

California Arbovirus Surveillance Bulletin # 32

Week 39 Friday, September 26, 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: Calaveras (1), Kings (1), Los Angeles (14), Orange (8), Placer (2), Riverside (3), San Bernardino (2), San Diego (4), and Stanislaus (3). **These are the first human cases reported from Calaveras and Kings counties this year.** A total of 272 human cases of West Nile virus (WNV) have been reported this year in the following 23 counties: Alameda (1), Butte (4), Calaveras (1), Colusa (1), Contra Costa (2), Fresno (1), Kings (1), Los Angeles (91, including 2 from Long Beach), Merced (1), Orange (53), Placer (4), Riverside (43), Sacramento (8), San Bernardino (12), San Diego (17), San Joaquin (9), Santa Clara (1), Shasta (1), Solano (1), Stanislaus (16), Tehama (1), Tulare (2) and Yolo (1). Of the 272 individuals, 177 (65%) developed neuroinvasive symptoms. The median age of the 272 individuals is 55 years (range: 3-94 years), and 169 (62%) are male. Six WNV-related fatalities have been reported in Los Angeles (1), Orange (2), Riverside (2) and San Bernardino (1) counties. A total of 52 WNV-positive blood donation samples have been reported this year; 16 of the individuals reported symptoms and were reclassified as cases.

Horses

Three equine cases of WNV were reported this week from San Bernardino (1), San Diego (1), and Stanislaus (1) counties. **This is the first WNV-positive horse reported from San Bernardino County this year.** In 2008, 21 horses have tested positive for WNV; 13 died or were euthanized as a result of their infection.

Dead Birds & Tree Squirrels

One hundred and twenty-nine WNV-positive dead birds were reported this week from 22 counties: Alameda (1), Butte (1), Contra Costa (7), El Dorado (1), Fresno (6), Glenn (1), Kern (1), Lake (1), Los Angeles (23), Merced (1), Modoc (1), Orange (25), Riverside (1), Sacramento (11), San Bernardino (8), San Diego (26), San Joaquin (4), Santa Clara (1), Santa Cruz (1), Stanislaus (5), Tehama (1), and Ventura (2). **This is the first indication of WNV activity from Modoc County this year.** In 2008, 2,094 WNV-positive dead birds have been detected in 41 counties.

Two WNV-positive tree squirrels were reported this week from Los Angeles and Sacramento counties. **This is the first WNV-positive tree squirrel reported from Sacramento County this year.** In 2008, 24 tree squirrels have tested positive for WNV from six counties.

Mosquito Pools

Forty-two WNV-positive mosquito pools were reported this week from 10 counties: Contra Costa (1), Fresno (1), Los Angeles (21), Placer (1), Riverside (7), Sacramento (1), San Diego (2), San Joaquin (1), Stanislaus (6), and Tulare (1). In 2008, 1,765 WNV-positive mosquito pools have been detected in 26 counties.

Sentinel Chickens

Forty-six WNV seroconversions were reported this week from 11 counties: Butte (1), Colusa (1), Contra Costa (10), Glenn (2), Imperial (1), Kern (10), Los Angeles (2), Placer (2), San Joaquin (8), Stanislaus (8), and Sutter (1). **These are the first WNV seroconversions reported from Colusa and Kern counties this year.** In 2008, 301 WNV seroconversions have been detected in chickens from 20 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		6	1		1
Amador			3			
Butte	4		35	5	26	
Calaveras	1		1			
Colusa	1		2		1	
Contra Costa	2	1	73	24	14	6
El Dorado			5			
Fresno	1	1	30	50	5	
Glenn	**		17	1	3	
Humboldt			1			
Imperial				7	20	
Kern			9	7	10	
Kings	1		1			
Lake		1	2	3		
Lassen				1		
Los Angeles	91		369	446	53	9
Madera			2	1		
Marin			1			
Mendocino			1			
Merced	1		4			
Modoc			1			
Monterey			5			
Nevada			5			
Orange	53	2	538	276	3	3
Placer	4	1	3	26	9	
Riverside	43	5	39	113	55	
Sacramento	8	1	116	275	6	1
San Bernardino	12	1	160	136	43	4
San Diego	17	4	443	34	13	
San Joaquin	9		69	194	9	
San Mateo			2			
Santa Barbara			1			
Santa Clara	1		11	1		
Santa Cruz			2			
Shasta	1		7			
Solano	1		7	1		
Sonoma			4	1		
Stanislaus	16	2	44	75	16	
Sutter			2	11	8	
Tehama	1		6			
Tulare	2	1	47	58	4	
Ventura			14		2	
Yolo	1	1	6	17		
Yuba				1	1	
Totals	272	21	2,094	1,765	301	24

