/08	9/15/08	WNV	RT-PCR
El Dorado	El Dorado Hills	95762	Common Raven	9/8/08	9/15/08	WNV	RT-PCR
Fresno	Fresno	93710	American Crow	9/5/08	9/15/08	WNV	RT-PCR
Fresno	Fresno	93710	American Crow	9/5/08	9/15/08	WNV	RT-PCR
Fresno	Fresno	93722	American Crow	9/9/08	9/15/08	WNV	RT-PCR
Fresno	Laton	93242	American Coot	9/9/08	9/15/08	WNV	RT-PCR
Fresno	Sanger	93657	House Sparrow	9/4/08	9/15/08	WNV	RT-PCR
Glenn	Willows	95988	American Crow	9/3/08	9/15/08	WNV	RT-PCR
Humboldt	Eureka	95503	Common Murre	9/4/08	9/15/08	WNV	RT-PCR
Los Angeles	Arcadia	91006	American Crow	9/9/08	9/15/08	WNV	RT-PCR
Los Angeles	Canoga Park	91304	Fox Squirrel	9/3/08	9/15/08	WNV	RT-PCR
Los Angeles	Carson	90745	House Finch	9/8/08	9/15/08	WNV	RT-PCR
Los Angeles	Claremont	91711	American Crow	9/8/08	9/15/08	WNV	RT-PCR
Los Angeles	Compton	90222	American Crow	9/5/08	9/15/08	WNV	RT-PCR
Los Angeles	Culver City	90230	American Crow	9/9/08	9/15/08	WNV	RT-PCR
Los Angeles	Downey	90241	American Crow	9/4/08	9/15/08	WNV	RT-PCR
Los Angeles	Downey	90240	Mourning Dove	9/8/08	9/15/08	WNV	RT-PCR
Los Angeles	El Monte	91732	American Crow	9/9/08	9/15/08	WNV	RT-PCR
Los Angeles	Gardena	90249	Fox Squirrel	9/5/08	9/15/08	WNV	RT-PCR
Los Angeles	La Crescenta	91214	American Crow	9/9/08	9/15/08	WNV	RT-PCR
Los Angeles	La Puente	91744	House Finch	9/5/08	9/15/08	WNV	RT-PCR
Los Angeles	La Verne	91750	American Crow	9/8/08	9/15/08	WNV	RT-PCR
Los Angeles	Lakewood	90713	American Crow	9/4/08	9/15/08	WNV	RT-PCR
Los Angeles	Long Beach	90808	American Crow	9/3/08	9/15/08	WNV	RT-PCR
Los Angeles	Los Angeles	90039	American Crow	9/9/08	9/15/08	WNV	RT-PCR
Los Angeles	Los Angeles	90042	American Crow	9/9/08	9/15/08	WNV	RT-PCR
Los Angeles	Los Angeles	90033	Common Raven	9/9/08	9/15/08	WNV	RT-PCR
Los Angeles	Los Angeles	91335	House Finch	9/4/08	9/15/08	WNV	RT-PCR
Los Angeles	Palmdale	93551	American Goldfinch	9/8/08	9/15/08	WNV	RT-PCR
Los Angeles	Palos Verdes Estates	90274	American Crow	9/8/08	9/15/08	WNV	RT-PCR
Los Angeles	Pasadena	91101	California Towhee	9/3/08	9/15/08	WNV	RT-PCR
Los Angeles	Santa Clarita	91321	American Crow	9/8/08	9/15/08	WNV	RT-PCR

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Los Angeles	Tarzana	91356	House Wren	9/10/08	9/15/08	WNV	RT-PCR
Los Angeles	Valencia	91354	American Crow	9/9/08	9/15/08	WNV	RT-PCR
Los Angeles	Van Nuys	91406	House Finch	9/3/08	9/15/08	WNV	RT-PCR
Los Angeles	West Covina	91791	American Crow	9/10/08	9/15/08	WNV	RT-PCR
Los Angeles	West Hills	91304	American Crow	9/2/08	9/15/08	WNV	RT-PCR
Los Angeles	West Los Angeles	90025	American Crow	9/9/08	9/15/08	WNV	RT-PCR
