

California Arbovirus Surveillance Bulletin #18

Week 25 Friday, June 22, 2012



WEEKLY UPDATE

Human Cases

A 70-year-old woman from Kern County has been confirmed as the first human case of West Nile virus (WNV) illness in California this year. The woman developed symptoms in late May and is now recovering. Testing performed by the California Department of Public Health Viral and Rickettsial Disease Laboratory confirmed acute WNV infection.

National Update: As of June 19, 2012, two human cases of WNV had been reported from California and Texas.

Horses

No equine cases have been reported in 2012.

Dead Birds & Squirrels

A total of 71 WNV positive dead birds were reported this week from 10 counties: Kern (1), Los Angeles (3), Merced (1), Sacramento (52), San Joaquin (2), San Mateo (1), Santa Clara (2), Stanislaus (2), Tulare (5), and Yolo (2). This is the first indication of WNV activity in San Mateo County this year. An additional 17 dead birds tested positive for chronic WNV infection this week. In 2012, 169 dead birds have tested positive for recent WNV infection from 13 counties.

At this time last year, 23 dead birds from seven 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 98 WNV positive mosquito pools were reported this week from seven counties: Fresno (2), Kern (34), Los Angeles (2), Riverside (3), Sacramento (53) San Joaquin (2), and Tulare (2). In 2012, 222 mosquito pools from 10 counties have tested positive for WNV.

At this time last year, 16 mosquito pools had tested positive for WNV from six counties.

Sentinel Chickens

One WNV seroconversion was detected this week in a new sentinel chicken flock located in Riverside County. To date this year, two chickens from two flocks in Riverside County have tested positive for WNV antibodies.

At this time last year, no seroconversions had been reported.

California Arbovirus Surveillance Bulletin #18

Week 25 Friday, June 22, 2012

2011 & 2012 YTD West Nile Virus Comparisons		
	2011	2012
Total # Dead Bird Reports	3,403	5,149
# Positive Counties	11	16
# Human Cases	0	1
# Horse Cases	0	0
# Positive Dead Birds / # Tested	23 / 786	169 / 1,117
# Positive Mosquito Pools / # Tested	16 / 7,492	222 / 8,102
# Seroconversions / # Tested	0 / 7,080	2 / 6,255
# Positive Squirrels / # Tested	0 / 36	0 / 50

YTD WNV Activity by Element and County, 2012

County	Humans	Horses	Dead Birds*	Mosquito Pools	Sentinel Chickens	Squirrels
Contra Costa			2			
Fresno				7		
Kern	1		1	59		
Los Angeles			5	3		
Merced			2			
Riverside				22	2	
Sacramento			122	116		
San Bernardino				1		
San Joaquin			10	5		
San Mateo			1			
Santa Clara			6			
Solano			2	1		
Stanislaus			5			
Tulare			8	5		
Ventura			1			
Yolo			4	3		
Totals	1	0	169	222	2	0

**Total does not include chronic infections*

California Arbovirus Surveillance Bulletin #18

Week 25 Friday, June 22, 2012

TESTING SUMMARIES

Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	1	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 & Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	162	71
	YTD	1,117	169
Tree Squirrels	Week	3	0
	YTD	50	0

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	958	1	0	0
	YTD	6,255	2	0	0
Mosquito Pools	Week	1,185	98	0	0
	YTD	8,102	222	0	0

