

California Arbovirus Surveillance Bulletin # 28 (corrected)

Week 35 Friday, August 31, 2007

Weekly and Year-To-Date Summaries

WEEKLY COMMENTS



Humans

Twenty-five new human cases of West Nile virus (WNV) were reported this week from the following eight counties: Butte (2), Fresno (1), Glenn (2), Kern (13), Los Angeles (2), Riverside (1), Sacramento (3), and Shasta (1). **This is the first human case reported from Riverside County this year.** A total of 172 WNV cases have been reported in 2007, for a statewide incidence of 0.51 cases per 100,000 people. Of the 172 cases reported, 96 (56%) are classified as West Nile fever, 67 (39%) are classified as neuroinvasive disease, and 9 (5%) are of unknown clinical presentation. The median age of all cases is 53 years (range: 2-96 years), and 91 cases (53%) are male. Ten WNV-related fatalities have been reported in 2007 from Colusa (1), Fresno (1), Kern (4), Kings (1), Los Angeles (1), Sacramento (1), and San Joaquin (1) counties. Twenty-nine WNV-positive blood donation samples have been reported this year; 12 of the individuals subsequently developed symptoms and were reclassified as cases.

Horses

Two new equine WNV cases were reported this week from two counties: Kings (1) and Shasta (1). **This is the first equine case reported this year from Kings County.** This year, 18 horses from 10 counties have tested positive for WNV, of which seven were euthanized or died.

Dead Birds & Tree Squirrels

Seventy-two WNV-positive dead birds were reported this week from 17 counties: Alameda (1), Calaveras (1), Contra Costa (1), Fresno (5), Glenn (1), Kern (3), Kings (1), Los Angeles (21), Placer (2), Sacramento (6), San Bernardino (3), San Joaquin (4), San Luis Obispo (2), Santa Clara (9), Stanislaus (5), Tulare (4), and Yolo (3). A total of 789 dead birds from 47 counties have tested positive for WNV this year.

No new WNV-positive tree squirrels were reported this week. 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 88 new WNV-positive mosquito pools were reported this week from 16 counties: Amador (1), Contra Costa (1), Fresno (6), Kings (3), Los Angeles (12), Madera (7), Orange (2), Placer (4), Riverside (6), Sacramento (5), San Bernardino (2), San Joaquin (23), Shasta (1), Stanislaus (10), Tehama (1), and Tulare (4). **These are the first WNV-positive mosquito pools detected in Amador, Madera, San Bernardino, and Tehama Counties this year.** A total of 761 mosquito pools from 26 counties have tested positive for WNV this year.

No pools tested positive for western equine encephalomyelitis virus (WEE) this week. YTD there have been 11 WEE-positive pools, all from Kern County.

Sentinel Chickens

There were no new seroconversions reported this week. A total of 189* sentinel chickens from 22 counties have tested positive for WNV this year.

** Confirmation testing results from VRDL for possible positive samples will not be available until Wednesday. Local agencies should check the Surveillance Gateway then to see results of samples listed today as "pending".*

No new WEE seroconversions were detected this week. Two chickens from Kern County have tested positive for WEE this year.

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

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YTD WNV Activity by Element and County, 2007

County	Humans*	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens**	Squirrels
Alameda			7			
Amador			1	1		
Butte	10		27	5	14	
Calaveras			3			
Colusa	1		1		2	
Contra Costa			15	22	3	
El Dorado			2			
Fresno	10	1	90	50	20	3
Glenn	7		32	1	8	
Humboldt			2			
Imperial	2			4	16	
Inyo			1			
Kern	91	3	105	176	39	
Kings	2	1	2	25	8	
Lake			2	6	1	
Lassen			2			
Los Angeles	6		56	55	1	
Madera			3	7		
Mendocino	1		1			1
Merced	3		24	1		
Modoc			1			
Nevada			2			
Orange	2		9	3		
Placer			11	18	3	
Plumas			1			
Riverside	1		3	22	22	
Sacramento	10	2	77	119	9	
San Bernardino	1		10	2	7	
San Diego		3	11			
San Joaquin	3	1	30	128	6	1
San Luis Obispo			5			
San Mateo			1			1
Santa Barbara			1			
Santa Clara	2		50	7		4
Santa Cruz			4			
Shasta	2	2	41	16	2	
Siskiyou			1			
Solano	1		1		1	
Sonoma	1	2	1			
Stanislaus	10		101	52	5	
Sutter	2		1	21	9	
Tehama	3	1	17	1	7	
Trinity			1			
Tulare		2	13	10		
Tuolumne			1			
Ventura			3			
Yolo	1		15	7	3	
Yuba			1	2	3	
Totals	172	18	789	761	189	10