***Two previously reported cases from Glenn County did not meet the case definition and have been removed from total*

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2007 & 2008 YTD West Nile Virus Comparisons		
	2007	2008
Total # Dead Bird Reports	27,495	29,015
# Positive Counties	51	44
# Human Cases/ # Tested	291 / 983	272 / 879
# Horse Cases/ # Tested	24 / 289	21 / 238
# Positive Dead Birds/ # Tested	1,172 / 4,677	2,094 / 5,060
# Positive Mosquito Pools/ # Tested	952 / 24,442	1,765 / 26,647
# Positive Chicken Sera/ # Tested	360 / 23,147	301 / 23,895
# Positive Squirrels/ # Tested	17 / 169	24 / 240

2008 TEST SUMMARIES

Human & Horse Cases

		Number Tested	WNV		WEE		SLE		Other	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested*	Week	56	0	38	0	0	0	0	0	0
	YTD	879	0	272	0	0	0	0	0	0
Horses Tested	Week	22	0	3	0	0	0	0	0	0
	YTD	238	0	21	0	0	0	0	0	0

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead Birds	Week	201	129
	YTD	5,060	2,094
Tree Squirrels	Week	9	2
	YTD	240	24

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive
Chicken Sera	Week	794	46	0	0
	YTD	23,895	301	0	0
Mosquito Pools: RT-PCR	Week	1,000	39	0	0
	YTD	23,936	1,427	0	0
Mosquito Pools: RAMP	Week	87	3	N/A	N/A
	YTD	2,711	338	N/A	N/A

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POSITIVES: 9/22/08 – 9/26/08

Humans

County	Report Date	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
CALAVERAS	09/19/08	48	n/a	WNF	08/25/08	NO
KINGS	09/23/08	>18	F	WNF	n/a	NO
LOS ANGELES	09/25/08	53	M	WNND	08/30/08	NO
LOS ANGELES	09/25/08	29	M	WNND	08/27/08	NO
LOS ANGELES	09/25/08	82	M	WNND	08/13/08	NO
LOS ANGELES	09/25/08	29	M	WNND	08/29/08	NO
LOS ANGELES	09/25/08	55	M	WNND	08/29/08	NO
LOS ANGELES	09/25/08	52	F	WNND	09/02/08	NO
LOS ANGELES	09/25/08	75	M	WNND	09/06/08	NO
LOS ANGELES	09/25/08	56	F	WNND	08/24/08	NO
LOS ANGELES	09/25/08	51	M	WNND	09/02/08	NO
LOS ANGELES	09/25/08	69	F	WNND	08/28/08	NO
LOS ANGELES	09/25/08	63	M	WNND	09/12/08	NO
LOS ANGELES	09/25/08	41	M	WNF^	09/03/08	NO
LOS ANGELES	09/25/08	45	F	WNF^	08/19/08	NO
LOS ANGELES	09/25/08	53	F	WNF^	08/19/08	NO
ORANGE	09/18/08	80	F	WNND	Week 33	NO
ORANGE	09/22/08	53	M	WNND	Week 36	NO
ORANGE	09/23/08	23	M	WNND	Week 33	NO
ORANGE	09/23/08	65	M	WNND	Week 35	NO
ORANGE	09/23/08	65	M	WNND	Week 33	NO
ORANGE	09/23/08	36	F	WNF	Week 37	NO
ORANGE	09/24/08	45	M	WNND	Week 37	NO
ORANGE	09/24/08	73	M	WNF	Week 37	NO
PLACER	09/22/08	>18	M	WNF	08/06/08	NO
PLACER	09/23/08	>18	M	WNND	08/26/08	NO
RIVERSIDE	09/24/08	54	F	n/a	08/19/08	NO
RIVERSIDE	09/24/08	52	M	WNND	08/28/08	NO
RIVERSIDE	09/24/08	4	F	WNND	08/10/08	NO
SAN BERNARDINO	09/24/08	41	F	WNND	08/07/08	NO
SAN BERNARDINO	09/24/08	43	M	WNF	07/31/08	NO
SAN DIEGO	09/24/08	49	F	WNND	n/a	NO
SAN DIEGO	09/24/08	76	M	WNND	n/a	NO
SAN DIEGO	09/24/08	14	M	WNF	n/a	NO
SAN DIEGO	09/24/08	3	M	WNND	n/a	NO
STANISLAUS	09/19/08	55	M	WNND	n/a	NO
STANISLAUS	09/22/08	48	F	WNND	n/a	NO
STANISLAUS	09/25/08	38	M	WNND	n/a	NO