POSITIVES: WEEK 25

Dead Birds

County	Submitting Agency	City	Zip	Species	Reported	Virus	Test Result	Method
Alameda	Alameda Co MAD	Fremont	94538	Gull	6/1/12	WNV	Chronic	RT-PCR
Butte	Butte Co MVCD	Oroville	95966	Ash-throated Flycatcher	6/11/12	WNV	Chronic	RT-PCR
Butte	Oroville MAD	Oroville	95966	Ash-throated Flycatcher	6/11/12	WNV	Chronic	RT-PCR
Kern	Kern MVCD	Bakersfield	93307	Allen's Hummingbird	6/12/12	WNV	Chronic	RT-PCR
Kern	Kern MVCD	Bakersfield	93309	Western Scrub-Jay	6/8/12	WNV	Recent	RT-PCR
Kern	Kern MVCD	Bakersfield	93314	Brewer's Blackbird	6/10/12	WNV	Chronic	RT-PCR
Los Angeles	Los Angeles Co Vet	Inglewood	90305	American Crow	6/11/12	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Vet	Granada Hills	91344	Common Raven	6/12/12	WNV	Chronic	RT-PCR
Los Angeles	Los Angeles Co Vet	Canyon Country	91387	Hooded Oriole	6/7/12	WNV	Chronic	RT-PCR
Los Angeles	Los Angeles Co Vet	Canyon Country	91387	Barn Owl	6/12/12	WNV	Chronic	RT-PCR
Los Angeles	Los Angeles Co Vet	Los Angeles	91602	American Crow	6/12/12	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co West VCD	Los Angeles	90036	American Crow	6/10/12	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Atwater	95301	American Crow	6/11/12	WNV	Recent	RT-PCR
Placer	Placer MVCD	Sheridan	95681	Brewer's Blackbird	6/4/12	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Roseville	95747	Lesser Goldfinch	6/1/12	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Carmichael	95608	Cooper's Hawk	6/18/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Carmichael	95608	House Finch	6/19/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95624	American Crow	6/13/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95624	Western Scrub-Jay	6/14/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95624	Western Scrub-Jay	6/14/12	WNV	Recent	RT-PCR

California Arbovirus Surveillance Bulletin #18

Week 25 Friday, June 22, 2012

Sacramento	Sac-Yolo MVCD	Elk Grove	95624	American Crow	6/15/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95624	American Crow	6/15/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95624	Western Scrub-Jay	6/18/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95624	Western Scrub-Jay	6/18/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95624	American Crow	6/18/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95624	Unknown	6/19/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	6/15/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	American Crow	6/16/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	American Crow	6/18/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	North Highlands	95660	American Robin	6/13/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	North Highlands	95660	Northern Mockingbird	6/14/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rio Linda	95673	European Starling	6/7/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95758	Western Scrub-Jay	6/12/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95758	Western Scrub-Jay	6/16/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95758	American Crow	6/19/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95816	Red-tailed Hawk	6/8/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95817	American Crow	6/14/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95817	Western Scrub-Jay	6/17/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95817	Nuttall's Woodpecker	6/7/12	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95819	American Crow	6/12/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95819	American Crow	6/13/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95819	American Crow	6/14/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95819	American Crow	6/14/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95819	American Crow	6/17/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95819	American Crow	6/19/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95820	American Crow	6/12/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95820	American Crow	6/12/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95820	American Crow	6/16/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95821	Western Scrub-Jay	6/15/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95822	Brewer's Blackbird	6/7/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95822	American Crow	6/17/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95822	American Crow	6/19/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95823	European Starling	6/7/12	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95824	American Crow	6/16/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95824	Western Scrub-Jay	6/17/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95826	American Crow	6/13/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95826	Yellow-billed Magpie	6/15/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95826	House Finch	6/17/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95826	House Finch	6/17/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95828	Western Scrub-Jay	6/13/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95828	Western Scrub-Jay	6/15/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95829	American Robin	6/8/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95829	House Finch	6/11/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95830	Western Scrub-Jay	6/18/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95832	Northern Mockingbird	6/16/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95832	American Crow	6/18/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95832	American Crow	6/18/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95838	Yellow-billed Magpie	6/7/12	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95864	American Crow	6/11/12	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95864	House Finch	6/13/12	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Stockton	95205	Western Scrub-Jay	6/14/12	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Stockton	95207	Western Scrub-Jay	6/5/12	WNV	Recent	RT-PCR
San Mateo	San Mateo Co MAD	Emerald Lake Hills	94062	Red-shouldered Hawk	6/11/12	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	Los Altos	94024	Western Scrub-Jay	6/8/12	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	Santa Clara	95050	American Crow	6/20/12	WNV	Recent	VecTest
Shasta	Shasta MVCD	Shasta Lake City	96019	Western Wood Peewee	6/6/12	WNV	Chronic	RT-PCR

