

California Arbovirus Surveillance Bulletin # 24

Week 30 Friday, July 29, 2011

Weekly Summary

WEEKLY COMMENTS



Humans

No new cases were reported this week. To date this year, one human case of West Nile virus (WNV) neuroinvasive disease has been reported from Santa Barbara County. At this time last year, 6 WNV cases had been reported from 3 counties (Fresno, Kern and Stanislaus).

National Comments: As of July 26, 2011, 12 human cases of WNV had been reported nationwide in 8 states: Arizona (4), California (1), Georgia (1), Mississippi (1), South Dakota (1), Texas (2), Virginia (1), and Wyoming (1). Six (50%) of the cases had neuroinvasive disease. One WNV-related fatality has been reported in Texas.

Horses

No equine cases have been reported in 2011.

Dead Birds & Squirrels

Nineteen WNV positive dead birds were reported this week from Contra Costa (1), Fresno (3), Los Angeles (6), Sacramento (8), and Tulare (1) counties. In 2011, 88 dead birds from 12 counties have tested positive for WNV. In addition, 41 birds have tested positive for chronic* WNV infection from 16 counties. No positive squirrels have been reported this year.

At this time last year, 144 birds from 18 counties, and 3 tree squirrels from 3 counties had tested positive for WNV.

**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 WNV 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

A total of 125 WNV positive mosquito pools were reported this week from 11 counties: Fresno (16), Kern (11), Kings (4), Los Angeles (46), Orange (2), Placer (3), Sacramento (17), San Bernardino (1), San Joaquin (6), Stanislaus (7), and Tulare (12). This is the first detection of WNV activity in Placer County and the first WNV positive mosquito pools reported from Kings County this year. In 2011, 272 mosquito pools from 15 counties have tested positive for WNV.

At this time last year, 433 mosquito pools from 19 counties had tested positive for WNV.

Sentinel Chickens

Thirteen WNV seroconversions were reported this week from 6 flocks in 2 counties: Kern (12) and Los Angeles (1). This is the first WNV positive chicken detected in Los Angeles County this year. In 2011, 19 WNV positive chickens have been detected among 7 flocks in 3 counties.

At this time last year, 24 chickens (6 flocks) had tested positive for WNV from 3 counties (Kern, Imperial and Riverside).

2010 & 2011 YTD West Nile Virus Comparisons		
	2010	2011
Total # Dead Bird Reports	6,675	5,078
# Positive Counties	22	18
# Human Cases	6	1
# Horse Cases	0	0
# Positive Dead Birds / # Tested	144 / 1,279	88 / 1,128
# Positive Mosquito Pools / # Tested	433 / 15,334	272 / 14,522
# Seroconversions / # Tested	24 / 13,862	19 / 10,936
# Positive Squirrels / # Tested	3 / 52	0 / 50

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YTD WNV Activity by Element and County, 2011

County	Humans	Horses	Dead Birds [^]	Mosquito Pools	Sentinel Chickens	Squirrels
Contra Costa			2			
Fresno			4	39		
Inyo				1		
Kern				40	16	
Kings			1	4		
Los Angeles			32	82	1	
Orange			4	11		
Placer				3		
Riverside			1	1		
Sacramento			11	27		
San Bernardino				3	2	
San Joaquin			1	9		
Santa Barbara	1					
Santa Clara			10	1		
Stanislaus			1	10		
Sutter				1		
Tulare			20	40		
Ventura			1			
Totals	1	0	88	272	19	0

[^]Chronic infections are not included in total

TEST SUMMARIES

Human & Horse Cases

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	0	0	0	0	0	0
	YTD	1	0	0	0	0	0
Horse Cases	Week	0	0	0	0	0	0
	YTD	0	0	0	0	0	0

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	88	19
	YTD	1,128	88
Tree Squirrels	Week	3	0
	YTD	50	0

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	836	13	0	0
	YTD	10,936	19	0	0
Mosquito Pools: RT-PCR	Week	1,718	125	0	0
	YTD	14,467	272	0	0
Mosquito Pools: RAMP	Week	7	0	N/A	N/A
	YTD	55	0	N/A	N/A

