

# California Arbovirus Surveillance Bulletin # 27

Week 34 Monday, August 30, 2010

## Weekly Summary

### WEEKLY COMMENTS



#### **Humans**

Five new human cases of West Nile virus (WNV) were reported last week from the following 2 counties: Fresno (4) and Tulare (1). In addition, one asymptomatic WNV infection in a blood donor from Madera County was reported last week. To date this year, 27 WNV cases have been reported from 8 counties. Of the 27 individuals, 15 (56%) developed neuroinvasive disease. The median age of the 27 individuals is 53 years (range: 17-67 years) and 11 (41%) are male. No fatalities have been reported. At this time last year, 19 human cases had been reported from 8 counties.

#### **Horses**

Four horse cases were reported last week from Madera (1), Sacramento (1), Stanislaus (1), and Tulare (1) counties; 2 were euthanized as a result of their illness. In 2010, a total of 8 horses from 5 counties have tested positive for WNV infection and 3 fatalities have been reported. At this time last year, 4 horse cases of WNV had been reported from 3 counties.

#### **Dead Birds & Squirrels**

Twenty eight recently-infected\* WNV positive dead birds were reported last week from the following 12 counties: Contra Costa (1), Kern (2), Los Angeles (5), Madera (3), Orange (1), Placer (1), Sacramento (8), San Bernardino (1), San Diego (1), San Joaquin (1), Stanislaus (1), and Tulare (3). An additional 2 birds from 2 counties tested positive for chronic infection with WNV. No positive tree squirrels were reported last week.

In 2010, 260 recently-infected\* WNV positive dead birds have been reported from 22 counties, and 11 WNV positive squirrels have been reported from 7 counties. An additional 111 chronic WNV infections have been detected in birds from 23 counties (see [www.westnile.ca.gov](http://www.westnile.ca.gov) for more details). At this time last year, 354 birds from 33 counties and 4 tree squirrels from 4 counties had tested positive for WNV. Year-to-date totals from last year and previous years include both recent and chronic infections.

*\*In 2010, The University of California, Center for Vectorborne Diseases (CVEC) and the California Department of Public Health, Vector-Borne Disease Section began differentiating between chronic and acute infections in West Nile virus positive dead birds. Birds considered to have chronic infection with WNV are unlikely to have been infected recently with WNV and have limited surveillance utility.*

#### **Mosquito Pools**

Last week, 135 WNV positive mosquito pools were reported from the following 16 counties: Butte (1), Fresno (9), Kern (35), Kings (10), Los Angeles (6), Madera (2), Orange (1), Placer (8), Riverside (1), Sacramento (13), San Bernardino (8), San Joaquin (13), Stanislaus (4), Sutter (3), Tulare (20), and Yuba (1). In 2010, 919 mosquito pools from 23 counties have tested positive for WNV. At this time last year, 744 WNV positive mosquito pools had been reported from 24 counties.

#### **Sentinel Chickens**

Last week, 15 WNV seroconversions were reported from 9 flocks located in Butte (1), Colusa (1), Los Angeles (1), Stanislaus (5), Sutter (5), Tulare (1), and Yuba (1) counties. These are the first WNV positive chickens detected in Butte and Yuba counties this year. In 2010, 93 WNV positive chickens have been detected among 28 flocks from 14 counties. At this time last year, 139 WNV positive chickens from 17 counties had been reported.

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2009 & 2010 YTD West Nile Virus Comparisons		
	2009	2010
Total # Dead Bird Reports	12,380	8,152
# Positive Counties	38	28
# Human Cases	19	27
# Horse Cases	4	8
# Positive Dead Birds / # Tested	354 / 2,114	260 / 1,608
# Positive Mosquito Pools / # Tested	744 / 18,380	919 / 20,955
# Seroconversions / # Tested	139 / 17,132	93 / 17,415
# Positive Squirrels / # Tested	4 / 69	11 / 70

