

California Arbovirus Surveillance Bulletin # 26 (corrected)

Week 33 Friday, August 17, 2007

Weekly and Year-To-Date Summaries

WEEKLY COMMENTS



Humans

Thirty-four new human cases of West Nile virus (WNV) were reported this week from the following twelve counties: Butte (1), Fresno (1), Kern (16), Kings (1), Los Angeles (3), Orange (2), Sacramento (2), San Bernardino (1), San Joaquin (1), Stanislaus (2), Sutter (1), and Tehama (3). **These are the first human cases reported this year from Orange, San Bernardino, and Tehama counties.** A total of 120 WNV cases have been reported in 2007, for a statewide incidence of 0.35 cases per 100,000 people. Of the 120 cases reported, 69 (58%) are classified as West Nile fever, 43 (36%) are classified as neuroinvasive disease, and 7 (6%) are of unknown clinical presentation. The median age of all cases is 53 years (range: 2-96 years), and 61 cases (51%) are male. Seven WNV-related fatalities have been reported in 2007 from Colusa (1), Kern (3), Kings (1), Los Angeles (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

Two new equine WNV cases were reported this week from two counties: Kern (1) and Sacramento (1). This year, 11 horses from six counties have tested positive for WNV, of which three were euthanized or died.

Dead Birds & Tree Squirrels

Eighty-nine WNV-positive dead birds were reported this week from 27 counties: Alameda (3), Colusa (1), Contra Costa (1), Fresno (4), Glenn (1), Humboldt (1), Inyo (1), Kern (7), Lassen (1), Los Angeles (7), Madera (2), Merced (2), Modoc (1), Placer (5), Riverside (1), Sacramento (21), San Bernardino (3), San Joaquin (4), San Mateo (1), Santa Clara (1), Santa Cruz (1), Shasta (2), Stanislaus (10), Tehama (2), Tulare (2), Ventura (1), and Yolo (3). **This is the first detection of WNV activity this year in Inyo, Modoc, and Ventura counties.** A total of 641 dead birds from 43 counties have tested positive for WNV this year.

One WNV-positive tree squirrel was reported this week from Fresno County. Eight 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 66 new WNV-positive mosquito pools were reported this week from 12 counties: Contra Costa (6), Fresno (6), Kern (3), Kings (5), Lake (1), Los Angeles (9), Placer (1), Riverside (4), Sacramento (9), San Joaquin (7), Stanislaus (13) and Tulare (2). A total of 590 mosquito pools from 21 counties have tested positive for WNV this year.

No new pools tested positive for western equine encephalomyelitis virus (WEE) this week. YTD there have been 10 WEE-positive pools, all from Kern County.

Sentinel Chickens

Thirty new WNV seroconversions were reported this week from the following 9 counties: Butte (4), Colusa (2), Imperial (1), Kern (9), Riverside (5), Sacramento (3), San Joaquin (2), Sutter (3), and Yuba (1). **These are the first seroconversions reported from Colusa County this year.** A total of 136 sentinel chickens from 19 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	21,755	32,806
# Positive Counties	45	46
# Human Cases/ # Tested	120 / 695	68 / 853
# Horse Cases/ # Tested	11 / 197	16 / 288
# Positive Dead Birds/ # Tested	641 / 3,528	586 / 3,773
# Positive Mosquito Pools/ # Tested	590 / 17,151	495 / 14,566
# Positive Chicken Sera/ # Tested	136 / 17,821	233 / 20,973
# Positive Squirrels/ # Tested	8 / 121	10 / 63

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YTD WNV Activity by Element and County, 2007

County	Humans*	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Alameda			6			
Butte	7		27	4	11	
Calaveras			2			
Colusa	1		1		2	
Contra Costa			13	11	1	
El Dorado			1			
Fresno	8		81	31	10	3
Glenn	4		28	1	7	
Humboldt			2			
Imperial	1			3	16	
Inyo			1			
Kern	64	3	96	148	37	
Kings	2		1	20	5	
Lake			2	6		
Lassen			2			
Los Angeles	4		19	42	1	
Madera			3			
Mendocino	1					
Merced	3		23	1		
Modoc			1			
Nevada			2			
Orange	2		9			
Placer			9	12		
Plumas			1			
Riverside			2	15	7	
Sacramento	3	2	58	111	6	
San Bernardino	1		7		3	
San Diego		2	6			
San Joaquin	3		25	93	6	1
San Luis Obispo			2			
San Mateo			1			1
Santa Clara	2		40	4		3
Santa Cruz			3			
Shasta	1	1	40	14	2	
Solano			1			
Sonoma	1	2	1			
Stanislaus	6		87	41	4	
Sutter	2		1	19	6	
Tehama	3	1	15		7	
Trinity			1			
Tulare			8	5		
Tuolumne			1			
Ventura			1			
Yolo	1		10	7	2	
Yuba			1	2	3	
Totals	120	11	641	590	136	8

