

# California Arbovirus Surveillance Bulletin # 25

Week 32 Friday, August 10, 2007

## Weekly and Year-To-Date Summaries

### WEEKLY COMMENTS



#### Humans

Twenty-two new human cases of West Nile virus (WNV) were reported this week from the following eight counties: Butte (4), Fresno (2), Glenn (2), Kern (10), Los Angeles (1), Santa Clara (1), Sutter (1), and Yolo (1). **These are the first human cases reported this year from Los Angeles, Sutter, and Yolo counties.** A total of 86 WNV cases have been reported in 2007, for a statewide incidence of 0.25 cases per 100,000 people. Of the 86 cases reported, 51 (59%) are classified as West Nile fever, 32 (37%) are classified as neuroinvasive disease, and three are of unknown clinical presentation. The median age of all cases is 52 years (range: 2-96 years), and 41 cases (48%) are male. Five WNV-related fatalities have been reported in 2007 from Colusa (1), Kern (2), Kings (1), and San Joaquin (1) counties. Twenty WNV-positive blood donation samples have been reported this year; 11 of the individuals subsequently developed symptoms and were reclassified as cases.

#### Horses

Four new equine WNV cases were reported this week from three counties: San Diego (2), Shasta (1), and Tehama (1). One horse from San Diego County was euthanized; this is the first equine WNV-related fatality in 2007. This year, nine horses from six counties have tested positive for WNV.

#### Dead Birds & Tree Squirrels

Fifty WNV-positive dead birds were reported this week from 14 counties: Contra Costa (1), Fresno (5), Kern (10), Lake (2), Los Angeles (5), Merced (1), Placer (2), Sacramento (7), Santa Clara (2), Santa Cruz (1), Shasta (4), Stanislaus (4), Tehama (5), and Tulare (1). A total of 552 dead birds from 38 counties have tested positive for WNV this year.

No new WNV-positive tree squirrels were reported this week. Seven squirrels from four counties have tested positive for WNV this year.

*Reminder: Local agencies should check the Surveillance Gateway for their county DYCAST bird reporting updates.*

#### Mosquito Pools

A total of 122 new WNV-positive mosquito pools were reported this week from 12 counties: Contra Costa (5), Fresno (10), Imperial (1), Kern (36), Los Angeles (19), Placer (4), Sacramento (20), San Joaquin (15), Shasta (1), Stanislaus (9), Sutter (1), and Tulare (1). **These are the first WNV-positive mosquito pools detected in Contra Costa County this year.** A total of 524 mosquito pools from 21 counties have tested positive for WNV this year.

Three mosquito pools from Kern County tested positive for western equine encephalomyelitis virus (WEE) this week, for a YTD total of 10 WEE-positive pools, all from Kern County.

#### Sentinel Chickens

Forty new WNV seroconversions were reported this week from the following 12 counties: Butte (7), Contra Costa (1), Fresno (9), Imperial (7), Kern (1), Kings (3), Riverside (2), Sacramento (1), San Bernardino (2), San Joaquin (4), Shasta (1), and Sutter (2). **These are the first seroconversions reported from Butte, Contra Costa, Riverside, and San Joaquin counties this year.** A total of 106 sentinel chickens from 18 counties have tested positive for WNV this year.

One WEE seroconversion was detected in a chicken from Kern County; two chickens from Kern County have tested positive for WEE this year.

