

California Arbovirus Surveillance Bulletin # 22

Week 29 Friday, July 18, 2008

Weekly and Year-To-Date Summaries

WEEKLY COMMENTS



Humans

Three new West Nile virus (WNV) positive human cases were reported this week from Orange (2) and San Joaquin (1) counties. In 2008, six WNV human cases have been reported in Orange (2), San Joaquin (1), Stanislaus (2) and Tulare (1) counties. Four (67%) of the cases developed neuroinvasive symptoms; none have resulted in fatalities. In addition, 3 asymptomatic blood donors have been identified in Orange (2) and Stanislaus (1) counties.

Horses

No new equine cases were reported this week. In 2008, two WNV cases have been detected in horses from Riverside (1) and San Diego (1) counties.

Dead Birds & Tree Squirrels

One hundred and three new West Nile virus (WNV) positive dead birds were reported this week from the following counties: Amador (1), Butte (2), Contra Costa (4), Fresno (1), Los Angeles (9), Orange (32), Placer (1), Riverside (3), Sacramento (4), San Bernardino (6), San Diego (23), San Joaquin (5), Santa Clara (1), Stanislaus (6), and Tulare (5). **This is the first indication of WNV activity in Amador and Placer counties this year.** In 2008, 435 WNV positive dead birds have been detected in 25 counties.

Two new WNV positive tree squirrels were reported this week from Contra Costa County. In 2008, three WNV tree squirrels have been detected from Contra Costa (2) and San Bernardino (1) counties.

Mosquito Pools

One hundred and thirty seven new positive mosquito pools were reported this week from the following counties: Contra Costa (3), Fresno (5), Los Angeles (11), Orange (48), Placer (1), Riverside (13), Sacramento (13), San Bernardino (18), San Diego (3), San Joaquin (10), Stanislaus (2), Sutter (5), Tulare (3), Yolo (1) and Yuba (3). **This is the first indication of WNV activity in Yuba County this year.** In 2008, 292 WNV positive mosquito pools have been detected in 19 counties.

Sentinel Chickens

Two new seroconversions were reported this week from San Diego County. In 2008, eight WNV seroconversions have been detected in chickens from five counties.

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.

2007 & 2008 YTD West Nile Virus Comparisons		
	2007	2008
Total # Dead Bird Reports	15,806	16,699
# Positive Counties	26	28
# Human Cases/ # Tested	28 / 542	6 / 426
# Horse Cases/ # Tested	4 / 168	2 / 109
# Positive Dead Birds/ # Tested	355 / 2,631	435 / 2,542
# Positive Mosquito Pools/ # Tested	223 / 11,201	292 / 11,428
# Positive Chicken Sera/ # Tested	21 / 14,186	8 / 14,684
# Positive Squirrels/ # Tested	5 / 86	3 / 87

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County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Amador			1			
Butte			4			
Contra Costa			7	6		2
El Dorado			1			
Fresno			4	8		
Glenn			2			
Imperial				1	1	
Kern			3	3		
Los Angeles			62	35	2	
Monterey			1			
Nevada			3			
Orange	2		100	54		
Placer			1	1		
Riverside		1	9	35	2	
Sacramento			22	51		
San Bernardino			16	23	1	1
San Diego		1	94	4	2	
San Joaquin	1		30	47		
San Mateo			1			
Santa Clara			7	1		
Shasta			6			
Solano			3	1		
Stanislaus	2		17	4		
Sutter			2	6		
Tulare	1		38	10		
Ventura			1			
Yolo				1		
Yuba				1		
Totals	6	2	435	292	8	3

2008 TEST SUMMARIES

Human & Horse Cases

		Number Tested	WNV		WEE		SLE		Other	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested*	Week	26	0	3	0	0	0	0	0	0
	YTD	426	0	6	0	0	0	0	0	0
Horses Tested	Week	0	0	0	0	0	0	0	0	0
	YTD	109	0	2	0	0	0	0	0	0

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Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead Birds	Week	229	103
	YTD	2,542	435
Tree Squirrels	Week	2	2
	YTD	87	3

