

California Arbovirus Surveillance Bulletin # 23

Week 30 Friday, July 27, 2007

Weekly and Year-To-Date Summaries

WEEKLY COMMENTS



Humans

Fifteen new human cases of West Nile virus (WNV) were reported this week from the following eight counties: Butte (2), Colusa (1), Fresno (2), Imperial (1), Kern (6), Shasta (1), Sonoma (1), and Stanislaus (1). **These are the first human cases reported this year from Butte, Colusa, Fresno, Imperial, Shasta, and Sonoma counties, and the first indication of WNV activity in Colusa County this year.** A total of 42 WNV cases have been reported in 2007, for a statewide incidence of 0.12 cases per 100,000 people. Of the 42 cases reported, 24 (57%) are classified as West Nile fever, 17 (40%) are classified as neuroinvasive disease, and one is of unknown clinical presentation. The median age of all cases is 52 years (range: 18-96 years), and 22 cases (52%) are male. Two WNV-related fatalities have been reported in 2007 from Kern County. Fourteen WNV-positive blood donation samples have been reported this year; eight of the individuals subsequently developed symptoms and were reclassified as cases.

Horses

One new equine case from Kern County was reported this week. To date in 2007, five horses from three counties have tested positive for WNV.

Dead Birds & Tree Squirrels

Sixty-eight WNV-positive dead birds were reported this week from the following 19 counties: Alameda (1), Butte (7), El Dorado (1), Fresno (5), Glenn (6), Kern (6), Los Angeles (1), Merced (3), Nevada (1), Placer (1), Sacramento (6), San Bernardino (1), San Joaquin (9), Santa Clara (1), Shasta (9), Stanislaus (4), Tehama (2), Tulare (2), and Yolo (2). **This is the first indication of WNV activity in El Dorado County this year.** A total of 423 dead birds from 32 counties have tested positive for WNV this year.

Seven tree squirrels were tested for WNV this week; none were positive. Five squirrels have tested positive for WNV this year.

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

Mosquito Pools

Ninety-six new WNV-positive mosquito pools were reported this week from 14 counties: Butte (2), Fresno (7), Kern (24), Kings (9), Lake (2), Los Angeles (1), Placer (3), Riverside (1), Sacramento (30), San Joaquin (7), Santa Clara (4), Stanislaus (2), Sutter (2), and Yolo (2). **These are the first WNV-positive mosquito pools detected in Butte and Santa Clara counties this year.** A total of 317 mosquito pools from 19 counties have tested positive for WNV this year.

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

Sentinel Chickens

Eight WNV seroconversions were reported this week from the following five counties: Kern (2), Glenn (2), Kings (1), Sacramento (1), and Yolo (2). **These are the first seroconversions reported from Glenn and Yolo counties this year.** A total of 30 sentinel chickens from 11 counties have tested positive for WNV this year.

One WEE seroconversion was reported this week from Kern County; this is the first WEE –positive sentinel chicken detected in California this year.

2007 & 2006 YTD West Nile Virus Comparisons		
	2007	2006
Total # Dead Bird Reports	17,262	26,680
# Positive Counties	38	30
# Human Cases/ # Tested	42 / 577	16 / 736
# Horse Cases/ # Tested	5 / 173	6 / 238
# Positive Dead Birds/ # Tested	423 / 2,842	219 / 2,987
# Positive Mosquito Pools/ # Tested	317 / 12,837	277 / 11,578
# Positive Chicken Sera/ # Tested	30 / 15,035	11 / 17,529
# Positive Squirrels/ # Tested	5 / 93	0 / 43

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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	2		21	2		
Calaveras			2			
Colusa	1					
Contra Costa			7			
El Dorado			1			
Fresno	2		63	13	1	2
Glenn	1		21	1	2	
Imperial	1			2	6	
Kern	28	2	72	103	4	
Kings			1	13	2	
Lake				4		
Lassen			1			
Los Angeles			5	8	1	
Mendocino	1					
Merced	1		17			
Nevada			2			
Orange			9			
Placer			1	5		
Riverside			1	8		
Sacramento		1	19	48	2	
San Bernardino			4		1	
San Diego			6			
San Joaquin	1		20	69		1
San Luis Obispo			2			
San Mateo						1
Santa Clara			32	4		1
Santa Cruz			1			
Shasta	1		25	2	1	
Solano			1			
Sonoma	1	2				
Stanislaus	2		67	13		
Sutter			1	17		
Tehama			6		7	
Tulare			4	1		
Tuolumne			1			
Yolo			6	3	2	
Yuba			1	1		
State Totals	42	5	423	317	29	5