Los Angeles	West Los Angeles	90064	American Crow	9/9/08	9/15/08	WNV	RT-PCR
Los Angeles	Winnetka	91306	House Finch	9/8/08	9/15/08	WNV	RT-PCR
Los Angeles	Woodlan Hills	91367	Fox Squirrel	8/9/08	9/15/08	WNV	RT-PCR
Los Angeles	Woodland Hills	91364	Red-tailed Hawk	8/29/08	9/15/08	WNV	RT-PCR
Madera	Madera	93638	American Crow	9/10/08	9/15/08	WNV	RT-PCR
Merced	Atwater	95301	Owl	9/9/08	9/15/08	WNV	RT-PCR
Monterey	Carmel	93923	Great Horned Owl	9/4/08	9/15/08	WNV	RT-PCR
Monterey	Salinas	93901	Costa's Hummingbird	9/4/08	9/15/08	WNV	RT-PCR
Monterey	Salinas	93901	European Starling	9/3/08	9/15/08	WNV	RT-PCR
Nevada	Grass Valley	95949	Goldfinch	9/8/08	9/15/08	WNV	RT-PCR
Orange	Anaheim	92804	American Crow	8/29/08	9/8/08	WNV	RT-PCR
Orange	Anaheim	92802	American Crow	9/5/08	9/8/08	WNV	RT-PCR
Orange	Anaheim	92806	American Crow	9/8/08	9/8/08	WNV	RT-PCR
Orange	Anaheim	92808	House Finch	9/4/08	9/4/08	WNV	RT-PCR
Orange	Brea	92821	House Finch	9/5/08	9/8/08	WNV	RT-PCR
Orange	Buena Park	90620	Rock Dove	8/27/08	9/8/08	WNV	RT-PCR
Orange	Costa Mesa	92626	American Crow	8/25/08	9/8/08	WNV	RT-PCR
Orange	Costa Mesa	92626	American Crow	9/4/08	9/4/08	WNV	RT-PCR
Orange	Costa Mesa	92626	American Crow	9/8/08	9/8/08	WNV	RT-PCR
Orange	Cypress	90630	House Finch	9/2/08	9/4/08	WNV	RT-PCR
Orange	Fountain Valley	92708	American Crow	8/21/08	9/8/08	WNV	RT-PCR
Orange	Fountain Valley	92708	American Crow	9/2/08	9/4/08	WNV	RT-PCR
Orange	Fountain Valley	92708	American Crow	9/2/08	9/4/08	WNV	RT-PCR
Orange	Fullerton	92831	American Crow	9/4/08	9/4/08	WNV	RT-PCR
Orange	Garden Grove	92844	American Crow	9/2/08	9/4/08	WNV	RT-PCR
Orange	Huntington Beach	92647	American Crow	9/4/08	9/4/08	WNV	RT-PCR
Orange	Huntington Beach	92647	American Crow	9/5/08	9/8/08	WNV	RT-PCR
Orange	Huntington Beach	92647	American Crow	9/4/08	9/8/08	WNV	RT-PCR
Orange	Huntington Beach	92648	Mourning Dove	9/4/08	9/4/08	WNV	RT-PCR
Orange	La Palma	90623	American Crow	9/4/08	9/4/08	WNV	RT-PCR
Orange	Laguna Hills	92656	Red-shouldered Hawk	9/4/08	9/8/08	WNV	RT-PCR
Orange	Laguna Hills	92653	House Finch	8/26/08	9/8/08	WNV	RT-PCR
Orange	Laguna Hills	92653	House Finch	8/26/08	9/8/08	WNV	RT-PCR
Orange	Lake Forest	92630	American Crow	9/4/08	9/4/08	WNV	RT-PCR
Orange	Los Alamitos	90720	American Crow	9/4/08	9/8/08	WNV	RT-PCR
Orange	Mission Viejo	92692	American Crow	9/8/08	9/8/08	WNV	RT-PCR
Orange	Orange	92869	House Finch	9/5/08	9/8/08	WNV	RT-PCR
Orange	Santa Ana	92706	American Crow	9/4/08	9/4/08	WNV	RT-PCR
Orange	Santa Ana	92705	American Crow	9/8/08	9/8/08	WNV	RT-PCR