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Dead Birds and Tree Squirrels

County	City	Zip Code	Species	Reported	Tested	Result	Test Type
Alameda	Dublin	94568	American Crow	9/11/08	9/22/08	WNV	RT-PCR
Butte	Chico	95973	American Crow	9/15/08	9/22/08	WNV	RT-PCR
Contra Costa	Alamo	94507	Western Tanager	9/9/08	9/22/08	WNV	RT-PCR
Contra Costa	Antioch	94531	Western Scrub-Jay	9/10/08		WNV	RAMP
Contra Costa	Brentwood	94513	American Crow	9/17/08	9/18/08	WNV	RAMP
Contra Costa	Brentwood	94513	American Crow	9/17/08	9/17/08	WNV	RAMP
Contra Costa	Brentwood	94513	American Crow	9/22/08	9/23/08	WNV	RAMP
Contra Costa	Concord	94519	Green Heron	9/11/08	9/22/08	WNV	RT-PCR
Contra Costa	Orinda	94563	American Robin	9/10/08	9/22/08	WNV	RT-PCR
El Dorado	Cool	95614	American Crow	9/11/08	9/22/08	WNV	RT-PCR
Fresno	Clovis	93612	American Crow	9/15/08	9/22/08	WNV	RT-PCR
Fresno	Fresno	93727	American Crow	9/11/08	9/22/08	WNV	RT-PCR
Fresno	Fresno	93722	American Crow	9/17/08	9/18/08	WNV	VecTest
Fresno	Fresno	93710	Western Scrub-Jay	8/18/08	9/22/08	WNV	RT-PCR
Fresno	Sanger	93657	American Crow	9/17/08	9/18/08	WNV	RAMP
Fresno	Sanger	93657	House Sparrow	9/10/08	9/22/08	WNV	RT-PCR
Glenn	Orland	95963	Yellow-billed Magpie	9/10/08	9/22/08	WNV	RT-PCR
Kern	Bakersfield	93309	Other	9/12/08	9/22/08	WNV	RT-PCR
Lake	Clearlake	95422	American Crow	9/11/08	9/22/08	WNV	RT-PCR
Los Angeles	Agoura Hills	91301	American Crow	9/15/08	9/22/08	WNV	RT-PCR
Los Angeles	Calabasas	91302	American Crow	9/15/08	9/22/08	WNV	RT-PCR
Los Angeles	Cerritos	90703	American Crow	9/9/08	9/22/08	WNV	RT-PCR
Los Angeles	Culver City	90230	American Crow	9/11/08	9/22/08	WNV	RT-PCR
Los Angeles	Encino	91316	American Crow	9/15/08	9/22/08	WNV	RT-PCR
Los Angeles	Glendale	91202	House Finch	9/15/08	9/22/08	WNV	RT-PCR
Los Angeles	Hidden Hills	91302	Black-headed Grosbeak	9/11/08	9/22/08	WNV	RT-PCR
Los Angeles	La Mirada	90638	American Crow	9/15/08	9/22/08	WNV	RT-PCR
Los Angeles	Lakewood	90713	American Crow	9/15/08	9/22/08	WNV	RT-PCR
Los Angeles	Long Beach	90808	American Crow	9/8/08	9/22/08	WNV	RT-PCR
Los Angeles	Long Beach	90808	American Crow	9/10/08	9/22/08	WNV	RT-PCR
Los Angeles	Long Beach	90808	American Crow	9/12/08	9/22/08	WNV	RT-PCR
Los Angeles	Long Beach	90803	Great Blue Heron	9/11/08	9/22/08	WNV	RT-PCR
Los Angeles	Los Angeles	90049	American Crow	9/11/08	9/22/08	WNV	RT-PCR
Los Angeles	Los Angeles	90066	American Crow	9/22/08	9/23/08	WNV	VecTest
Los Angeles	Los Angeles	90068	Common Raven	9/11/08	9/22/08	WNV	RT-PCR
Los Angeles	Los Angeles	90034	American Crow	9/15/08	9/22/08	WNV	RT-PCR
Los Angeles	North Hollywood	91602	American Crow	9/10/08	9/22/08	WNV	RT-PCR
Los Angeles	Palos Verdes Estates	90274	American Crow	9/15/08	9/22/08	WNV	RT-PCR
Los Angeles	Pasadena	91104	Fox Squirrel	9/9/08	9/22/08	WNV	RT-PCR WNV +
Los Angeles	Santa Monica	90402	American Crow	9/15/08	9/22/08	WNV	RT-PCR
Los Angeles	Sherman Oaks	91403	House Finch	9/11/08	9/22/08	WNV	RT-PCR
Los Angeles	Torrance	90504	American Crow	9/15/08	9/22/08	WNV	RT-PCR
Los Angeles	Torrance	90505	American Crow	9/15/08	9/22/08	WNV	RT-PCR
Merced	Livingston	95334	Western Scrub-Jay	9/15/08	9/22/08	WNV	RT-PCR
Modoc	Cedarville	96104	Starling	9/15/08	9/22/08	WNV	RT-PCR
Orange	Anaheim	92802	American Crow	9/9/08	9/11/08	WNV	RT-PCR
Orange	Costa Mesa	92627	American Crow	9/9/08	9/11/08	WNV	RT-PCR
Orange	Costa Mesa	92627	American Crow	9/10/08	9/9/08	WNV	RT-PCR
Orange	Costa Mesa	92627	American Crow	9/12/08	9/15/08	WNV	RT-PCR