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive
Chicken Sera	Week	974	2	0	0
	YTD	14,684	8	0	0
Mosquito Pools: RT-PCR	Week	1,286	111	0	0
	YTD	10,523	225	0	0
Mosquito Pools: RAMP	Week	219	26	N/A	N/A
	YTD	905	67	N/A	N/A

POSITIVES: 7/14/08 – 7/18/08

Dead Birds and Tree Squirrels

County	City	Zip	Species	Reported	Tested	Test Method
Amador	Pioneer	95666	Black-headed Grosbeak	7/9/08	7/11/08	RT-PCR
Butte	Biggs	95917	American Crow	7/6/08	7/11/08	RT-PCR
Butte	Magalia	95954	Spotted Towhee	7/6/08	7/11/08	RT-PCR
Contra Costa	Antioch	94509	American Crow	7/11/08	7/11/08	RAMP
Contra Costa	Antioch	94509	American Crow	7/11/08	7/11/08	RAMP
Contra Costa	Antioch	94509	American Crow	7/11/08	7/11/08	RAMP
Contra Costa	Antioch	94509	Fox Squirrel	7/2/08	7/14/08	RT-PCR
Contra Costa	Antioch	94509	Fox Squirrel	7/3/08	7/14/08	RT-PCR
Contra Costa	Walnut Creek	94598	House Finch	7/2/08	7/11/08	RT-PCR
Fresno	Sanger	93657	House Finch	7/9/08	7/11/08	RT-PCR
Los Angeles	Azusa	91702	American Crow	7/7/08	7/11/08	RT-PCR
Los Angeles	La Mirada	90638	American Crow	7/9/08	7/9/08	VecTest
Los Angeles	Paramount	90723	American Crow	7/13/08	7/14/08	VecTest
Los Angeles	Pico Rivera	90660	American Crow	7/9/08	7/9/08	VecTest
Los Angeles	Santa Fe Springs	90670	American Crow	7/3/08	7/11/08	RT-PCR
Los Angeles	Temple City	91780	American Crow	7/9/08	7/11/08	RT-PCR
Los Angeles	Whittier	90603	House Finch	7/2/08	7/11/08	RT-PCR
Orange	Anaheim	92804	American Crow	6/26/08	6/26/08	RT-PCR
Orange	Anaheim	92805	American Crow	6/30/08	6/30/08	RT-PCR
Orange	Anaheim	92801	American Crow	6/30/08	6/30/08	RT-PCR
Orange	Anaheim	92801	American Crow	7/2/08	7/2/08	RT-PCR
Orange	Anaheim	92801	American Crow	7/3/08	7/3/08	RT-PCR
Orange	Anaheim	92805	American Crow	7/3/08	7/3/08	RT-PCR
Orange	Anaheim	92802	American Crow	7/3/08	7/3/08	RT-PCR
Orange	Anaheim	92801	American Crow	7/3/08	7/3/08	RT-PCR

