

California Arbovirus Surveillance Bulletin # 27

Week 34 Friday, August 24, 2007

Weekly and Year-To-Date Summaries

WEEKLY COMMENTS



Humans

Twenty-seven new human cases of West Nile virus (WNV) were reported this week from the following eight counties: Butte (1), Fresno (1), Glenn (1), Imperial (1), Kern (14), Sacramento (4), Solano (1), and Stanislaus (4). **This is the first human case reported from Solano County this year.** A total of 147 WNV cases have been reported in 2007, for a statewide incidence of 0.43 cases per 100,000 people. Of the 147 cases reported, 82 (56%) are classified as West Nile fever, 58 (39%) are classified as neuroinvasive disease, and 7 (5%) are of unknown clinical presentation. The median age of all cases is 53 years (range: 2-96 years), and 78 cases (53%) are male. Eight WNV-related fatalities have been reported in 2007 from Colusa (1), Fresno (1), Kern (3), Kings (1), Los Angeles (1), and San Joaquin (1) counties. Twenty-three WNV-positive blood donation samples have been reported this year; 12 of the individuals subsequently developed symptoms and were reclassified as cases.

Horses

Five new equine WNV cases were reported this week from four counties: Fresno (1), San Diego (1), San Joaquin (1) and Tulare (2). **These are the first equine cases reported this year from Fresno, San Joaquin and Tulare Counties.** This year, 16 horses from nine counties have tested positive for WNV, of which five were euthanized or died.

Dead Birds & Tree Squirrels

Seventy-six WNV-positive dead birds were reported this week from 24 counties: Amador (1), Contra Costa (1), El Dorado (1), Fresno (4), Glenn (3), Kern (6), Los Angeles (16), Mendocino (1), Merced (1), Riverside (1), Sacramento (13), San Diego (5), San Joaquin (1), San Luis Obispo (1), Santa Barbara (1), Santa Clara (1), Santa Cruz (1), Shasta (1), Siskiyou (1), Stanislaus (9), Tehama (2), Tulare (1), Ventura (2), and Yolo (2). **This is the first detection of WNV activity this year in Amador, Santa Barbara, and Siskiyou counties.** A total of 717 dead birds from 47 counties have tested positive for WNV this year.

Two WNV-positive tree squirrels were reported this week from Mendocino and Santa Clara Counties. Ten squirrels from five 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 83 new WNV-positive mosquito pools were reported this week from 17 counties: Butte (1), Contra Costa (10), Fresno (13), Imperial (1), Kern (28), Kings (2), Los Angeles (1), Orange (1), Placer (2), Riverside (1), Sacramento (3), San Joaquin (12), Santa Clara (3), Shasta (1), Stanislaus (1), Sutter (2), and Tulare (1). **This is the first WNV-positive mosquito pool detected in Orange County this year.** A total of 673 mosquito pools from 22 counties have tested positive for WNV this year.

One pool tested positive for western equine encephalomyelitis virus (WEE) this week. YTD there have been 11 WEE-positive pools, all from Kern County.

Sentinel Chickens

Fifty-three new WNV seroconversions were reported this week from the following 15 counties: Butte (3), Contra Costa (2), Fresno (10), Glenn (1), Kern (2), Kings (3), Lake (1), Placer (3), Riverside (15), Sacramento (3), San Bernardino (4), Solano (1), Stanislaus (1), Sutter (3), and Yolo (1). **These are the first seroconversions reported from Lake, Placer, and Solano counties this year.** A total of 189 sentinel chickens from 22 counties have tested positive for WNV this year.