*Total does not include asymptomatic infections

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2007 & 2006 YTD West Nile Virus Comparisons		
	2007	2006
Total # Dead Bird Reports	24,106	36,159
# Positive Counties	48	50
# Human Cases/ # Tested	172 / 758	138 / 960
# Horse Cases/ # Tested	18 / 263	31 / 320
# Positive Dead Birds/ # Tested	789 / 4,026	851 / 4,241
# Positive Mosquito Pools/ # Tested	761 / 19,978	639 / 16,666
# Positive Chicken Sera/ # Tested	194 * / 19,601	343 / 22,993
# Positive Squirrels/ # Tested	10 / 133	14 / 082

TEST SUMMARIES

Human & Horse Cases

		Number Tested	WNV		WEE		SLE		Other	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested	Week	36	0	25	0	0	0	0	0	0
	YTD	758	0	172	0	0	0	0	0	0
Horses Tested	Week	39	0	2	0	0	0	0	0	0
	YTD	263	0	18	0	0	0	0	0	0

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead Birds	Week	229	72
	YTD	4,026	789
Tree Squirrels	Week	2	0
	YTD	133	10

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Flavivirus* Positive
Chicken Sera	Week	733	0 **	0	0	0
	YTD	19,601	189	2	0	0
Mosquito Pools: RT-PCR	Week	1,360	64	0	0	0
	YTD	18,204	605	11	0	0
Mosquito Pools: RAMP	Week	136	24	N/A	N/A	N/A
	YTD	1,792	156	N/A	N/A	N/A

