

# California Arbovirus Surveillance Bulletin # 23

Week 30 Friday, July 25, 2008

## Weekly and Year-To-Date Summaries

### WEEKLY COMMENTS



#### Humans

Six new West Nile virus (WNV) positive human cases were reported this week from Fresno (1), Los Angeles (3), San Diego (1) and Stanislaus (1) counties. In 2008, twelve WNV human cases have been reported from the following 7 counties: Fresno (1), Los Angeles (3), Orange (2), San Diego (1), San Joaquin (1), Stanislaus (3), and Tulare (1). Nine (75%) of the individuals developed neuroinvasive symptoms. The median age of the 12 individuals is 56 years (range: 4-80 years), and 7 (58%) are male. No cases have resulted in fatalities. In addition, 5 asymptomatic blood donors have been identified in Los Angeles (1), Orange (2), San Bernardino (1), and Stanislaus (1) counties.

#### Horses

Two new equine cases were reported this week from Fresno (1) and Riverside (1) counties. 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 twenty two new West Nile virus (WNV) positive dead birds were reported this week from the following counties: Butte (4), Contra Costa (5), Kern (1), Los Angeles (17), Monterey (1), Orange (21), Riverside (4), Sacramento (17), San Bernardino (8), San Diego (27), San Joaquin (10), Solano (1), Stanislaus (2), Tulare (1), Ventura (2), and Yolo (1). In 2008, 557 WNV positive dead birds have been detected in 26 counties.

No new WNV positive tree squirrels were reported this week. In 2008, three WNV tree squirrels have been detected from Contra Costa (2) and San Bernardino (1) counties.

#### Mosquito Pools

One hundred and seventy new positive mosquito pools were reported this week from the following counties: Fresno (1), Los Angeles (47), Orange (6), Placer (2), Riverside (3), Sacramento (69), San Bernardino (22), San Diego (1), San Joaquin (12), Stanislaus (6), and Sutter (1). In 2008, 462 WNV positive mosquito pools have been detected in 19 counties.

#### Sentinel Chickens

Fifteen new seroconversions were reported this week from Imperial (1), Riverside (6), San Bernardino (2), and San Diego (6) counties. In 2008, 23 WNV seroconversions have been detected in chickens from five counties.

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

2007 & 2008 YTD West Nile Virus Comparisons		
	2007	2008
Total # Dead Bird Reports	17,262	18,204
# Positive Counties	38	28
# Human Cases/ # Tested	42 / 577	12 / 465
# Horse Cases/ # Tested	5 / 173	4 / 129
# Positive Dead Birds/ # Tested	423 / 2,842	557 / 2,771
# Positive Mosquito Pools/ # Tested	323 / 12,837	462 / 13,414
# Positive Chicken Sera/ # Tested	29 / 15,035	23 / 15,595
# Positive Squirrels/ # Tested	5 / 93	3 / 91

# California Arbovirus Surveillance Bulletin # 23

Week 30 Friday, July 25, 2008

## YTD WNV Activity by Element and County, 2008

County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Amador			1			
Butte			8			
Contra Costa			12	6		2
El Dorado			1			
Fresno	1	1	4	9		
Glenn			2			
Imperial				1	2	
Kern			4	3		
Los Angeles	3		79	82	2	
Monterey			2			
Nevada			3			
Orange	2		121	60		
Placer			1	3		
Riverside		2	13	38	8	
Sacramento			39	120		
San Bernardino			24	45	3	1
San Diego	1	1	121	5	8	
San Joaquin	1		40	59		
San Mateo			1			
Santa Clara			7	1		
Shasta			6			
Solano			4	1		
Stanislaus	3		19	10		
Sutter			2	7		
Tulare	1		39	10		
Ventura			3			
Yolo			1	1		
Yuba				1		
<b>Totals</b>	<b>12</b>	<b>4</b>	<b>557</b>	<b>462</b>	<b>23</b>	<b>3</b>

## 2008 TEST SUMMARIES

### Human & Horse Cases

		Number Tested	WNV		WEE		SLE		Other	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
<b>Humans Tested*</b>	Week	39	0	6	0	0	0	0	0	0
	YTD	465	0	12	0	0	0	0	0	0
<b>Horses Tested</b>	Week	20	0	2	0	0	0	0	0	0
	YTD	129	0	4	0	0	0	0	0	0

# California Arbovirus Surveillance Bulletin # 23

Week 30 Friday, July 25, 2008

## Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead Birds	Week	248	122
	YTD	2,771	557
Tree Squirrels	Week	4	0
	YTD	91	3

## Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive
Chicken Sera	Week	911	15	0	0
	YTD	15,595	23	0	0
Mosquito Pools: RT-PCR	Week	1,791	138	0	0
	YTD	12,314	363	0	0
Mosquito Pools: RAMP	Week	195	32	N/A	N/A
	YTD	1,100	99	N/A	N/A