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Orange	Dana Point	92629	American Crow	9/12/08	9/15/08	WNV	RT-PCR
Orange	Fountain Valley	92708	American Crow	9/9/08	9/11/08	WNV	RT-PCR
Orange	Huntington Beach	92747	American Crow	9/9/08	9/9/08	WNV	RT-PCR
Orange	Huntington Beach	92649	American Crow	9/10/08	9/9/08	WNV	RT-PCR
Orange	Huntington Beach	92646	American Crow	9/10/08	9/9/08	WNV	RT-PCR
Orange	Huntington Beach	92649	American Crow	9/11/08	9/11/08	WNV	RT-PCR
Orange	Huntington Beach	92646	Western Bluebird	9/4/08	9/12/08	WNV	RT-PCR
Orange	Lake Forest	92630	American Crow	9/12/08	9/15/08	WNV	RT-PCR
Orange	Lake Forest	92679	Western Scrub-Jay	9/11/08	9/15/08	WNV	RT-PCR
Orange	Lake Forest	92630	White-tailed Kite	9/11/08	9/11/08	WNV	RT-PCR
Orange	Mission Viejo	92692	American Crow	9/12/08	9/15/08	WNV	RT-PCR
Orange	Orange	92869	American Crow	9/10/08	9/9/08	WNV	RT-PCR
Orange	Orange	92866	American Crow	9/9/08	9/9/08	WNV	RT-PCR
Orange	Orange	92867	American Crow	9/12/08	9/15/08	WNV	RT-PCR
Orange	Santa Ana	92706	American Crow	9/10/08	9/11/08	WNV	RT-PCR
Orange	Santa Ana	92706	American Crow	9/10/08	9/12/08	WNV	RT-PCR
Orange	Santa Ana	92706	American Crow	9/9/08	9/11/08	WNV	RT-PCR
Orange	Santa Ana	92706	American Crow	9/12/08	9/15/08	WNV	RT-PCR
Orange	Santa Ana	92706	American Crow	9/12/08	9/15/08	WNV	RT-PCR
Orange	Tustin	92780	American Crow	9/9/08	9/11/08	WNV	RT-PCR
Orange	Tustin	92780	American Crow	9/12/08	9/15/08	WNV	RT-PCR
Riverside	Riverside	92506	House Finch	9/12/08	9/22/08	WNV	RT-PCR
Sacramento	Antelope	95843	House Finch	9/11/08	9/22/08	WNV	RT-PCR
Sacramento	Elk Grove	95758	House Finch	9/11/08	9/22/08	WNV	RT-PCR
Sacramento	Fair Oaks	95628	Yellow-billed Magpie	9/11/08	9/22/08	WNV	RT-PCR
Sacramento	Fair Oaks	95628	Yellow-billed Magpie	9/12/08	9/22/08	WNV	RT-PCR
Sacramento	Folsom	95630	Western Scrub-Jay	9/15/08	9/22/08	WNV	RT-PCR