## YTD WNV Activity by Element and County, 2010

County	Humans	Horses	Dead Birds <sup>^</sup>	Mosquito Pools	Sentinel Chickens	Squirrels
Butte	1		2	4	1	1
Colusa			1		3	
Contra Costa			4	1		
Fresno	8		14	103	3	2
Glenn			2			
Imperial				10	10	
Kern	2		11	193	23	
Kings				44		
Lake				1		
Los Angeles			17	31	2	1
Madera	3	3	10	8	1	
Merced			10	5		
Orange			6	10		
Placer			4	30		
Riverside				52	24	
Sacramento	3	2	83	165	3	2
San Bernardino	1		2	26	4	1
San Diego			2	1		
San Joaquin		1	22	32		
San Mateo						1
Santa Clara			23	10		3
Santa Cruz			4			
Shasta			2			
Stanislaus	7	1	23	34	7	
Sutter			1	22	8	
Tulare	2	1	12	133	3	
Yolo			5	2		
Yuba				2	1	
<b>Totals</b>	<b>27</b>	<b>8</b>	<b>260</b>	<b>919</b>	<b>93</b>	<b>11</b>

<sup>^</sup> Chronic infections are not included in county totals.

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## TEST SUMMARIES

### Human & Horse Cases

		Number Tested	WNV		WEE		SLE	
			Local	Imported	Local	Imported	Local	Imported
Humans Tested*	Week	8	5	0	0	0	0	0
	YTD	467	27	0	0	0	0	0
Horses Tested	Week	14	4	0	0	0	0	0
	YTD	124	8	0	0	0	0	0

### Dead Birds & Tree Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	89	28
	YTD	1,608	260
Tree Squirrels	Week	5	0
	YTD	70	11

### Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	SLE Positive	WEE Positive
Chicken Sera	Week	677	15	0	0
	YTD	17,415	93	0	0
Mosquito Pools: RT-PCR	Week	1,408	135	0	0
	YTD	20,235	902	0	0
Mosquito Pools: RAMP	Week	22	0	N/A	N/A
	YTD	720	17	N/A	N/A

## NEW POSITIVES

### Humans

WNV Cases							
ID	Report Date	County <sup>1</sup>	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
10-0023	08/23/10	Fresno	53	F	WNF	08/01/10	NO
10-0024	08/24/10	Fresno	47	F	WNF	08/01/10	NO
10-0025	08/24/10	Fresno	53	F	WNND	08/04/10	NO
10-0026	08/24/10	Fresno	17	F	WNND	08/02/10	NO
10-0027	08/26/10	Tulare	38	M	WNND	08/08/10	NO
Presumptively Viremic Blood Donors (Asymptomatic Infections)							
BD10-0007	08/23/10	Madera	56	F			

<sup>1</sup>County of residence

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## Dead Birds & Squirrels

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Contra Costa	Contra Costa MVCD	Brentwood	94513	Western Scrub-Jay	8/9/2010	WNV	Recent	RT-PCR
Kern	Kern MVCD	Shafter	93263	Western Scrub-Jay	8/10/2010	WNV	Recent	RT-PCR
Kern	Kern MVCD	Bakersfield	93308	American Crow	8/12/2010	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - SFS	Norwalk	90650	American Crow	8/16/2010	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - Sylmar	Encino	91316	American Crow	8/12/2010	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Vet	Irwindale	91706	American Crow	8/12/2010	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Vet	Covina	91723	American Crow	8/13/2010	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Vet	El Monte	91731	American Crow	8/15/2010	WNV	Recent	RT-PCR
Madera	Madera Co MVCD	Madera	93636	American Robin	8/10/2010	WNV	Recent	RT-PCR
Madera	Madera Co MVCD	Madera	93637	American Crow	8/10/2010	WNV	Recent	RT-PCR
Madera	Madera Co MVCD	Madera	93637	Yellow-billed Magpie	8/11/2010	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Fountain Valley	92708	American Crow	8/13/2010	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95661	Western Scrub-Jay	8/13/2010	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	House Finch	8/11/2010	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Gold River	95670	Western Scrub-Jay	8/16/2010	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95811	American Crow	8/16/2010	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95819	American Crow	8/15/2010	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95819	American Crow	8/16/2010	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95811	American Crow	8/16/2010	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95670	Yellow-billed Magpie	8/19/2010	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Western Scrub-Jay	8/19/2010	WNV	Recent	RT-PCR
San Bernardino	San Bernardino VCP	Fontana	92335	American Crow	8/3/2010	WNV	Recent	RT-PCR
San Bernardino	San Bernardino VCP	Colton	92324	American White Pelican	8/12/2010	WNV	Chronic	RT-PCR
San Diego	San Diego Co VCP	Pine Valley	91962	Steller's Jay	8/17/2010	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95212	Western Scrub-Jay	8/11/2010	WNV	Recent	RT-PCR
Shasta	Burney Basin MAD	Fall River Mills	96028	Chipping Sparrow	8/13/2010	WNV	Chronic	RT-PCR
Stanislaus	Turlock MAD	Patterson	95363	American Crow	8/17/2010	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93277	Western Scrub-Jay	8/16/2010	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93291	American Crow	8/16/2010	WNV	Recent	RT-PCR
Tulare	Tulare MAD	Porterville	93257	House Sparrow	8/12/2010	WNV	Recent	RT-PCR