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POSITIVES

Dead Birds

County	Agency	City	Zip	Species	Collected	Virus	Type of Infection	Method
Contra Costa	Contra Costa MVCD	Antioch	94531	American Crow	7/25/2011	WNV	Recent	RAMP
Fresno	Fresno MVCD	Fresno	93711	Western Scrub-Jay	7/6/2011	WNV	Recent	RT-PCR
Fresno	Fresno MVCD	Fresno	93711	Western Scrub-Jay	7/11/2011	WNV	Recent	RT-PCR
Fresno	Fresno MVCD	Pinedale	93650	House Sparrow	7/13/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Cerritos	90703	American Crow	7/11/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Compton	90220	American Crow	7/12/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Azusa	91702	American Crow	7/13/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Cerritos	90703	American Crow	7/14/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Whittier	90603	American Coot	7/12/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Northridge	91324	Cooper's Hawk	7/11/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	Yellow-billed Magpie	7/13/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	Western Scrub-Jay	7/13/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	Cooper's Hawk	7/15/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	American Crow	7/15/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95823	Western Scrub-Jay	7/16/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	Western Scrub-Jay	7/18/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Robin	7/18/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Galt	95632	Western Scrub-Jay	7/19/2011	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93292	Western Scrub-Jay	7/18/2011	WNV	Recent	RT-PCR

Mosquitoes

County	Site Code	Pool #	Species	# in Pool	Collected	City	Virus	Method
Fresno	CNSL1090	659	Cx. tarsalis	29	7/26/2011	Clovis	WNV	RTPCR
Fresno	CNSL1145	649	Cx. tarsalis	27	7/22/2011	Fresno	WNV	RTPCR
Fresno	CNSL1146	648	Cx. tarsalis	16	7/22/2011	Fresno	WNV	RTPCR
Fresno	CNSL1245	655	Cx. quinquefasciatus	50	7/26/2011	Clovis	WNV	RTPCR
Fresno	CNSL1392	624	Cx. quinquefasciatus	43	7/20/2011	Fresno	WNV	RTPCR
Fresno	CNSL1435	642	Cx. quinquefasciatus	33	7/22/2011	Clovis	WNV	RTPCR
Fresno	CNSL1441	644	Cx. quinquefasciatus	34	7/22/2011	Fresno	WNV	RTPCR
Fresno	CNSL1692	628	Cx. quinquefasciatus	47	7/21/2011	Fresno	WNV	RTPCR
Fresno	CNSL3242	533	Cx. quinquefasciatus	50	7/21/2011	Reedley	WNV	RTPCR
Fresno	CNSL4124	543	Cx. quinquefasciatus	50	7/26/2011	Selma	WNV	RTPCR
Fresno	CNSL5030	545	Cx. quinquefasciatus	49	7/26/2011	Kingsburg	WNV	RTPCR
Fresno	CNSL5031	540	Cx. quinquefasciatus	50	7/22/2011	Kingsburg	WNV	RTPCR
Fresno	CNSL5037	536	Cx. quinquefasciatus	50	7/22/2011	Kingsburg	WNV	RTPCR
Fresno	CNSL5064	539	Cx. quinquefasciatus	50	7/22/2011	Kingsburg	WNV	RTPCR
Fresno	CNSL5065	538	Cx. quinquefasciatus	50	7/22/2011	Kingsburg	WNV	RTPCR
Fresno	CNSL6175	521	Cx. tarsalis	50	7/20/2011	Riverdale	WNV	RTPCR
Kern	KERN121	1296	Cx. quinquefasciatus	50	7/22/2011	Bakersfield	WNV	RTPCR
Kern	KERN2014	1294	Cx. quinquefasciatus	29	7/22/2011	Bakersfield	WNV	RTPCR
Kern	KERN2020	1291	Cx. quinquefasciatus	50	7/22/2011	Bakersfield	WNV	RTPCR
Kern	KERN2020	1292	Cx. quinquefasciatus	41	7/22/2011	Bakersfield	WNV	RTPCR
Kern	KERN2028	1300	Cx. quinquefasciatus	50	7/22/2011	Bakersfield	WNV	RTPCR
Kern	KERN2031	1302	Cx. quinquefasciatus	7	7/22/2011	Bakersfield	WNV	RTPCR
Kern	KERN3010	1236	Cx. quinquefasciatus	12	7/20/2011	Bakersfield	WNV	RTPCR
Kern	KERN3017	1235	Cx. tarsalis	35	7/20/2011	Bakersfield	WNV	RTPCR
Kern	KERN36	1214	Cx. tarsalis	50	7/19/2011	Bakersfield	WNV	RTPCR
Kern	KERN36	1216	Cx. tarsalis	50	7/19/2011	Bakersfield	WNV	RTPCR
Kern	KERN83	1279	Cx. tarsalis	33	7/21/2011	Arvin	WNV	RTPCR
Kings	CNSL5107	546	Cx. quinquefasciatus	50	7/26/2011	Kingsburg	WNV	RTPCR
Kings	KNGS3022	306	Cx. tarsalis	50	7/20/2011	Hanford	WNV	RTPCR
Kings	KNGS3022	307	Cx. tarsalis	50	7/20/2011	Hanford	WNV	RTPCR
Kings	KNGS3022	308	Cx. tarsalis	50	7/20/2011	Hanford	WNV	RTPCR