### POSITIVES: 7/21/08 – 7/25/08

## Dead Birds and Tree Squirrels

County	City	Zip	Species	Reported	Tested	Test Method
Butte	Chico	95928	House Finch	7/12/08	7/21/08	RT-PCR
Butte	Oroville	95966	Red-shouldered Hawk	7/14/08	7/21/08	RT-PCR
Butte	Chico	95926	American Crow	7/15/08	7/21/08	RT-PCR
Butte	Oroville	95966	Ring-necked Pheasant	7/15/08	7/21/08	RT-PCR
Contra Costa	Antioch	94509	House Finch	7/8/08	7/21/08	RT-PCR
Contra Costa	Antioch	94509	American Crow	7/8/08	7/21/08	RT-PCR
Contra Costa	Antioch	94531	Western Scrub-Jay	7/18/08	7/18/08	RAMP
Contra Costa	Antioch	94509	Western Scrub-Jay	7/20/08	7/22/08	RAMP
Contra Costa	Antioch	94509	Western Scrub-Jay	7/22/08	7/22/08	RAMP
Kern	Bakersfield	93309	Lesser Goldfinch	7/7/08	7/22/08	RT-PCR
Los Angeles	Covina	91723	American Crow	7/8/08	7/21/08	RT-PCR
Los Angeles	Downey	90241	House Sparrow	7/10/08	7/21/08	RT-PCR
Los Angeles	Chatsworth	91311	American Crow	7/10/08	7/21/08	RT-PCR
Los Angeles	Monrovia	91016	Cooper's Hawk	7/10/08	7/21/08	RT-PCR
Los Angeles	Granada Hills	91344	American Crow	7/10/08	7/21/08	RT-PCR
Los Angeles	Arcadia	91007	House Sparrow	7/11/08	7/21/08	RT-PCR
Los Angeles	West Covina	91791	House Sparrow	7/11/08	7/21/08	RT-PCR
Los Angeles	Lakewood	90713	American Crow	7/13/08	7/21/08	RT-PCR
Los Angeles	Woodland Hills	91364	Western Bluebird	7/14/08	7/21/08	RT-PCR
Los Angeles	San Dimas	91773	House Finch	7/15/08	7/21/08	RT-PCR
Los Angeles	West Covina	91791	American Crow	7/15/08	7/17/08	VecTest
Los Angeles	Los Angeles	90016	American Crow	7/16/08	7/17/08	VecTest
Los Angeles	Arcadia	91006	American Crow	7/16/08	7/21/08	RT-PCR
Los Angeles	Temple City	91780	American Crow	7/16/08	7/17/08	VecTest

# California Arbovirus Surveillance Bulletin # 23

Week 30 Friday, July 25, 2008

Los Angeles	La Verne	91750	American Crow	7/17/08	7/18/08	VecTest
Los Angeles	West Covina	91790	American Crow	7/18/08	7/18/08	VecTest
Los Angeles	Los Angeles	90064	American Crow	7/21/08	7/21/08	VecTest
Monterey	Salinas	93907	American Robin	7/10/08	7/21/08	RT-PCR
Orange	Fullerton	92831	American Crow	7/9/08	7/9/08	RT-PCR
Orange	Anaheim	92804	American Crow	7/9/08	7/9/08	RT-PCR
Orange	Anaheim	92806	American Crow	7/9/08	7/9/08	RT-PCR
Orange	Huntington Beach	92647	American Crow	7/9/08	7/9/08	RT-PCR
Orange	Garden Grove	92843	American Crow	7/9/08	7/9/08	RT-PCR
Orange	Huntington Beach	92647	American Crow	7/9/08	7/9/08	RT-PCR
Orange	Santa Ana	92706	American Crow	7/9/08	7/9/08	RT-PCR
Orange	Santa Ana	92706	American Crow	7/9/08	7/9/08	RT-PCR