California Arbovirus Surveillance Bulletin #18

Week 25 Friday, June 22, 2012

Shasta	Shasta MVCD	Anderson	96007	European Starling	6/11/12	WNV	Chronic	RT-PCR
Stanislaus	East Side MAD	Modesto	95355	Western Scrub-Jay	6/7/12	WNV	Recent	RT-PCR
Stanislaus	East Side MAD	Modesto	95358	Yellow-billed Magpie	6/12/12	WNV	Chronic	RT-PCR
Stanislaus	Turlock MAD	Ceres	95307	American Crow	6/5/12	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Ceres	95307	Mourning Dove	6/10/12	WNV	Chronic	RT-PCR
Tulare	Delta VCD	Visalia	93277	Western Scrub-Jay	6/14/12	WNV	Recent	RAMP
Tulare	Delta VCD	Visalia	93277	Western Scrub-Jay	6/14/12	WNV	Recent	RAMP
Tulare	Tulare MAD	Tulare	93274	House Finch	6/7/12	WNV	Recent	RT-PCR
Tulare	Tulare MAD	Tulare	93274	House Sparrow	6/7/12	WNV	Recent	RT-PCR
Tulare	Tulare MAD	Tulare	93274	American Crow	6/11/12	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	W. Sacramento	95691	European Starling	6/14/12	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	W. Sacramento	95691	American Crow	6/15/12	WNV	Recent	RT-PCR

Mosquito Pools

County	Site Code	Pool #	City	Species	# in Pool	Trap Type	Collected	Virus	Method
Fresno	FRNO28	26	Fresno	Cx. quinquefasciatus	40	GRVD	6/13/12	WNV	RTPCR
Fresno	FRNO28	30	Fresno	Cx. quinquefasciatus	50	GRVD	6/20/12	WNV	RTPCR
Kern	KERN1002	539	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/11/12	WNV	RTPCR
Kern	KERN1162	580	Bakersfield	Cx. quinquefasciatus	25	CO2	6/12/12	WNV	RTPCR
Kern	KERN15	578	Pumpkin Center	Cx. quinquefasciatus	46	CO2	6/12/12	WNV	RTPCR
Kern	KERN2002	645	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/14/12	WNV	RTPCR
Kern	KERN2002	647	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/14/12	WNV	RTPCR
Kern	KERN2002	648	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/14/12	WNV	RTPCR
Kern	KERN2002	649	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/14/12	WNV	RTPCR
Kern	KERN2002	650	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/14/12	WNV	RTPCR
Kern	KERN2010	629	Bakersfield	Cx. quinquefasciatus	23	GRVD	6/14/12	WNV	RTPCR
Kern	KERN2014	622	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/14/12	WNV	RTPCR
Kern	KERN2014	623	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/14/12	WNV	RTPCR
Kern	KERN2014	624	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/14/12	WNV	RTPCR
Kern	KERN2015	586	Bakersfield	Cx. quinquefasciatus	45	GRVD	6/13/12	WNV	RTPCR
Kern	KERN2016	568	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/12/12	WNV	RTPCR
Kern	KERN2016	569	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/12/12	WNV	RTPCR
Kern	KERN2016	570	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/12/12	WNV	RTPCR
Kern	KERN2018	565	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/12/12	WNV	RTPCR
Kern	KERN2018	566	Bakersfield	Cx. quinquefasciatus	28	GRVD	6/12/12	WNV	RTPCR
Kern	KERN2019	567	Bakersfield	Cx. quinquefasciatus	29	GRVD	6/12/12	WNV	RTPCR
Kern	KERN2020	630	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/14/12	WNV	RTPCR
Kern	KERN2027	625	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/14/12	WNV	RTPCR
Kern	KERN2028	634	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/14/12	WNV	RTPCR
Kern	KERN2028	635	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/14/12	WNV	RTPCR
Kern	KERN2028	636	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/14/12	WNV	RTPCR
Kern	KERN2030	560	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/12/12	WNV	RTPCR
Kern	KERN2034	542	Bakersfield	Cx. quinquefasciatus	29	GRVD	6/11/12	WNV	RTPCR
Kern	KERN2039	587	Bakersfield	Cx. quinquefasciatus	26	GRVD	6/13/12	WNV	RTPCR
Kern	KERN2040	594	Arvin	Cx. quinquefasciatus	23	GRVD	6/13/12	WNV	RTPCR
Kern	KERN2049	595	Lamont	Cx. quinquefasciatus	50	GRVD	6/13/12	WNV	RTPCR
Kern	KERN2049	596	Lamont	Cx. quinquefasciatus	50	GRVD	6/13/12	WNV	RTPCR
Kern	KERN2051	583	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/13/12	WNV	RTPCR
Kern	KERN2051	584	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/13/12	WNV	RTPCR
Kern	KERN3004	600	Bakersfield	Cx. quinquefasciatus	50	CO2	6/13/12	WNV	RTPCR
Kern	KERN3008	581	Bakersfield	Cx. quinquefasciatus	15	CO2	6/12/12	WNV	RTPCR
Los Angeles	GRLA2512	5436	Los Angeles	Cx. stigmatosoma	29	GRVD	6/14/12	WNV	RTPCR
Los Angeles	GRLA2614	5411	Newhall	Cx. stigmatosoma	40	GRVD	6/13/12	WNV	RTPCR
Riverside	COAV35	1638	Mecca	Cx. tarsalis	11	CO2	6/19/12	WNV	RTPCR
Riverside	COAV58	1636	Mecca	Cx. tarsalis	50	CO2	6/19/12	WNV	RTPCR
Riverside	NWST100	142	riverside	Cx. stigmatosoma	8	REST	6/18/12	WNV	RTPCR