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Orange	Anaheim	92806	American Crow	7/3/08	7/3/08	RT-PCR
Orange	Buena Park	90621	American Crow	6/30/08	6/30/08	RT-PCR
Orange	Capistrano Beach	92624	American Crow	7/1/08	7/1/08	RT-PCR
Orange	Fountain Valley	92708	American Crow	7/1/08	7/1/08	RT-PCR
Orange	Fountain Valley	92708	American Crow	7/1/08	7/1/08	RT-PCR
Orange	Fountain Valley	92708	American Crow	7/3/08	7/3/08	RT-PCR
Orange	Fullerton	92835	American Crow	6/26/08	6/26/08	RT-PCR
Orange	Fullerton	92835	American Crow	7/1/08	7/1/08	RT-PCR
Orange	Garden Grove	92843	American Crow	6/23/08	6/23/08	RT-PCR
Orange	Garden Grove	92843	House Finch	6/23/08	6/23/08	RT-PCR
Orange	Garden Grove	92844	Mourning Dove	7/2/08	7/2/08	RT-PCR
Orange	Garden Grove	92840	American Crow	7/3/08	7/3/08	RT-PCR
Orange	Irvine	92620	House Finch	7/1/08	7/1/08	RT-PCR
Orange	Laguna Hills	92637	Common Raven	7/1/08	7/1/08	RT-PCR
Orange	Orange	92868	Red-shouldered Hawk	6/19/08	6/19/08	RT-PCR
Orange	Orange	92868	American Crow	6/23/08	6/23/08	RT-PCR
Orange	Orange	92866	American Crow	6/26/08	6/26/08	RT-PCR
Orange	Orange	92866	American Crow	7/2/08	7/1/08	RT-PCR
Orange	Placentia	92870	American Crow	7/2/08	7/2/08	RT-PCR
Orange	Santa Ana	92701	House Finch	6/26/08	6/26/08	RT-PCR
Orange	Santa Ana	92701	American Crow	7/1/08	7/1/08	RT-PCR
Orange	Tustin	92782	American Crow	6/30/08	6/30/08	RT-PCR
Orange	Tustin	92780	American Crow	7/3/08	7/3/08	RT-PCR
Orange	Westminster	92683	American Crow	6/27/08	6/27/08	RT-PCR
Placer	Roseville	95661	Western Scrub-Jay	7/8/08	7/11/08	RT-PCR
Riverside	Corona	92881	House Finch	7/6/08	7/11/08	RT-PCR
Riverside	Norco	92860	American Crow	7/2/08	7/11/08	RT-PCR
Riverside	Norco	92860	American Crow	7/7/08	7/11/08	RT-PCR
Sacramento	Antelope	95843	Western Scrub-Jay	7/6/08	7/11/08	RT-PCR
Sacramento	Sacramento	95831	American Crow	7/6/08	7/11/08	RT-PCR
Sacramento	Sacramento	95831	American Crow	7/6/08	7/11/08	RT-PCR
Sacramento	Sacramento	95831	American Robin	7/8/08	7/11/08	RT-PCR
San Bernardino	Chino	91710	House Finch	7/7/08	7/11/08	RT-PCR
San Bernardino	Chino	91710	American Crow	7/9/08	7/9/08	VecTest
San Bernardino	Chino	91710	American Crow	7/11/08	7/11/08	VecTest
San Bernardino	Chino	91710	American Crow	7/11/08	7/11/08	VecTest
San Bernardino	Ontario	91762	House Finch	7/7/08	7/11/08	RT-PCR
San Bernardino	Ontario	91762	American Crow	7/9/08	7/9/08	VecTest
San Diego	Carlsbad	92010	American Crow	7/3/08	7/8/08	RT-PCR
San Diego	Del Mar	92014	American Crow	7/9/08	7/14/08	RT-PCR
San Diego	El Cajon	92019	American Crow	7/8/08	7/11/08	RT-PCR
San Diego	Lakeside	92040	American Crow	7/3/08	7/7/08	RT-PCR
San Diego	Oceanside	92057	American Crow	7/7/08	7/11/08	RT-PCR
San Diego	Oceanside	92057	American Crow	7/7/08	7/8/08	RT-PCR
San Diego	Oceanside	92058	American Crow	7/7/08	7/8/08	RT-PCR
San Diego	Oceanside	92054	American Crow	7/7/08	7/11/08	RT-PCR
San Diego	Oceanside	92057	American Crow	7/7/08	7/11/08	RT-PCR
San Diego	Oceanside	92054	Red-shouldered Hawk	7/7/08	7/8/08	RT-PCR
San Diego	Oceanside	92057	American Crow	7/8/08	7/11/08	RT-PCR
San Diego	Oceanside	92058	American Crow	7/9/08	7/14/08	RT-PCR