* 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, 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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TEST SUMMARIES

Human & Horse Cases

		Number Tested	WNV		WEE		SLE		Other	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested	Week	35	0	15	0	0	0	0	0	0
	YTD	577	0	42	0	0	0	0	0	0
Horses Tested	Week	5	0	1	0	0	0	0	0	0
	YTD	173	0	5	0	0	0	0	0	0

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead Birds	Week	207	68
	YTD	2842	423
Tree Squirrels	Week	7	0
	YTD	93	5

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Flavivirus* Positive
Chicken Sera	Week	849	8	1	0	0
	YTD	15,035	29	1	0	0
Mosquito Pools: RT-PCR	Week	1,433	85	1	0	0
	YTD	11,710	245	7	0	0
Mosquito Pools: RAMP	Week	203	11	N/A	N/A	N/A
	YTD	1,127	72	N/A	N/A	N/A

*Does not include those later confirmed as WNV or SLE

POSITIVES: 7/23/07-7/27/07

Dead Birds & Tree Squirrels

County	City	Zip Code	Species	Reported	Tested	Test Method
Alameda	Livermore	94550	Brewer's Blackbird	7/16/07	7/23/07	RT-PCR
Butte	Chico	95926	American Crow	7/16/07	7/23/07	RT-PCR
Butte	Chico	95926	Western Scrub-Jay	7/16/07	7/23/07	RT-PCR
Butte	Chico	95926	American Crow	7/16/07	7/23/07	RT-PCR
Butte	Chico	95926	Western Scrub-Jay	7/17/07	7/23/07	RT-PCR
Butte	Chico	95926	American Crow	7/17/07	7/23/07	RT-PCR
Butte	Paradise	95969	Western Scrub-Jay	7/16/07	7/23/07	RT-PCR
Butte	Paradise	95969	American Crow	7/17/07	7/23/07	RT-PCR
El Dorado	Placerville	95667	California Towhee	7/11/07	7/23/07	RT-PCR
Fresno	Clovis	93619	American Crow	7/12/07	7/23/07	RT-PCR
Fresno	Fresno	93720	American Crow	7/12/07	7/23/07	RT-PCR
Fresno	Fresno	93727	American Crow	7/15/07	7/23/07	VecTest
Fresno	Fresno	93721	Western Scrub-Jay	7/17/07	7/23/07	VecTest
Fresno	Fresno	93704	American Crow	7/17/07	7/23/07	VecTest
Glenn	Orland	95963	Western Scrub-Jay	7/16/07	7/23/07	RT-PCR
Glenn	Orland	95963	American Robin	7/16/07	7/23/07	RT-PCR
Glenn	Willows	95988	American Crow	7/13/07	7/23/07	RT-PCR
Glenn	Willows	95988	American Crow	7/16/07	7/23/07	RT-PCR
Glenn	Willows	95988	American Crow	7/16/07	7/23/07	RT-PCR
Glenn	Willows	95988	American Crow	7/16/07	7/23/07	RT-PCR
Kern	Bakersfield	93314	Western Scrub-Jay	7/12/07	7/23/07	RT-PCR
Kern	Bakersfield	93309	Western Scrub-Jay	7/13/07	7/23/07	RT-PCR