2007 & 2006 YTD West Nile Virus Comparisons		
	2007	2006
Total # Dead Bird Reports	20,392	30,972
# Positive Counties	42	43
# Human Cases/ # Tested	86 / 660	38 / 804
# Horse Cases/ # Tested	9 / 180	13 / 274
# Positive Dead Birds/ # Tested	552 / 3,235	443 / 3,488
# Positive Mosquito Pools/ # Tested	524 / 15,728	417 / 13,404
# Positive Chicken Sera/ # Tested	106 / 16,936	143 / 19,659
# Positive Squirrels/ # Tested	7 / 111	0 / 46

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## YTD WNV Activity by Element and County, 2007

County	Humans*	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Alameda			3			
Butte	6		27	4	7	
Calaveras			2			
Colusa	1					
Contra Costa			12	5	1	
El Dorado			1			
Fresno	7		77	25	10	2
Glenn	4		27	1	7	
Humboldt			1			
Imperial	1			3	15	
Kern	48	2	89	145	28	
Kings	1		1	15	5	
Lake			2	5		
Lassen			1			
Los Angeles	1		12	33	1	
Madera			1			
Mendocino	1					
Merced	3		21	1		
Nevada			2			
Orange			9			
Placer			4	11		
Plumas			1			
Riverside			1	11	2	
Sacramento	1	1	37	102	3	
San Bernardino			4		3	
San Diego		2	6			
San Joaquin	2		21	86	4	1
San Luis Obispo			2			
San Mateo						1
Santa Clara	2		39	4		3
Santa Cruz			2			
Shasta	1	1	38	14	2	
Solano			1			
Sonoma	1	2	1			
Stanislaus	4		77	28	4	
Sutter	1		1	19	3	
Tehama		1	13		7	
Trinity			1			
Tulare			6	3		
Tuolumne			1			
Yolo	1		7	7	2	
Yuba			1	2	2	
<b>Totals</b>	<b>86</b>	<b>9</b>	<b>552</b>	<b>524</b>	<b>106</b>	<b>7</b>

\* Total does not include asymptomatic infections

**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).

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## TEST SUMMARIES

### Human & Horse Cases

		Number Tested	WNV		WEE		SLE		Other	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested	Week	40	0	22	0	0	0	0	0	0
	YTD	660	0	86	0	0	0	0	0	0
Horses Tested	Week	7	0	4	0	0	0	0	0	0
	YTD	180	0	9	0	0	0	0	0	0

### Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead Birds	Week	172	50
	YTD	3235	552
Tree Squirrels	Week	9	0
	YTD	111	7

### Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Flavivirus* Positive
Chicken Sera	Week	1,005	40	1	0	0
	YTD	16,936	106	2	0	0
Mosquito Pools: RT-PCR	Week	1,094	102	3	0	0
	YTD	14,425	430	10	0	0
Mosquito Pools: RAMP	Week	104	20	N/A	N/A	N/A
	YTD	1,303	94	N/A	N/A	N/A

\*Does not include those later confirmed as WNV or SLE

## POSITIVES: 8/6/07-8/10/07

### Dead Birds & Tree Squirrels

County	City	Zip Code	Species	Reported	Tested	Test Method
Contra Costa	Walnut Creek	94598	Peach-faced Lovebird	7/25/2007	8/6/2007	RT-PCR
Fresno	Fresno	93727	American Crow	7/16/2007	8/6/2007	RAMP
Fresno	Fresno	93720	American Crow	7/18/2007	8/6/2007	RAMP
Fresno	Fresno	93711	American Crow	7/30/2007	8/6/2007	RAMP
Fresno	Fresno	93711	American Crow	8/2/2007	8/6/2007	VecTest
Fresno	Sanger	93657	American Crow	8/2/2007	8/6/2007	RAMP
Kern	Bakersfield	93313	American Crow	7/25/2007	8/6/2007	RT-PCR
Kern	Bakersfield	93306	House Sparrow	7/25/2007	8/6/2007	RT-PCR
Kern	Bakersfield	93312	Sparrow	7/27/2007	8/6/2007	RT-PCR
Kern	Bakersfield	93312	Sparrow	7/27/2007	8/6/2007	RT-PCR
Kern	Bakersfield	93312	House Sparrow	7/27/2007	8/6/2007	RT-PCR
Kern	Bakersfield	93309	American Crow	7/27/2007	8/6/2007	RT-PCR
Kern	Bakersfield	93313	House Sparrow	7/31/2007	8/6/2007	RT-PCR
Kern	Bakersfield	93314	American Crow	7/30/2007	8/6/2007	RT-PCR
Kern	Bakersfield	93314	House Finch	7/31/2007	8/6/2007	RT-PCR
Kern	Bakersfield	93314	Western Scrub-Jay	7/31/2007	8/6/2007	RT-PCR
Lake	Clearlake	95422	American Crow	7/31/2007	8/6/2007	VecTest
Lake	Lakeport	95453	Spotted Towhee	7/26/2007	8/6/2007	RT-PCR
Los Angeles	Calabasas	91302	Goldfinch	7/25/2007	8/6/2007	RT-PCR
Los Angeles	Encino	91316	American Crow	7/30/2007	8/6/2007	RT-PCR
Los Angeles	Granada Hills	91344	American Crow	7/25/2007	8/6/2007	RT-PCR