* 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	35	0	34	0	0	0	0	0	0
	YTD	695	0	120	0	0	0	0	0	0
Horses Tested	Week	17	0	2	0	0	0	0	0	0
	YTD	197	0	11	0	0	0	0	0	0

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead Birds	Week	293	89
	YTD	3,528	641
Tree Squirrels	Week	9	1
	YTD	121	8

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Flavivirus* Positive
Chicken Sera	Week	885	30	0	0	0
	YTD	17,821	136	2	0	0
Mosquito Pools: RT-PCR	Week	1,263	53	0	0	0
	YTD	15,688	483	10	0	0
Mosquito Pools: RAMP	Week	160	13	N/A	N/A	N/A
	YTD	1,463	107	N/A	N/A	N/A

*Does not include those later confirmed as WNV or SLE

POSITIVES: 8/13/07-8/17/07

Dead Birds & Tree Squirrels

County	City	Zip Code	Species	Reported	Tested	Test Type
Alameda	Castro Valley	94546	Rock Dove	8/8/07	8/13/07	RT-PCR
Alameda	Livermore	94551	White-tailed Kite	7/30/07	8/13/07	RT-PCR
Alameda	Pleasanton	94588	Western Tanager	8/1/07	8/13/07	RT-PCR
Colusa	Colusa	95932	Western Scrub-Jay	8/7/07	8/13/07	RT-PCR
Contra Costa	Walnut Creek	94596	Lesser Goldfinch	8/1/07	8/13/07	RT-PCR
Fresno	Clovis	93611	Western Scrub-Jay	7/31/07	8/13/07	RT-PCR
Fresno	Fresno	93727	Unknown - Squirrel	8/6/07	8/13/07	RT-PCR
Fresno	Fresno	93730	American Crow	8/5/07	8/13/07	RAMP
Fresno	Kingsburg	93631	Mourning Dove	8/8/07	8/13/07	RT-PCR
Fresno	Sanger	93657	Western Scrub-Jay	8/7/07	8/13/07	RT-PCR
Glenn	Orland	95963	Western Scrub-Jay	8/6/07	8/13/07	RT-PCR
Humboldt	Arcata	95521	Peacock	8/7/07	8/13/07	RT-PCR
Inyo	Bishop	93514	European Starling	8/3/07	8/13/07	RT-PCR
Kern	Bakersfield	93309	Western Scrub-Jay	8/1/07	8/13/07	RT-PCR
Kern	Bakersfield	93309	House Finch	8/1/07	8/13/07	RT-PCR
Kern	Bakersfield	93308	Western Scrub-Jay	8/1/07	8/13/07	RT-PCR
Kern	Bakersfield	93308	House Sparrow	8/2/07	8/13/07	RT-PCR