Sacramento	Galt	95632	Barn Swallow	9/10/08	9/22/08	WNV	RT-PCR
Sacramento	Orangevale	95662	American Crow	9/15/08	9/22/08	WNV	RT-PCR
Sacramento	Orangevale	95662	American Crow	9/17/08	9/22/08	WNV	RT-PCR
Sacramento	Orangevale	95662	Western Gray Squirrel	9/12/08	9/23/08	WNV	RT-PCR WNV +
Sacramento	Rancho Cordova	95670	House Finch	9/10/08	9/22/08	WNV	RT-PCR
Sacramento	Sacramento	95864	Western Scrub-Jay	9/10/08	9/22/08	WNV	RT-PCR
Sacramento	Sacramento	95841	Western Scrub-Jay	9/12/08	9/22/08	WNV	RT-PCR
San Bernardino	chino	91710	American Crow	9/18/08	9/18/08	WNV	RAMP
San Bernardino	Chino Hills	91709	American Crow	9/18/08	9/18/08	WNV	RAMP
San Bernardino	Fontana	92335	American Crow	9/18/08	9/19/08	WNV	RAMP
San Bernardino	Ontario	91761	American Crow	9/22/08	9/23/08	WNV	RAMP
San Bernardino	Ontario	91761	House Finch	9/11/08	9/22/08	WNV	RT-PCR
San Bernardino	Rancho Cucamonga	91739	American Crow	9/17/08	9/18/08	WNV	RAMP
San Bernardino	Redlands	92374	American Crow	9/17/08	9/18/08	WNV	RAMP
San Bernardino	Redlands	92373	Western Scrub-Jay	9/11/08	9/22/08	WNV	RT-PCR
San Diego	Alpine	91901	American Crow	9/11/08	9/16/08	WNV	RT-PCR
San Diego	Bonita	91902	American Crow	9/15/08	9/16/08	WNV	RT-PCR
San Diego	Cardiff	92007	American Crow	9/17/08	9/18/08	WNV	RT-PCR
San Diego	Carlsbad	92011	American Crow	9/17/08	9/17/08	WNV	RT-PCR
San Diego	Escondido	92027	American Crow	9/18/08	9/16/08	WNV	RT-PCR
San Diego	Fallbrook	92028	American Crow	9/15/08	9/16/08	WNV	RT-PCR
San Diego	Julian	92036	Western Screech Owl	9/12/08	9/16/08	WNV	RT-PCR
San Diego	Oceanside	92058	American Crow	9/17/08	9/17/08	WNV	RT-PCR
San Diego	Oceanside	92058	American Crow	9/19/08	9/22/08	WNV	RT-PCR
San Diego	Oceanside	92054	American Crow	9/19/08	9/22/08	WNV	RT-PCR
San Diego	Ramona	92065	American Crow	9/17/08	9/17/08	WNV	RT-PCR