No new WEE seroconversions were detected this week. 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	22,971	34,701
# Positive Counties	48	49
# Human Cases/ # Tested	147 / 722	96 / 905
# Horse Cases/ # Tested	16 / 224	25 / 305
# Positive Dead Birds/ # Tested	717 / 3,769	688 / 4,003
# Positive Mosquito Pools/ # Tested	673 / 18,500	575 / 15,646
# Positive Chicken Sera/ # Tested	189 / 18,868	323 / 21,854
# Positive Squirrels/ # Tested	10 / 131	12 / 070

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YTD WNV Activity by Element and County, 2007

County	Humans*	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Alameda			6			
Amador			1			
Butte	8		27	5	14	
Calaveras			2			
Colusa	1		1		2	
Contra Costa			14	21	3	
El Dorado			2			
Fresno	9	1	85	44	20	3
Glenn	5		31	1	8	
Humboldt			2			
Imperial	2			4	16	
Inyo			1			
Kern	78	3	102	176	39	
Kings	2		1	22	8	
Lake			2	6	1	
Lassen			2			
Los Angeles	4		35	43	1	
Madera			3			
Mendocino	1		1			1
Merced	3		24	1		
Modoc			1			
Nevada			2			
Orange	2		9	1		
Placer			9	14	3	
Plumas			1			
Riverside			3	16	22	
Sacramento	7	2	71	114	9	
San Bernardino	1		7		7	
San Diego		3	11			
San Joaquin	3	1	26	105	6	1
San Luis Obispo			3			
San Mateo			1			1
Santa Barbara			1			
Santa Clara	2		41	7		4
Santa Cruz			4			
Shasta	1	1	41	15	2	
Siskiyou			1			
Solano	1		1		1	
Sonoma	1	2	1			
Stanislaus	10		96	42	5	
Sutter	2		1	21	9	
Tehama	3	1	17		7	
Trinity			1			
Tulare		2	9	6		
Tuolumne			1			
Ventura			3			
Yolo	1		12	7	3	
Yuba			1	2	3	
Totals	147	16	717	673	189	10

* Total does not include asymptomatic infections

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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.

TEST SUMMARIES

Human & Horse Cases

		Number Tested	WNV		WEE		SLE		Other	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested	Week	28	0	27	0	0	0	0	0	0
	YTD	722	0	147	0	0	0	0	0	0
Horses Tested	Week	27	0	5	0	0	0	0	0	0
	YTD	224	0	16	0	0	0	0	0	0

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead Birds	Week	241	76
	YTD	3,769	717
Tree Squirrels	Week	10	2
	YTD	131	10

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Flavivirus* Positive
Chicken Sera	Week	1,047	53	0	0	0
	YTD	18,868	189	2	0	0
Mosquito Pools: RT-PCR	Week	1,156	58	1	0	0
	YTD	16,844	541	11	0	0
Mosquito Pools: RAMP	Week	193	25	N/A	N/A	N/A
	YTD	1,656	132	N/A	N/A	N/A

*Does not include those later confirmed as WNV or SLE

POSITIVES: 8/20/07-8/24/07

Dead Birds & Tree Squirrels

County	City	Zip Code	Species	Reported	Tested	Test Type
Amador	Ione	95640	Cliff Swallow	8/8/07	8/20/07	RT-PCR
Contra Costa	Antioch	94509	Western Scrub-Jay	8/13/07	8/20/2007	RAMP
El Dorado	South Lake Tahoe	96150	American Robin	8/14/07	8/20/07	RT-PCR
Fresno	Fresno	93711	American Crow	8/14/07	8/20/2007	VecTest
Fresno	Fresno	93722	Western Scrub-Jay	8/13/07	8/20/2007	VecTest
Fresno	Fresno	93706	American Crow	8/14/07	8/20/2007	VecTest
Fresno	Kingsburg	93631	Western Scrub-Jay	8/13/07	8/20/07	RT-PCR
Glenn	Willows	95988	American Crow	8/15/07	8/20/2007	VecTest
Glenn	Willows	95988	American Crow	8/14/07	8/20/2007	VecTest
Glenn	Willows	95988	American Crow	8/14/07	8/20/2007	VecTest
Kern	Bakersfield	93309	House Sparrow	8/9/07	8/20/07	RT-PCR
Kern	Bakersfield	93309	House Finch	8/9/07	8/20/07	RT-PCR
Kern	Bakersfield	93311	House Finch	8/9/07	8/20/07	RT-PCR
Kern	Bakersfield	93314	Western Scrub-Jay	8/10/07	8/20/07	RT-PCR
Kern	Bakersfield	93304	Mourning Dove	8/13/07	8/20/07	RT-PCR
Kern	Bakersfield	93312	Sparrow	8/14/07	8/20/07	RT-PCR
Los Angeles	Burbank	91505	American Crow	8/15/07	8/20/07	RT-PCR