## Mosquitoes

County	Site Code	Pool #	Species	# in Pool	Collected	City	Virus	Method
Butte	BUCO0	59	Unknown	50	8/20/2010	Oroville	WNV	RTPCR
Fresno	CNSL1580	543	Culex quinquefasciatus	25	8/19/2010	Fresno	WNV	RTPCR
Fresno	CNSL1749	547	Culex quinquefasciatus	12	8/19/2010	Fresno	WNV	RTPCR
Fresno	CNSL2140	613	Culex tarsalis	50	8/18/2010	Sanger	WNV	RTPCR
Fresno	CNSL3020	616	Culex quinquefasciatus	50	8/20/2010	Reedley	WNV	RTPCR
Fresno	CNSL3055	619	Culex stigmatosoma	46	8/20/2010	Reedley	WNV	RTPCR
Fresno	CNSL3056	618	Culex quinquefasciatus	50	8/20/2010	Reedley	WNV	RTPCR
Fresno	CNSL3097	617	Culex quinquefasciatus	50	8/20/2010	Reedley	WNV	RTPCR
Fresno	CNSL6173	622	Culex quinquefasciatus	50	8/24/2010	Riverdale	WNV	RTPCR
Fresno	FRWS5302	127	Culex quinquefasciatus	50	8/24/2010	Helm	WNV	RTPCR
Kern	KERN115	891	Culex tarsalis	50	8/17/2010	Bakersfield	WNV	RTPCR
Kern	KERN115	892	Culex tarsalis	50	8/17/2010	Bakersfield	WNV	RTPCR
Kern	KERN2005	899	Culex quinquefasciatus	42	8/17/2010	Bakersfield	WNV	RTPCR
Kern	KERN2010	966	Culex quinquefasciatus	31	8/20/2010	Bakersfield	WNV	RTPCR
Kern	KERN2018	933	Culex quinquefasciatus	49	8/18/2010	Bakersfield	WNV	RTPCR
Kern	KERN2021	953	Culex quinquefasciatus	50	8/19/2010	Wasco	WNV	RTPCR
Kern	KERN2022	954	Culex quinquefasciatus	24	8/19/2010	Shafter	WNV	RTPCR
Kern	KERN2028	960	Culex quinquefasciatus	50	8/20/2010	Bakersfield	WNV	RTPCR