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San Diego	Ramona	92065	American Crow	9/17/08	9/18/08	WNV	RT-PCR
San Diego	Ramona	92065	American Crow	9/19/08	9/22/08	WNV	RT-PCR
San Diego	Ramona	92065	Western Scrub-Jay	9/15/08	9/16/08	WNV	RT-PCR
San Diego	San Diego	92117	American Crow	9/15/08	9/16/08	WNV	RT-PCR
San Diego	San Diego	92121	American Crow	9/17/08	9/17/08	WNV	RT-PCR
San Diego	San Diego	92129	American Crow	9/17/08	9/17/08	WNV	RT-PCR
San Diego	San Diego	92115	American Crow	9/18/08	9/18/08	WNV	RT-PCR
San Diego	San Diego	92109	American Crow	9/19/08	9/22/08	WNV	RT-PCR
San Diego	San Diego	92130	American Crow	9/19/08	9/22/08	WNV	RT-PCR
San Diego	San Marcos	92078	American Crow	9/19/08	9/22/08	WNV	RT-PCR
San Diego	Santee	92071	American Crow	9/19/08	9/22/08	WNV	RT-PCR
San Diego	Valley Center	92082	American Crow	9/18/08	9/18/08	WNV	RT-PCR
San Diego	Valley Center	92082	American Crow	9/19/08	9/22/08	WNV	RT-PCR
San Diego	Valley Center	92082	Western Scrub-Jay	9/15/08	9/16/08	WNV	RT-PCR
San Diego	Vista	92081	American Crow	9/19/08	9/22/08	WNV	RT-PCR
San Joaquin	Farmington	95230	Western Scrub-Jay	9/11/08	9/22/08	WNV	RT-PCR
San Joaquin	Lodi	95242	American Crow	9/19/08	9/19/08	WNV	VecTest
San Joaquin	Lodi	95242	American Crow	9/22/08	9/22/08	WNV	VecTest
San Joaquin	Lodi	95242	American Crow	9/22/08	9/22/08	WNV	VecTest
Santa Clara	San Jose	95112	Western Scrub-Jay	9/14/08	9/15/08	WNV	VecTest
Santa Cruz	Felton	95018	Western Screech Owl	9/14/08	9/22/08	WNV	RT-PCR
Stanislaus	Ceres	95307	Western Scrub-Jay	9/10/08	9/22/08	WNV	RT-PCR
Stanislaus	Denair	95316	Western Scrub-Jay	9/10/08	9/22/08	WNV	RT-PCR
Stanislaus	Modesto	95355	American Robin	9/10/08	9/22/08	WNV	RT-PCR
Stanislaus	Oakdale	95361	Yellow-billed Magpie	9/11/08	9/22/08	WNV	RT-PCR
Stanislaus	Turlock	95382	American Crow	9/12/08	9/22/08	WNV	RT-PCR
Tehama	Red Bluff	96080	American Crow	9/18/08	9/17/08	WNV	VecTest
Ventura	Ventura	93003	American Crow	9/11/08	9/22/08	WNV	RT-PCR