California Arbovirus Surveillance Bulletin #18

Week 25 Friday, June 22, 2012

Sacramento	SAYO203024	1915	North Highlands	Cx. pipiens	5	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO203028	1671	North Highlands	Cx. tarsalis	28	CO2	6/15/12	WNV	RTPCR
Sacramento	SAYO203028	1672	North Highlands	Cx. pipiens	20	CO2	6/15/12	WNV	RTPCR
Sacramento	SAYO203028	1673	North Highlands	Cx. pipiens	1	GRVD	6/15/12	WNV	RTPCR
Sacramento	SAYO203029	1907	McClellan	Cx. tarsalis	1	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO203029	1909	McClellan	Cx. pipiens	23	GRVD	6/21/12	WNV	RTPCR
Sacramento	SAYO204020	1946	Sacramento	Cx. pipiens	50	GRVD	6/21/12	WNV	RTPCR
Sacramento	SAYO213021	1920	Sacramento	Cx. pipiens	16	GRVD	6/21/12	WNV	RTPCR
Sacramento	SAYO213031	1906	North Highlands	Cx. pipiens	7	GRVD	6/21/12	WNV	RTPCR
Sacramento	SAYO215015	1789	Folsom	Cx. tarsalis	2	CO2	6/19/12	WNV	RTPCR
Sacramento	SAYO222009	1688	Sacramento	Cx. pipiens	4	CO2	6/15/12	WNV	RTPCR
Sacramento	SAYO222015	1864	Sacramento	Cx. pipiens	24	GRVD	6/21/12	WNV	RTPCR
Sacramento	SAYO222019	1852	Sacramento	Cx. tarsalis	18	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO222023	1676	Sacramento	Cx. pipiens	15	GRVD	6/15/12	WNV	RTPCR
Sacramento	SAYO222032	1694	Sacramento	Cx. pipiens	38	GRVD	6/15/12	WNV	RTPCR
Sacramento	SAYO223010	1882	Sacramento	Cx. tarsalis	50	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO223010	1883	Sacramento	Cx. tarsalis	9	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO223010	1884	Sacramento	Cx. pipiens	1	GRVD	6/21/12	WNV	RTPCR
Sacramento	SAYO223017	1677	Sacramento	Cx. tarsalis	50	CO2	6/15/12	WNV	RTPCR
Sacramento	SAYO223017	1678	Sacramento	Cx. tarsalis	23	CO2	6/15/12	WNV	RTPCR
Sacramento	SAYO223019	1743	Sacramento	Cx. pipiens	6	CO2	6/19/12	WNV	RTPCR
Sacramento	SAYO223024	1912	Sacramento	Cx. pipiens	18	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO223024	1913	Sacramento	Cx. pipiens	14	GRVD	6/21/12	WNV	RTPCR
Sacramento	SAYO223026	1890	Sacramento	Cx. pipiens	13	GRVD	6/21/12	WNV	RTPCR
Sacramento	SAYO223026	1910	Sacramento	Cx. tarsalis	7	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO223046	1681	Sacramento	Cx. tarsalis	50	CO2	6/15/12	WNV	RTPCR
Sacramento	SAYO223046	1682	Sacramento	Cx. tarsalis	10	CO2	6/15/12	WNV	RTPCR
Sacramento	SAYO223046	1683	Sacramento	Cx. pipiens	9	CO2	6/15/12	WNV	RTPCR
Sacramento	SAYO224007	1810	Sacramento	Cx. tarsalis	7	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO224007	1811	Sacramento	Cx. pipiens	4	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO232002	1685	Sacramento	Cx. pipiens	9	CO2	6/15/12	WNV	RTPCR
Sacramento	SAYO232002	1686	Sacramento	Cx. pipiens	11	GRVD	6/15/12	WNV	RTPCR