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Los Angeles	Los Angeles	90038	Duck	7/25/2007	8/6/2007	RT-PCR
Los Angeles	Van Nuys	91406	American Crow	7/30/2007	8/6/2007	RT-PCR
Merced	Merced	95340	American Crow	7/28/2007	8/6/2007	RT-PCR
Placer	Lincoln	95648	Red-tailed Hawk	7/27/2007	8/6/2007	RT-PCR
Placer	Roseville	95747	Western Scrub-Jay	7/26/2007	8/6/2007	RT-PCR
Sacramento	Carmichael	95608	Yellow-billed Magpie	7/29/2007	8/6/2007	RT-PCR
Sacramento	Rio Linda	95673	Yellow-billed Magpie	7/27/2007	8/6/2007	RT-PCR
Sacramento	Sacramento	95834	Western Scrub-Jay	7/25/2007	8/6/2007	RT-PCR
Sacramento	Sacramento	95821	American Crow	7/26/2007	8/6/2007	RT-PCR
Sacramento	Sacramento	95838	American Crow	7/27/2007	8/6/2007	RT-PCR
Sacramento	Sacramento	95864	Yellow-billed Magpie	7/28/2007	8/6/2007	RT-PCR
Sacramento	Sacramento	95831	American Crow	7/28/2007	8/6/2007	RT-PCR
Santa Clara	Saratoga	95070	American Crow	7/26/2007	8/6/2007	VecTest
Santa Clara	Saratoga	95070	American Crow	7/30/2007	8/6/2007	VecTest
Santa Cruz	Watsonville	95076	Anna's Hummingbird	7/25/2007	8/6/2007	RT-PCR
Shasta	Redding	96002	Western Scrub-Jay	7/30/2007	8/6/2007	VecTest
Shasta	Redding	96002	American Crow	7/30/2007	8/6/2007	VecTest
Shasta	Redding	96001	American Crow	7/31/2007	8/6/2007	VecTest
Shasta	Shasta Lake	96019	American Crow	7/30/2007	8/6/2007	VecTest
Stanislaus	Modesto	95356	Sparrow	7/26/2007	8/6/2007	RT-PCR
Stanislaus	Modesto	95357	American Crow	7/27/2007	8/6/2007	RT-PCR
Stanislaus	Modesto	95358	Western Scrub-Jay	7/27/2007	8/6/2007	RT-PCR
Stanislaus	Turlock	95380	House Finch	7/27/2007	8/6/2007	RT-PCR
Tehama	Corning	96021	Western Scrub-Jay	7/31/2007	8/6/2007	RT-PCR
Tehama	Los Molinos	96055	American Crow	7/31/2007	8/6/2007	VecTest
Tehama	Los Molinos	96055	Western Scrub-Jay	8/2/2007	8/6/2007	VecTest
Tehama	Manton	96059	Western Bluebird	7/25/2007	8/6/2007	RT-PCR
Tehama	Red Bluff	96080	American Crow	8/3/2007	8/6/2007	VecTest
Tulare	Visalia	93277	Northern Mockingbird	7/31/2007	8/6/2007	RT-PCR