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San Diego	Ramona	92065	American Crow	7/7/08	7/11/08	RT-PCR
San Diego	Ramona	92065	American Crow	7/9/08	7/14/08	RT-PCR
San Diego	Rancho Santa Fe	92091	American Crow	7/3/08	7/7/08	RT-PCR
San Diego	San Diego	92115	American Crow	7/3/08	7/7/08	RT-PCR
San Diego	San Diego	92117	American Crow	7/7/08	7/8/08	RT-PCR
San Diego	San Diego	92126	American Crow	7/7/08	7/8/08	RT-PCR
San Diego	San Diego	92131	American Crow	7/7/08	7/11/08	RT-PCR
San Diego	San Diego	92131	American Crow	7/7/08	7/11/08	RT-PCR
San Diego	San Diego	92126	American Crow	7/9/08	7/14/08	RT-PCR
San Diego	San Diego	92131	American Crow	7/10/08	7/14/08	RT-PCR
San Diego	Vista	92081	American Crow	7/8/08	7/11/08	RT-PCR
San Joaquin	Manteca	95336	Brewer's Blackbird	7/11/08	7/10/08	VecTest
San Joaquin	Manteca	95337	Yellow-billed Magpie	7/11/08	7/10/08	RAMP
San Joaquin	Stockton	95209	House Wren	6/25/08	7/11/08	RT-PCR
San Joaquin	Stockton	95204	Western Scrub-Jay	7/6/08	7/11/08	RT-PCR
San Joaquin	Stockton	95204	House Sparrow	7/10/08	7/10/08	RAMP
San Joaquin	Stockton	95207	American Crow	7/10/08	7/10/08	VecTest
San Joaquin	Stockton	95204	American Crow	7/11/08	7/10/08	VecTest
Santa Clara	San Jose	95139	Red-shouldered Hawk	7/8/08	7/11/08	RT-PCR
Stanislaus	Modesto	95355	Western Scrub-Jay	7/6/08	7/11/08	RT-PCR
Stanislaus	Modesto	95358	Western Scrub-Jay	7/8/08	7/11/08	RT-PCR
Stanislaus	Modesto	95350	Western Scrub-Jay	7/9/08	7/11/08	RT-PCR
Stanislaus	Salida	95368	Western Scrub-Jay	7/9/08	7/11/08	RT-PCR
Stanislaus	Turlock	95380	American Crow	7/3/08	7/11/08	RT-PCR
Stanislaus	Turlock	95380	Yellow-billed Magpie	7/8/08	7/11/08	RT-PCR
Tulare	Tulare	93274	American Crow	7/3/08	7/11/08	RT-PCR
Tulare	Visalia	93292	Western Scrub-Jay	7/3/08	7/11/08	RT-PCR
Tulare	Visalia	93292	Western Scrub-Jay	7/7/08	7/11/08	RT-PCR
Tulare	Visalia	93277	House Finch	7/8/08	7/11/08	RT-PCR
Tulare	visalia	93292	Western Scrub-Jay	7/9/08	7/11/08	RT-PCR

Mosquito Pools

Site Code	Pool #	Species	# in Pool	Collected	Tested	City	County	Result
CNSL1368	143	Cx tarsalis	22	7/10/2008	7/17/2008	Clovis	Fresno	WNV
CNSL1488	144	Cx tarsalis	12	7/10/2008	7/17/2008	Clovis	Fresno	WNV
CNSL1514	126	Cx tarsalis	14	7/9/2008	7/16/2008	Clovis	Fresno	WNV
CNSL1516	123	Cx quinquefasciatus	50	7/9/2008	7/16/2008	Clovis	Fresno	WNV
CNSL2260	157	Cx quinquefasciatus	40	7/15/2008	7/17/2008	Sanger	Fresno	WNV
CNTR1507	161	Cx tarsalis	22	7/8/2008	7/8/2008	Antioch	Contra Costa	WNV
CNTR1523	182	Cx tarsalis	13	7/16/2008	7/16/2008	Antioch	Contra Costa	WNV
CNTR1559	160	Cx tarsalis	19	7/8/2008	7/8/2008	Antioch	Contra Costa	WNV
COAV0034	1293	Cx tarsalis	49	7/8/2008	7/17/2008	Mecca	Riverside	WNV
COAV0043	1346	Cx tarsalis	29	7/10/2008	7/17/2008	Mecca	Riverside	WNV
COAV0050	1342	Cx tarsalis	50	7/10/2008	7/17/2008	Mecca	Riverside	WNV
COAV0050	1343	Cx tarsalis	50	7/10/2008	7/17/2008	Mecca	Riverside	WNV
COAV0050	1344	Cx tarsalis	50	7/10/2008	7/17/2008	Mecca	Riverside	WNV
COAV0056	1332	Cx tarsalis	50	7/10/2008	7/17/2008	Mecca	Riverside	WNV
COAV0056	1333	Cx tarsalis	50	7/10/2008	7/17/2008	Mecca	Riverside	WNV
COAV0056	1335	Cx tarsalis	50	7/10/2008	7/17/2008	Mecca	Riverside	WNV