Orange	Placentia	92870	House Finch	7/9/08	7/9/08	RT-PCR
Orange	Santa Ana	92706	House Finch	7/9/08	7/9/08	RT-PCR
Orange	Tustin	92780	American Crow	7/9/08	7/9/08	RT-PCR
Orange	Anaheim	92804	American Crow	7/9/08	7/9/08	RT-PCR
Orange	Orange	92866	American Crow	7/14/08	7/14/08	RT-PCR
Orange	Orange	92865	American Crow	7/14/08	7/14/08	RT-PCR
Orange	Cypress	90630	Unknown	7/16/08	7/16/08	RT-PCR
Orange	Santa Ana	92706	American Crow	7/16/08	7/16/08	RT-PCR
Orange	Huntington Beach	92646	American Crow	7/16/08	7/16/08	RT-PCR
Orange	Anaheim	92802	American Crow	7/16/08	7/16/08	RT-PCR
Orange	Fullerton	92831	House Finch	7/22/08	7/16/08	RT-PCR
Orange	Fullerton	92833	Black Phoebe	7/16/08	7/16/08	RT-PCR
Orange	Anaheim	92802	American Crow	7/16/08	7/16/08	RT-PCR
Riverside	Corona	92882	House Sparrow	7/10/08	7/21/08	RT-PCR
Riverside	Corona	92881	American Crow	7/10/08	7/21/08	RT-PCR
Riverside	Riverside	92503	Black Phoebe	7/11/08	7/21/08	RT-PCR
Riverside	Riverside	92505	American Crow	7/15/08	7/21/08	RT-PCR
Sacramento	Sacramento	95841	Yellow-billed Magpie	7/7/08	7/21/08	RT-PCR
Sacramento	Fair Oaks	95628	Cooper's Hawk	7/7/08	7/22/08	RT-PCR
Sacramento	Sacramento	95815	Western Scrub-Jay	7/10/08	7/21/08	RT-PCR
Sacramento	Sacramento	95828	Western Scrub-Jay	7/10/08	7/21/08	RT-PCR
Sacramento	Sacramento	95828	Western Scrub-Jay	7/11/08	7/21/08	RT-PCR
Sacramento	Sacramento	95823	American Crow	7/10/08	7/21/08	RT-PCR
Sacramento	Sacramento	95833	Yellow-billed Magpie	7/14/08	7/21/08	RT-PCR
Sacramento	Elk Grove	95624	American Crow	7/14/08	7/21/08	RT-PCR
Sacramento	Sacramento	95833	Western Scrub-Jay	7/14/08	7/21/08	RT-PCR
Sacramento	Sacramento	95828	Western Scrub-Jay	7/14/08	7/21/08	RT-PCR
Sacramento	Elk Grove	95624	Western Scrub-Jay	7/15/08	7/21/08	RT-PCR
Sacramento	Sacramento	95820	American Crow	7/15/08	7/21/08	RT-PCR
Sacramento	Elk Grove	95624	American Crow	7/15/08	7/21/08	RT-PCR
Sacramento	Carmichael	95608	Yellow-billed Magpie	7/15/08	7/21/08	RT-PCR
Sacramento	Sacramento	95833	Yellow-billed Magpie	7/16/08	7/21/08	RT-PCR
Sacramento	Sacramento	95823	Western Scrub-Jay	7/16/08	7/21/08	RT-PCR
Sacramento	Sacramento	95841	House Finch	7/15/08	7/21/08	RT-PCR
San Bernardino	Lucerne Valley	92356	Greater Roadrunner	7/3/08	7/22/08	RT-PCR
San Bernardino	Grand Terrace	92313	American Crow	7/8/08	7/21/08	RT-PCR
San Bernardino	Fontana	92335	American Crow	7/8/08	7/21/08	RT-PCR
San Bernardino	Rialto	92376	American Crow	7/8/08	7/21/08	RT-PCR