## Mosquito Pools

County	Site Code	Pool #	Species	# in Pool	Collected	Tested	City	Virus
Contra Costa	CNTR3181	181	Cx pipiens	30	8/2/2007	8/9/2007	Antioch	WN
Contra Costa	CNTR7185	185	Cx tarsalis	50	8/2/2007	8/9/2007	Oakley	WN
Contra Costa	CNTR7185	186	Cx tarsalis	11	8/2/2007	8/9/2007	Oakley	WN
Contra Costa	CNTR7209	209	Cx pipiens	11	8/7/2007	8/9/2007	Oakley	WN
Contra Costa	CNTR7432	189	Cx tarsalis	11	8/2/2007	8/9/2007	Oakley	WN
Fresno	CNSL1392	128	Cx quinquefasciatus	12	8/7/2007	8/8/2007	Fresno	WN
Fresno	CNSL2083	124	Cx quinquefasciatus	12	8/3/2007	8/8/2007	Sanger	WN
Fresno	CNSL2190	123	Cx quinquefasciatus	30	8/3/2007	8/8/2007	Sanger	WN
Fresno	CNSL3181	345	Cx quinquefasciatus	24	8/7/2007	8/8/2007	Reedley	WN
Fresno	CNSL4011	337	Cx quinquefasciatus	50	8/2/2007	8/10/2007	Fresno	WN
Fresno	CNSL4028	344	Cx quinquefasciatus	38	8/7/2007	8/8/2007	Selma	WN
Fresno	CNSL4032	343	Cx tarsalis	50	8/7/2007	8/8/2007	Selma	WN
Fresno	CNSL4056	339	Cx quinquefasciatus	50	8/2/2007	8/8/2007	Fowler	WN
Fresno	CNSL5006	121	Cx stigmatosoma	43	8/1/2007	8/8/2007	Sanger	WN
Fresno	CNSL6123	327	Cx quinquefasciatus	35	8/1/2007	8/10/2007	Riverdale	WN
Imperial	COAV5003	1410	Cx tarsalis	19	8/2/2007	8/8/2007	Westmoreland	WN
Kern	AFSB0056	5264	Cx tarsalis	32	8/2/2007	8/8/2007	Buttonwillow	WN