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Kern	Bakersfield	93312	House Sparrow	7/15/07	7/23/07	RT-PCR
Kern	Bakersfield	93309	House Sparrow	7/16/07	7/23/07	RT-PCR
Kern	Bakersfield	93312	Mourning Dove	7/17/07	7/23/07	RT-PCR
Kern	Bakersfield	93313	American Crow	7/17/07	7/23/07	RT-PCR
Los Angeles	Northridge	91325	American Crow	7/13/07	7/23/07	RT-PCR
Merced	Hilmar	95324	Western Scrub-Jay	7/17/07	7/23/07	RT-PCR
Merced	Merced	95348	American Crow	7/11/07	7/23/07	RT-PCR
Merced	Merced	95340	American Crow	7/11/07	7/23/07	RT-PCR
Nevada	Nevada City	95959	Western Tanager	7/12/07	7/23/07	RT-PCR
Placer	Auburn	95602	American Crow	7/17/07	7/23/07	RT-PCR
Sacramento	Sacramento	95864	American Crow	7/12/07	7/23/07	RT-PCR
Sacramento	Sacramento	95825	Yellow-billed Magpie	7/12/07	7/23/07	RT-PCR
Sacramento	Sacramento	95822	Western Scrub-Jay	7/17/07	7/23/07	RT-PCR
Sacramento	Sacramento	95826	Western Scrub-Jay	7/17/07	7/23/07	RT-PCR
Sacramento	Sacramento	95826	American Crow	7/18/07	7/23/07	RT-PCR
Sacramento	Wilton	95693	Yellow-billed Magpie	7/13/07	7/23/07	RT-PCR
San Bernardino	Barstow	92311	American Kestrel	7/11/07	7/23/07	RT-PCR
San Joaquin	Manteca	95336	House Finch	7/13/07	7/23/07	RT-PCR
San Joaquin	Manteca	95336	Yellow-billed Magpie	7/13/07	7/23/07	RT-PCR
San Joaquin	Manteca	95336	Western Scrub-Jay	7/13/07	7/23/07	RT-PCR
San Joaquin	Manteca	95336	Western Scrub-Jay	7/16/07	7/23/07	RT-PCR
San Joaquin	Manteca	95337	American Crow	7/17/07	7/23/07	VecTest
San Joaquin	Manteca	95337	American Crow	7/18/07	7/23/07	VecTest
San Joaquin	Manteca	95337	American Crow	7/18/07	7/23/07	VecTest
San Joaquin	Manteca	95336	Western Scrub-Jay	7/16/07	7/23/07	RT-PCR
San Joaquin	Stockton	95211	Western Scrub-Jay	7/12/07	7/23/07	RT-PCR
Santa Clara	Campbell	95008	American Crow	7/16/07	7/23/07	VecTest
Shasta	Anderson	96007	Yellow-billed Magpie	7/16/07	7/23/07	RT-PCR
Shasta	Cottonwood	96022	Western Scrub-Jay	7/20/07	7/23/07	VecTest
Shasta	Redding	96001	Western Scrub-Jay	7/17/07	7/23/07	VecTest
Shasta	Redding	96002	Western Scrub-Jay	7/17/07	7/23/07	VecTest
Shasta	Redding	96001	Red-shouldered Hawk	7/17/07	7/23/07	RT-PCR
Shasta	Redding	96001	Yellow-billed Magpie	7/18/07	7/23/07	RT-PCR
Shasta	Redding	96001	Western Scrub-Jay	7/20/07	7/23/07	VecTest
Shasta	Redding	96001	Western Scrub-Jay	7/20/07	7/23/07	VecTest
Shasta	Redding	96001	Western Scrub-Jay	7/20/07	7/23/07	VecTest
Stanislaus	Ceres	95307	Western Scrub-Jay	7/12/07	7/23/07	RT-PCR
Stanislaus	Denair	95316	Yellow-billed Magpie	7/9/07	7/23/07	RT-PCR
Stanislaus	Modesto	95354	American Crow	7/13/07	7/23/07	RT-PCR
Stanislaus	Modesto	95356	American Crow	7/16/07	7/23/07	RT-PCR
Tehama	Los Molinos	96055	American Crow	7/17/07	7/23/07	VecTest
Tehama	Proberta	96078	American Crow	7/17/07	7/23/07	VecTest
Tulare	Visalia	93291	Western Scrub-Jay	7/18/07	7/23/07	RT-PCR
Tulare	Visalia	93277	American Crow	7/18/07	7/23/07	RT-PCR
Yolo	Davis	95618	Yellow-billed Magpie	7/17/07	7/23/07	RT-PCR
Yolo	Woodland	95776	Snowy Egret	7/12/07	7/23/07	RT-PCR