Orange	Santa Ana	92706	American Crow	9/2/08	9/4/08	WNV	RT-PCR
Orange	Tustin	92705	American Crow	9/2/08	9/4/08	WNV	RT-PCR
Orange	Tustin	92780	American Crow	9/2/08	9/4/08	WNV	RT-PCR
Orange	Yorba Linda	92886	American Crow	9/2/08	9/4/08	WNV	RT-PCR
Orange	Yorba Linda	92887	American Crow	9/2/08	9/4/08	WNV	RT-PCR
Riverside	MIRA LOMA	91752	American Crow	9/4/08	9/15/08	WNV	RT-PCR
Riverside	Nuevo	92567	American Crow	8/27/08	9/15/08	WNV	RT-PCR

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Sacramento	Antelope	95843	Northern Mockingbird	9/2/08	9/15/08	WNV	RT-PCR
Sacramento	Carmichael	95608	Yellow-billed Magpie	9/3/08	9/15/08	WNV	RT-PCR
Sacramento	Citrus Heights	95610	American Crow	8/28/08	9/15/08	WNV	RT-PCR
Sacramento	Elk Grove	95758	American Crow	9/3/08	9/15/08	WNV	RT-PCR
Sacramento	Elk Grove	95758	American Crow	9/9/08	9/15/08	WNV	RT-PCR
Sacramento	Elk Grove	95758	Northern Mockingbird	8/29/08	9/15/08	WNV	RT-PCR
Sacramento	Elk Grove	95758	Western Scrub-Jay	9/4/08	9/15/08	WNV	RT-PCR
Sacramento	Fair Oaks	95628	Yellow-billed Magpie	9/10/08	9/15/08	WNV	RT-PCR
Sacramento	Rancho Cordova	95670	American Crow	9/8/08	9/15/08	WNV	RT-PCR
San Bernardino	Alta Loma	91701	American Crow	9/15/08	9/15/08	WNV	RAMP
San Bernardino	Chino	91710	American Crow	9/3/08	9/15/08	WNV	RT-PCR
San Bernardino	Chino	91710	American Crow	9/9/08	9/15/08	WNV	RT-PCR
San Bernardino	chino	91710	American Crow	9/12/08	9/12/08	WNV	RAMP
San Bernardino	Colton	92324	American Crow	8/27/08	9/15/08	WNV	RT-PCR
San Bernardino	Ontario	91761	American Crow	9/12/08	9/12/08	WNV	RAMP
San Bernardino	Ontario	91761	American Crow	9/16/08	9/16/08	WNV	RAMP
San Bernardino	Ontario	91762	Western Scrub-Jay	9/12/08	9/12/08	WNV	RAMP
San Bernardino	Rancho Cucamonga	91730	American Crow	9/9/08	9/10/08	WNV	RAMP
San Diego	Alpine	91901	Western Scrub-Jay	9/9/08	9/9/08	WNV	RT-PCR
San Diego	Bonita	91902	American Crow	9/9/08	9/9/08	WNV	RT-PCR
San Diego	Carlsbad	92008	American Crow	9/12/08	9/15/08	WNV	RT-PCR
San Diego	Carlsbad	92009	Common Raven	9/9/08	9/10/08	WNV	RT-PCR
San Diego	El Cajon	92019	American Crow	9/9/08	9/9/08	WNV	RT-PCR
San Diego	Encinitas	92024	American Crow	9/12/08	9/15/08	WNV	RT-PCR
San Diego	Escondido	92027	American Crow	9/12/08	9/15/08	WNV	RT-PCR
San Diego	Escondido	92027	Western Bluebird	9/10/08	9/10/08	WNV	RT-PCR
San Diego	La Jolla	92307	American Crow	9/10/08	9/11/08	WNV	RT-PCR
San Diego	Poway	92064	American Crow	9/9/08	9/9/08	WNV	RT-PCR
San Diego	Ramona	92065	American Crow	9/11/08	9/11/08	WNV	RT-PCR
San Diego	San Diego	92131	American Crow	9/12/08	9/11/08	WNV	RT-PCR