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Los Angeles	Chatsworth	91311	American Crow	8/14/07	8/20/07	RT-PCR
Los Angeles	Chatsworth	91311	American Crow	8/14/07	8/20/07	RT-PCR
Los Angeles	Chatsworth	91311	American Crow	8/14/07	8/20/07	RT-PCR
Los Angeles	Covina	91723	American Crow	8/9/07	8/20/07	RT-PCR
Los Angeles	Covina	91724	Finch	8/14/07	8/20/07	RT-PCR
Los Angeles	Covina	91723	American Crow	8/15/07	8/20/07	RT-PCR
Los Angeles	La Puente	91746	American Crow	8/10/07	8/20/07	RT-PCR
Los Angeles	Lancaster	93534	House Sparrow	8/10/07	8/20/07	RT-PCR
Los Angeles	North Hollywood	91602	American Crow	8/15/07	8/20/07	RT-PCR
Los Angeles	San Fernando	91340	American Crow	8/9/07	8/20/07	RT-PCR
Los Angeles	Santa Monica	90403	Cooper's Hawk	8/9/07	8/20/07	RT-PCR
Los Angeles	Van Nuys	91401	American Crow	8/10/07	8/20/07	RT-PCR
Los Angeles	Van Nuys	91406	American Crow	8/14/07	8/20/07	RT-PCR
Los Angeles	West Covina	91790	American Crow	8/1/07	8/20/07	RT-PCR
Los Angeles	Woodland Hills	91367	American Crow	8/13/07	8/20/07	RT-PCR
Mendocino	Ukiah	94582	Western Gray Squirrel	8/10/07	8/20/07	RT-PCR
Mendocino	Ukiah	95482	Northern Mockingbird	8/9/07	8/20/07	RT-PCR
Merced	Merced	95348	Western Scrub-Jay	8/10/07	8/20/07	RT-PCR
Riverside	Riverside	92506	American Crow	8/14/07	8/20/07	RT-PCR
Sacramento	Carmichael	95608	Yellow-billed Magpie	8/11/07	8/20/07	RT-PCR
Sacramento	Carmichael	95608	House Finch	8/14/07	8/20/07	RT-PCR
Sacramento	Carmichael	95608	Yellow-billed Magpie	8/15/07	8/20/07	RT-PCR
Sacramento	Elk Grove	95624	American Crow	8/9/07	8/20/07	RT-PCR
Sacramento	Sacramento	95841	Yellow-billed Magpie	8/9/07	8/20/07	RT-PCR
Sacramento	Sacramento	95822	Western Scrub-Jay	8/10/07	8/20/07	RT-PCR
Sacramento	Sacramento	95838	American Robin	8/10/07	8/20/07	RT-PCR