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Kern	Bakersfield	93312	American Robin	8/6/07	8/13/07	RT-PCR
Kern	Lake Isabella	93240	Western Scrub-Jay	8/1/07	8/13/07	RT-PCR
Kern	Taft	93268	Mourning Dove	8/1/07	8/13/07	RT-PCR
Lassen	Susanville	96130	Red-tailed Hawk	8/6/07	8/13/07	RT-PCR
Los Angeles	Chatsworth	91311	American Crow	8/7/07	8/13/07	RT-PCR
Los Angeles	Northridge	91325	American Crow	8/3/07	8/13/07	RT-PCR
Los Angeles	Sun Valley	91352	American Crow	8/1/07	8/13/07	RT-PCR
Los Angeles	Sylmar	91342	American Crow	8/6/07	8/13/07	RT-PCR
Los Angeles	Valley Village	91607	American Crow	8/3/07	8/13/07	RT-PCR
Los Angeles	Van Nuys	91405	American Crow	8/2/07	8/13/07	RT-PCR
Los Angeles	Woodland Hills	91364	American Crow	8/1/07	8/13/07	RT-PCR
Madera	Madera	93636	Western Scrub-Jay	8/2/07	8/13/07	RT-PCR
Madera	Madera	93637	American Crow	8/7/07	8/13/07	RT-PCR
Merced	Atwater	95301	American Crow	7/31/07	8/13/07	RT-PCR
Merced	Merced	95340	American Crow	8/6/07	8/13/07	RT-PCR
Modoc	Likely	96116	Evening Grosbeak	8/5/07	8/13/07	RT-PCR
Placer	Auburn	95603	Western Scrub-Jay	8/1/07	8/13/07	RT-PCR
Placer	Auburn	95603	Western Scrub-Jay	8/6/07	8/13/07	RT-PCR
Placer	Granite Bay	95746	Northern Mockingbird	8/7/07	8/13/07	RT-PCR
Placer	Lincoln	95648	House Finch	8/5/07	8/13/07	RT-PCR
Placer	Roseville	95747	Western Scrub-Jay	8/5/07	8/13/07	RT-PCR
Riverside	Corona	92882	American Crow	8/7/07	8/13/07	RT-PCR
Sacramento	Carmichael	95608	Yellow-billed Magpie	7/31/07	8/13/07	RT-PCR
Sacramento	Carmichael	95608	Yellow-billed Magpie	8/3/07	8/13/07	RT-PCR
Sacramento	Citrus Heights	95621	Oak Titmouse	8/5/07	8/13/07	RT-PCR
Sacramento	Citrus Heights	95621	House Finch	8/7/07	8/13/07	RT-PCR
Sacramento	Elk Grove	95758	Western Scrub-Jay	8/3/07	8/13/07	RT-PCR
Sacramento	Elk Grove	95624	Northern Mockingbird	8/3/07	8/13/07	RT-PCR
Sacramento	Rancho Cordova	95670	Northern Mockingbird	8/2/07	8/13/07	RT-PCR
Sacramento	Rancho Cordova	95670	American Crow	8/7/07	8/13/07	RT-PCR
Sacramento	Rancho Cordova	95670	Yellow-billed Magpie	8/7/07	8/13/07	RT-PCR
Sacramento	Sacramento	95841	House Finch	8/1/07	8/13/07	RT-PCR
Sacramento	Sacramento	95825	Western Scrub-Jay	8/1/07	8/13/07	RT-PCR
Sacramento	Sacramento	95842	Western Scrub-Jay	8/2/07	8/13/07	RT-PCR
Sacramento	Sacramento	95827	American Crow	8/2/07	8/13/07	RT-PCR
Sacramento	Sacramento	95838	House Finch	8/2/07	8/13/07	RT-PCR
Sacramento	Sacramento	95825	Barn Swallow	8/3/07	8/13/07	RT-PCR
Sacramento	Sacramento	95838	American Crow	8/6/07	8/13/07	RT-PCR
Sacramento	Sacramento	95825	House Finch	8/5/07	8/13/07	RT-PCR
Sacramento	Sacramento	95822	Western Scrub-Jay	8/6/07	8/13/07	RT-PCR
Sacramento	Sacramento	95834	Yellow-billed Magpie	8/8/07	8/13/07	RT-PCR
Sacramento	Wilton	95693	Yellow-billed Magpie	8/1/07	8/13/07	RT-PCR
Sacramento	Wilton	95693	Western Scrub-Jay	8/6/07	8/13/07	RT-PCR
San Bernardino	Loma Linda	92354	Northern Mockingbird	8/3/07	8/13/07	RT-PCR
San Bernardino	Rancho Cucamonga	91701	Northern Mockingbird	8/1/07	8/13/07	RT-PCR
San Bernardino	Redlands	92373	House Finch	8/3/07	8/13/07	RT-PCR
San Joaquin	Manteca	95337	Unknown	7/5/07	8/13/07	RAMP
San Joaquin	Stockton	95215	Yellow-billed Magpie	8/2/07	8/13/07	RT-PCR
San Joaquin	Stockton	95207	American Robin	8/7/07	8/13/07	RT-PCR
San Joaquin	Stockton	95204	American Crow	8/8/07	8/13/07	VecTest
San Mateo	San Mateo	94404	House Finch	8/6/07	8/13/07	RT-PCR
Santa Clara	Gilroy	95020	Western Scrub-Jay	8/7/07	8/13/07	RT-PCR
Santa Cruz	Felton	95018	Chickadee	7/20/07	8/13/07	RT-PCR