San Diego	San Diego	92130	American Crow	9/12/08	9/15/08	WNV	RT-PCR
San Diego	San Diego	92110	American Crow	9/12/08	9/15/08	WNV	RT-PCR
San Diego	San Diego	92130	American Crow	9/12/08	9/15/08	WNV	RT-PCR
San Diego	San Marcos	92078	American Crow	9/10/08	9/10/08	WNV	RT-PCR
San Diego	Vista	92084	American Crow	9/9/08	9/9/08	WNV	RT-PCR
San Joaquin	Lodi	95240	Western Scrub-Jay	9/4/08	9/15/08	WNV	RT-PCR
San Joaquin	Manteca	95336	American Crow	9/10/08	9/11/08	WNV	VecTest
San Joaquin	Stockton	95219	American Crow	9/14/08	9/15/08	WNV	VecTest
San Joaquin	Stockton	95215	Western Scrub-Jay	9/3/08	9/15/08	WNV	RT-PCR
Solano	Vacaville	95687	Western Scrub-Jay	7/22/08	7/22/08	WNV	RAMP
Solano	Vacaville	95687	Western Scrub-Jay	8/5/08	8/5/08	WNV	RAMP
Sonoma	Penngrrove	94951	Rock Dove	9/9/08	9/15/08	WNV	RT-PCR
Sonoma	Petaluma	94954	House Sparrow	8/26/08	9/15/08	WNV	RT-PCR
Sonoma	Santa Rosa	95401	Goose	9/8/08	9/15/08	WNV	RT-PCR
Stanislaus	Hughson	95326	American Crow	9/11/08	9/11/08	WNV	VecTest
Stanislaus	Hughson	95326	Western Scrub-Jay	9/4/08	9/15/08	WNV	RT-PCR
Stanislaus	Modesto	95354	Western Scrub-Jay	9/3/08	9/15/08	WNV	RT-PCR
Stanislaus	Turlock	95382	Mourning Dove	9/8/08	9/15/08	WNV	RT-PCR
Tehama	Red Bluff	96080	Western Bluebird	9/10/08	9/15/08	WNV	RT-PCR
Tulare	Porterville	93257	American Crow	8/27/08	9/15/08	WNV	RT-PCR
Tulare	Visalia	93292	Black Phoebe	9/8/08	9/15/08	WNV	RT-PCR
Ventura	Moorpark	93021	Cooper's Hawk	9/2/08	9/15/08	WNV	RT-PCR

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Ventura	Ojai	93023	American Crow	9/4/08	9/15/08	WNV	RT-PCR
Ventura	Oxnard	93035	Rock Dove	9/5/08	9/15/08	WNV	RT-PCR
Ventura	Simi Valley	93065	American Crow	9/4/08	9/15/08	WNV	RT-PCR
Ventura	Westlake Village	91361	American Crow	9/8/08	9/15/08	WNV	RT-PCR

Mosquito Pools

County	Site Code	Pool #	# in Pool	Species	City	Collected	Tested	Result
Fresno	CNSL1597	605	17	Cx quinquefasciatus	Fresno	9/12/2008	9/18/2008	WNV
Fresno	CNSL1597	606	8	Cx quinquefasciatus	Fresno	9/12/2008	9/19/2008	WNV
Fresno	FRNO0011	40	50	Cx quinquefasciatus	Fresno	9/10/2008	9/18/2008	WNV
Kern	KERN0029	360	48	Cx tarsalis	Lamont	9/10/2008	9/17/2008	WNV
Kern	KERN0083	364	50	Cx tarsalis	Arvin	9/10/2008	9/19/2008	WNV
Kern	KERN2016	377	6	Cx quinquefasciatus	Bakersfield	9/12/2008	9/19/2008	WNV
Lassen	VBDS	13	50	Culex tarsalis	Litchfield	8/20/2008	8/27/2008	WNV
Los Angeles	GRLA2081	1063	13	Cx quinquefasciatus	Los Angeles	9/11/2008	9/19/2008	WNV
Los Angeles	GRLA2097	1062	44	Cx quinquefasciatus	La Mirada	9/11/2008	9/19/2008	WNV
Los Angeles	GRLA2100	1065	12	Cx quinquefasciatus	Norwalk	9/11/2008	9/19/2008	WNV