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Kern	KERN2028	961	Culex quinquefasciatus	50	8/20/2010	Bakersfield	WNV	RTPCR
Kern	KERN2040	934	Culex quinquefasciatus	35	8/18/2010	Arvin	WNV	RTPCR
Kern	KERN2049	935	Culex quinquefasciatus	50	8/18/2010	Lamont	WNV	RTPCR
Kern	KERN28	931	Culex quinquefasciatus	50	8/18/2010	Bakersfield	WNV	RTPCR
Kern	KERN29	922	Culex quinquefasciatus	50	8/18/2010	Lamont	WNV	RTPCR
Kern	KERN29	924	Culex quinquefasciatus	50	8/18/2010	Lamont	WNV	RTPCR
Kern	KERN3004	926	Culex quinquefasciatus	50	8/18/2010	Bakersfield	WNV	RTPCR
Kern	KERN3014	894	Culex tarsalis	50	8/17/2010	Bakersfield	WNV	RTPCR
Kern	KERN3019	955	Culex quinquefasciatus	50	8/20/2010	Bakersfield	WNV	RTPCR
Kern	KERN3022	949	Culex tarsalis	50	8/19/2010	Wasco	WNV	RTPCR
Kern	KERN3025	904	Culex quinquefasciatus	50	8/17/2010	Bakersfield93313	WNV	RTPCR
Kern	KERN3027	905	Culex quinquefasciatus	50	8/17/2010	Arvin	WNV	RTPCR
Kern	KERN3027	906	Culex quinquefasciatus	50	8/17/2010	Arvin	WNV	RTPCR
Kern	KERN3027	907	Culex tarsalis	50	8/17/2010	Arvin	WNV	RTPCR
Kern	KERN3028	930	Culex quinquefasciatus	50	8/18/2010	Bakersfield	WNV	RTPCR
Kern	KERN3030	946	Culex quinquefasciatus	50	8/19/2010	Shafter	WNV	RTPCR
Kern	KERN3031	895	Culex quinquefasciatus	50	8/17/2010	Shafter	WNV	RTPCR
Kern	KERN3031	896	Culex quinquefasciatus	50	8/17/2010	Shafter	WNV	RTPCR
Kern	KERN31	939	Culex tarsalis	50	8/18/2010	Arvin	WNV	RTPCR
Kern	KERN31	940	Culex tarsalis	50	8/18/2010	Arvin	WNV	RTPCR
Kern	KERN33	942	Culex quinquefasciatus	50	8/18/2010	Arvin	WNV	RTPCR
Kern	KERN36	911	Culex tarsalis	50	8/17/2010	Bakersfield	WNV	RTPCR
Kern	KERN42	909	Culex quinquefasciatus	50	8/17/2010	Bakersfield	WNV	RTPCR
Kern	KERN43	951	Culex quinquefasciatus	50	8/19/2010	Shafter	WNV	RTPCR
Kern	KERN60	914	Culex tarsalis	36	8/17/2010	Bakersfield	WNV	RTPCR
Kern	KERN83	941	Culex tarsalis	50	8/18/2010	Arvin	WNV	RTPCR
Kern	KERN9	956	Culex quinquefasciatus	45	8/20/2010	Bakersfield	WNV	RTPCR
Kings	CNSL5087	615	Culex quinquefasciatus	43	8/19/2010	Kingsburg	WNV	RTPCR
Kings	KNGS3005	547	Culex pipiens	38	8/20/2010	Lemoore NAS	WNV	RTPCR
Kings	KNGS3025	577	Culex tarsalis	27	8/25/2010	Hanford	WNV	RTPCR
Kings	KNGS3025	578	Culex pipiens	50	8/25/2010	Hanford	WNV	RTPCR