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Shasta	Burney	96013	Western Scrub-Jay	8/6/07	8/13/07	RT-PCR
Shasta	Redding	96001	Steller's Jay	8/6/07	8/13/07	VecTest
Stanislaus	Modesto	95357	Yellow-billed Magpie	8/3/07	8/13/07	RT-PCR
Stanislaus	Modesto	95357	Yellow-billed Magpie	8/5/07	8/13/07	RT-PCR
Stanislaus	Modesto	95351	Yellow-billed Magpie	8/6/07	8/13/07	RT-PCR
Stanislaus	Modesto	95357	American Crow	8/7/07	8/13/07	RT-PCR
Stanislaus	Oakdale	95361	American Crow	8/6/07	8/13/07	RT-PCR
Stanislaus	Riverbank	95367	Western Scrub-Jay	8/1/07	8/13/07	RT-PCR
Stanislaus	Turlock	95380	Yellow-billed Magpie	7/30/07	8/13/07	RT-PCR
Stanislaus	Turlock	95382	Mourning Dove	8/1/07	8/13/07	RT-PCR
Stanislaus	Turlock	95380	Yellow-billed Magpie	8/6/07	8/13/07	RT-PCR
Stanislaus	Turlock	95380	Yellow-billed Magpie	8/8/07	8/13/07	RT-PCR
Tehama	Los Molinos	96055	American Crow	8/7/07	8/13/07	VecTest
Tehama	Red Bluff	96080	American Crow	8/7/07	8/13/07	VecTest
Tulare	Tulare	93274	Western Scrub-Jay	8/6/07	8/13/07	RT-PCR
Tulare	Visalia	93277	Western Scrub-Jay	8/2/07	8/13/07	RT-PCR
Ventura	Ventura	93004	Lesser Goldfinch	8/6/07	8/13/07	RT-PCR
Yolo	Clarksburg	95612	Swallow	8/6/07	8/13/07	RT-PCR
Yolo	Davis	95618	Western Scrub-Jay	8/2/07	8/13/07	RT-PCR
Yolo	Woodland	95695	Rock Dove	8/6/07	8/13/07	RT-PCR

Mosquito Pools

County	Site Code	Pool #	Species	# in Pool	Collected	Tested	City	Virus
Contra Costa	CNTR3802	214	Cx tarsalis	50	8/9/07	8/16/07	Antioch	WN
Contra Costa	CNTR3802	228	Cx tarsalis	50	8/13/07	8/16/07	Antioch	WN
Contra Costa	CNTR9223	222	Cx tarsalis	50	8/9/07	8/16/07	Antioch	WN
Contra Costa	CNTR9223	235	Cx tarsalis	50	8/13/07	8/16/07	Antioch	WN
Contra Costa	CNTR9223	233	Cx pipiens	50	8/13/07	8/16/07	Antioch	WN
Contra Costa	CNTR7185	213	Cx pipiens	17	8/9/07	8/16/07	Oakley	WN
Fresno	CNSL1398	131	Cx quinquefasciatus	49	8/8/2007	8/15/2007	Clovis	WN
Fresno	CNSL1400	137	Cx tarsalis	50	8/10/2007	8/15/2007	Clovis	WN
Fresno	FRNO0026	30	Cx quinquefasciatus	50	8/15/2007	8/17/2007	Fresno	WN
Fresno	FRNO0026	31	Cx quinquefasciatus	50	8/15/2007	8/16/2007	Fresno	WN
Fresno	CNSL3113	353	Cx quinquefasciatus	50	8/9/2007	8/15/2007	Parlier	WN
Fresno	CNSL6124	357	Cx quinquefasciatus	25	8/9/2007	8/15/2007	Riverdale	WN
Kern	AFSB0102	5281	Cx quinquefasciatus	7	8/9/2007	8/16/2007	Bakersfield	WN
Kern	AFSB0102	5282	Cx quinquefasciatus	15	8/9/2007	8/16/2007	Bakersfield	WN
Kern	AFSB0108	5275	Cx quinquefasciatus	50	8/9/2007	8/16/2007	Bakersfield	WN
Kings	KNGS3022	144	Cx tarsalis	50	8/15/2007	8/16/2007	Hanford	WN
Kings	KNGS4003	160	Cx quinquefasciatus	50	8/15/2007	8/16/2007	Hanford	WN
Kings	KNGS4003	162	Cx quinquefasciatus	44	8/15/2007	8/16/2007	Hanford	WN
Kings	KNGS3018	156	Cx erythrothorax	39	8/15/2007	8/16/2007	Lemoore	WN
Kings	KNGS3030	158	Cx tarsalis	31	8/15/2007	8/16/2007	Lemoore	WN
Lake	LAKE1004	199	Cx tarsalis	47	8/13/2007	8/15/2007	Upper Lake	WN
Los Angeles	GRLA2651	5692	Cx quinquefasciatus	50	8/8/2007	8/15/2007	Encino	WN
Los Angeles	GRLA2655	5706	Cx quinquefasciatus	48	8/8/2007	8/17/2007	Encino	WN
Los Angeles	GRLA2655	5722	Cx quinquefasciatus	15	8/8/2007	8/15/2007	Encino	WN
Los Angeles	GRLA2849	5728	Cx quinquefasciatus	23	8/8/2007	8/15/2007	Panorama City	WN
Los Angeles	GRLA2635	5713	Cx quinquefasciatus	50	8/8/2007	8/15/2007	Van Nuys	WN
Los Angeles	GRLA2636	5710	Cx quinquefasciatus	50	8/8/2007	8/15/2007	Van Nuys	WN
Los Angeles	GRLA2636	5712	Cx quinquefasciatus	28	8/8/2007	8/15/2007	Van Nuys	WN