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DLTA1721	124	Cx quinquefasciatus	50	7/15/2008	7/17/2008	Porterville	Tulare	WNV
DLTA1721	125	Cx quinquefasciatus	32	7/15/2008	7/17/2008	Porterville	Tulare	WNV
DLTA8531	97	Cx quinquefasciatus	36	7/8/2008	7/16/2008	Visalia	Tulare	WNV
GRLA2221	592	Cx quinquefasciatus	20	7/8/2008	7/17/2008	Rowland Heights	Los Angeles	WNV
GRLA2228	591	Cx quinquefasciatus	32	7/8/2008	7/17/2008	Rowland Heights	Los Angeles	WNV
GRLA2414	5380	Cx quinquefasciatus	37	7/8/2008	7/17/2008	Granada Hills	Los Angeles	WNV
GRLA2416	5387	Cx quinquefasciatus	38	7/8/2008	7/17/2008	Panorama City	Los Angeles	WNV
GRLA2418	5386	Cx quinquefasciatus	50	7/8/2008	7/17/2008	Panorama City	Los Angeles	WNV
GRLA2421	5381	Cx quinquefasciatus	50	7/8/2008	7/17/2008	Panorama City	Los Angeles	WNV
GRLA2589	5408	Cx quinquefasciatus	43	7/10/2008	7/18/2008	San Marino	Los Angeles	WNV
GRLA2635	5405	Cx tarsalis	13	7/8/2008	7/17/2008	Van Nuys	Los Angeles	WNV
GRLA2784	636	Cx quinquefasciatus	42	7/10/2008	7/17/2008	Bellflower	Los Angeles	WNV
LONG0703	211	Cx quinquefasciatus	50	7/15/2008	7/16/2008	Long Beach	Los Angeles	WNV
LONG0703	212	Cx quinquefasciatus	13	7/15/2008	7/16/2008	Long Beach	Los Angeles	WNV
NWST9401	176	Cx tarsalis	50	7/14/2008	7/17/2008	Corona	Riverside	WNV
ORCO17	677	Cx tarsalis	10	7/15/2008	7/15/2008	Orange	Orange	WNV
ORCO2	662	Cx quinquefasciatus	41	7/15/2008	7/15/2008	Fullerton	Orange	WNV
ORCO2	663	Cx stigmatosoma	50	7/15/2008	7/15/2008	Fullerton	Orange	WNV
ORCO2	664	Cx quinquefasciatus	50	7/15/2008	7/15/2008	Fullerton	Orange	WNV
ORCO26	682	Cx tarsalis	50	7/15/2008	7/15/2008	Orange	Orange	WNV
ORCO3	625	Cx quinquefasciatus	15	7/10/2008	7/10/2008	Garden Grove	Orange	WNV
ORCO3	643	Cx quinquefasciatus	50	7/11/2008	7/11/2008	Garden Grove	Orange	WNV
ORCO3	647	Cx quinquefasciatus	50	7/15/2008	7/15/2008	Garden Grove	Orange	WNV
ORCO3	648	Cx quinquefasciatus	50	7/15/2008	7/15/2008	Garden Grove	Orange	WNV