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Kern	AFSB0092	5251	Cx tarsalis	35	7/26/2007	8/8/2007	Bakersfield	WN
Kern	AFSB0102	5257	Cx quinquefasciatus	11	7/31/2007	8/8/2007	Bakersfield	WN
Kern	AFSB0108	5259	Cx quinquefasciatus	50	7/31/2007	8/8/2007	Bakersfield	WN
Kern	AFSB1002	5254	Cx quinquefasciatus	32	7/31/2007	8/8/2007	Bakersfield	WN
Kern	AFSB1009	5255	Cx quinquefasciatus	48	7/31/2007	8/8/2007	Bakersfield	WN
Kern	KERN0009	311	Cx tarsalis	50	7/31/2007	8/8/2007	Bakersfield	WN
Kern	KERN0013	294	Cx tarsalis	50	7/31/2007	8/8/2007	Bakersfield	WN
Kern	KERN0015	295	Cx tarsalis	50	7/31/2007	8/8/2007	Pumpkin Center	WN
Kern	KERN0015	296	Cx tarsalis	50	7/31/2007	8/8/2007	Pumpkin Center	WN
Kern	KERN0015	297	Cx tarsalis	50	7/31/2007	8/8/2007	Pumpkin Center	WN
Kern	KERN0015	297	Cx tarsalis	50	7/31/2007	8/10/2007	Pumpkin Center	WEE
Kern	KERN0031	316	Cx tarsalis	50	8/1/2007	8/8/2007	Arvin	WN
Kern	KERN0031	317	Cx tarsalis	50	8/1/2007	8/8/2007	Arvin	WN
Kern	KERN0032	320	Cx tarsalis	50	8/1/2007	8/8/2007	Arvin	WN
Kern	KERN0032	320	Cx tarsalis	50	8/1/2007	8/10/2007	Arvin	WEE
Kern	KERN0032	321	Cx tarsalis	50	8/1/2007	8/8/2007	Arvin	WN
Kern	KERN0033	323	Cx tarsalis	50	8/1/2007	8/8/2007	Arvin	WN
Kern	KERN0036	302	Cx tarsalis	50	7/31/2007	8/8/2007	Bakersfield	WN
Kern	KERN0036	303	Cx tarsalis	50	7/31/2007	8/10/2007	Bakersfield	WN
Kern	KERN0042	304	Cx tarsalis	50	7/31/2007	8/10/2007	Bakersfield	WN
Kern	KERN0042	305	Cx tarsalis	50	7/31/2007	8/10/2007	Bakersfield	WN
Kern	KERN0042	309	Cx tarsalis	50	7/31/2007	8/8/2007	Bakersfield	WN
Kern	KERN0044	326	Cx quinquefasciatus	50	8/2/2007	8/8/2007	Shafter	WN
Kern	KERN0083	318	Cx tarsalis	50	8/1/2007	8/8/2007	Arvin	WN
Kern	KERN0083	319	Cx tarsalis	50	8/1/2007	8/8/2007	Arvin	WN
Kern	KERN0105	298	Cx tarsalis	50	7/31/2007	8/8/2007	Pumpkin Center	WN
Kern	KERN0105	298	Cx tarsalis	50	7/31/2007	8/10/2007	Pumpkin Center	WEE
Kern	KERN0105	299	Cx tarsalis	50	7/31/2007	8/8/2007	Pumpkin Center	WN