# California Arbovirus Surveillance Bulletin # 23

Week 30 Friday, July 25, 2008

San Bernardino	San Bernardino	92410	American Crow	7/9/08	7/21/08	RT-PCR
San Bernardino	San Bernardino	92404	House Finch	7/10/08	7/21/08	RT-PCR
San Bernardino	San Bernardino	92411	American Crow	7/14/08	7/21/08	RT-PCR
San Bernardino	Ontario	91762	American Crow	7/18/08	7/18/08	VecTest
San Diego	Camp Pendleton	92055	Least Tern	7/10/08	7/7/08	RT-PCR
San Diego	La Jolla	92037	American Crow	7/11/08	7/15/08	RT-PCR
San Diego	San Diego	92123	American Crow	7/11/08	7/15/08	RT-PCR
San Diego	Oceanside	92058	American Crow	7/11/08	7/15/08	RT-PCR
San Diego	Oceanside	92054	American Crow	7/11/08	7/15/08	RT-PCR
San Diego	Ramona	92065	Common Raven	7/11/08	7/15/08	RT-PCR
San Diego	Oceanside	92057	American Crow	7/11/08	7/15/08	RT-PCR
San Diego	Oceanside	92056	Red-shouldered Hawk	7/14/08	7/15/08	RT-PCR
San Diego	San Diego	92127	American Crow	7/14/08	7/15/08	RT-PCR
San Diego	El Cajon	92020	American Crow	7/14/08	7/15/08	RT-PCR
San Diego	Carlsbad	92008	American Crow	7/14/08	7/15/08	RT-PCR
San Diego	Del Mar	92014	American Crow	7/14/08	7/15/08	RT-PCR
San Diego	San Diego	92130	American Crow	7/14/08	7/15/08	RT-PCR
San Diego	San Diego	92130	American Crow	7/14/08	7/15/08	RT-PCR
San Diego	San Diego	92130	American Crow	7/14/08	7/15/08	RT-PCR
San Diego	San Diego	92121	American Crow	7/14/08	7/15/08	RT-PCR
San Diego	Ramona	92065	American Crow	7/14/08	7/15/08	RT-PCR
San Diego	San Diego	92115	American Crow	7/15/08	7/15/08	RT-PCR
San Diego	Camp Pendleton	92055	American Crow	7/15/08	7/15/08	RT-PCR
San Diego	San Diego	92122	American Crow	7/15/08	7/15/08	RT-PCR
San Diego	Vista	92083	American Crow	7/15/08	7/15/08	RT-PCR
San Diego	San Diego	92126	American Crow	7/16/08	7/15/08	RT-PCR
San Diego	El Cajon	92021	American Crow	7/16/08	7/16/08	RT-PCR
San Diego	Poway	92064	American Crow	7/16/08	7/16/08	RT-PCR
San Diego	Solana Beach	92075	American Crow	7/16/08	7/16/08	RT-PCR
San Diego	Del Mar	92014	American Crow	7/18/08	7/22/08	RT-PCR
San Diego	Oceanside	92057	American Crow	7/21/08	7/22/08	RT-PCR
San Joaquin	Stockton	95204	Western Scrub-Jay	7/10/08	7/21/08	RT-PCR
San Joaquin	Stockton	95204	House Sparrow	7/10/08	7/21/08	RT-PCR
San Joaquin	Manteca	95337	Yellow-billed Magpie	7/11/08	7/21/08	RT-PCR
San Joaquin	Manteca	95337	Western Scrub-Jay	7/11/08	7/21/08	RT-PCR
San Joaquin	Manteca	95337	Yellow-billed Magpie	7/11/08	7/21/08	RT-PCR
San Joaquin	Stockton	95207	Western Scrub-Jay	7/14/08	7/21/08	RT-PCR
San Joaquin	Stockton	95204	Western Scrub-Jay	7/15/08	7/21/08	RT-PCR
San Joaquin	Stockton	95210	Western Scrub-Jay	7/15/08	7/21/08	RT-PCR
San Joaquin	Stockton	95207	American Crow	7/21/08	7/20/08	VecTest
San Joaquin	Manteca	95336	American Crow	7/21/08	7/20/08	VecTest
Solano	Suisun City	94585	American Crow	7/14/08	7/14/08	RAMP
Stanislaus	Modesto	95350	American Crow	7/10/08	7/21/08	RT-PCR
Stanislaus	Modesto	95355	Yellow-billed Magpie	7/15/08	7/21/08	RT-PCR
Tulare	Visalia	93291	American Crow	7/11/08	7/21/08	RT-PCR
Ventura	Ventura	93003	American Crow	7/11/08	7/21/08	RT-PCR
Ventura	Westlake Village	91361	American Crow	7/14/08	7/21/08	RT-PCR
Yolo	Winters	95694	Western Scrub-Jay	7/14/08	7/21/08	RT-PCR