ORCO3	649	Cx quinquefasciatus	50	7/15/2008	7/15/2008	Garden Grove	Orange	WNV
ORCO3	650	Cx quinquefasciatus	50	7/15/2008	7/15/2008	Garden Grove	Orange	WNV
ORCO3	651	Cx quinquefasciatus	50	7/15/2008	7/15/2008	Garden Grove	Orange	WNV
ORCO3	652	Cx quinquefasciatus	15	7/15/2008	7/15/2008	Garden Grove	Orange	WNV
ORCO3	653	Cx quinquefasciatus	50	7/15/2008	7/15/2008	Garden Grove	Orange	WNV
ORCO3	654	Cx stigmatosoma	22	7/15/2008	7/15/2008	Garden Grove	Orange	WNV
ORCO30	713	Cx quinquefasciatus	28	7/16/2008	7/16/2008	La Habra	Orange	WNV
ORCO32	714	Cx quinquefasciatus	50	7/16/2008	7/16/2008	Anaheim	Orange	WNV
ORCO32	715	Cx quinquefasciatus	8	7/16/2008	7/16/2008	Anaheim	Orange	WNV
ORCO32	718	Cx quinquefasciatus	50	7/16/2008	7/16/2008	Anaheim	Orange	WNV
ORCO32	719	Cx quinquefasciatus	50	7/16/2008	7/16/2008	Anaheim	Orange	WNV
ORCO32	720	Cx quinquefasciatus	50	7/16/2008	7/16/2008	Anaheim	Orange	WNV
ORCO32	721	Cx quinquefasciatus	50	7/16/2008	7/16/2008	Anaheim	Orange	WNV
ORCO32	722	Cx quinquefasciatus	41	7/16/2008	7/16/2008	Anaheim	Orange	WNV
ORCO32	723	Cx stigmatosoma	36	7/16/2008	7/16/2008	Anaheim	Orange	WNV
ORCO32	724	Cx quinquefasciatus	50	7/16/2008	7/16/2008	Anaheim	Orange	WNV
ORCO32	725	Cx quinquefasciatus	50	7/16/2008	7/16/2008	Anaheim	Orange	WNV
ORCO32	726	Cx quinquefasciatus	36	7/16/2008	7/16/2008	Anaheim	Orange	WNV
ORCO33	717	Cx quinquefasciatus	15	7/16/2008	7/16/2008	Westminster	Orange	WNV
ORCO41	707	Cx stigmatosoma	8	7/16/2008	7/16/2008	Anaheim	Orange	WNV
ORCO41	709	Cx stigmatosoma	15	7/16/2008	7/16/2008	Anaheim	Orange	WNV
ORCO42	637	Cx quinquefasciatus	24	7/10/2008	7/10/2008	Santa Ana	Orange	WNV
ORCO50	705	Cx quinquefasciatus	26	7/16/2008	7/16/2008	Buena Park	Orange	WNV
ORCO52	645	Cx quinquefasciatus	50	7/11/2008	7/11/2008	Anaheim	Orange	WNV
ORCO52	646	Cx quinquefasciatus	49	7/11/2008	7/11/2008	Anaheim	Orange	WNV
ORCO52	669	Cx quinquefasciatus	50	7/15/2008	7/15/2008	Anaheim	Orange	WNV