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Mosquito Pools

County	Site Code	Pool #	Species	# in Pool	Collected	Tested	City	Virus
Butte	BUCO0064	7	Cx tarsalis	50	7/20/2007	7/25/2007	Chico	WN
Butte	BUCO0076	2	Cx tarsalis	50	7/20/2007	7/25/2007	Chico	WN
Fresno	CNSL1355	99	Cx quinquefasciatus	16	7/20/2007	7/26/2007	Fresno	WN
Fresno	CNSL1359	97	Cx quinquefasciatus	17	7/20/2007	7/26/2007	Fresno	WN
Fresno	CNSL1361	95	Cx quinquefasciatus	27	7/20/2007	7/26/2007	Clovis	WN
Fresno	CNSL1362	87	Cx tarsalis	43	7/19/2007	7/26/2007	Fresno	WN
Fresno	CNSL1364	91	Cx quinquefasciatus	21	7/20/2007	7/26/2007	Clovis	WN
Fresno	CNSL1367	93	Cx quinquefasciatus	32	7/20/2007	7/26/2007	Sanger	WN
Fresno	CNSL2062	105	Cx tarsalis	21	7/24/2007	7/26/2007	Sanger	WN
Kern	AFSB0108	5232	Cx quinquefasciatus	50	7/17/2007	7/25/2007	Bakersfield	WN
Kern	AFSB0108	5233	Cx quinquefasciatus	50	7/17/2007	7/25/2007	Bakersfield	WN
Kern	AFSB0109	5246	Cx quinquefasciatus	15	7/19/2007	7/25/2007	Bakersfield	WN
Kern	AFSB0110	5238	Cx quinquefasciatus	11	7/17/2007	7/25/2007	Bakersfield	WN
Kern	AFSB1002	5230	Cx quinquefasciatus	22	7/17/2007	7/25/2007	Bakersfield	WN
Kern	AFSB1005	5229	Cx quinquefasciatus	22	7/17/2007	7/25/2007	Bakersfield	WN
Kern	KERN0009	240	Cx quinquefasciatus	47	7/17/2007	7/25/2007	Bakersfield	WN
Kern	KERN0015	247	Cx tarsalis	50	7/17/2007	7/25/2007	Pumpkin Center	WN
Kern	KERN0028	254	Cx tarsalis	50	7/18/2007	7/25/2007	Bakersfield	WN
Kern	KERN0029	255	Cx tarsalis	50	7/18/2007	7/25/2007	Lamont	WN
Kern	KERN0029	256	Cx quinquefasciatus	50	7/18/2007	7/25/2007	Lamont	WN
Kern	KERN0031	257	Cx tarsalis	50	7/18/2007	7/25/2007	Arvin	WN
Kern	KERN0031	258	Cx tarsalis	50	7/18/2007	7/25/2007	Arvin	WN
Kern	KERN0031	259	Cx tarsalis	50	7/18/2007	7/25/2007	Arvin	WN
Kern	KERN0032	264	Cx tarsalis	50	7/18/2007	7/25/2007	Arvin	WN
Kern	KERN0032	265	Cx tarsalis	50	7/18/2007	7/25/2007	Arvin	WN
Kern	KERN0033	268	Cx tarsalis	50	7/18/2007	7/25/2007	Arvin	WN
Kern	KERN0083	260	Cx tarsalis	50	7/18/2007	7/25/2007	Arvin	WN
Kern	KERN0083	261	Cx tarsalis	50	7/18/2007	7/25/2007	Arvin	WN
Kern	KERN0083	262	Cx tarsalis	50	7/18/2007	7/25/2007	Arvin	WN
Kern	KERN0105	243	Cx tarsalis	50	7/17/2007	7/26/2007	Pumpkin Center	WEE
Kern	KERN0105	246	Cx quinquefasciatus	50	7/17/2007	7/25/2007	Pumpkin Center	WN
Kern	KERN2001	273	Cx quinquefasciatus	44	7/20/2007	7/25/2007	Bakersfield	WN
Kern	KERN2010	276	Cx quinquefasciatus	50	7/20/2007	7/25/2007	Bakersfield	WN
Kern	KERN2020	279	Cx quinquefasciatus	32	7/20/2007	7/25/2007	Bakersfield	WN
Kings	KNGS4003	78	Cx quinquefasciatus	50	7/18/2007	7/26/2007	Hanford	WN
Kings	KNGS4003	79	Cx quinquefasciatus	50	7/18/2007	7/27/2007	Hanford	WN
Kings	KNGS4003	80	Cx tarsalis	50	7/18/2007	7/26/2007	Hanford	WN
Kings	KNGS4003	81	Cx tarsalis	50	7/18/2007	7/26/2007	Hanford	WN
Kings	KNGS4003	86	Cx tarsalis	50	7/19/2007	7/26/2007	Hanford	WN
Kings	KNGS4003	89	Cx tarsalis	50	7/20/2007	7/26/2007	Hanford	WN
Kings	KNGS4003	91	Cx quinquefasciatus	50	7/20/2007	7/26/2007	Hanford	WN
Kings	KNGS4003	94	Cx quinquefasciatus	50	7/20/2007	7/26/2007	Hanford	WN
Kings	KNGS4003	97	Cx tarsalis	50	7/20/2007	7/27/2007	Hanford	WN
Lake	LAKE1004	126	Cx tarsalis	50	7/24/2007	7/26/2007	Upper Lake	WN
Lake	LAKE2002	133	Cx tarsalis	21	7/24/2007	7/26/2007	Lower Lake	WN
Los Angeles	GRLA2672	5592	Cx quinquefasciatus	49	7/20/2007	7/26/2007	Granada Hills	WN
Placer	PLCR0025	147	Cx tarsalis	50	7/20/2007	7/25/2007	Lincoln	WN