Kern	KERN0105	300	Cx tarsalis	50	7/31/2007	8/8/2007	Pumpkin Center	WN
Kern	KERN2001	329	Cx quinquefasciatus	47	8/3/2007	8/8/2007	Bakersfield	WN
Kern	KERN2002	330	Cx quinquefasciatus	28	8/3/2007	8/8/2007	Bakersfield	WN
Kern	KERN2007	332	Cx quinquefasciatus	37	8/3/2007	8/8/2007	Bakersfield	WN
Kern	KERN2010	333	Cx quinquefasciatus	50	8/3/2007	8/8/2007	Bakersfield	WN
Kern	KERN2010	334	Cx quinquefasciatus	21	8/3/2007	8/8/2007	Bakersfield	WN
Kern	KERN2016	339	Cx quinquefasciatus	34	8/3/2007	8/8/2007	Bakersfield	WN
Kern	KERN2018	340	Cx quinquefasciatus	37	8/3/2007	8/8/2007	Bakersfield	WN
Kern	KERN2024	331	Cx quinquefasciatus	18	8/3/2007	8/8/2007	Bakersfield	WN
Kern	KERN3004	313	Cx tarsalis	50	8/1/2007	8/8/2007	Bakersfield	WN
Los Angeles	GRLA2230	632	Cx quinquefasciatus	41	7/25/2007	8/10/2007	Rowland Heights	WN
Los Angeles	GRLA2414	5673	Cx quinquefasciatus	47	8/3/2007	8/9/2007	Granada Hills	WN
Los Angeles	GRLA2416	5668	Cx quinquefasciatus	50	8/3/2007	8/9/2007	Panorama City	WN
Los Angeles	GRLA2416	5670	Cx quinquefasciatus	50	8/3/2007	8/9/2007	Panorama City	WN
Los Angeles	GRLA2416	5672	Cx stigmatosoma	32	8/3/2007	8/9/2007	Panorama City	WN
Los Angeles	GRLA2416	5686	Cx quinquefasciatus	50	8/3/2007	8/9/2007	Panorama City	WN
Los Angeles	GRLA2417	5658	Cx quinquefasciatus	50	8/3/2007	8/9/2007	Panorama City	WN
Los Angeles	GRLA2417	5659	Cx quinquefasciatus	47	8/3/2007	8/9/2007	Panorama City	WN
Los Angeles	GRLA2417	5677	Cx quinquefasciatus	21	8/3/2007	8/9/2007	Panorama City	WN
Los Angeles	GRLA2418	5678	Cx quinquefasciatus	50	8/3/2007	8/10/2007	Panorama City	WN
Los Angeles	GRLA2418	5679	Cx quinquefasciatus	50	8/3/2007	8/9/2007	Panorama City	WN
Los Angeles	GRLA2418	5680	Cx quinquefasciatus	39	8/3/2007	8/9/2007	Panorama City	WN
Los Angeles	GRLA2419	5663	Cx quinquefasciatus	50	8/3/2007	8/9/2007	Panorama City	WN
Los Angeles	GRLA2419	5665	Cx quinquefasciatus	50	8/3/2007	8/9/2007	Panorama City	WN
Los Angeles	GRLA2419	5681	Cx quinquefasciatus	50	8/3/2007	8/9/2007	Panorama City	WN