Sacramento	SAYO233001	1824	Elk Grove	Cx. tarsalis	24	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO233003	1807	Elk Grove	Cx. tarsalis	32	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO233003	1808	Elk Grove	Cx. pipiens	6	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO233006	1838	Elk Grove	Cx. pipiens	13	GRVD	6/21/12	WNV	RTPCR
Sacramento	SAYO233030	1806	Sacramento	Cx. pipiens	9	GRVD	6/21/12	WNV	RTPCR
Sacramento	SAYO233047	1839	Elk Grove	Cx. tarsalis	42	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO233057	1815	Sacramento	Culex pipiens	22	GRVD	6/21/12	WNV	RTPCR
Sacramento	SAYO233058	1842	Sacramento	Cx. tarsalis	19	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO233058	1843	Sacramento	Cx. pipiens	9	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO233058	1844	Sacramento	Cx. pipiens	10	GRVD	6/21/12	WNV	RTPCR
Sacramento	SAYO233060	1846	Elk Grove	Cx. tarsalis	50	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO233064	1885	Sacramento	Cx. tarsalis	2	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO233064	1887	Sacramento	Cx. pipiens	7	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO233064	1888	Sacramento	Cx. pipiens	14	GRVD	6/21/12	WNV	RTPCR
Sacramento	SAYO233066	1819	Sacramento	Cx. tarsalis	52	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO233068	1822	Elk Grove	Cx. tarsalis	17	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO233068	1823	Elk Grove	Cx. pipiens	10	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO234017	1816	Sacramento	Cx. tarsalis	25	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO234017	1817	Sacramento	Cx. pipiens	16	CO2	6/21/12	WNV	RTPCR
Sacramento	SAYO243004	1744	Elk Grove	Cx. pipiens	6	CO2	6/19/12	WNV	RTPCR
Sacramento	SAYO243004	1745	Elk Grove	Cx. pipiens	4	GRVD	6/19/12	WNV	RTPCR
San Joaquin	SJCM8037	230	Lathrop	Cx. tarsalis	32	CO2	6/18/12	WNV	RTPCR

California Arbovirus Surveillance Bulletin #18

Week 25 Friday, June 22, 2012

San Joaquin	SJCM8194	269	Stockton	Cx. pipiens	25	CO2	6/21/12	WNV	RTPCR
Tulare	DLTA8531	16	Visalia	Cx. quinquefasciatus	12	GRVD	6/15/12	WNV	RTPCR
Tulare	DLTA9505	15	Visalia	Cx. quinquefasciatus	10	GRVD	6/15/12	WNV	RTPCR

Sentinel Chickens

County	Site Code	City	Date Bled**	Virus	Band 01
Riverside	COAV000122	Gordon	6/15/2012	WNV	3872

**The filter paper bleed date is reported as the date bled when whole blood is requested for confirmation.

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.

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.

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

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.