Sacramento	Sacramento	95864	Western Scrub-Jay	8/10/07	8/20/07	RT-PCR
Sacramento	Sacramento	95864	Western Scrub-Jay	8/10/07	8/20/07	RT-PCR
Sacramento	Sacramento	95841	Yellow-billed Magpie	8/11/07	8/20/07	RT-PCR
Sacramento	Sacramento	95818	American Crow	8/12/07	8/20/07	RT-PCR
Sacramento	Sacramento	95864	Yellow-billed Magpie	8/13/07	8/20/07	RT-PCR
Sacramento	Sacramento	95826	American Crow	8/13/07	8/20/07	RT-PCR
San Diego	El Cajon	92021	Western Scrub-Jay	8/8/07	8/20/07	RT-PCR
San Diego	Lemon Grove	91945	Western Scrub-Jay	7/30/07	8/20/07	RT-PCR
San Diego	San Diego	92124	American Crow	8/6/07	8/20/07	RT-PCR
San Diego	San Diego	92109	American Crow	8/7/07	8/20/07	RT-PCR
San Diego	Santee	92071	American Crow	8/9/07	8/20/07	RT-PCR
San Joaquin	Stockton	95207	American Crow	8/16/07	8/20/2007	VecTest
San Luis Obispo	Oceano	93445	Rock Dove	8/8/07	8/20/07	RT-PCR
Santa Barbara	Lompoc	93436	Sparrow	8/13/07	8/20/07	RT-PCR
Santa Clara	San Jose	95124	Cooper's Hawk	8/14/07	8/20/07	RT-PCR
Santa Clara	Santa Clara	95051	Eastern Gray Squirrel	8/9/07	8/20/07	RT-PCR
Santa Cruz	Santa Cruz	95060	European Starling	8/10/07	8/20/07	RT-PCR
Shasta	Redding	96002	Western Scrub-Jay	8/8/07	8/20/07	RT-PCR
Siskiyou	Etna	96027	Western Scrub-Jay	8/10/07	8/20/07	RT-PCR
Stanislaus	Ceres	95307	Western Scrub-Jay	8/8/07	8/20/07	RT-PCR
Stanislaus	Hughson	95326	Red-tailed Hawk	8/15/07	8/20/07	RT-PCR
Stanislaus	Modesto	95356	House Finch	8/8/07	8/20/07	RT-PCR
Stanislaus	Modesto	95356	American Crow	8/9/07	8/20/07	RT-PCR
Stanislaus	Oakdale	95361	American Crow	8/10/07	8/20/07	RT-PCR
Stanislaus	Oakdale	95361	Yellow-billed Magpie	8/14/07	8/20/07	RT-PCR
Stanislaus	Patterson	95363	Yellow-billed Magpie	8/10/07	8/20/07	RT-PCR
Stanislaus	Riverbank	95367	American Robin	8/10/07	8/20/07	RT-PCR