# California Arbovirus Surveillance Bulletin # 23

Week 30 Friday, July 25, 2008

## Mosquito Pools

Site Code	Pool #	Species	# in Pool	Collected	Tested	City	County	Result
CNSL1535	172	Cx quinquefasciatus	32	7/22/2008	7/23/2008	Clovis	Fresno	WNV
EAST1023	8148	Cx pipiens	50	7/22/2008	7/22/2008	Modesto	Stanislaus	WNV
EAST1058	8157	Cx tarsalis	29	7/22/2008	7/22/2008	Salida	Stanislaus	WNV
EAST1060	8159	Cx pipiens	50	7/22/2008	7/22/2008	Salida	Stanislaus	WNV
EAST1076	8137	Cx tarsalis	10	7/22/2008	7/22/2008	Modesto	Stanislaus	WNV
GRLA2081	688	Cx quinquefasciatus	50	7/17/2008	7/24/2008	Los Angeles	Los Angeles	WNV
GRLA2082	696	Cx quinquefasciatus	34	7/17/2008	7/24/2008	Downey	Los Angeles	WNV
GRLA2093	674	Cx quinquefasciatus	50	7/17/2008	7/24/2008	South Gate	Los Angeles	WNV
GRLA2094	697	Cx quinquefasciatus	50	7/17/2008	7/24/2008	Whittier	Los Angeles	WNV
GRLA2100	679	Cx quinquefasciatus	50	7/17/2008	7/24/2008	Norwalk	Los Angeles	WNV
GRLA2101	705	Cx quinquefasciatus	50	7/17/2008	7/24/2008	Norwalk	Los Angeles	WNV
GRLA2165	663	Cx quinquefasciatus	50	7/17/2008	7/23/2008	Downey	Los Angeles	WNV
GRLA2165	664	Cx quinquefasciatus	50	7/17/2008	7/23/2008	Downey	Los Angeles	WNV
GRLA2196	658	Cx quinquefasciatus	24	7/17/2008	7/25/2008	South El Monte	Los Angeles	WNV
GRLA2196	659	Cx quinquefasciatus	50	7/17/2008	7/23/2008	South El Monte	Los Angeles	WNV
GRLA2223	589	Cx quinquefasciatus	25	7/8/2008	7/23/2008	Rowland Heights	Los Angeles	WNV
GRLA2231	655	Cx quinquefasciatus	50	7/17/2008	7/23/2008	Downey	Los Angeles	WNV
GRLA2247	648	Cx quinquefasciatus	50	7/17/2008	7/23/2008	Pico Rivera	Los Angeles	WNV
GRLA2247	649	Cx quinquefasciatus	31	7/17/2008	7/23/2008	Pico Rivera	Los Angeles	WNV
GRLA2249	650	Cx quinquefasciatus	50	7/17/2008	7/23/2008	Pico Rivera	Los Angeles	WNV
GRLA2249	651	Cx quinquefasciatus	50	7/17/2008	7/23/2008	Pico Rivera	Los Angeles	WNV
GRLA2249	652	Cx quinquefasciatus	10	7/17/2008	7/23/2008	Pico Rivera	Los Angeles	WNV
GRLA2270	671	Cx quinquefasciatus	47	7/17/2008	7/23/2008	Bellflower	Los Angeles	WNV
GRLA2274	665	Cx quinquefasciatus	50	7/17/2008	7/23/2008	Lakewood	Los Angeles	WNV
GRLA2278	667	Cx quinquefasciatus	31	7/17/2008	7/23/2008	Long Beach	Los Angeles	WNV
GRLA2278	668	Cx quinquefasciatus	50	7/17/2008	7/23/2008	Long Beach	Los Angeles	WNV
GRLA2278	669	Cx quinquefasciatus	50	7/17/2008	7/23/2008	Long Beach	Los Angeles	WNV
GRLA2278	670	Cx quinquefasciatus	50	7/17/2008	7/25/2008	Long Beach	Los Angeles	WNV
GRLA2278	677	Cx quinquefasciatus	47	7/17/2008	7/24/2008	Long Beach	Los Angeles	WNV
GRLA2419	5384	Cx quinquefasciatus	34	7/8/2008	7/23/2008	Panorama City	Los Angeles	WNV
GRLA2554	5458	Cx quinquefasciatus	50	7/17/2008	7/25/2008	Winnetka	Los Angeles	WNV
GRLA2554	5459	Cx quinquefasciatus	24	7/17/2008	7/25/2008	Winnetka	Los Angeles	WNV
GRLA2555	5455	Cx quinquefasciatus	50	7/17/2008	7/25/2008	Encino	Los Angeles	WNV
GRLA2557	5457	Cx quinquefasciatus	43	7/17/2008	7/25/2008	Reseda	Los Angeles	WNV
GRLA2557	5464	Cx quinquefasciatus	25	7/17/2008	7/25/2008	Reseda	Los Angeles	WNV
GRLA2574	5453	Cx quinquefasciatus	25	7/17/2008	7/25/2008	Sherman Oaks	Los Angeles	WNV
GRLA2636	5404	Cx quinquefasciatus	50	7/8/2008	7/23/2008	Van Nuys	Los Angeles	WNV
GRLA2651	5407	Cx stigmatosoma	11	7/8/2008	7/23/2008	Encino	Los Angeles	WNV
GRLA2652	5392	Cx quinquefasciatus	48	7/8/2008	7/23/2008	Encino	Los Angeles	WNV
GRLA2787	713	Cx quinquefasciatus	50	7/17/2008	7/24/2008	Lakewood	Los Angeles	WNV
GRLA2889	702	Cx quinquefasciatus	37	7/17/2008	7/24/2008	Lakewood	Los Angeles	WNV
GRLA2889	703	Cx quinquefasciatus	27	7/17/2008	7/24/2008	Lakewood	Los Angeles	WNV
GRLA2890	699	Cx quinquefasciatus	50	7/17/2008	7/24/2008	Lakewood	Los Angeles	WNV
GRLA2890	700	Cx quinquefasciatus	30	7/17/2008	7/24/2008	Lakewood	Los Angeles	WNV
GRLA2891	684	Cx quinquefasciatus	50	7/17/2008	7/24/2008	Hawaiian Gardens	Los Angeles	WNV
GRLA2891	685	Cx quinquefasciatus	50	7/17/2008	7/24/2008	Hawaiian Gardens	Los Angeles	WNV

