

# California Arbovirus Surveillance Bulletin # 22 (corrected)

Week 29 Friday, July 21, 2006

## Weekly Summary

### COMMENTS

#### Humans

A total of five human WNV cases have been reported in 2006, from Kern (2), San Joaquin (1), Stanislaus (1), and Sutter (1) Counties. Three of the cases have been classified as West Nile neuroinvasive disease, and two as West Nile fever. The West Nile fever case from Sutter County was initially identified as an asymptomatic blood donor; this individual later developed symptoms compatible with West Nile fever and was consequently reclassified. There have been no WNV-related fatalities reported in California this year.

#### Horses

This week, the California Department of Food & Agriculture reported two equine cases of WNV from Merced County. This year, three horses have tested positive for WNV from Merced (2) and Tulare (1) Counties.

#### Dead Birds

This week, 55 out of 288 (19.1%) dead birds collected from 41 counties tested positive for WNV.

- 27/252 dead birds tested positive via RT-PCR.
- 14/18 dead birds tested positive via VecTest.
- 14/18 dead birds tested positive via RAMP.

The WNV positive dead birds were collected from the following counties: Butte (1); Contra Costa (1); Fresno (9); Kern (3); Kings (2); Lake (1); Merced (1); Sacramento (1); San Bernardino (1); San Diego (1); San Joaquin (10); Santa Clara (4); Shasta (4); Solano (4); Stanislaus (7); and Yolo (5). **This is the first indication of WNV activity in Butte, Lake, and San Bernardino Counties in 2006.**

In 2006, 151 out of 2,743 (5.5%) dead birds have tested positive for WNV from 21 counties: Butte (1); Contra Costa (3); Fresno (30); Glenn (1); Kern (3); Kings (2); Lake (1); Merced (4); Orange (19); Sacramento (7); San Bernardino (1); San Diego (3); San Joaquin (22); San Mateo (1); Santa Clara (15); Shasta (7); Solano (5); Stanislaus (15); Ventura (2); Yolo (8) and Yuba (1).

The hotline has received a total of 24,738 dead bird reports this year.

#### Mosquito Pools

CVEC reported 109 WNV positive mosquito pools this week from Contra Costa (2), El Dorado (1), Fresno (13), Imperial (2), Kern (57), Kings (8), Placer (1), Riverside (1), San Joaquin (5), Stanislaus (1), Sutter (17), and Yuba (1) Counties. Additionally, CVEC reported one WEE positive pool from Kern County. **This is the first indication of WNV activity in El Dorado and Placer Counties in 2006, and the first indication of WEE activity in California this year.**

Sac-Yolo MVCD reported 11 WNV positive mosquito pools from Sacramento (2), Solano (1), and Yolo (8) counties and San Joaquin MVCD reported two WNV positive mosquito pools tested by RAMP. Contra Costa MVCD and West Valley MVCD have each reported one WNV positive pool, which will be sent to CVEC for confirmation.

In 2006, 184\* mosquito pools have tested positive for WNV from 18 counties: Contra Costa (2); El Dorado (1); Fresno (14); Glenn (1); Imperial (5); Kern (75); Kings (11); Los Angeles (3); Merced (2); Placer (1); Riverside (7); Sacramento (4); San Joaquin (8); Solano (1); Stanislaus (11); Sutter (25); Yolo (11); and Yuba (2). One mosquito pool from Kern County has tested positive for WEE this year.

In addition, Santa Clara County has reported four WNV positive mosquito pools tested by RAMP.

\*YTD state total does not include all local agency results.

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## Sentinel Chickens

VRDL reported four WNV positive chickens this week from Fresno (1) and Imperial (3) Counties, and 12 flavivirus positive chickens from Imperial County. Additionally, Sacramento-Yolo MVCD reported 6 flavivirus positive chickens from Yolo County. VRDL will conduct additional tests to confirm SLE or WNV.

In 2006, 11 WNV seroconversions have been confirmed in chickens from Fresno (1), Imperial (6), and Los Angeles (4) counties. Eighteen flavivirus serconversions have been detected in chickens from Imperial (12) and Yolo (6) counties.

## Website Information

For updated information on WNV, please visit the California WNV website, [www.westnile.ca.gov](http://www.westnile.ca.gov), the CDC website, [www.cdc.gov](http://www.cdc.gov), and the USGS website, [www.westnilemaps.usgs.gov](http://www.westnilemaps.usgs.gov). Please go to the Vector website at <http://vector.ucdavis.edu/arbo.html> for flock location and more information on WNV and other vector-borne diseases.