Mosquito Pools

County	Site Code	Pool #	Species	# in Pool	City	Collected	Tested	Result
Contra Costa	CNTR1775	536	Cx tarsalis	50	Pittsburg	9/18/2008	9/22/2008	WNV
Fresno	CNSL1068	1020	Cx quinquefasciatus	50	Fresno	9/23/2008	9/23/2008	WNV
Los Angeles	GRLA2124	1112	Cx quinquefasciatus	22	Harbor City	9/17/2008	9/26/2008	WNV
Los Angeles	GRLA2360	1094	Cx quinquefasciatus	16	Pico Rivera	9/16/2008	9/24/2008	WNV
Los Angeles	GRLA2365	1095	Cx quinquefasciatus	24	Pico Rivera	9/16/2008	9/24/2008	WNV
Los Angeles	GRLA2450	5928	Cx quinquefasciatus	20	Glendale	9/16/2008	9/26/2008	WNV
Los Angeles	GRLA2600	5929	Cx quinquefasciatus	34	Los Angeles	9/16/2008	9/25/2008	WNV
Los Angeles	GRLA2604	5930	Cx quinquefasciatus	45	Los Angeles	9/16/2008	9/26/2008	WNV
Los Angeles	GRLA2635	5952	Cx quinquefasciatus	50	Van Nuys	9/16/2008	9/26/2008	WNV
Los Angeles	GRLA2635	5953	Cx quinquefasciatus	50	Van Nuys	9/16/2008	9/26/2008	WNV
Los Angeles	GRLA2635	5962	Cx quinquefasciatus	12	Van Nuys	9/16/2008	9/25/2008	WNV
Los Angeles	GRLA2636	5949	Cx quinquefasciatus	50	Van Nuys	9/16/2008	9/26/2008	WNV
Los Angeles	GRLA2636	5950	Cx quinquefasciatus	50	Van Nuys	9/16/2008	9/25/2008	WNV
Los Angeles	GRLA2636	5960	Cx quinquefasciatus	38	Van Nuys	9/16/2008	9/25/2008	WNV
Los Angeles	GRLA2648	5932	Cx quinquefasciatus	50	Encino	9/16/2008	9/25/2008	WNV
Los Angeles	GRLA2652	5941	Cx quinquefasciatus	50	Encino	9/16/2008	9/26/2008	WNV
Los Angeles	GRLA2800	1116	Cx quinquefasciatus	42	Long Beach	9/18/2008	9/25/2008	WNV
Los Angeles	GRLA2937	5920	Cx quinquefasciatus	50	Burbank	9/16/2008	9/25/2008	WNV
Los Angeles	GRLA2937	5921	Cx quinquefasciatus	50	Burbank	9/16/2008	9/26/2008	WNV
Los Angeles	GRLA2938	5923	Cx quinquefasciatus	50	Burbank	9/16/2008	9/26/2008	WNV
Los Angeles	GRLA2938	5924	Cx quinquefasciatus	50	Burbank	9/16/2008	9/25/2008	WNV
Los Angeles	GRLA2957	1119	Cx quinquefasciatus	50	Hawaiian Gardens	9/18/2008	9/25/2008	WNV

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Los Angeles	LACW1005	209	Cx quinquefasciatus	11	El Segundo	9/16/2008	9/26/2008	WNV
Placer	PLCR0079	904	Cx tarsalis	44	Roseville	9/18/2008	9/26/2008	WNV
Riverside	COAV0033	1643	Cx tarsalis	50	Mecca	9/16/2008	9/25/2008	WNV
Riverside	COAV0035	1650	Cx tarsalis	50	Mecca	9/16/2008	9/26/2008	WNV
Riverside	COAV0048	1682	Cx tarsalis	50	Mecca	9/18/2008	9/25/2008	WNV
Riverside	COAV0121	1685	Cx tarsalis	47	Mecca	9/18/2008	9/26/2008	WNV
Riverside	COAV0130	1659	Cx tarsalis	50	Mecca	9/16/2008	9/26/2008	WNV
Riverside	COAV0131	1662	Cx tarsalis	50	Oasis	9/16/2008	9/26/2008	WNV
Riverside	COAV0132	1664	Cx tarsalis	50	Mecca	9/16/2008	9/25/2008	WNV
Sacramento	SAYO4254	7882	Cx pipiens	50	Elk Grove	9/23/2008	9/24/2008	WNV
San Diego	SAND0045	220	Cx tarsalis	50	Del Mar	9/23/2008	9/25/2008	WNV
San Diego	SAND0233	222	Cx quinquefasciatus	18	Del Mar	9/23/2008	9/26/2008	WNV
San Joaquin	SJCM8106	1950	Cx pipiens	45	Escalon	9/23/2008	9/24/2008	WNV
Stanislaus	TRLK0406	1791	Cx pipiens	15	Turlock	9/23/2008	9/24/2008	WNV
Stanislaus	TRLK0408	1795	Cx tarsalis	2	Turlock	9/23/2008	9/26/2008	WNV
Stanislaus	TRLK0526	1812	Cx tarsalis	50	Denair	9/23/2008	9/24/2008	WNV
Stanislaus	TRLK0536	1801	Cx pipiens	50	Turlock	9/23/2008	9/26/2008	WNV
Stanislaus	TRLK0538	1834	Cx pipiens	50	Hughson	9/23/2008	9/24/2008	WNV
Stanislaus	TRLK9768	1756	Cx tarsalis	15	Grayson	9/23/2008	9/24/2008	WNV
Tulare	DLTA9609	609	Cx quinquefasciatus	40	Exeter	9/23/2008	9/24/2008	WNV