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ORCO52	670	Cx quinquefasciatus	50	7/15/2008	7/15/2008	Anaheim	Orange	WNV
ORCO52	671	Cx quinquefasciatus	50	7/15/2008	7/15/2008	Anaheim	Orange	WNV
ORCO52	672	Cx quinquefasciatus	50	7/15/2008	7/15/2008	Anaheim	Orange	WNV
ORCO52	674	Cx quinquefasciatus	50	7/15/2008	7/15/2008	Anaheim	Orange	WNV
ORCO52	675	Cx quinquefasciatus	50	7/15/2008	7/15/2008	Anaheim	Orange	WNV
ORCO52	685	Cx quinquefasciatus	24	7/15/2008	7/15/2008	Anaheim	Orange	WNV
ORCO52	710	Cx quinquefasciatus	50	7/16/2008	7/16/2008	Anaheim	Orange	WNV
ORCO52	711	Cx quinquefasciatus	40	7/16/2008	7/16/2008	Anaheim	Orange	WNV
ORCO52	712	Cx quinquefasciatus	18	7/16/2008	7/16/2008	Anaheim	Orange	WNV
ORCO60	698	Cx quinquefasciatus	47	7/16/2008	7/16/2008	Laguna Woods	Orange	WNV
ORCO7	661	Cx quinquefasciatus	31	7/15/2008	7/15/2008	Seal Beach	Orange	WNV
ORCO76	700	Cx stigmatosoma	46	7/16/2008	7/16/2008	San Juan Capistrano	Orange	WNV
ORCO84	657	Cx quinquefasciatus	13	7/15/2008	7/15/2008	Orange	Orange	WNV
PLCR0035	340	Cx tarsalis	50	7/15/2008	7/17/2008	Lincoln	Placer	WNV
RIVR0039	354	Cx tarsalis	50	7/8/2008	7/17/2008	Moreno Valley	Riverside	WNV
RIVR0039	355	Cx tarsalis	50	7/8/2008	7/17/2008	Moreno Valley	Riverside	WNV
RIVR0052	359	Cx quinquefasciatus	50	7/8/2008	7/17/2008	Moreno Valley	Riverside	WNV
RIVR0052	360	Cx tarsalis	39	7/8/2008	7/18/2008	Moreno Valley	Riverside	WNV
SAND0009	34	Cx tarsalis	36	7/9/2008	7/16/2008	Oceanside	San Diego	WNV
SAND0067	31	Cx tarsalis	50	7/9/2008	7/16/2008	Oceanside	San Diego	WNV
SAND0143	43	Cx quinquefasciatus	50	7/10/2008	7/16/2008	San Diego	San Diego	WNV
SAYO2211	3810	Cx pipiens	50	7/10/2008	7/10/2008	Sacramento	Sacramento	WNV
SAYO2213	3564	Cx tarsalis	50	7/10/2008	7/10/2008	Elk Grove	Sacramento	WNV
SAYO2213	3567	Cx tarsalis	50	7/10/2008	7/10/2008	Elk Grove	Sacramento	WNV
SAYO2213	3571	Cx tarsalis	32	7/10/2008	7/10/2008	Elk Grove	Sacramento	WNV
SAYO4128	3610	Cx tarsalis	50	7/10/2008	7/10/2008	Sacramento	Sacramento	WNV
SAYO4205	3908	Cx pipiens	13	7/12/2008	7/12/2008	Sacramento	Sacramento	WNV
SAYO4253	3906	Cx pipiens	3	7/12/2008	7/12/2008	Sacramento	Sacramento	WNV
SAYO4274	3600	Cx tarsalis	43	7/10/2008	7/10/2008	Elk Grove	Sacramento	WNV
SAYO4274	3601	Cx pipiens	38	7/10/2008	7/10/2008	Elk Grove	Sacramento	WNV
SAYO4275	3629	Cx tarsalis	19	7/10/2008	7/10/2008	Sacramento	Sacramento	WNV
SAYO4275	3630	Cx pipiens	23	7/10/2008	7/10/2008	Sacramento	Sacramento	WNV
SAYO4275	3631	Cx pipiens	11	7/10/2008	7/10/2008	Sacramento	Sacramento	WNV
SAYO4275	3634	Cx pipiens	18	7/10/2008	7/10/2008	Sacramento	Sacramento	WNV
SAYO6000	3800	Cx tarsalis	50	7/10/2008	7/10/2008	Dunnigan	Yolo	WNV
SJCM8005	635	Cx tarsalis	33	7/11/2008	7/11/2008	Stockton	San Joaquin	WNV
SJCM8008	642	Cx tarsalis	40	7/12/2008	7/12/2008	Manteca	San Joaquin	WNV
SJCM8026	627	Cx tarsalis	50	7/11/2008	7/11/2008	Stockton	San Joaquin	WNV
SJCM8076	727	Cx pipiens	20	7/15/2008	7/15/2008	Stockton	San Joaquin	WNV
SJCM8077	724	Cx tarsalis	50	7/15/2008	7/15/2008	Stockton	San Joaquin	WNV
SJCM8097	649	Cx pipiens	50	7/12/2008	7/12/2008	Banta	San Joaquin	WNV
SJCM8097	650	Cx pipiens	38	7/12/2008	7/12/2008	Banta	San Joaquin	WNV
SJCM8100	705	Cx tarsalis	39	7/15/2008	7/15/2008	Tracy	San Joaquin	WNV
SJCM8100	706	Cx pipiens	23	7/15/2008	7/15/2008	Tracy	San Joaquin	WNV
SJCM8128	709	Cx tarsalis	12	7/15/2008	7/15/2008	Tracy	San Joaquin	WNV
SUYA0022	165	Cx pipiens	14	7/14/2008	7/16/2008	Tudor	Sutter	WNV
SUYA0031	159	Cx tarsalis	50	7/14/2008	7/16/2008	Rio Oso	Sutter	WNV
SUYA0031	177	Cx tarsalis	50	7/15/2008	7/18/2008	Rio Oso	Sutter	WNV
SUYA0063	166	Cx tarsalis	50	7/14/2008	7/16/2008	Pennington	Sutter	WNV
SUYA0086	171	Cx tarsalis	50	7/15/2008	7/16/2008	Wheatland	Sutter	WNV