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Los Angeles	GRLA2419	5683	Cx quinquefasciatus	32	8/3/2007	8/10/2007	Panorama City	WN
Los Angeles	GRLA2420	5655	Cx quinquefasciatus	50	8/3/2007	8/9/2007	Panorama City	WN
Los Angeles	GRLA2420	5656	Cx quinquefasciatus	33	8/3/2007	8/9/2007	Panorama City	WN
Los Angeles	GRLA2421	5650	Cx quinquefasciatus	50	8/3/2007	8/9/2007	Panorama City	WN
Placer	PLCR0025	218	Cx tarsalis	50	8/2/2007	8/7/2007	Lincoln	WN
Placer	PLCR0026	250	Cx tarsalis	50	8/2/2007	8/10/2007	Sheridan	WN
Placer	PLCR0033	208	Cx tarsalis	33	7/31/2007	8/7/2007	Lincoln	WN
Placer	PLCR0058	239	Cx tarsalis	50	8/2/2007	8/7/2007	Sheridan	WN
Sacramento	SAYO2102	4003	Cx tarsalis	2	8/1/2007	8/9/2007	Sacramento	WN
Sacramento	SAYO2102	4005	Cx pipiens	50	8/1/2007	8/9/2007	Sacramento	WN
Sacramento	SAYO2102	4266	Cx tarsalis	50	8/4/2007	8/9/2007	Sacramento	WN
Sacramento	SAYO2102	4274	Cx pipiens	46	8/4/2007	8/9/2007	Sacramento	WN
Sacramento	SAYO2102	4334	Cx tarsalis	50	8/5/2007	8/9/2007	Sacramento	WN
Sacramento	SAYO4120	4107	Cx pipiens	13	8/3/2007	8/9/2007	Antelope	WN
Sacramento	SAYO4128	4246	Cx pipiens	24	8/4/2007	8/9/2007	Sacramento	WN
Sacramento	SAYO4136	4135	Cx tarsalis	9	8/3/2007	8/9/2007	Fair Oaks	WN
Sacramento	SAYO4162	4330	Cx pipiens	7	8/5/2007	8/9/2007	Sacramento	WN
Sacramento	SAYO4162	4388	Cx pipiens	6	8/7/2007	8/9/2007	Sacramento	WN
Sacramento	SAYO4166	4008	Cx pipiens	24	8/1/2007	8/9/2007	Carmichael	WN
Sacramento	SAYO4166	4011	Cx pipiens	50	8/1/2007	8/9/2007	Carmichael	WN
Sacramento	SAYO4177	4126	Cx pipiens	50	8/3/2007	8/9/2007	Sacramento	WN
Sacramento	SAYO4211	4001	Cx pipiens	8	8/1/2007	8/9/2007	Sacramento	WN
Sacramento	SAYO4224	4184	Cx pipiens	39	8/3/2007	8/9/2007	Rancho Cordova	WN
Sacramento	SAYO4224	4256	Cx tarsalis	32	8/4/2007	8/9/2007	Rancho Cordova	WN
Sacramento	SAYO4225	4342	Cx tarsalis	27	8/5/2007	8/9/2007	Rancho Cordova	WN
Sacramento	SAYO4309	4345	Cx pipiens	20	8/7/2007	8/9/2007	Hood	WN
Sacramento	SAYO7000	4022	Cx tarsalis	50	8/1/2007	8/9/2007	Elk Grove	WN
Sacramento	SAYO7007	4437	Cx pipiens	50	8/7/2007	8/9/2007	Sacramento	WN
San Joaquin	SJCM8010	1233	Cx pipiens	50	8/9/2007	8/10/2007	Ripon	WN
San Joaquin	SJCM8010	1236	Cx pipiens	45	8/9/2007	8/10/2007	Ripon	WN
San Joaquin	SJCM8018	1174	Cx tarsalis	26	8/3/2007	8/6/2007	El Rancho	WN
San Joaquin	SJCM8020	1178	Cx pipiens	22	8/3/2007	8/6/2007	Acampo	WN
San Joaquin	SJCM8083	1237	Cx pipiens	50	8/9/2007	8/10/2007	Escalon	WN
San Joaquin	SJCM8083	1238	Cx pipiens	50	8/9/2007	8/10/2007	Escalon	WN
San Joaquin	SJCM8083	1240	Cx pipiens	50	8/9/2007	8/10/2007	Escalon	WN
San Joaquin	SJCM8083	1241	Cx pipiens	50	8/9/2007	8/10/2007	Escalon	WN
San Joaquin	SJCM8083	1244	Cx pipiens	50	8/9/2007	8/10/2007	Escalon	WN
San Joaquin	SJCM8083	1245	Cx pipiens	50	8/9/2007	8/10/2007	Escalon	WN
San Joaquin	SJCM8083	1246	Cx pipiens	50	8/9/2007	8/10/2007	Escalon	WN
San Joaquin	SJCM8084	1183	Cx pipiens	50	8/3/2007	8/6/2007	Stockton	WN
San Joaquin	SJCM8108	1179	Cx pipiens	26	8/3/2007	8/6/2007	Walnut Grove	WN
San Joaquin	SJCM8114	1254	Cx tarsalis	9	8/7/2007	8/10/2007	Manteca	WN
San Joaquin	SJCM8117	1253	Cx tarsalis	16	8/4/2007	8/10/2007	Stockton	WN
Shasta	SHAS0062	239	Cx pipiens	50	8/3/2007	8/8/2007	Anderson	WN
Stanislaus	TRLK0432	995	Cx pipiens	50	8/2/2007	8/7/2007	Turlock	WN
Stanislaus	TRLK0546	1030	Cx pipiens	50	8/7/2007	8/8/2007	Turlock	WN
Stanislaus	TRLK0546	1031	Cx pipiens	50	8/7/2007	8/8/2007	Turlock	WN
Stanislaus	TRLK0609	1025	Cx pipiens	50	8/7/2007	8/8/2007	Turlock	WN
Stanislaus	TRLK0610	1024	Cx pipiens	50	8/7/2007	8/8/2007	Turlock	WN
Stanislaus	TRLK0619	1006	Cx pipiens	16	8/7/2007	8/8/2007	Turlock	WN
Stanislaus	TRLK0620	1023	Cx pipiens	27	8/7/2007	8/10/2007	Turlock	WN
Stanislaus	TRLK0718	1014	Cx pipiens	50	8/7/2007	8/8/2007	Turlock	WN
Stanislaus	TRLK0718	1016	Cx pipiens	50	8/7/2007	8/10/2007	Turlock	WN