Los Angeles	GRLA2166	1075	50	Cx quinquefasciatus	Montebello	9/11/2008	9/18/2008	WNV
Los Angeles	GRLA2166	1076	39	Cx quinquefasciatus	Montebello	9/11/2008	9/19/2008	WNV
Los Angeles	GRLA2194	1072	50	Cx quinquefasciatus	South El Monte	9/11/2008	9/18/2008	WNV
Los Angeles	GRLA2268	1085	48	Cx quinquefasciatus	Cerritos	9/11/2008	9/19/2008	WNV
Los Angeles	GRLA2270	1084	23	Cx quinquefasciatus	Bellflower	9/11/2008	9/18/2008	WNV
Los Angeles	GRLA2277	1081	27	Cx quinquefasciatus	Long Beach	9/11/2008	9/18/2008	WNV
Los Angeles	GRLA2495	5911	22	Cx quinquefasciatus	La Canada Flintridge	9/11/2008	9/18/2008	WNV
Los Angeles	GRLA2554	5897	38	Cx quinquefasciatus	Winnetka	9/11/2008	9/18/2008	WNV
Los Angeles	GRLA2555	5892	50	Cx quinquefasciatus	Encino	9/11/2008	9/18/2008	WNV
Los Angeles	GRLA2555	5893	50	Cx quinquefasciatus	Encino	9/11/2008	9/18/2008	WNV
Los Angeles	GRLA2555	5894	22	Cx quinquefasciatus	Encino	9/11/2008	9/18/2008	WNV
Los Angeles	GRLA2567	5904	12	Cx quinquefasciatus	Woodland Hills	9/11/2008	9/18/2008	WNV
Los Angeles	GRLA2583	5889	22	Cx quinquefasciatus	Studio City	9/11/2008	9/18/2008	WNV
Los Angeles	GRLA2594	5909	34	Cx quinquefasciatus	San Marino	9/11/2008	9/19/2008	WNV
Los Angeles	GRLA2635	5888	12	Cx quinquefasciatus	Van Nuys	9/9/2008	9/19/2008	WNV
Los Angeles	GRLA2650	5868	50	Cx quinquefasciatus	Encino	9/9/2008	9/19/2008	WNV
Los Angeles	GRLA2651	5870	41	Cx quinquefasciatus	Encino	9/9/2008	9/18/2008	WNV
Los Angeles	GRLA2652	5871	50	Cx quinquefasciatus	Encino	9/9/2008	9/18/2008	WNV
Los Angeles	GRLA2655	5885	18	Cx quinquefasciatus	Encino	9/9/2008	9/18/2008	WNV
Los Angeles	GRLA2800	1087	22	Cx quinquefasciatus	Long Beach	9/11/2008	9/19/2008	WNV
Los Angeles	GRLA2889	1059	34	Cx quinquefasciatus	Lakewood	9/11/2008	9/18/2008	WNV
Los Angeles	GRLA2891	1067	40	Cx quinquefasciatus	Hawaiian Gardens	9/11/2008	9/19/2008	WNV
Los Angeles	GRLA2897	1058	36	Cx quinquefasciatus	Long Beach	9/11/2008	9/18/2008	WNV
Los Angeles	LACW1086	198	39	Cx quinquefasciatus	Beverly Hills	9/11/2008	9/19/2008	WNV
Los Angeles	LONG0401	284	19	Cx quinquefasciatus	Long Beach	9/16/2008	9/18/2008	WNV
Los Angeles	LONG0601	285	43	Cx quinquefasciatus	Long Beach	9/16/2008	9/19/2008	WNV
Orange	ORCO0002	1217	50	Cx quinquefasciatus	Fullerton	9/3/2008	9/4/2008	WNV
Orange	ORCO0003	1128	12	Cx stigmatosoma	Garden Grove	8/26/2008	8/28/2008	WNV
Orange	ORCO0003	1196	40	Cx quinquefasciatus	Garden Grove	9/2/2008	9/4/2008	WNV
Orange	ORCO0003	1198	13	Cx stigmatosoma	Garden Grove	9/2/2008	9/4/2008	WNV