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Los Angeles	GRLA2094	959	Cx. quinquefasciatus	50	7/19/2011	Whittier	WNV	RTPCR
Los Angeles	GRLA2094	960	Cx. quinquefasciatus	50	7/19/2011	Whittier	WNV	RTPCR
Los Angeles	GRLA2094	961	Cx. quinquefasciatus	50	7/19/2011	Whittier	WNV	RTPCR
Los Angeles	GRLA2094	962	Cx. quinquefasciatus	10	7/19/2011	Whittier	WNV	RTPCR
Los Angeles	GRLA2121	1018	Cx. quinquefasciatus	50	7/21/2011	Long Beach	WNV	RTPCR
Los Angeles	GRLA2164	1051	Cx. quinquefasciatus	50	7/21/2011	Pico Rivera	WNV	RTPCR
Los Angeles	GRLA2270	982	Cx. stigmatosoma	25	7/19/2011	Bellflower	WNV	RTPCR
Los Angeles	GRLA2278	973	Cx. quinquefasciatus	50	7/19/2011	Long Beach	WNV	RTPCR
Los Angeles	GRLA2334	1024	Cx. quinquefasciatus	50	7/21/2011	Whittier	WNV	RTPCR
Los Angeles	GRLA2334	1025	Cx. quinquefasciatus	44	7/21/2011	Whittier	WNV	RTPCR
Los Angeles	GRLA2335	1027	Cx. quinquefasciatus	50	7/21/2011	Whittier	WNV	RTPCR
Los Angeles	GRLA2335	1028	Cx. quinquefasciatus	50	7/21/2011	Whittier	WNV	RTPCR
Los Angeles	GRLA2335	1029	Cx. quinquefasciatus	50	7/21/2011	Whittier	WNV	RTPCR
Los Angeles	GRLA2335	1030	Cx. quinquefasciatus	50	7/21/2011	Whittier	WNV	RTPCR
Los Angeles	GRLA2335	1032	Cx. quinquefasciatus	26	7/21/2011	Whittier	WNV	RTPCR
Los Angeles	GRLA2335	1033	Cx. stigmatosoma	31	7/21/2011	Whittier	WNV	RTPCR
Los Angeles	GRLA2346	1035	Cx. quinquefasciatus	32	7/21/2011	Montebello	WNV	RTPCR
Los Angeles	GRLA2359	1039	Cx. quinquefasciatus	37	7/21/2011	Pico Rivera	WNV	RTPCR
Los Angeles	GRLA2419	5935	Cx. quinquefasciatus	50	7/19/2011	Panorama City	WNV	RTPCR
Los Angeles	GRLA2539	5971	Cx. quinquefasciatus	35	7/21/2011	Northridge	WNV	RTPCR
Los Angeles	GRLA2547	5981	Cx. quinquefasciatus	12	7/21/2011	Sylmar	WNV	RTPCR
Los Angeles	GRLA2631	5984	Cx. quinquefasciatus	27	7/22/2011	Valencia	WNV	RTPCR
Los Angeles	GRLA2635	5952	Cx. quinquefasciatus	50	7/19/2011	Van Nuys	WNV	RTPCR
Los Angeles	GRLA2635	5953	Cx. quinquefasciatus	50	7/19/2011	Van Nuys	WNV	RTPCR
Los Angeles	GRLA2635	5954	Cx. quinquefasciatus	50	7/19/2011	Van Nuys	WNV	RTPCR
Los Angeles	GRLA2635	5955	Cx. quinquefasciatus	35	7/19/2011	Van Nuys	WNV	RTPCR
Los Angeles	GRLA2636	5949	Cx. quinquefasciatus	50	7/19/2011	Van Nuys	WNV	RTPCR
Los Angeles	GRLA2636	5950	Cx. quinquefasciatus	50	7/19/2011	Van Nuys	WNV	RTPCR