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Stanislaus	Turlock	95382	Western Scrub-Jay	8/8/07	8/20/07	RT-PCR
Tehama	Red Bluff	96080	Oak Titmouse	8/5/07	8/20/07	RT-PCR
Tehama	Red Bluff	96080	American Crow	8/9/07	8/20/2007	VecTest
Tulare	Visalia	93277	Mourning Dove	8/10/07	8/20/07	RT-PCR
Ventura	Oxnard	93030	Cockatiel	8/13/07	8/20/07	RT-PCR
Ventura	Simi Valley	93065	American Crow	8/13/07	8/20/07	RT-PCR
Yolo	Davis	95616	American Crow	8/9/07	8/20/07	RT-PCR
Yolo	West Sacramento	95691	Yellow-billed Magpie	8/7/07	8/20/07	RT-PCR

Mosquito Pools

County	Site Code	Pool #	Species	# in Pool	Collected	City	Virus
Butte	BUCO0013	21	Cx tarsalis	50	8/16/2007	Chico	WN
Contra Costa	CNTR3802	278	Cx pipiens	50	08/16/07	Antioch	WN
Contra Costa	CNTR3802	281	Cx tarsalis	50	08/16/07	Antioch	WN
Contra Costa	CNTR3802	284	Cx tarsalis	50	08/16/07	Antioch	WN
Contra Costa	CNTR7185	264	Cx tarsalis	44	08/16/07	Oakley	WN
Contra Costa	CNTR7261	261	Cx tarsalis	14	08/16/07	Antioch	WN
Contra Costa	CNTR7261	294	Cx pipiens	45	8/20/2007	Antioch	WN
Contra Costa	CNTR7265	268	Cx tarsalis	50	08/16/07	Antioch	WN
Contra Costa	CNTR7265	269	Cx tarsalis	40	08/16/07	Antioch	WN
Contra Costa	CNTR9223	271	Cx tarsalis	50	08/16/07	Antioch	WN
Contra Costa	CNTR9223	272	Cx tarsalis	50	08/16/07	Antioch	WN
Fresno	CNSL1136	161	Cx quinquefasciatus	50	8/17/2007	Fresno	WN
Fresno	CNSL1136	165	Cx quinquefasciatus	50	8/17/2007	Fresno	WN
Fresno	CNSL1160	153	Cx tarsalis	50	8/16/2007	Fresno	WN
Fresno	CNSL1245	158	Cx quinquefasciatus	23	8/16/2007	Clovis	WN
Fresno	CNSL1411	144	Cx quinquefasciatus	50	8/15/2007	Fresno	WN
Fresno	CNSL1417	163	Cx quinquefasciatus	26	8/17/2007	Clovis	WN
Fresno	CNSL2098	148	Cx quinquefasciatus	41	8/16/2007	Sanger	WN
Fresno	CNSL2098	149	Cx stigmatosoma	12	8/16/2007	Sanger	WN
Fresno	CNSL2162	146	Cx tarsalis	16	8/16/2007	Sanger	WN
Fresno	CNSL2195	151	Cx tarsalis	50	8/16/2007	Sanger	WN
Fresno	CNSL3180	370	Cx quinquefasciatus	16	8/16/2007	Reedley	WN
Fresno	CNSL3193	372	Cx quinquefasciatus	15	8/16/2007	Reedley	WN
Fresno	CNSL5061	173	Cx quinquefasciatus	12	8/17/2007	Sanger	WN
Imperial	COAV5001	1453	Cx tarsalis	48	8/14/2007	Niland	WN
Kern	AFSB0035	5317	Cx tarsalis	50	8/15/2007	Bakersfield	WN
Kern	AFSB0054	5307	Cx tarsalis	50	8/15/2007	Bakersfield	WN
Kern	AFSB0054	5328	Cx quinquefasciatus	16	8/17/2007	Bakersfield	WN
Kern	AFSB0060	5383	Cx quinquefasciatus	50	8/21/2007	Buttonwillow	WN
Kern	AFSB0089	5356	Cx tarsalis	50	8/21/2007	Lost Hills	WN
Kern	AFSB0108	5323	Cx quinquefasciatus	19	8/15/2007	Bakersfield	WN
Kern	AFSB1005	5332	Cx quinquefasciatus	50	8/17/2007	Bakersfield	WN
Kern	KERN0029	344	Cx tarsalis	50	8/14/2007	Lamont	WN
Kern	KERN0031	348	Cx tarsalis	50	8/14/2007	Arvin	WN
Kern	KERN0032	352	Cx tarsalis	50	8/14/2007	Arvin	WN
Kern	KERN0033	354	Cx tarsalis	50	8/14/2007	Arvin	WN
Kern	KERN0033	355	Cx tarsalis	50	8/14/2007	Arvin	WN
Kern	KERN0083	349	Cx tarsalis	50	8/14/2007	Arvin	WN
Kern	KERN0083	350	Cx tarsalis	50	8/14/2007	Arvin	WN
Kern	KERN2001	357	Cx quinquefasciatus	50	8/15/2007	Bakersfield	WN
Kern	KERN2001	358	Cx quinquefasciatus	49	8/15/2007	Bakersfield	WN
Kern	KERN2001	370	Cx quinquefasciatus	49	8/17/2007	Bakersfield	WN