# California Arbovirus Surveillance Bulletin # 23

Week 30 Friday, July 25, 2008

GRLA2891	686	Cx quinquefasciatus	50	7/17/2008	7/24/2008	Hawaiian Gardens	Los Angeles	WNV
GRLA2892	682	Cx quinquefasciatus	48	7/17/2008	7/24/2008	Hawaiian Gardens	Los Angeles	WNV
GRLA2995	5460	Cx quinquefasciatus	50	7/17/2008	7/25/2008	Woodland Hills	Los Angeles	WNV
LONG0601	224	Cx quinquefasciatus	48	7/22/2008	7/23/2008	Long Beach	Los Angeles	WNV
LONG0703	226	Cx quinquefasciatus	29	7/22/2008	7/23/2008	Long Beach	Los Angeles	WNV
LONG0804	228	Cx quinquefasciatus	33	7/22/2008	7/23/2008	Long Beach	Los Angeles	WNV
NWST0022	181	Cx tarsalis	50	7/21/2008	7/25/2008	Lake Elsinore	Riverside	WNV
NWST0026	180	Cx tarsalis	50	7/21/2008	7/25/2008	Corona Center	Riverside	WNV
NWST9200	171	Cx tarsalis	50	7/14/2008	7/23/2008		Riverside	WNV
ORCO1	732	Cx quinquefasciatus	22	7/17/2008	7/17/2008	Irvine	Orange	WNV
ORCO17	767	Cx quinquefasciatus	6	7/22/2008	7/22/2008	Orange	Orange	WNV
ORCO3	743	Cx quinquefasciatus	35	7/22/2008	7/22/2008	Garden Grove	Orange	WNV
ORCO42	731	Cx quinquefasciatus	27	7/17/2008	7/17/2008	Santa Ana	Orange	WNV
ORCO52	752	Cx quinquefasciatus	13	7/22/2008	7/22/2008	Anaheim	Orange	WNV
ORCO52	760	Cx quinquefasciatus	18	7/22/2008	7/22/2008	Anaheim	Orange	WNV
PLCR0025	381	Cx tarsalis	50	7/17/2008	7/23/2008	Lincoln	Placer	WNV
PLCR0519	400	Cx tarsalis	9	7/22/2008	7/23/2008	Roseville	Placer	WNV
SAND0150	56	Cx quinquefasciatus	36	7/17/2008	7/23/2008	San Diego	San Diego	WNV
SAYO2102	10300	Cx pipiens	39	7/16/2008	7/16/2008	Sacramento	Sacramento	WNV
SAYO2108	4050	Cx pipiens	46	7/18/2008	7/18/2008	Elverta	Sacramento	WNV
SAYO2211	10034	Cx tarsalis	50	7/14/2008	7/14/2008	Sacramento	Sacramento	WNV
SAYO2211	10035	Cx tarsalis	50	7/14/2008	7/14/2008	South Watt Avenue	Sacramento	WNV
SAYO2211	10036	Cx tarsalis	50	7/14/2008	7/14/2008	Sacramento	Sacramento	WNV
SAYO2211	10038	Cx tarsalis	50	7/14/2008	7/14/2008	Sacramento	Sacramento	WNV
SAYO2211	10040	Cx tarsalis	50	7/14/2008	7/14/2008	Sacramento	Sacramento	WNV
SAYO2211	10044	Cx tarsalis	50	7/14/2008	7/14/2008	Sacramento	Sacramento	WNV
SAYO2211	10069	Cx erythrothorax	50	7/14/2008	7/14/2008	South Watt Avenue	Sacramento	WNV
SAYO2211	10174	Cx tarsalis	50	7/15/2008	7/15/2008	Sacramento	Sacramento	WNV
SAYO2211	10183	Cx tarsalis	50	7/15/2008	7/15/2008	South Watt Avenue	Sacramento	WNV
SAYO2211	10210	Cx pipiens	50	7/15/2008	7/15/2008	Sacramento	Sacramento	WNV
SAYO2211	10335	Cx tarsalis	50	7/16/2008	7/16/2008	Sacramento	Sacramento	WNV
SAYO2211	10336	Cx tarsalis	50	7/16/2008	7/16/2008	South Watt Avenue	Sacramento	WNV
SAYO2211	10337	Cx tarsalis	50	7/16/2008	7/16/2008	Sacramento	Sacramento	WNV
SAYO2211	10338	Cx tarsalis	50	7/16/2008	7/16/2008	South Watt Avenue	Sacramento	WNV
SAYO2211	10340	Cx tarsalis	50	7/16/2008	7/16/2008	South Watt Avenue	Sacramento	WNV
SAYO2211	10342	Cx tarsalis	40	7/16/2008	7/16/2008	South Watt Avenue	Sacramento	WNV
SAYO2211	10353	Cx pipiens	50	7/16/2008	7/16/2008	Sacramento	Sacramento	WNV
SAYO2211	11111	Cx pipiens	38	7/21/2008	7/21/2008	Sacramento	Sacramento	WNV
SAYO2211	11268	Cx tarsalis	50	7/22/2008	7/22/2008	Sacramento	Sacramento	WNV
SAYO2211	11271	Cx tarsalis	50	7/22/2008	7/22/2008	Sacramento	Sacramento	WNV
SAYO2211	11282	Cx pipiens	50	7/22/2008	7/22/2008	Sacramento	Sacramento	WNV
SAYO2211	11283	Cx pipiens	50	7/22/2008	7/22/2008	Sacramento	Sacramento	WNV
SAYO2211	11285	Cx pipiens	50	7/22/2008	7/22/2008	Sacramento	Sacramento	WNV
SAYO4122	11229	Cx pipiens	4	7/22/2008	7/22/2008	Citrus Heights	Sacramento	WNV
SAYO4128	10078	Cx pipiens	14	7/14/2008	7/14/2008	Sacramento	Sacramento	WNV
SAYO4128	10082	Cx pipiens	36	7/14/2008	7/14/2008	Sacramento	Sacramento	WNV
SAYO4128	10236	Cx tarsalis	36	7/15/2008	7/15/2008	Sacramento	Sacramento	WNV
SAYO4128	11236	Cx pipiens	50	7/22/2008	7/22/2008	Sacramento	Sacramento	WNV
SAYO4177	10096	Cx pipiens	50	7/14/2008	7/14/2008	Sacramento	Sacramento	WNV
SAYO4177	10287	Cx pipiens	50	7/16/2008	7/16/2008	Sacramento	Sacramento	WNV