Kings	KNGS3025	579	Culex pipiens	50	8/25/2010	Hanford	WNV	RTPCR
Kings	KNGS3025	582	Culex pipiens	39	8/25/2010	Hanford	WNV	RTPCR
Kings	KNGS3033	526	Culex tarsalis	9	8/20/2010	Hanford	WNV	RTPCR
Kings	KNGS3038	534	Culex tarsalis	50	8/20/2010	Stratford	WNV	RTPCR
Kings	KNGS3051	544	Culex tarsalis	50	8/20/2010	Lemoore	WNV	RTPCR
Kings	KNGS3057	517	Culex tarsalis	50	8/19/2010	Hanford	WNV	RTPCR
Los Angeles	GRLA2450	6190	Culex stigmatosoma	36	8/17/2010	Glendale	WNV	RTPCR
Los Angeles	GRLA2549	6226	Culex quinquefasciatus	22	8/20/2010	Granada Hills	WNV	RTPCR
Los Angeles	GRLA2953	1368	Culex quinquefasciatus	50	8/17/2010	Santa Fe Springs	WNV	RTPCR
Los Angeles	GRLA3049	1342	Culex quinquefasciatus	50	8/17/2010	Downey	WNV	RTPCR
Los Angeles	GRLA3052	1375	Culex quinquefasciatus	50	8/19/2010	La Habra Heights	WNV	RTPCR
Los Angeles	GRLA3052	1376	Culex quinquefasciatus	50	8/19/2010	La Habra Heights	WNV	RTPCR
Madera	MADR1056	55	Culex quinquefasciatus	50	8/12/2010	Chowchilla	WNV	RTPCR
Madera	MADR1056	57	Culex quinquefasciatus	50	8/12/2010	Chowchilla	WNV	RTPCR
Orange	ORCO170	1338	Culex quinquefasciatus	10	8/12/2010	Anaheim	WNV	RTPCR
Placer	PLCR1003	615	Culex tarsalis	50	8/24/2010	Lincoln	WNV	RTPCR
Placer	PLCR139	557	Culex tarsalis	50	8/19/2010	ROSEVILLE	WNV	RTPCR
Placer	PLCR25	645	Culex tarsalis	50	8/24/2010	Lincoln	WNV	RTPCR
Placer	PLCR58	585	Culex tarsalis	50	8/24/2010	LINCOLN	WNV	RTPCR
Placer	PLCR58	587	Culex tarsalis	50	8/24/2010	LINCOLN	WNV	RTPCR
Placer	PLCR58	606	Culex tarsalis	50	8/24/2010	LINCOLN	WNV	RTPCR
Placer	PLCR58	607	Culex tarsalis	50	8/24/2010	LINCOLN	WNV	RTPCR
Placer	PLCR58	609	Culex tarsalis	35	8/24/2010	LINCOLN	WNV	RTPCR
Riverside	NWST99	10171	Culex quinquefasciatus	19	8/12/2010	Norco	WNV	RTPCR
Sacramento	SAYO203001	4432	Culex tarsalis	50	8/24/2010	Elverta	WNV	RTPCR
Sacramento	SAYO203001	4437	Culex pipiens	5	8/24/2010	Elverta	WNV	RTPCR
Sacramento	SAYO213009	4365	Culex tarsalis	3	8/24/2010	Sacramento	WNV	RTPCR
Sacramento	SAYO214007	4274	Culex pipiens	10	8/20/2010	Rancho Cordova	WNV	RTPCR
Sacramento	SAYO224005	4354	Culex tarsalis	17	8/24/2010	Rancho Cordova	WNV	RTPCR
Sacramento	SAYO233001	4249	Culex tarsalis	10	8/20/2010	Elk Grove	WNV	RTPCR