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Kern	KERN2002	371	Cx quinquefasciatus	17	8/17/2007	Bakersfield	WN
Kern	KERN2007	361	Cx quinquefasciatus	50	8/15/2007	Bakersfield	WN
Kern	KERN2010	363	Cx quinquefasciatus	50	8/15/2007	Bakersfield	WN
Kern	KERN2014	376	Cx quinquefasciatus	31	8/17/2007	Bakersfield	WN
Kern	KERN2016	367	Cx quinquefasciatus	29	8/15/2007	Bakersfield	WN
Kern	KERN2020	368	Cx quinquefasciatus	50	8/15/2007	Bakersfield	WN
Kern	KERN2020	369	Cx quinquefasciatus	24	8/15/2007	Bakersfield	WN
Kern	KERN2023	356	Cx quinquefasciatus	25	8/15/2007	Arvin	WN
Kern	KERN2025	386	Cx quinquefasciatus	17	8/22/2007	Bakersfield	WN
Kern	KERN3004	346	Cx tarsalis	39	8/14/2007	Bakersfield	WN
Kern	KERN3004	346	Cx tarsalis	39	8/14/2007	Bakersfield	WN
Kern	KERN3004	346	Cx tarsalis	39	8/14/2007	Bakersfield	WEE
Kings	KNGS3005	173	Cx tarsalis	50	8/21/2007	Lemoore NAS	WN
Kings	KNGS4005	168	Cx quinquefasciatus	39	8/21/2007	Hanford	WN
Los Angeles	GRLA2937	5749	Cx quinquefasciatus	27	8/16/2007	Burbank	WN
Orange	ORCO0032	537	Cx quinquefasciatus	52	8/15/2007	Anaheim	WN
Placer	PLCR0139	352	Cx tarsalis	50	8/16/2007	Roseville	WN
Placer	PLCR0296	329	Cx tarsalis	19	8/14/2007	Auburn	WN
Riverside	NWST0016	188	Cx tarsalis	20	8/14/2007	Riverside	WN
Sacramento	SAYO2213	5076	Cx tarsalis	16	8/17/2007	Elk Grove	WN
Sacramento	SAYO4220	4896	Cx pipiens	15	8/16/2007	Rancho Cordova	WN
Sacramento	SAYO7000	5261	Cx pipiens	41	8/21/2007	Elk Grove	WN
San Joaquin	SJCM8004	1417	Cx tarsalis	30	8/22/2007	Lodi	WN
San Joaquin	SJCM8005	1355	Cx pipiens	50	8/21/2007	Stockton	WN
San Joaquin	SJCM8005	1357	Cx pipiens	50	8/21/2007	Stockton	WN
San Joaquin	SJCM8047	1376	Cx pipiens	50	8/21/2007	Stockton	WN
San Joaquin	SJCM8047	1377	Cx pipiens	50	8/21/2007	Stockton	WN
San Joaquin	SJCM8056	1346	Cx pipiens	50	8/21/2007	Manteca	WN
San Joaquin	SJCM8079	1406	Cx pipiens	50	8/22/2007	Manteca	WN
San Joaquin	SJCM8079	1408	Cx pipiens	50	8/22/2007	Manteca	WN
San Joaquin	SJCM8084	1331	Cx pipiens	36	8/17/07	Stockton	WN
San Joaquin	SJCM8110	1420	Cx tarsalis	30	8/22/2007	Lodi	WN
San Joaquin	SJCM8111	1361	Cx tarsalis	50	8/21/2007	Stockton	WN
San Joaquin	SJCM8114	1438	Cx pipiens	23	8/22/2007	Manteca	WN
Santa Clara	STCL	187	Cx tarsalis	99	8/15/2007	Saratoga	WN
Santa Clara	STCL	188	Cx pipiens	9	8/15/2007	San Jose	WN
Santa Clara	STCL	189	Cx pipiens	6	8/15/2007	Saratoga	WN
Shasta	SHAS0001	258	Cx tarsalis	50	8/15/2007	Anderson	WN
Stanislaus	EAST1013	70184	Cx tarsalis	14	8/14/2007	Modesto	WN
Sutter	SUYA0015	261	Cx tarsalis	45	8/13/2007	Robbins	WN
Sutter	SUYA0022	259	Cx tarsalis	47	8/13/2007	Tudor	WN
Tulare	DLTA6360	147	Cx quinquefasciatus	50	8/21/2007	Visalia	WN