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Placer	PLCR0058	130	Cx tarsalis	50	7/20/2007	7/25/2007	Sheridan	WN
Placer	PLCR0411	123	Cx tarsalis	50	7/19/2007	7/25/2007	Roseville	WN
Riverside	NWST0010	7116	Cx tarsalis	28	7/10/2007	7/24/2007	Riverside	WN
Sacramento	SAYO2107	2880	Cx pipiens	9	7/20/2007	7/26/2007	Citrus Heights	WN
Sacramento	SAYO2119	3018	Cx pipiens	50	7/24/2007	7/26/2007	Citrus Heights	WN
Sacramento	SAYO2208	3087	Cx tarsalis	50	7/24/2007	7/26/2007	Wilton	WN
Sacramento	SAYO2211	3181	Cx pipiens	36	7/24/2007	7/26/2007	Sacramento	WN
Sacramento	SAYO2213	2942	Cx pipiens	3	7/20/2007	7/26/2007	Elk Grove	WN
Sacramento	SAYO4116	3295	Cx pipiens	2	7/26/2007	7/26/2007	Elverta	WN
Sacramento	SAYO4121	2903	Cx pipiens	19	7/20/2007	7/26/2007	Antelope	WN
Sacramento	SAYO4121	3228	Cx pipiens	30	7/25/2007	7/26/2007	Antelope	WN
Sacramento	SAYO4122	2876	Cx pipiens	28	7/20/2007	7/26/2007	Antelope	WN
Sacramento	SAYO4124	2921	Cx pipiens	20	7/20/2007	7/26/2007	North Highlands	WN
Sacramento	SAYO4126	3334	Cx tarsalis	8	7/26/2007	7/26/2007	Antelope	WN
Sacramento	SAYO4127	2865	Cx tarsalis	50	7/20/2007	7/26/2007	Rio Linda	WN
Sacramento	SAYO4127	3016	Cx pipiens	46	7/24/2007	7/26/2007	Rio Linda	WN
Sacramento	SAYO4127	3278	Cx pipiens	29	7/25/2007	7/26/2007	Rio Linda	WN
Sacramento	SAYO4127	3281	Cx pipiens	34	7/26/2007	7/26/2007	Rio Linda	WN
Sacramento	SAYO4128	3008	Cx pipiens	4	7/24/2007	7/26/2007	Sacramento	WN
Sacramento	SAYO4128	3009	Cx tarsalis	2	7/24/2007	7/26/2007	Sacramento	WN
Sacramento	SAYO4129	2969	Cx tarsalis	2	7/24/2007	7/26/2007	North Highlands	WN
Sacramento	SAYO4131	3231	Cx pipiens	23	7/25/2007	7/26/2007	Orangevale	WN
Sacramento	SAYO4135	2885	Cx pipiens	46	7/20/2007	7/26/2007	Citrus Heights	WN
Sacramento	SAYO4135	3288	Cs incidens	3	7/26/2007	7/26/2007	Citrus Heights	WN
Sacramento	SAYO4136	3011	Cx pipiens	22	7/24/2007	7/26/2007	Fair Oaks	WN
Sacramento	SAYO4162	3051	Cx pipiens	39	7/24/2007	7/26/2007	Sacramento	WN
Sacramento	SAYO4163	3314	Cx tarsalis	15	7/26/2007	7/26/2007	Rio Linda	WN
Sacramento	SAYO4178	3241	Cx pipiens	24	7/25/2007	7/26/2007	Citrus Heights	WN
Sacramento	SAYO4178	3242	Cx tarsalis	9	7/25/2007	7/26/2007	Citrus Heights	WN
Sacramento	SAYO4250	2808	Cx tarsalis	50	7/18/2007	7/26/2007	Sacramento	WN
Sacramento	SAYO4309	3030	Cx tarsalis	50	7/24/2007	7/26/2007	Hood	WN