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05	Band 06	Band 07
Butte	BUCO0004	Gridley	9/16/2008	WNV	2143						
Colusa	CLSA0001	Colusa	9/2/2008	WNV	2414						
Contra Costa	CNTR8152	Knightsen	9/15/2008	WNV	2501	2502	2503	2506	2508	2509	2510
Contra Costa	CNTR7402	Oakley	9/15/2008	WNV	2513	2514	2520				
Glenn	GLEN9701	Willows	9/17/2008	WNV	2711	2717					
Imperial	COAV5001	Niland	8/25/2008	WNV	2344						
Kern	KERN0105	Pumpkin Center	9/15/2008	WNV	2871	2872	2876	2878	2879		
Kern	KERN0105	Pumpkin Center	9/2/2008	WNV	2873						
Kern	KERN0107	Arvin	9/2/2008	WNV	2892						
Kern	KERN0111	Arvin	9/15/2008	WNV	2901	2904					
Kern	KERN0111	Arvin	9/2/2008	WNV	2910						
Los Angeles	ANTV5662	Lancaster	9/10/2008	WNV	2034	2036					
Placer	PLCR0401	Auburn	9/15/2008	WNV	1474						
Placer	PLCR0396	Roseville	9/15/2008	WNV	1486						
San Joaquin	SJCM9912	Stockton	9/8/2008	WNV	1928	1930					
San Joaquin	SJCM9912	Stockton	9/22/2008	WNV	1927	1929	1931	1932	1935		
San Joaquin	SJCM9901	Lodi	9/8/2008	WNV	1944						
Stanislaus	TRLK0402	Denair	9/2/2008	WNV	3382	3435					
Stanislaus	TRLK9701	Grayson	9/15/2008	WNV	3427	3428	3430	3432	3434	3436	
Sutter	SUYA0014	Sutter	9/18/2008	WNV	4987						

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NATIONAL COMMENTS

As of September 23, 2008, 833 human cases had been reported nationwide this year in the following 38 states: Alabama (15), Arizona (43), Arkansas (8), California (236), Colorado (71), Connecticut (5), Delaware (1), Florida (1), Georgia (2), Idaho (32), Illinois (4), Indiana (2), Iowa (8), Kansas (15), Louisiana (26), Maryland (6), Michigan (5), Minnesota (16), Mississippi (82), Missouri (8), Montana (5), Nebraska (22), Nevada (13), New Jersey (4), New Mexico (4), New York (22), North Dakota (40), Ohio (11), Oklahoma (8), Oregon (4), Pennsylvania (5), South Dakota (35), Tennessee (8), Texas (41), Utah (14), West Virginia (1), Wisconsin (5), and Wyoming (5). Of the 833 individuals, 368 (44%) had neuroinvasive illness. As of September 23, 18 fatalities had been reported in Arizona (3), California (5), Iowa (1), Mississippi (3), New Jersey (1), New York (4) and Texas (1). At this time last year, 2,307 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