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Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Result	Band 01	Band 02	Band 03	Band 04	Band 05	Band 06	Band 07	Band 08	Band 09
Butte	BUC0001	Chico	8/6/2007	WNV	1088	1089	1090						
Contra Costa	CNTR7402	Oakley	8/6/2007	WNV	1187	1191							
Fresno	CNSL5006	Sanger	8/13/2007	WNV	1460	1461	1463	1464	1467	1468	1469		
Fresno	FRNO12	Fresno	8/13/2007	WNV	1603	1611	1612						
Glenn	GLEN9701	Willows	8/8/2007	WNV	1666								
Kern	KERN105	Pumpkin Center	8/6/2007	WNV	1820								
Kern	KERN112	Wasco	8/6/2007	WNV	1860								
Kings	KNGS2001	Hanford	8/13/2007	WNV	1934								
Kings	KNGS2003	Stratford	8/13/2007	WNV	1939	1942							
Lake	LAKE1000	Upper Lake	8/8/2007	WNV	1970								
Placer	PLCR25	Lincoln	8/21/2007	WNV	2508	2509	2512						
Riverside	COAV122	Mecca	8/13/2007	WNV	1256	1263	1376						
Riverside	COAV35	Mecca	8/13/2007	WNV	1367	1392							
Riverside	NWST4	Flabob Airport	8/15/2007	WNV	2431	2432	2433	2434	2435	2436	2437	2439	2440
Riverside	NWST4	Flabob Airport	8/1/2007	WNV	2438								
Sacramento	SAYO7000	Elk Grove	8/17/2007	WNV	2621	2622							
Sacramento	SAYO7002	Hood	8/21/2007	WNV	2631								
San Bernardino	SANB3	Colton	8/13/2007	WNV	2751	2752	2758						
San Bernardino	SANB4	San Bernadino	8/13/2007	WNV	2764								
Solano	SOLA10	Vacaville	7/31/2007	WNV	3154								
Stanislaus	TRLK401	Hickman	8/6/2007	WNV	3344								
Sutter	SUYA14	Sutter	8/9/2007	WNV	3242	3243	3247						
Yolo	SAYO6006	Woodland	8/16/2007	WNV	2697								

NATIONAL COMMENTS

As of August 21, 2007, WNV activity had been reported from 41 states, New York City, and Puerto Rico. A total of 576 human cases had been reported nationwide in the following 30 states: Alabama (7), Arizona (16), Arkansas (3), California (120), Colorado (72), Connecticut (2), Florida (3), Georgia (6), Idaho (24), Illinois (11), Iowa (3), Kansas (6), Kentucky (1), Louisiana (2), Minnesota (24), Mississippi (14), Missouri (5), Montana (6), Nebraska (27), Nevada (3), New Mexico (11), North Dakota (52), Ohio (1), Oklahoma (8), Pennsylvania (1), South Dakota (81), Texas (13), Utah (4), Virginia (1), and Wyoming (49). Of the 576 cases reported, 179 (31%) had West Nile neuroinvasive disease (i.e. encephalitis or meningitis). The median age of the cases was 48 years (range: 1-96 years) and 55% were male. A total of 19 human fatalities had been reported from Alabama (1), Arkansas (1), California (7), Colorado (1), Florida (1), Illinois (1), Mississippi (1), North Dakota (1), Oklahoma (1), South Dakota (3), 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).

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, 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.

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.

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) 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