Sacramento	SAYO7005	3037	Cx tarsalis	2	7/24/2007	7/26/2007	Rancho Cordova	WN
Sacramento	SAYO7006	3046	Cx pipiens	6	7/24/2007	7/26/2007	Sacramento	WN
San Joaquin	SJCM8021	1012	Cx pipiens	50	7/24/2007	7/26/2007	Lodi	WN
San Joaquin	SJCM8029	1047	Cx pipiens	50	7/24/2007	7/26/2007	Farmington	WN
San Joaquin	SJCM8034	1010	Cx tarsalis	26	7/24/2007	7/26/2007	Lodi	WN
San Joaquin	SJCM8037	965	Cx tarsalis	50	7/24/2007	7/26/2007	Lathrop	WN
San Joaquin	SJCM8076	1072	Cx pipiens	22	7/26/2007	7/26/2007	Stockton	WN
San Joaquin	SJCM8083	990	Cx pipiens	50	7/24/2007	7/26/2007	Escalon	WN
San Joaquin	SJCM8110	1025	Cx pipiens	50	7/24/2007	7/26/2007	Lodi	WN
Santa Clara	STCL	49	Cx pipiens	9	7/13/2007	7/13/2007	San Jose	WN
Santa Clara	STCL	76	Cx pipiens	3	7/19/2007	7/19/2007	Campbell	WN
Santa Clara	STCL	83	Cx pipiens	11	7/25/2007	7/25/2007	Los Gatos	WN
Santa Clara	STCL	89	Cx pipiens	4	7/25/2007	7/25/2007	Los Gatos	WN
Stanislaus	EAST1058	70118	Cx pipiens	50	7/17/2007	7/24/2007	Salida	WN
Stanislaus	TRLK0714	854	Cx pipiens	30	7/24/2007	7/26/2007	Denair	WN
Sutter	SUYA0022	204	Cx tarsalis	37	7/23/2007	7/26/2007	Tudor	WN
Sutter	SUYA0063	206	Cx tarsalis	50	7/23/2007	7/27/2007	Pennington	WN
Yolo	DAVI5113	231	Cx tarsalis	50	7/24/2007	7/26/2007	Davis	WN
Yolo	SAYO3346	3207	Cx tarsalis	50	7/24/2007	7/26/2007	Davis	WN

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Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02
Glenn	GLEN9701	Willows	7/23/2007	WN	1668	1669
Kern	KERN0104	Old River	7/24/2007	WEE	1804	
Kern	KERN0105	Pumpkin Center	7/9/2007	WN	1813	1815
Kings	KNGS2001	Hanford	7/18/2007	WN	1935	
Sacramento	SAYO7002	Hood	7/23/2007	WN	2629	
Yolo	SAYO6003	Winters	7/23/2007	WN	2672	
Yolo	SAYO6003	Winters	7/23/2007	WN	2674	

NATIONAL COMMENTS

As of July 24, 2007, WNV activity had been reported from 35 states. A total of 122 human cases had been reported in Alabama (2), Arizona (7), Arkansas (1), California (27), Colorado (6), Idaho (4), Illinois (3), Iowa (2), Kansas (2), Minnesota (3), Mississippi (8), Nebraska (2), Nevada (1), North Dakota (14), South Dakota (28), Texas (2), Utah (2), Virginia (1), and Wyoming (7). Of the 122 cases reported, 42 (34%) 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 56% were male. Three human fatalities had been reported from Alabama, California and Mississippi.

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