Los Angeles	GRLA2636	5951	Cx. quinquefasciatus	29	7/19/2011	Van Nuys	WNV	RTPCR
Los Angeles	GRLA2636	5960	Cx. quinquefasciatus	50	7/19/2011	Van Nuys	WNV	RTPCR
Los Angeles	GRLA2637	5940	Cx. quinquefasciatus	50	7/19/2011	Van Nuys	WNV	RTPCR
Los Angeles	GRLA2637	5941	Cx. quinquefasciatus	50	7/19/2011	Van Nuys	WNV	RTPCR
Los Angeles	GRLA2650	5942	Cx. quinquefasciatus	50	7/19/2011	Encino	WNV	RTPCR
Los Angeles	GRLA2650	5943	Cx. quinquefasciatus	50	7/19/2011	Encino	WNV	RTPCR
Los Angeles	GRLA2650	5944	Cx. quinquefasciatus	44	7/19/2011	Encino	WNV	RTPCR
Los Angeles	GRLA2650	5957	Cx. quinquefasciatus	50	7/19/2011	Encino	WNV	RTPCR
Los Angeles	GRLA2650	5959	Cx. quinquefasciatus	46	7/19/2011	Encino	WNV	RTPCR
Los Angeles	GRLA2651	5945	Cx. quinquefasciatus	50	7/19/2011	Encino	WNV	RTPCR
Los Angeles	GRLA2652	5947	Cx. quinquefasciatus	50	7/19/2011	Encino	WNV	RTPCR
Los Angeles	GRLA2669	5965	Cx. quinquefasciatus	50	7/20/2011	Granada Hills	WNV	RTPCR
Los Angeles	GRLA3045	1041	Cx. quinquefasciatus	50	7/21/2011	Whittier	WNV	RTPCR
Los Angeles	GRLA3046	986	Cx. stigmatosoma	8	7/19/2011	Bellflower	WNV	RTPCR
Los Angeles	GRLA3048	987	Cx. quinquefasciatus	50	7/19/2011	Pico Rivera	WNV	RTPCR
Los Angeles	GRLA3049	1045	Cx. quinquefasciatus	50	7/21/2011	Downey	WNV	RTPCR
Los Angeles	GRLA3049	1046	Cx. quinquefasciatus	39	7/21/2011	Downey	WNV	RTPCR
Los Angeles	GRLA3049	1047	Cx. stigmatosoma	34	7/21/2011	Downey	WNV	RTPCR
Orange	ORCO50	571	Cx. quinquefasciatus	24	7/20/2011	Buena Park	WNV	RTPCR
Orange	ORCO82	597	Cx. quinquefasciatus	13	7/22/2011	Cypress	WNV	RTPCR
Placer	PLCR1037	500	Cx. tarsalis	43	7/21/2011	Roseville	WNV	RTPCR
Placer	PLCR1113	542	Cx. tarsalis	50	7/26/2011	Pleasant Grove	WNV	RTPCR
Placer	PLCR1113	543	Cx. tarsalis	50	7/26/2011	Pleasant Grove	WNV	RTPCR
Sacramento	SAYO233009	2597	Cx. tarsalis	45	7/26/2011	Elk Grove	WNV	RTPCR
Sacramento	SAYO233009	2598	Cx. pipiens	50	7/26/2011	Elk Grove	WNV	RTPCR
Sacramento	SAYO233009	2599	Cx. pipiens	11	7/26/2011	Elk Grove	WNV	RTPCR
Sacramento	SAYO233009	2600	Cx. pipiens	1	7/26/2011	Elk Grove	WNV	RTPCR
Sacramento	SAYO233043	2415	Cx. tarsalis	50	7/22/2011		WNV	RTPCR
Sacramento	SAYO233043	2418	Cx. pipiens	18	7/22/2011		WNV	RTPCR
Sacramento	SAYO233044	2460	Cx. pipiens	14	7/22/2011	Elk Grove	WNV	RTPCR
Sacramento	SAYO233044	2461	Cx. pipiens	39	7/22/2011	Elk Grove	WNV	RTPCR