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Sacramento	SAYO233010	4345	Culex tarsalis	50	8/24/2010	Sacramento	WNV	RTPCR
Sacramento	SAYO233011	4315	Culex pipiens	30	8/24/2010	Elk Grove	WNV	RTPCR
Sacramento	SAYO233018	4269	Culex tarsalis	13	8/20/2010	Sacramento	WNV	RTPCR
Sacramento	SAYO233029	4329	Culex pipiens	50	8/24/2010	Elk Grove	WNV	RTPCR
Sacramento	SAYO245002	4324	Culex tarsalis	27	8/24/2010	Wilton	WNV	RTPCR
Sacramento	SAYO245004	4247	Culex tarsalis	41	8/20/2010	Wilton	WNV	RTPCR
Sacramento	SAYO245004	4248	Culex pipiens	11	8/20/2010	Wilton	WNV	RTPCR
San Bernardino	SANB2	417	Culex quinquefasciatus	5	8/11/2010	Redlands	WNV	RTPCR
San Bernardino	SANB7	394	Culex tarsalis	14	8/4/2010	Fontana	WNV	RTPCR
San Bernardino	SANB7	395	Culex quinquefasciatus	36	8/4/2010	Fontana	WNV	RTPCR
San Bernardino	SANB7	440	Culex quinquefasciatus	50	8/11/2010	Fontana	WNV	RTPCR
San Bernardino	SANB7	442	Culex tarsalis	26	8/11/2010	Fontana	WNV	RTPCR
San Bernardino	SANB7	476	Culex quinquefasciatus	50	8/18/2010	Fontana	WNV	RTPCR
San Bernardino	WVAL2020	789	Culex quinquefasciatus	36	8/23/2010	Fwy CA 71	WNV	RTPCR
San Bernardino	WVAL5011	772	Culex quinquefasciatus	21	8/23/2010	Fwy I-15	WNV	RTPCR
San Joaquin	SJCM8010	513	Culex tarsalis	48	8/24/2010	Ripon	WNV	RTPCR
San Joaquin	SJCM8076	572	Culex pipiens	16	8/24/2010	Stockton	WNV	RTPCR
San Joaquin	SJCM8077	575	Culex pipiens	19	8/24/2010	Stockton	WNV	RTPCR
San Joaquin	SJCM8079	543	Culex pipiens	21	8/24/2010	Manteca	WNV	RTPCR
San Joaquin	SJCM8083	511	Culex pipiens	45	8/18/2010	Escalon	WNV	RTPCR
San Joaquin	SJCM8083	584	Culex pipiens	50	8/25/2010	Escalon	WNV	RTPCR
San Joaquin	SJCM8083	585	Culex pipiens	50	8/25/2010	Escalon	WNV	RTPCR
San Joaquin	SJCM8157	567	Culex pipiens	29	8/24/2010	Manteca	WNV	RTPCR
San Joaquin	SJCM8161	527	Culex pipiens	50	8/24/2010	Ripon	WNV	RTPCR
San Joaquin	SJCM8185	550	Culex pipiens	49	8/24/2010	Manteca	WNV	RTPCR
San Joaquin	SJCM99	111148	Culex tarsalis	18	8/18/2010	manteca	WNV	RTPCR
San Joaquin	SJCM9906	578	Culex pipiens	50	8/24/2010	French Camp	WNV	RTPCR
San Joaquin	SJCM9906	580	Culex tarsalis	50	8/24/2010	French Camp	WNV	RTPCR
Stanislaus	TRLK305	637	Culex pipiens	32	8/24/2010	Grayson	WNV	RTPCR
Stanislaus	TRLK9768	628	Culex tarsalis	50	8/24/2010	Grayson	WNV	RTPCR
Stanislaus	TRLK9769	623	Culex tarsalis	50	8/24/2010	Grayson	WNV	RTPCR
Stanislaus	TRLK9769	624	Culex tarsalis	50	8/24/2010	Grayson	WNV	RTPCR
Sutter	SUYA22	301	Culex tarsalis	47	8/16/2010	Tudor	WNV	RTPCR
Sutter	SUYA31	327	Culex tarsalis	47	8/24/2010	Rio Oso	WNV	RTPCR
Sutter	SUYA84	309	Culex pipiens	45	8/18/2010	Yuba City	WNV	RTPCR
Tulare	DLTA6532	856	Culex quinquefasciatus	50	8/24/2010	Culter	WNV	RTPCR
Tulare	DLTA7527	858	Culex quinquefasciatus	50	8/24/2010	Visalia	WNV	RTPCR
Tulare	DLTA7527	859	Culex quinquefasciatus	50	8/24/2010	Visalia	WNV	RTPCR
Tulare	DLTA7527	863	Culex quinquefasciatus	50	8/24/2010	Visalia	WNV	RTPCR
Tulare	DLTA7527	868	Culex quinquefasciatus	50	8/24/2010	Visalia	WNV	RTPCR
Tulare	DLTA7528	852	Culex quinquefasciatus	50	8/24/2010	Ivanhoe	WNV	RTPCR
Tulare	DLTA7529	844	Culex quinquefasciatus	50	8/24/2010	Visalia	WNV	RTPCR
Tulare	DLTA7529	845	Culex quinquefasciatus	50	8/24/2010	Visalia	WNV	RTPCR
Tulare	DLTA8424	830	Culex quinquefasciatus	41	8/24/2010	Visalia	WNV	RTPCR
Tulare	DLTA8424	831	Culex quinquefasciatus	43	8/24/2010	Visalia	WNV	RTPCR
Tulare	DLTA8424	832	Culex quinquefasciatus	40	8/24/2010	Visalia	WNV	RTPCR
Tulare	DLTA8424	833	Culex quinquefasciatus	41	8/24/2010	Visalia	WNV	RTPCR
Tulare	DLTA8424	834	Culex quinquefasciatus	29	8/24/2010	Visalia	WNV	RTPCR
Tulare	DLTA8501	809	Culex quinquefasciatus	50	8/19/2010	Ivanhoe	WNV	RTPCR
Tulare	DLTA8511	818	Culex quinquefasciatus	50	8/19/2010	Ivanhoe	WNV	RTPCR
Tulare	DLTA8533	825	Culex quinquefasciatus	36	8/20/2010	Visalia	WNV	RTPCR
Tulare	DLTA8533	827	Culex quinquefasciatus	23	8/20/2010	Visalia	WNV	RTPCR
Tulare	DLTA9512	822	Culex quinquefasciatus	33	8/20/2010	Farmersville	WNV	RTPCR
Tulare	TLRE0	48	Unknown	50	8/13/2010	Tulare	WNV	RTPCR
Tulare	TLRE0	60	Unknown	50	8/26/2010	Tulare	WNV	RTPCR
Yuba	SUYA10	295	Culex pipiens	50	8/16/2010	Olivehurst	WNV	RTPCR