*Does not include those later confirmed as WNV or SLE

**Total number won't be available until Wednesday. Please check the Surveillance Gateway then for your agency.

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POSITIVES: 8/27/07-8/31/07

Dead Birds & Tree Squirrels

County	City	Zip Code	Species	Reported	Tested	Test Type
Alameda	Fremont	94539	House Finch	8/16/07	8/27/07	RT-PCR
Calaveras	Copperopolis	95228	House Finch	8/21/07	8/27/07	RT-PCR
Contra Costa	Antioch	94531	American Crow	8/19/07	8/27/07	RAMP
Fresno	Clovis	93619	American Crow	8/22/07	8/27/07	RT-PCR
Fresno	Fresno	93725	Red-tailed Hawk	8/15/07	8/27/07	RT-PCR
Fresno	Fresno	93722	Western Scrub-Jay	8/16/07	8/27/07	RT-PCR
Fresno	Fresno	93711	Western Scrub-Jay	8/17/07	8/27/07	RT-PCR
Fresno	Fresno	93711	Western Scrub-Jay	8/21/07	8/27/07	RT-PCR
Glenn	Willows	95988	Barn Owl	8/20/07	8/27/07	RT-PCR
Kern	Bakersfield	93314	American Crow	8/18/07	8/27/07	RT-PCR
Kern	Bakersfield	93307	House Finch	8/21/07	8/27/07	RT-PCR
Kern	Tehachapi	93561	Mourning Dove	8/20/07	8/27/07	RT-PCR
Kings	Hanford	93230	American Crow	8/13/07	8/27/07	RT-PCR
Los Angeles	Canoga Park	91303	American Crow	8/14/07	8/27/07	RT-PCR
Los Angeles	Chatsworth	91311	American Crow	8/19/07	8/27/07	RT-PCR
Los Angeles	Chatsworth	91311	American Crow	8/21/07	8/27/07	RT-PCR
Los Angeles	Chatsworth	91311	American Crow	8/22/07	8/27/07	RT-PCR
Los Angeles	Claremont	91711	American Crow	8/21/07	8/27/07	RT-PCR
Los Angeles	Granada Hills	91344	House Finch	8/16/07	8/27/07	RT-PCR
Los Angeles	Hacienda Heights	91745	American Crow	8/22/07	8/27/07	RT-PCR
Los Angeles	Newhall	91321	Sparrow	8/15/07	8/27/07	RT-PCR
Los Angeles	Northridge	91325	House Sparrow	8/16/07	8/27/07	RT-PCR
Los Angeles	Northridge	91324	American Crow	8/16/07	8/27/07	RT-PCR
Los Angeles	Pacific Palisades	90272	Orange-Crowned Warbler	8/15/07	8/27/07	RT-PCR
Los Angeles	Studio City	91604	American Crow	8/20/07	8/27/07	RT-PCR
Los Angeles	Studio City	91604	American Crow	8/22/07	8/27/07	RT-PCR
Los Angeles	Sun Valley	91352	American Crow	8/17/07	8/27/07	RT-PCR
Los Angeles	Tarzana	91356	American Crow	8/17/07	8/27/07	RT-PCR
Los Angeles	Van Nuys	91406	American Crow	8/20/07	8/27/07	RT-PCR
Los Angeles	Van Nuys	91401	American Crow	8/20/07	8/27/07	RT-PCR
Los Angeles	Van Nuys	91405	American Crow	8/22/07	8/27/07	RT-PCR
Los Angeles	West Covina	91791	Sparrow	8/20/07	8/27/07	RT-PCR
Los Angeles	West Hills	91307	American Crow	8/16/07	8/27/07	RT-PCR
Los Angeles	Winnetka	91306	House Finch	8/15/07	8/27/07	RT-PCR
Placer	Auburn	95603	Common Raven	8/19/07	8/27/07	RT-PCR
Placer	Roseville	95678	Western Scrub-Jay	8/21/07	8/27/07	RT-PCR
Sacramento	Carmichael	95608	American Crow	8/16/07	8/27/07	RT-PCR
Sacramento	Folsom	95630	Yellow-billed Magpie	8/20/07	8/27/07	RT-PCR
Sacramento	Gold River	95670	American Crow	8/16/07	8/27/07	RT-PCR
Sacramento	Sacramento	95818	House Finch	8/16/07	8/27/07	RT-PCR
Sacramento	Sacramento	95821	Western Scrub-Jay	8/16/07	8/27/07	RT-PCR
Sacramento	Sacramento	95825	Yellow-billed Magpie	8/16/07	8/27/07	RT-PCR
San Bernardino	Ontario	91762	American Crow	8/21/07	8/27/07	RT-PCR
San Bernardino	San Bernardino	92404	House Finch	8/20/07	8/27/07	RT-PCR
San Bernardino	San Bernardino	92410	American Crow	8/13/07	8/27/07	RAMP
San Joaquin	French Camp	95231	American Crow	8/27/07	8/27/07	RAMP
San Joaquin	Lathrop	95330	Yellow-billed Magpie	8/16/07	8/27/07	RT-PCR
San Joaquin	Ripon	95366	American Crow	8/27/07	8/27/07	VecTest
San Joaquin	Stockton	95204	American Crow	8/25/07	8/27/07	VecTest
San Luis Obispo	Los Osos	93402	Yellow Warbler	8/8/07	8/27/07	RT-PCR
San Luis Obispo	Los Osos	93402	California Towhee	8/13/07	8/27/07	RT-PCR