## TEST SUMMARIES

### Humans and Horses

		Number Tested	WNV Positive		WEE Positive		SLE Positive		Other Positive	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested	Week	28	0	4	0	0	0	0	0	0
	YTD	675	0	5	0	0	0	0	0	0
Horses Tested	Week	13	0	2	0	0	0	0	0	0
	YTD	233	0	3	0	0	0	0	0	0

### Dead Birds

	Number Tested	WNV Positive
Week	288	55
YTD	2743	151

### Sentinel Chickens\* and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Flavivirus Positive
	YTD	16,424	11	0	0	29
Mosquito pools	Week	635	109	1	0	0
	YTD	7486	166	1	0	0

\*Total includes local agency submission

### Mosquito pools tested by local agencies

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Other Positive
	YTD	2179	16	0	0	0
RAMP	Week	125	2	N/A	N/A	N/A
	YTD	681*	6	--	--	--

\* total has been adjusted

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## POSITIVES

### Humans

County	ID #	Report Date	Age	Sex	Clinical Presentation	Onset Date	WNV Fatality?
SUTTER	06-0002	7/17/2006	>18	N/A	WNF <sup>^</sup>	7/15/2006	NO
KERN	06-0003	7/17/2006	46	M	WNND	7/5/2006	NO
SAN JOAQUIN	06-0004	7/19/2006	>18	F	WNND	7/7/2006	NO
STANISLAUS	06-0005	7/19/2006	19	F	WNF	7/15/2006	NO

<sup>^</sup> Initially identified in an asymptomatic blood donor

### Mosquito Pools

Agency Code	County	City	Species	Pool #	Collected	Tested	Virus
AFSB0038	Kern	Shafter	Cx tarsalis	5520	6/29/2006	7/20/2006	WN
AFSB0038	Kern	Shafter	Cx tarsalis	5586	7/13/2006	7/20/2006	WN
AFSB0038	Kern	Shafter	Cx tarsalis	5587	7/13/2006	7/20/2006	WN
AFSB0038	Kern	Shafter	Cx tarsalis	5588	7/13/2006	7/21/2006	WN
AFSB0038	Kern	Shafter	Cx tarsalis	5589	7/13/2006	7/20/2006	WN
AFSB0038	Kern	Shafter	Cx tarsalis	5590	7/13/2006	7/20/2006	WN
AFSB0039	Kern	Shafter	Cx tarsalis	5595	7/13/2006	7/20/2006	WN
AFSB0040	Kern	Lost Hills	Cx tarsalis	5565	7/13/2006	7/20/2006	WN
AFSB0045	Kern	Bakersfield	Cx tarsalis	5605	7/13/2006	7/20/2006	WN
AFSB0056	Kern	Buttonwillow	Cx tarsalis	5597	7/13/2006	7/20/2006	WN
AFSB0056	Kern	Buttonwillow	Cx tarsalis	5599	7/13/2006	7/20/2006	WN
AFSB0056	Kern	Buttonwillow	Cx quinquefasciatus	5603	7/13/2006	7/20/2006	WN
AFSB0060	Kern	Buttonwillow	Cx tarsalis	5600	7/13/2006	7/20/2006	WN
AFSB0060	Kern	Buttonwillow	Cx tarsalis	5601	7/13/2006	7/20/2006	WN
AFSB0060	Kern	Buttonwillow	Cx tarsalis	5602	7/13/2006	7/20/2006	WN
AFSB0060	Kern	Buttonwillow	Cx quinquefasciatus	5604	7/13/2006	7/20/2006	WN
AFSB0062	Kern	Lost Hills	Cx tarsalis	5567	7/13/2006	7/20/2006	WN
AFSB0089	Kern	Lost Hills	Cx tarsalis	5568	7/13/2006	7/20/2006	WN
AFSB0089	Kern	Lost Hills	Cx tarsalis	5572	7/13/2006	7/20/2006	WN
AFSB0089	Kern	Lost Hills	Cx erythrothorax	5577	7/13/2006	7/20/2006	WN
AFSB0090	Kern	Lost Hills	Cx tarsalis	5579	7/13/2006	7/20/2006	WN
AFSB0090	Kern	Lost Hills	Cx erythrothorax	5581	7/13/2006	7/20/2006	WN
AFSB0090	Kern	Lost Hills	Cx erythrothorax	5582	7/13/2006	7/20/2006	WN
AFSB0102	Kern	Bakersfield	Cx quinquefasciatus	5557	7/11/2006	7/20/2006	WN
AFSB1002	Kern	Bakersfield	Cx quinquefasciatus	5563	7/11/2006	7/20/2006	WN
CNSL0103	Fresno	Clovis	Cx quinquefasciatus	123	7/13/2006	7/19/2006	WN
CNSL0103	Fresno	Clovis	Cx quinquefasciatus	124	7/13/2006	7/19/2006	WN
CNSL1062	Fresno	Fresno	Cx quinquefasciatus	135	7/14/2006	7/19/2006	WN
CNSL1118	Fresno	Fresno	Cx quinquefasciatus	138	7/14/2006	7/21/2006	WN
CNSL1123	Fresno	Fresno	Cx tarsalis	99	7/6/2006	7/17/2006	WN
CNSL1141	Fresno	Fresno	Cx quinquefasciatus	140	7/18/2006	7/19/2006	WN
CNSL1144	Fresno	Fresno	Cx quinquefasciatus	141	7/18/2006	7/21/2006	WN
CNSL1151	Fresno	Clovis	Cx quinquefasciatus	128	7/13/2006	7/21/2006	WN
CNSL2062	Fresno	Sanger	Cx quinquefasciatus	115	7/12/2006	7/19/2006	WN
CNSL3031	Fresno	Orange Cove	Cx tarsalis	237	7/11/2006	7/21/2006	WN
CNSL4013	Fresno	Fowler	Cx quinquefasciatus	228	7/7/2006	7/21/2006	WN
CNSL4014	Fresno	Fowler	Cx quinquefasciatus	227	7/7/2006	7/17/2006	WN
CNSL6034	Fresno	Riverdale	Cx quinquefasciatus	220	7/6/2006	7/17/2006	WN
CNTR3012	Contra Costa	Concord	Cx tarsalis	159	7/18/2006	7/20/2006	WN