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## Sentinel Chickens

County	Site Code	Date Bled	Nearest City	Virus	Band 01	Band 02	Band 03	Band 04
Butte	BUCO0002	8/16/2010	Oroville	WNV	1119			
Colusa	CLSA0001	8/17/2010	Colusa	WNV	1403			
Los Angeles	SGVA0007	8/16/2010		WNV	2979			
Stanislaus	EAST1947	8/4/2010	Modesto	WNV	1570	1571	1572	1574
Stanislaus	TRLK9701	8/19/2010	Grayson	WNV	3411			
Sutter	SUYA0014	8/19/2010	Sutter	WNV	3321	3326	3328	
Sutter	SUYA0031	8/19/2010	Rio Oso	WNV	3292	3295		
Tulare	DLTA6309	8/10/2010	Reedley	WNV	1546			
Yuba	SUYA0010	8/19/2010	Olivehurst	WNV	3283			

## NATIONAL COMMENTS

As of August 24, 2010, 144 human cases of WNV had been reported nationwide in 21 states: Alabama (1), Arizona (54), California (22), Colorado (10), Florida (1), Georgia (4), Kansas (2), Louisiana (7), Maryland (2), Michigan (2), Minnesota (2), Mississippi (3), Missouri (1), Nebraska (8), New York (10), North Dakota (4), Ohio (1), Pennsylvania (1), South Dakota (5), Texas (3), and Wyoming (1). Of the 144 cases, 70 (49%) had neuroinvasive disease. Three WNV-related fatalities have been reported in Arizona.

## 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).

\*Human denominator data only includes specimens tested at VRDL and does not include additional negative specimens that are tested by local agencies only.

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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:**

Dead birds and tree 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 West Nile virus testing using the singleplex RT-PCR Taqman assay and confirmed with a second primer set. The WNV Dead Bird Surveillance Coordinator, Erin Parker, can be reached directly at (510) 412-6254.

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## **Sentinel Chickens:**

Dried blood spot specimens from sentinel chickens are submitted to the California Department of Public Health Vector-Borne Disease Laboratory and tested for the presence of antibodies to West Nile, 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), 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) 412-6253 or email: [tina.feiszli@cdph.ca.gov](mailto:tina.feiszli@cdph.ca.gov)*

*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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