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Santa Clara	San Jose	95129	American Crow	8/10/07	8/27/07	VecTest
Santa Clara	San Jose	95130	American Crow	8/14/07	8/27/07	VecTest
Santa Clara	Santa Clara	95051	American Crow	8/15/07	8/27/07	VecTest
Santa Clara	Saratoga	95070	American Crow	8/12/07	8/27/07	VecTest
Santa Clara	Saratoga	95070	American Crow	8/14/07	8/27/07	VecTest
Santa Clara	Saratoga	95070	American Crow	8/14/07	8/27/07	VecTest
Santa Clara	Saratoga	95070	American Crow	8/15/07	8/27/07	VecTest
Santa Clara	Saratoga	95070	American Crow	8/16/07	8/27/07	VecTest
Santa Clara	Saratoga	95070	American Crow	8/17/07	8/27/07	VecTest
Stanislaus	Modesto	95357	American Crow	8/20/07	8/27/07	RT-PCR
Stanislaus	Riverbank	95367	American Crow	8/21/07	8/27/07	RT-PCR
Stanislaus	Riverbank	95367	Western Scrub-Jay	8/21/07	8/27/07	RT-PCR
Stanislaus	Turlock	95380	Yellow-billed Magpie	8/16/07	8/27/07	RT-PCR
Stanislaus	Turlock	95382	Yellow-billed Magpie	8/21/07	8/27/07	RT-PCR
Tulare	Tulare	93274	Western Scrub-Jay	8/20/07	8/27/07	RT-PCR
Tulare	Tulare	93274	American Crow	8/21/07	8/27/07	RT-PCR
Tulare	Tulare	93274	Western Scrub-Jay	8/20/07	8/27/07	RT-PCR
Tulare	Visalia	93292	House Sparrow	8/20/07	8/27/07	RT-PCR
Yolo	Davis	95616	Yellow-billed Magpie	8/23/07	8/27/07	RT-PCR
Yolo	West Sacramento	95691	American Robin	8/21/07	8/27/07	RT-PCR
Yolo	Woodland	95776	Black-crowned Night-Heron	8/16/07	8/27/07	RT-PCR

Mosquito Pools

County	Site Code	Pool #	Species	# in Pool	Collected	City	Virus
Amador	AMAD0012	3	Cx tarsalis	7	8/23/07	lone	WN
Contra Costa	CNTR7185	334	Cx tarsalis	10	8/23/07	Oakley	WN
Fresno	FRNO0026	35	Cx quinquefasciatus	50	8/22/07	Fresno	WN
Fresno	FRNO0026	41	Cx tarsalis	46	8/29/07	Fresno	WN
Fresno	FRNO0007	42	Cx quinquefasciatus	46	8/29/07	Kerman	WN
Fresno	CNSL3147	379	Cx quinquefasciatus	14	8/22/07	Orange Cove	WN
Fresno	CNSL3150	384	Cx tarsalis	41	8/24/07	Orange Cove	WN
Fresno	CNSL3199	387	Cx quinquefasciatus	20	8/28/07	Sanger	WN
Kings	KNGS4003	187	Cx quinquefasciatus	50	8/28/07	Hanford	WN
Kings	CNSL5033	380	Cx quinquefasciatus	42	8/23/07	Kingsburg	WN
Kings	KNGS9002	181	Cx tarsalis	50	8/28/07	Lemoore	WN
Los Angeles	GRLA2649	5758	Cx quinquefasciatus	38	8/22/07	Encino	WN
Los Angeles	GRLA2650	5759	Cx quinquefasciatus	50	8/22/07	Encino	WN
Los Angeles	GRLA2655	5762	Cx quinquefasciatus	17	8/22/07	Encino	WN
Los Angeles	GRLA2655	5773	Cx quinquefasciatus	50	8/22/07	Encino	WN
Los Angeles	GRLA2655	5779	Cx tarsalis	12	8/22/07	Encino	WN
Los Angeles	GRLA2549	5786	Cx quinquefasciatus	19	8/22/07	Granada Hills	WN
Los Angeles	GRLA2526	774	Cx quinquefasciatus	18	8/23/07	Los Angeles	WN
Los Angeles	GRLA2540	5784	Cx quinquefasciatus	50	8/22/07	Northridge	WN
Los Angeles	GRLA2849	5796	Cx quinquefasciatus	19	8/23/07	Panorama City	WN
Los Angeles	GRLA2547	5780	Cx quinquefasciatus	13	8/22/07	Sylmar	WN
Los Angeles	GRLA2635	5766	Cx quinquefasciatus	17	8/22/07	Van Nuys	WN
Los Angeles	GRLA2636	5764	Cx quinquefasciatus	50	8/22/07	Van Nuys	WN
Madera	MADR1212	25	Cx pipiens	50	8/23/07	Madera	WN
Madera	MADR1212	29	Cx pipiens	50	8/23/07	Madera	WN
Madera	MADR1212	32	Cx pipiens	50	8/23/07	Madera	WN
Madera	MADR1212	34	Cx pipiens	50	8/23/07	Madera	WN