# California Arbovirus Surveillance Bulletin # 23

Week 30 Friday, July 25, 2008

SAYO4177	11079	Cx pipiens	25	7/20/2008	7/20/2008	Sacramento	Sacramento	WNV
SAYO4205	11256	Cx tarsalis	11	7/22/2008	7/22/2008	Sacramento	Sacramento	WNV
SAYO4214	10132	Cx pipiens	7	7/15/2008	7/15/2008	Sacramento	Sacramento	WNV
SAYO4214	10269	Cx pipiens	10	7/16/2008	7/16/2008	Sacramento	Sacramento	WNV
SAYO4214	11264	Cx tarsalis	23	7/22/2008	7/22/2008	Sacramento	Sacramento	WNV
SAYO4250	4143	Cx pipiens	50	7/18/2008	7/18/2008	Sacramento	Sacramento	WNV
SAYO4253	10259	Cx pipiens	43	7/16/2008	7/16/2008	Sacramento	Sacramento	WNV
SAYO4253	11031	Cx tarsalis	12	7/20/2008	7/20/2008	Sacramento	Sacramento	WNV
SAYO4253	11171	Cx tarsalis	42	7/21/2008	7/21/2008	Sacramento	Sacramento	WNV
SAYO4253	11252	Cx tarsalis	29	7/22/2008	7/22/2008	Sacramento	Sacramento	WNV
SAYO4264	10021	Cx pipiens	46	7/14/2008	7/14/2008	Sacramento	Sacramento	WNV
SAYO4264	10022	Cx tarsalis	18	7/14/2008	7/14/2008	Sacramento	Sacramento	WNV
SAYO4264	10158	Cx tarsalis	13	7/15/2008	7/15/2008	Sacramento	Sacramento	WNV
SAYO4264	10159	Cx pipiens	50	7/15/2008	7/15/2008	Sacramento	Sacramento	WNV
SAYO4264	10319	Cx tarsalis	1	7/16/2008	7/16/2008	Sacramento	Sacramento	WNV
SAYO4264	10321	Cx tarsalis	12	7/16/2008	7/16/2008	Sacramento	Sacramento	WNV
SAYO4264	10328	Cx pipiens	33	7/16/2008	7/16/2008	Sacramento	Sacramento	WNV
SAYO4264	11045	Cx tarsalis	4	7/20/2008	7/20/2008	Sacramento	Sacramento	WNV
SAYO4264	11198	Cs incidens	21	7/22/2008	7/22/2008	Sacramento	Sacramento	WNV
SAYO4268	10006	Cx tarsalis	50	7/14/2008	7/14/2008	Sacramento	Sacramento	WNV
SAYO4268	10140	Cx pipiens	33	7/15/2008	7/15/2008	Sacramento	Sacramento	WNV
SAYO4268	10310	Cx pipiens	17	7/16/2008	7/16/2008	Sacramento	Sacramento	WNV
SAYO4268	10312	Cx pipiens	50	7/16/2008	7/16/2008	Sacramento	Sacramento	WNV
SAYO4268	11010	Cx tarsalis	35	7/20/2008	7/20/2008	Sacramento	Sacramento	WNV
SAYO4268	11201	Cx tarsalis	32	7/22/2008	7/22/2008	Sacramento	Sacramento	WNV
SAYO4268	11202	Cx pipiens	50	7/22/2008	7/22/2008	Sacramento	Sacramento	WNV
SAYO4275	10029	Cx pipiens	19	7/14/2008	7/14/2008	Sacramento	Sacramento	WNV
SAYO4275	10030	Cx tarsalis	50	7/14/2008	7/14/2008	Sacramento	Sacramento	WNV
SAYO4275	10148	Cx tarsalis	20	7/15/2008	7/15/2008	Sacramento	Sacramento	WNV
SAYO4275	10316	Cx tarsalis	50	7/16/2008	7/16/2008	Sacramento	Sacramento	WNV
SAYO4275	10318	Cx pipiens	26	7/16/2008	7/16/2008	Sacramento	Sacramento	WNV
SAYO4275	11180	Cx pipiens	14	7/22/2008	7/22/2008	Sacramento	Sacramento	WNV
SAYO7004	4043	Cx pipiens	22	7/18/2008	7/18/2008	Elverta	Sacramento	WNV
SAYO7004	4044	Cx tarsalis	50	7/18/2008	7/18/2008	Elverta	Sacramento	WNV
SAYO7004	4046	Cx tarsalis	50	7/18/2008	7/18/2008	Elverta	Sacramento	WNV
SAYO7004	4047	Cx tarsalis	39	7/18/2008	7/18/2008	Elverta	Sacramento	WNV
SJCM8008	863	Cx tarsalis	50	7/24/2008	7/24/2008	Manteca	San Joaquin	WNV
SJCM8011	824	Cx pipiens	40	7/22/2008	7/22/2008	Ripon	San Joaquin	WNV
SJCM8037	857	Cx tarsalis	13	7/24/2008	7/24/2008	Lathrop	San Joaquin	WNV
SJCM8079	859	Cx tarsalis	42	7/24/2008	7/24/2008	Manteca	San Joaquin	WNV
SJCM8079	860	Cx pipiens	50	7/24/2008	7/24/2008	Manteca	San Joaquin	WNV
SJCM8079	861	Cx pipiens	50	7/24/2008	7/24/2008	Manteca	San Joaquin	WNV
SJCM8083	884	Cx pipiens	50	7/24/2008	7/24/2008	Escalon	San Joaquin	WNV
SJCM8083	886	Cx pipiens	50	7/24/2008	7/24/2008	Escalon	San Joaquin	WNV
SJCM8083	889	Cx pipiens	42	7/24/2008	7/24/2008	Escalon	San Joaquin	WNV
SJCM8094	876	Cx tarsalis	30	7/24/2008	7/24/2008	Manteca	San Joaquin	WNV
SJCM8094	877	Cx pipiens	12	7/24/2008	7/24/2008	Manteca	San Joaquin	WNV
SJCM8126	896	Cx tarsalis	10	7/24/2008	7/24/2008	Clements	Sacramento	WNV
SJCM8147	852	Cx tarsalis	6	7/22/2008	7/22/2008	Stockton	San Joaquin	WNV
SUYA0014	194	Cx tarsalis	33	7/22/2008	7/23/2008	Sutter	Sutter	WNV