Orange	ORCO0006	1166	7	Cx quinquefasciatus	Irvine	8/28/2008	9/2/2008	WNV

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Orange	ORCO0008	1202	8	Cx quinquefasciatus	Huntington Beach	9/2/2008	9/4/2008	WNV
Orange	ORCO0016	1233	15	Cx quinquefasciatus	San Clemente	9/3/2008	9/4/2008	WNV
Orange	ORCO0030	1219	50	Cx quinquefasciatus	La Habra	9/3/2008	9/4/2008	WNV
Orange	ORCO0030	1220	50	Cx quinquefasciatus	La Habra	9/3/2008	9/4/2008	WNV
Orange	ORCO0033	1223	50	Cx quinquefasciatus	Westminster	9/3/2008	9/4/2008	WNV
Orange	ORCO0033	1224	10	Cx quinquefasciatus	Westminster	9/3/2008	9/4/2008	WNV
Orange	ORCO0036	1210	48	Cx quinquefasciatus	Cypress	9/3/2008	9/4/2008	WNV
Orange	ORCO0081	1213	50	Cx quinquefasciatus	Seal Beach	9/3/2008	9/4/2008	WNV
Orange	ORCO0081	1214	17	Cx quinquefasciatus	Seal Beach	9/3/2008	9/4/2008	WNV
Orange	ORCO0082	1216	37	Cx quinquefasciatus	Cypress	9/3/2008	9/4/2008	WNV
Orange	ORCO0084	1222	23	Cx quinquefasciatus	Orange	9/3/2008	9/4/2008	WNV
Orange	ORCO0105	1160	6	Cx quinquefasciatus	Fullerton	8/27/2008	8/28/2008	WNV
Orange	ORCO0116	1249	50	Cx quinquefasciatus	Garden Grove	9/5/2008	9/9/2008	WNV
Orange	ORCO0116	1250	23	Cx quinquefasciatus	Garden Grove	9/5/2008	9/9/2008	WNV
Orange	ORCO0117	1251	50	Cx quinquefasciatus	Orange	9/5/2008	9/9/2008	WNV
Orange	ORCO0117	1252	37	Cx quinquefasciatus	Orange	9/5/2008	9/9/2008	WNV
Riverside	COAV0058	1606	50	Cx tarsalis	Mecca	9/5/2008	9/15/2008	WNV
Riverside	RIVR0002	667	50	Cx tarsalis	Nuevo	9/11/2008	9/19/2008	WNV
Riverside	RIVR0022	653	50	Cx erythrothorax	Murrieta	9/9/2008	9/19/2008	WNV
Riverside	RIVR0039	698	50	Cx quinquefasciatus	Moreno Valley	9/16/2008	9/18/2008	WNV
Riverside	RIVR0048	705	40	Cx quinquefasciatus	Hemet	9/17/2008	9/18/2008	WNV
Riverside	RIVR0052	686	50	Cx quinquefasciatus	Moreno Valley	9/16/2008	9/19/2008	WNV
Riverside	RIVR0070	664	20	Cx tarsalis	San Jacinto	9/10/2008	9/19/2008	WNV
Sacramento	SAYO2208	7662	16	Cx tarsalis	Wilton	9/16/2008	9/17/2008	WNV
Sacramento	SAYO2303	7588	21	Cx pipiens	Sacramento	9/16/2008	9/17/2008	WNV
Sacramento	SAYO4365	7633	44	Cx pipiens	Galt	9/16/2008	9/17/2008	WNV
San Bernardino	WVAL2006	618	50	Cx tarsalis	Chino	7/23/2008	8/29/2008	WNV
San Bernardino	WVAL2008	930	50	Cx quinquefasciatus	Chino	8/21/2008	9/5/2008	WNV
San Bernardino	WVAL5005	880	25	Cx quinquefasciatus	Rancho Cucamonga	8/19/2008	9/5/2008	WNV
San Bernardino	WVAL5008	888	19	Cx quinquefasciatus	Rancho Cucamonga	8/19/2008	9/5/2008	WNV
San Bernardino	WVAL6007	877	20	Cx quinquefasciatus	Ontario	8/19/2008	9/5/2008	WNV
San Bernardino	WVAL7001	869	20	Cx quinquefasciatus	Montclair	8/19/2008	9/5/2008	WNV