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Madera	MADR1212	38	Cx pipiens	50	8/23/07	Madera	WN
Madera	MADR1212	40	Cx pipiens	50	8/23/07	Madera	WN
Madera	MADR1212	42	Cx tarsalis	45	8/23/07	Madera	WN
Orange	ORCO30	559	Cx quinquefasciatus	15	8/22/07	La Habra	WN
Orange	ORCO17	550	Cx quinquefasciatus	10	8/21/07	Orange	WN
Placer	PLCR0035	390	Cx tarsalis	45	8/22/07	Lincoln	WN
Placer	PLCR0404	385	Cx tarsalis	29	8/22/07	Lincoln	WN
Placer	PLCR0461	377	Cx tarsalis	7	8/21/07	Lincoln	WN
Placer	PLCR0464	380	Cx tarsalis	50	8/21/07	Sheridan	WN
Riverside	COAV0037	1484	Cx tarsalis	14	8/21/07	Mecca	WN
Riverside	COAV0068	1482	Cx quinquefasciatus	50	8/21/07	Mecca	WN
Riverside	COAV0540	1496	Cx tarsalis	50	8/21/07	Mecca	WN
Riverside	COAV0540	1497	Cx tarsalis	37	8/21/07	Mecca	WN
Riverside	RIVR0052	593	Cx tarsalis	32	8/28/07	Moreno Valley	WN
Riverside	COAV0010	1479	Cx tarsalis	50	8/21/07	Thermal	WN
Sacramento	SAYO2213	5319	Cx pipiens	50	8/23/07	Elk Grove	WN
Sacramento	SAYO7000	5615	Cx tarsalis	50	8/28/07	Elk Grove	WN
Sacramento	SAYO7000	5617	Cx tarsalis	22	8/28/07	Elk Grove	WN
Sacramento	SAYO7002	5582	Cx pipiens	16	8/28/07	Hood	WN
Sacramento	SAYO2112	5374	Cx tarsalis	8	8/24/07	Sacramento	WN
San Bernardino	SANB0004	268	Cx quinquefasciatus	50	8/9/07	San Bernadino	WN
San Bernardino	SANB0004	269	Cx quinquefasciatus	5	8/9/07	San Bernadino	WN
San Joaquin	SJCM8020	1443	Cx tarsalis	49	8/23/07	Acampo	WN
San Joaquin	SJCM8121	1562	Cx pipiens	50	8/29/07	Escalon	WN
San Joaquin	SJCM8121	1563	Cx pipiens	50	8/29/07	Escalon	WN
San Joaquin	SJCM8029	1537	Cx pipiens	50	8/29/07	Farmington	WN
San Joaquin	SJCM8022	1498	Cx tarsalis	31	8/29/07	Holt	WN
San Joaquin	SJCM8056	1457	Cx pipiens	50	8/25/07	Manteca	WN
San Joaquin	SJCM8079	1459	Cx pipiens	50	8/25/07	Manteca	WN
San Joaquin	SJCM8079	1461	Cx pipiens	50	8/25/07	Manteca	WN
San Joaquin	SJCM8079	1463	Cx pipiens	50	8/25/07	Manteca	WN
San Joaquin	SJCM8079	1464	Cx pipiens	27	8/25/07	Manteca	WN
San Joaquin	SJCM8079	1568	Cx pipiens	50	8/30/07	Manteca	WN
San Joaquin	SJCM8079	1570	Cx pipiens	25	8/30/07	Manteca	WN
San Joaquin	SJCM8081	1479	Cx pipiens	31	8/28/07	Manteca	WN
San Joaquin	SJCM8010	1482	Cx pipiens	50	8/29/07	Ripon	WN
San Joaquin	SJCM8010	1483	Cx pipiens	42	8/29/07	Ripon	WN
San Joaquin	SJCM8011	1455	Cx pipiens	40	8/25/07	Ripon	WN
San Joaquin	SJCM8005	1545	Cx pipiens	50	8/29/07	Stockton	WN
San Joaquin	SJCM8009	1523	Cx tarsalis	17	8/29/07	Stockton	WN
San Joaquin	SJCM8009	1526	Cx pipiens	50	8/29/07	Stockton	WN
San Joaquin	SJCM8047	1513	Cx pipiens	44	8/29/07	Stockton	WN
San Joaquin	SJCM8119	1450	Cx pipiens	50	8/23/07	Stockton	WN
San Joaquin	SJCM8119	1451	Cx tarsalis	50	8/23/07	Stockton	WN
San Joaquin	SJCM8120	1466	Cx pipiens	50	8/23/07	Stockton	WN
Shasta	SHAS0085	271	Cx tarsalis	50	8/21/07	Redding	WN
Stanislaus	TRLK9743	1362	Cx pipiens	50	8/28/07	Crows Landing	WN
Stanislaus	TRLK9743	1367	Cx pipiens	36	8/28/07	Crows Landing	WN
Stanislaus	TRLK0305	1234	Cx pipiens	48	8/28/07	Grayson	WN
Stanislaus	TRLK9767	1224	Cx pipiens	50	8/28/07	Grayson	WN
Stanislaus	TRLK0538	1332	Cx tarsalis	20	8/28/07	hughson	WN