## California Arbovirus Surveillance Bulletin # 23

Week 30 Friday, July 25, 2008

TRLK0420	881	Cx pipiens	50	7/22/2008	7/23/2008	Turlock	Stanislaus	WNV
TRLK0526	888	Cx pipiens	30	7/22/2008	7/23/2008	Denair	Stanislaus	WNV
WVAL1008	523	Cx quinquefasciatus	37	7/15/2008	7/15/2008	Ontario	San Bernardino	WNV
WVAL1008	579	Cx quinquefasciatus	30	7/22/2008	7/22/2008	Ontario	San Bernardino	WNV
WVAL2002	628	Cx tarsalis	50	7/23/2008	7/23/2008	Chino Hills	San Bernardino	WNV
WVAL2005	503	Cx tarsalis	50	7/9/2008	7/23/2008	Chino	San Bernardino	WNV
WVAL2005	504	Cx tarsalis	18	7/9/2008	7/23/2008	Chino	San Bernardino	WNV
WVAL2005	601	Cx tarsalis	50	7/23/2008	7/23/2008	Chino	San Bernardino	WNV
WVAL2005	609	Cx tarsalis	26	7/23/2008	7/23/2008	Chino	San Bernardino	WNV
WVAL2006	510	Cx tarsalis	50	7/9/2008	7/23/2008	Chino	San Bernardino	WNV
WVAL2006	563	Cx tarsalis	50	7/16/2008	7/16/2008	Chino	San Bernardino	WNV
WVAL2006	613	Cx tarsalis	50	7/23/2008	7/23/2008	Chino	San Bernardino	WNV
WVAL2006	622	Cx tarsalis	50	7/23/2008	7/23/2008	Chino	San Bernardino	WNV
WVAL2011	636	Cx quinquefasciatus	50	7/23/2008	7/23/2008	Chino	San Bernardino	WNV
WVAL2012	584	Cx quinquefasciatus	50	7/22/2008	7/22/2008	Chino	San Bernardino	WNV
WVAL2022	641	Cx quinquefasciatus	11	7/23/2008	7/23/2008	Fwy CA 60	San Bernardino	WNV
WVAL5002	593	Cx quinquefasciatus	27	7/22/2008	7/22/2008	Rancho Cucamonga	San Bernardino	WNV
WVAL5004	598	Cx quinquefasciatus	50	7/22/2008	7/22/2008	Rancho Cucamonga	San Bernardino	WNV
WVAL5005	544	Cx quinquefasciatus	16	7/15/2008	7/15/2008	Rancho Cucamonga	San Bernardino	WNV
WVAL5009	591	Cx quinquefasciatus	13	7/22/2008	7/22/2008	Rancho Cucamonga	San Bernardino	WNV
WVAL6001	583	Cx quinquefasciatus	35	7/22/2008	7/22/2008	Ontario	San Bernardino	WNV
WVAL6003	597	Cx quinquefasciatus	20	7/22/2008	7/22/2008	Ontario	San Bernardino	WNV
WVAL6005	592	Cx quinquefasciatus	16	7/22/2008	7/22/2008	Ontario	San Bernardino	WNV
WVAL6014	535	Cx quinquefasciatus	34	7/15/2008	7/15/2008	Fwy CA 60	San Bernardino	WNV

### Sentinel Chickens

Agency Code	County	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05	Band 06
IMPR0002	Imperial	Seeley	7/15/2008	WNV	2813					
NWST0002	Riverside	Glen Ivy Hot Spring	7/16/2008	WNV	1411	1412	1414	1415	1417	1418
WVAL0002	San Bernardino	Chino	7/17/2008	WNV	1973					
SANB0011	San Bernardino	Rialto	7/14/2008	WNV	1782					
SAND0057	San Diego	Del Mar	7/15/2008	WNV	1825	1862	1863	1864	1865	1867

### NATIONAL COMMENTS

As of July 22, 2008, 43 human cases had been reported nationwide this year in the following 14 states: Alabama (1), Arizona (1), Arkansas (2), California (6), Colorado (2), Connecticut (1), Louisiana (2), Mississippi (9), North Dakota (5), Oklahoma (3), South Dakota (3), Tennessee (1), Texas (6) and Utah (1). Of the 43 individuals, 16 (37%) had neuroinvasive illness. No cases have resulted in fatalities. At this time last year, 122 human cases had been reported nationwide.

### TEST PROTOCOLS

# California Arbovirus Surveillance Bulletin # 23

Week 30 Friday, July 25, 2008

## **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.

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## **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.

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## **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.

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## **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.

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*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](mailto:stan.husted@cdph.ca.gov)*

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