San Bernardino	WVAL7002	867	28	Cx quinquefasciatus	Montclair	8/19/2008	9/5/2008	WNV
San Diego	SAND0060	206	28	Cx quinquefasciatus	San Diego	9/16/2008	9/19/2008	WNV
San Diego	SAND0211	187	25	Cx quinquefasciatus	San Diego	9/11/2008	9/19/2008	WNV
San Diego	SAND0213	189	22	Cx quinquefasciatus	San Diego	9/11/2008	9/19/2008	WNV
San Diego	SAND0216	192	18	Cx quinquefasciatus	Lakeside	9/11/2008	9/19/2008	WNV
San Diego	SAND0219	195	32	Cx quinquefasciatus	San Diego	9/12/2008	9/19/2008	WNV
San Diego	SAND0222	199	44	Cx quinquefasciatus	San Diego	9/12/2008	9/19/2008	WNV
San Joaquin	SJCM8029	1470	27	Cx pipiens	Farmington	8/28/2008	8/29/2008	WNV
San Joaquin	SJCM8047	1475	50	Cx pipiens	Stockton	8/28/2008	8/29/2008	WNV
San Joaquin	SJCM8161	1513	46	Cx pipiens	Ripon	8/28/2008	8/29/2008	WNV
San Joaquin	SJCM8161	1514	50	Cx pipiens	Ripon	8/28/2008	8/29/2008	WNV
San Joaquin	SJCM8161	1515	50	Cx pipiens	Ripon	8/28/2008	8/29/2008	WNV
San Joaquin	SJCM8070	1919	50	Cx tarsalis	Galt	9/18/2008	9/19/2008	WNV
San Joaquin	SJCM8159	1926	50	Cx pipiens	Stockton	9/18/2008	9/19/2008	WNV
San Joaquin	SJCM8159	1928	50	Cx pipiens	Stockton	9/18/2008	9/19/2008	WNV
San Joaquin	SJCM8162	1934	29	Cx pipiens	Manteca	9/18/2008	9/19/2008	WNV
Tulare	DLTA7624	570	50	Cx tarsalis	Woodlake	9/10/2008	9/15/2008	WNV

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Tulare	DLTA7624	573	33	Cx tarsalis	Woodlake	9/10/2008	9/15/2008	WNV
Tulare	DLTA8414	583	50	Cx quinquefasciatus	Visalia	9/16/2008	9/18/2008	WNV
Tulare	DLTA8414	584	50	Cx quinquefasciatus	Visalia	9/16/2008	9/18/2008	WNV
Tulare	DLTA9504	593	19	Cx quinquefasciatus	Visalia	9/16/2008	9/18/2008	WNV
Tulare	DLTA9616	576	50	Cx quinquefasciatus	Exeter	9/11/2008	9/18/2008	WNV

Sentinel Chickens

County	Site Code	City	Date Bled	Result	Band 01	Band 02	Band 03	Band 04
Glenn	GLEN9701	Willows	9/3/2008	WNV	2715			
Imperial	COAV5001	Niland	8/25/2008	WNV	2347	2376	2377	
Imperial	COAV5002	Niland	9/8/2008	WNV	2381	2390		
Imperial	IMPR0016	Holtville	7/29/2008	WNV	2821	2824		
Imperial	IMPR0016	Holtville	9/8/2008	WNV	2825			
Los Angeles	ANTV8656	Lancaster	8/27/2008	WNV	2072			
Los Angeles	ANTV8656	Lancaster	9/10/2008	WNV	2070			
Los Angeles	GRLA2371	South El Monte	8/25/2008	WNV	3603			
Los Angeles	GRLA2465	Los Angeles	9/9/2008	WNV	3661	3669		
Los Angeles	GRLA2615	Newhall	9/10/2008	WNV	3672			
Los Angeles	GRLA2651	Encino	9/9/2008	WNV	3653	3655	3657	
Los Angeles	LACW1007	Baldwin Hills	9/8/2008	WNV	1070			
Los Angeles	LACW1049	Inglewood	9/8/2008	WNV	1149			