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Sacramento	SAYO234003	2439	Cx. tarsalis	25	7/22/2011	Wilton	WNV	RTPCR
Sacramento	SAYO234003	2442	Cx. pipiens	30	7/22/2011	Wilton	WNV	RTPCR
Sacramento	SAYO244001	2455	Cx. stigmatosoma	14	7/22/2011	Wilton	WNV	RTPCR
Sacramento	SAYO245002	2618	Cx. tarsalis	17	7/26/2011	Wilton	WNV	RTPCR
Sacramento	SAYO245002	2619	Cx. pipiens	5	7/26/2011	Wilton	WNV	RTPCR
Sacramento	SAYO245007	2400	Cx. tarsalis	14	7/22/2011	Wilton	WNV	RTPCR
Sacramento	SAYO245007	2401	Cx. pipiens	3	7/22/2011	Wilton	WNV	RTPCR
Sacramento	SAYO245007	2402	Cx. pipiens	19	7/22/2011	Wilton	WNV	RTPCR
Sacramento	SAYO245023	2404	Cx. tarsalis	32	7/22/2011	Wilton	WNV	RTPCR
San Bernardino	WVAL6005	361	Cx. quinquefasciatus	50	7/18/2011	Ontario	WNV	RTPCR
San Joaquin	SJCM8016	285	Cx. tarsalis	10	7/20/2011	Lodi	WNV	RTPCR
San Joaquin	SJCM8028	290	Cx. tarsalis	10	7/20/2011	Woodbridge	WNV	RTPCR
San Joaquin	SJCM8048	306	Cx. tarsalis	13	7/25/2011	Stockton	WNV	RTPCR
San Joaquin	SJCM8048	307	Cx. pipiens	26	7/25/2011	Stockton	WNV	RTPCR
San Joaquin	SJCM8084	329	Cx. pipiens	12	7/25/2011	Stockton	WNV	RTPCR
San Joaquin	SJCM8106	343	Cx. pipiens	14	7/27/2011	Escalon	WNV	RTPCR
Stanislaus	TRLK1102	351	Cx. pipiens	34	7/26/2011	Denair	WNV	RTPCR
Stanislaus	TRLK408	308	Cx. pipiens	50	7/26/2011	Turlock	WNV	RTPCR
Stanislaus	TRLK421	329	Cx. pipiens	33	7/26/2011	Hughson	WNV	RTPCR
Stanislaus	TRLK432	314	Cx. pipiens	50	7/26/2011	Turlock	WNV	RTPCR
Stanislaus	TRLK504	318	Cx. pipiens	24	7/26/2011	Denair	WNV	RTPCR
Stanislaus	TRLK536	310	Cx. pipiens	45	7/26/2011	Turlock	WNV	RTPCR
Stanislaus	TRLK625	316	Cx. pipiens	50	7/26/2011	Turlock	WNV	RTPCR
Tulare	DLTA6405	238	Cx. tarsalis	20	7/26/2011	Dinuba	WNV	RTPCR
Tulare	DLTA6405	240	Cx. tarsalis	36	7/26/2011	Dinuba	WNV	RTPCR
Tulare	DLTA6407	251	Cx. quinquefasciatus	28	7/27/2011	Dinuba	WNV	RTPCR
Tulare	DLTA6408	255	Cx. quinquefasciatus	28	7/27/2011	Dinuba	WNV	RTPCR
Tulare	DLTA8427	235	Cx. quinquefasciatus	23	7/26/2011	Visalia	WNV	RTPCR
Tulare	DLTA8427	236	Cx. quinquefasciatus	30	7/26/2011	Visalia	WNV	RTPCR
Tulare	DLTA8533	217	Cx. quinquefasciatus	29	7/20/2011	Visalia	WNV	RTPCR
Tulare	DLTA8534	216	Cx. quinquefasciatus	33	7/20/2011	Visalia	WNV	RTPCR
Tulare	DLTA9402	233	Cx. quinquefasciatus	13	7/22/2011	Visalia	WNV	RTPCR
Tulare	DLTA9604	218	Cx. quinquefasciatus	13	7/21/2011	Exeter	WNV	RTPCR
Tulare	DLTA9610	220	Cx. quinquefasciatus	36	7/21/2011	Exeter	WNV	RTPCR
Tulare	TLRE0000	36	Unknown	50	7/28/2011	Tulare	WNV	RTPCR

Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05
Kern	DLNO0035	S. McFarland	7/21/2011	WNV	1456	1457	1459	1462	1463
Kern	DLNO0060	Delano	7/21/2011	WNV	1433	1434			
Kern	KERN0107	Arvin	7/18/2011	WNV	1659				
Kern	KERN0113	Bakersfield	7/18/2011	WNV	1576	1643	1648		
Kern	KERN0114	Bakersfield	7/18/2011	WNV	1663				
Los Angeles	SGVA0002	Irwindale	7/25/2011	WNV	2723				

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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:

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.

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 (WEEV), and St. Louis encephalitis (SLEV) 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 WEEV, SLEV, 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 Tina Feiszli by phone (510) 412-6253 or email: tina.feiszli@cdph.ca.gov

Website Information: For updated information on WNV in California, please visit the California WNV website, www.westmile.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.westmilemaps.usgs.gov