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Los Angeles	GRLA2637	5708	Cx quinquefasciatus	46	8/8/2007	8/15/2007	Van Nuys	WN
Los Angeles	GRLA2637	5724	Cx quinquefasciatus	50	8/8/2007	8/15/2007	Van Nuys	WN
Placer	PLCR0288	251	Cx tarsalis	9	8/7/2007	8/14/2007	Lincoln	WN
Riverside	COAV0017	1423	Cx tarsalis	22	8/7/2007	8/15/2007	Mecca	WN
Riverside	COAV0034	1421	Cx tarsalis	17	8/7/2007	8/15/2007	Mecca	WN
Riverside	COAV0035	1420	Cx tarsalis	50	8/7/2007	8/15/2007	Mecca	WN
Riverside	COAV0540	1422	Cx tarsalis	50	8/7/2007	8/15/2007	Mecca	WN
Sacramento	SAYO4121	4629	Cx pipiens	10	8/10/07	8/16/07	Antelope	WN
Sacramento	SAYO02213	4695	Cx pipiens	40	8/10/07	8/16/07	Elk Grove	WN
Sacramento	SAYO7000	4855	Cx tarsalis	50	8/14/07	8/16/07	Elk Grove	WN
Sacramento	SAYO7000	4856	Cx tarsalis	50	8/14/07	8/16/07	Elk Grove	WN
Sacramento	SAYO4309	4616	Cx tarsalis	37	8/9/07	8/16/07	Hood	WN
Sacramento	SAYO4232	4497	Cx tarsalis	7	8/9/07	8/16/07	Rancho Cordova	WN
Sacramento	SAYO2102	4521	Cx pipiens	6	8/9/07	8/16/07	Sacramento	WN
Sacramento	SAYO4128	4514	Cx tarsalis	33	8/9/07	8/16/07	Sacramento	WN
Sacramento	SAYO4128	4517	Cx pipiens	15	8/9/07	8/16/07	Sacramento	WN
San Joaquin	SJCM8083	1263	Cx pipiens	50	8/11/07	8/16/07	Escalon	WN
San Joaquin	SJCM8083	1273	Cx pipiens	50	8/11/07	8/16/07	Escalon	WN
San Joaquin	SJCM8029	1309	Cx pipiens	50	8/15/07	8/16/07	Farmington	WN
San Joaquin	SJCM8004	1324	Cx tarsalis	50	8/15/07	8/16/07	Lodi	WN
San Joaquin	SJCM8110	1329	Cx tarsalis	49	8/15/07	8/16/07	Lodi	WN
San Joaquin	SJCM8056	1285	Cx pipiens	50	8/15/07	8/16/07	Manteca	WN
San Joaquin	SJCM8084	1256	Cx pipiens	46	8/10/07	8/16/07	Stockton	WN
Stanislaus	TRLK0434	1159	Cx pipiens	18	8/14/2007	8/15/2007	Ceres	WN
Stanislaus	TRLK0516	1109	Cx pipiens	50	8/14/2007	8/15/2007	Denair	WN
Stanislaus	TRLK0516	1110	Cx pipiens	50	8/14/2007	8/15/2007	Denair	WN
Stanislaus	TRLK0538	1147	Cx pipiens	50	8/14/2007	8/17/2007	hughson	WN
Stanislaus	TRLK0538	1150	Cx pipiens	50	8/14/2007	8/15/2007	hughson	WN
Stanislaus	EAST1023	70142	Cx pipiens	50	8/9/2007	8/17/2007	Modesto	WN
Stanislaus	EAST1023	70147	Cx pipiens	50	8/9/2007	8/14/2007	Modesto	WN
Stanislaus	EAST1023	70149	Cx tarsalis	13	8/9/2007	8/14/2007	Modesto	WN
Stanislaus	EAST1058	70156	Cx pipiens	50	8/9/2007	8/14/2007	Salida	WN
Stanislaus	TRLK0406	1048	Cx pipiens	10	8/14/2007	8/15/2007	Turlock	WN
Stanislaus	TRLK0407	1050	Cx pipiens	8	8/14/2007	8/15/2007	Turlock	WN
Stanislaus	TRLK0719	1090	Cx pipiens	50	8/14/2007	8/17/2007	Turlock	WN
Stanislaus	TRLK0719	1091	Cx pipiens	50	8/14/2007	8/15/2007	Turlock	WN
Tulare	DLTA5354	109	Cx quinquefasciatus	50	8/14/2007	8/16/2007	Visalia	WN
Tulare	DLTA3300	123	Cx quinquefasciatus	50	8/14/2007	8/17/2007	Yetterm	WN