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Stanislaus	TRLK0538	1335	Cx pipiens	50	8/28/07	hughson	WN
Stanislaus	TRLK0538	1337	Cx pipiens	50	8/28/07	hughson	WN
Stanislaus	TRLK0538	1339	Cx pipiens	50	8/28/07	hughson	WN
Stanislaus	TRLK0538	1341	Cx pipiens	50	8/28/07	hughson	WN
Stanislaus	TRLK0416	1322	Cx pipiens	28	8/28/07	Turlock	WN
Tehama	TEHA0004	3	Cx tarsalis	50	8/22/07	Red Bluff	WN
Tulare	DLTA3302	213	Cx quinquefasciatus	50	8/28/07	Cutler	WN
Tulare	DLTA2301	180	Cx quinquefasciatus	50	8/21/07	Kingsburg	WN
Tulare	DLTA6118	229	Cx quinquefasciatus	50	8/28/07	Visalia	WN
Tulare	DLTA6118	230	Cx quinquefasciatus	50	8/28/07	Visalia	WN

NATIONAL COMMENTS

As of August 28, 2007, WNV activity had been reported from 43 states, New York City, and Puerto Rico. A total of 741 human cases had been reported nationwide in the following 32 states: Alabama (8), Arizona (16), Arkansas (3), California (147), Colorado (72), Connecticut (3), Florida (3), Georgia (9), Idaho (24), Illinois (11), Iowa (5), Kansas (6), Kentucky (1), Louisiana (2), Maryland (1), Minnesota (32), Mississippi (32), Missouri (5), Montana (37), Nebraska (38), Nevada (3), New Mexico (14), North Dakota (63), Ohio (1), Oklahoma (13), Oregon (3), Pennsylvania (1), South Dakota (81), Texas (18), Utah (6), Virginia (1), and Wyoming (82). Of the 741 cases reported, 224 (30%) had West Nile neuroinvasive disease (i.e. encephalitis or meningitis). The median age of the cases was 49 years (range: 1-96 years) and 55% were male. A total of 23 human fatalities had been reported from Alabama (1), Arkansas (1), California (9), Colorado (1), Florida (1), Illinois (1), Mississippi (1), Montana (1), North Dakota (1), Nebraska (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>.

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.

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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.

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