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Sutter	SUYA0031	242	Cx tarsalis	50	8/6/2007	8/10/2007	Rio Oso	WN
Tulare	DLTA2301	69	Cx quinquefasciatus	50	8/7/2007	8/8/2007	Kingsburg	WN

## Sentinel Chickens

County	Agency Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05	Band 06	Band 07	Band 08
Butte	BUCO0002	Oroville	7/23/2007	WNV	1098	1106						
Butte	BUCO0004	Gridley	7/23/2007	WNV	1120	1129						
Butte	BUCO0005	Honcut	7/23/2007	WNV	1133	1137						
Butte	BUCO0006	Chico	7/23/2007	WNV	1143							
Contra Costa	CNTR7402	Oakley	7/23/2007	WNV	1188							
Fresno	CNSL5005	Fresno-Yosemite Airp	7/30/2007	WNV	1448	1449	1453	1454	1455	1456	1457	1458
Fresno	FRNO0012	Fresno	7/30/2007	WNV	1610							
Imperial	IMPR0002	Seeley	7/31/2007	WNV	1751	1752	1755					
Imperial	IMPR0003	El Centro	7/31/2007	WNV	1757	1760						
Imperial	IMPR0016	Holtville	7/31/2007	WNV	1769	1770						
Kern	KERN0104	Old River	7/24/2007	WEE/WNV	1804							
Kings	KNGS2001	Hanford	7/30/2007	WNV	1931	1936						
Kings	KNGS2003	Stratford	7/30/2007	WNV	1937							
Riverside	COAV0204	Indio	7/30/2007	WNV	1369	1370						
Sacramento	SAYO7002	Hood	7/31/2007	WNV	2627							
San Bernardino	SANB0004	San Bernardino	7/30/2007	WNV	2760	2762						
San Joaquin	SJCM9901	Lodi	7/30/2007	WNV	2935	2936	2937	2940				
Shasta	SHAS9704	Redding	7/26/2007	WNV	3071							
Sutter	SUYA0030	Live Oak	7/26/2007	WNV	3253	3256						

## NATIONAL COMMENTS

As of August 7, 2007, WNV activity had been reported from 40 states. A total of 308 human cases had been reported in the following 25 states: Alabama (4), Arizona (16), Arkansas (2), California (64), Colorado (41), Georgia (2), Idaho (13), Illinois (6), Iowa (2), Kansas (3), Minnesota (9), Mississippi (14), Missouri (2), Montana (3), Nebraska (12), Nevada (2), New Mexico (5), North Dakota (39), Ohio (1), Pennsylvania (1), South Dakota (46), Texas (6), Utah (2), Virginia (1), and Wyoming (12). Of the 308 cases reported, 101 (33%) had West Nile neuroinvasive disease (i.e. encephalitis or meningitis). The median age of the cases was 48 years (range: 15 months-96 years) and 58% were male. Eleven human fatalities had been reported from Alabama (1), Arkansas (1), California (5), Mississippi (1), North Dakota (1), South Dakota (1), and Wyoming (1). For the latest updates about WNV activity in the United States, please visit the CDC WNV website at <http://www.cdc.gov/ncidod/dvbid/westnile/index.htm>.

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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).

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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, once WNV has been detected within a county, doves, pigeons, and chickens will no longer be accepted for testing from that county. 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, Ryan Carney, can be reached directly at (510) 412-6254.

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### **Sentinel Chickens:**

Dried blood spot specimens from sentinel chickens are submitted to VRDL 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) and the Viral and Rickettsial Disease Laboratory Branch, California Department of Public Health, 850 Marina Bay Parkway, Richmond, CA 94804. Questions concerning this bulletin should be addressed to Tina Feiszli by phone (510) 412-6298, FAX (510) 412-6263, or email: [tina.feiszli@cdph.ca.gov](mailto:tina.feiszli@cdph.ca.gov)*