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Sentinel Chickens

Agency Code	County	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05
BUCO0002	Butte	Oroville	8/6/2007	WNV	1101				
BUCO0004	Butte	Gridley	8/6/2007	WNV	1121	1123	1124		
CLSA0001	Colusa	Colusa	7/24/2007	WNV	1437				
CLSA0001	Colusa	Colusa	8/7/2007	WNV	1436				
COAV0122	Riverside	Mecca	7/30/2007	WNV	1257	1261	1262		
COAV0122	Riverside	Mecca	7/30/2007	WNV	1269	1366			
IMPR0013	Imperial	Calipatria	7/31/2007	WNV	1763				
KERN0104	Kern	Old River	8/6/2007	WNV	1805	1913			
KERN0107	Kern	Arvin	8/6/2007	WNV	1835	1836	1837	1844	1930
KERN0113	Kern	Bakersfield	7/23/2007	WNV	1861	1866			
SAYO7002	Sacramento	Hood	8/7/2007	WNV	2628				
SAYO7002	Sacramento	Hood	8/14/2007	WNV	2630	2632			
SJCM9901	San Joaquin	Lodi	7/30/2007	WNV	2938				
SJCM9901	San Joaquin	Lodi	8/13/2007	WNV	2939				
SUYA0031	Sutter	Rio Oso	8/9/2007	WNV	3211	3213	3219		
SUYA007	Yuba	Marysville	8/9/2007	WNV	3196				

NATIONAL COMMENTS

As of August 14, 2007, WNV activity had been reported from 29 states and Puerto Rico. A total of 444 human cases had been reported nationwide in the following 27 states: Alabama (7), Arizona (16), Arkansas (3), California (86), Colorado (72), Connecticut (2), Georgia (3), Idaho (13), Illinois (8), Iowa (2), Kansas (5), Minnesota (15), Mississippi (14), Missouri (4), Montana (6), Nebraska (16), Nevada (2), New Mexico (8), North Dakota (52), Ohio (1), Oklahoma (2), Pennsylvania (1), South Dakota (62), Texas (7), Utah (2), Virginia (1), and Wyoming (34). Of the 444 cases reported, 136 (31%) had West Nile neuroinvasive disease (i.e. encephalitis or meningitis). The median age of the cases was 48 years (range: 2-96 years) and 54% were male. A total of 15 human fatalities had been reported from Alabama (1), Arkansas (1), California (5), Colorado (1), Illinois (1), Mississippi (1), North Dakota (1), Oklahoma (1), South Dakota (2), 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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Week 33 Friday, August 17, 2007

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