Los Angeles	LONG0003	Long Beach	8/25/2008	WNV	2218			
Placer	PLCR0401	Auburn	8/18/2008	WNV	1473			
Placer	PLCR0401	Auburn	9/2/2008	WNV	1472			
Placer	PLCR0403	Sheridan	9/2/2008	WNV	1459			
Riverside	COAV0035	Mecca	9/8/2008	WNV	2366			
Riverside	COAV0131	Oasis	8/25/2008	WNV	2331			
Riverside	COAV0131	Oasis	9/8/2008	WNV	2328			
Riverside	COAV0200	Mecca	9/8/2008	WNV	2260	2261	2262	2271
Riverside	NWST0002	Glen Ivy Hot Spring	9/11/2008	WNV	1370	1374		
Riverside	NWST6666		8/27/2008	WNV	1383	1387		
Riverside	NWST6666		9/11/2008	WNV	1379			
Riverside	NWST9226		9/11/2008	WNV	1394	1395	1396	
Riverside	RIVR0002	Nuevo	9/10/2008	WNV	1528			
Riverside	RIVR0008	Murrieta	9/10/2008	WNV	1550			
Sacramento	SAYO7006	Sacramento	9/12/2008	WNV	1613			
San Bernardino	SANB0003	Colton	9/9/2008	WNV	1709			
San Bernardino	SANB0004	San Bernadino	9/9/2008	WNV	1721			
San Bernardino	SANB0006	Yucaipa	9/9/2008	WNV	1735			
San Bernardino	SANB0007	Fontana	9/9/2008	WNV	1744			
San Bernardino	SANB0008	Upland	9/9/2008	WNV	1757			
San Bernardino	WVAL0001	Chino	8/28/2008	WNV	1971			
San Bernardino	WVAL0001	Chino	9/10/2008	WNV	1969			

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San Bernardino	WVAL0006	Ontario	8/28/2008	WNV	1983			
San Bernardino	WVAL0009	Rancho Cucamonga	8/28/2008	WNV	1988			
San Bernardino	WVAL0011	Ontario Airport	8/28/2008	WNV	1992			
San Diego	SAND0015	Imperial Beach	8/26/2008	WNV	1831			
San Diego	SAND0016	Carlsbad	8/26/2008	WNV	1855	1857		
Tulare	DLTA6309	Reedley	8/25/2008	WNV	2619			
Tulare	DLTA6309	Reedley	9/8/2008	WNV	2615			
Ventura	VENT0500	Camarillo	9/9/2008	WNV	3498			
Ventura	VENT0600	Fillmore	8/26/2008	WNV	3460			

NATIONAL COMMENTS

As of September 16, 2008, 712 human cases had been reported nationwide this year in the following 35 states: Alabama (14), Arizona (12), Arkansas (8), California (198), Colorado (62), Connecticut (5), Georgia (1), Idaho (32), Illinois (4), Indiana (1), Iowa (7), Kansas (12), Louisiana (24), Maryland (6), Michigan (2), Minnesota (16), Mississippi (76), Missouri (8), Montana (5), Nebraska (22), Nevada (11), New Mexico (4), New York (18), North Dakota (36), Ohio (5), Oklahoma (6), Oregon (4), Pennsylvania (5), South Dakota (35), Tennessee (8), Texas (41), Utah (14), West Virginia (1), Wisconsin (4), and Wyoming (5). Of the 712 individuals, 295 (41%) had neuroinvasive illness. As of September 16, eleven fatalities had been reported in Arizona (1), California (4), Mississippi (2), New York (3) and Texas (1). At this time last year, 1,982 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