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SUYA0097	161	Cx tarsalis	50	7/14/2008	7/16/2008	Marysville	Yuba	WNV
TRLK0502	803	Cx pipiens	24	7/15/2008	7/16/2008	Vernalis	Stanislaus	WNV
TRLK0706	716	Cx pipiens	39	7/11/2008	7/16/2008	Turlock	Stanislaus	WNV
WVAL1008	522	Cx quinquefasciatus	37	7/15/2008	7/15/2008	Ontario	San Bernardino	WNV
WVAL2005	553	Cx erythrothorax	39	7/16/2008	7/16/2008	Chino	San Bernardino	WNV
WVAL2005	556	Cx tarsalis	50	7/16/2008	7/16/2008	Chino	San Bernardino	WNV
WVAL2006	511	Cx tarsalis	50	7/9/2008	7/14/2008	Chino	San Bernardino	WNV
WVAL2006	512	Cx tarsalis	50	7/9/2008	7/18/2008	Chino	San Bernardino	WNV
WVAL2006	559	Cx tarsalis	50	7/16/2008	7/16/2008	Chino	San Bernardino	WNV
WVAL2006	561	Cx tarsalis	50	7/16/2008	7/16/2008	Chino	San Bernardino	WNV
WVAL2008	494	Cx quinquefasciatus	50	7/9/2008	7/14/2008	Chino	San Bernardino	WNV
WVAL2011	567	Cx quinquefasciatus	50	7/16/2008	7/16/2008	Chino	San Bernardino	WNV
WVAL2018	573	Cx quinquefasciatus	22	7/16/2008	7/16/2008	Chino	San Bernardino	WNV
WVAL2022	577	Cx quinquefasciatus	15	7/16/2008	7/16/2008	Fwy CA 60	San Bernardino	WNV
WVAL5004	548	Cx quinquefasciatus	18	7/15/2008	7/15/2008	Rancho Cucamonga	San Bernardino	WNV
WVAL5005	476	Cx quinquefasciatus	50	7/8/2008	7/14/2008	Rancho Cucamonga	San Bernardino	WNV
WVAL5005	545	Cx quinquefasciatus	16	7/15/2008	7/15/2008	Rancho Cucamonga	San Bernardino	WNV
WVAL6001	526	Cx quinquefasciatus	50	7/15/2008	7/15/2008	Ontario	San Bernardino	WNV
WVAL6005	542	Cx quinquefasciatus	23	7/15/2008	7/15/2008	Ontario	San Bernardino	WNV
WVAL6012	485	Cx quinquefasciatus	21	7/8/2008	7/14/2008	Ontario	San Bernardino	WNV
WVAL7002	546	Cx quinquefasciatus	20	7/15/2008	7/15/2008	Montclair	San Bernardino	WNV

Sentential Chickens

Agency Code	County	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03
SAND0057	San Diego	Sorrento Valley	7/2/2008	WNV	1866	1868	

NATIONAL COMMENTS

As of July 15, 2008, 28 human cases had been reported nationwide this year in the following 10 states: Alabama (1), Arizona (1), Arkansas (2), California (3), Mississippi (8), North Dakota (4), Oklahoma (2), South Dakota (1), Tennessee (1), and Texas (5). Nine (32%) of the cases had neuroinvasive illness; none have resulted in fatalities. At this time last year, 54 human cases had been reported nationwide.

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.

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:

All bird and tree squirrel species from all zip codes are currently being accepted for testing unless otherwise requested by a local agency. Additionally, doves, pigeons, and chickens are no longer be accepted for testing. 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, Erin Parker, can be reached directly at (510) 412-6254.

Sentinel Chickens:

Dried blood spot specimens from sentinel chickens are submitted to VBDS Laboratory 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), California Department of Public Health, 850 Marina Bay Parkway, Richmond, CA 94804. Questions concerning this bulletin should be addressed to Stan Husted by phone (510) 412-6253, FAX (510) 412-6263, or email: stan.husted@cdph.ca.gov