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CNTR8152	Contra Costa	Knightsen	Cx tarsalis	142	7/18/2006	7/21/2006	WN
COAV0200	Riverside	Mecca	Cx tarsalis	1072	7/14/2006	7/20/2006	WN
COAV5002	Imperial	Niland	Cx tarsalis	1063	7/12/2006	7/20/2006	WN
COAV5003	Imperial	Westmoreland	Cx tarsalis	1065	7/12/2006	7/20/2006	WN
DAVI5101*	Yolo	Davis	Cx tarsalis	565	7/13/2006	7/17/2006	WN
DAVI5115*	Yolo	Davis	Cx tarsalis	632	7/14/2006	7/17/2006	WN
DAVI5115*	Yolo	Davis	Cx pipiens	634	7/14/2006	7/17/2006	WN
EAST1007	Stanislaus	Modesto	Cx tarsalis	60031	7/18/2006	7/20/2006	WN
EDVC1002	El Dorado	S. Lake Tahoe	Cs incidens	4	7/19/2006	7/20/2006	WN
KERN0008	Kern	Bakersfield	Cx tarsalis	297	7/11/2006	7/21/2006	WN
KERN0013	Kern	Bakersfield	Cx tarsalis	298	7/11/2006	7/20/2006	WN
KERN0015	Kern	Pumpkin Center	Cx tarsalis	299	7/11/2006	7/20/2006	WEE, WN
KERN0033	Kern	Arvin	Cx tarsalis	314	7/12/2006	7/20/2006	WN
KERN0036	Kern	Bakersfield	Cx tarsalis	303	7/11/2006	7/20/2006	WN
KERN0036	Kern	Bakersfield	Cx tarsalis	304	7/11/2006	7/20/2006	WN
KERN0046	Kern	Wasco	Cx tarsalis	275	6/28/2006	7/20/2006	WN
KERN2002	Kern	Bakersfield	Cx quinquefasciatus	319	7/14/2006	7/21/2006	WN
KERN2002	Kern	Bakersfield	Cx quinquefasciatus	320	7/14/2006	7/20/2006	WN
KERN2010	Kern	Bakersfield	Cx quinquefasciatus	324	7/14/2006	7/21/2006	WN
KERN2018	Kern	Bakersfield	Cx quinquefasciatus	331	7/14/2006	7/20/2006	WN
KERN2020	Kern	Bakersfield	Cx quinquefasciatus	333	7/14/2006	7/20/2006	WN
KERN2020	Kern	Bakersfield	Cx quinquefasciatus	334	7/14/2006	7/21/2006	WN
KNGS3006	Kings	Lemoore NAS	Cx tarsalis	156	7/11/2006	7/18/2006	WN
KNGS3018	Kings	Lemoore	Cx tarsalis	165	7/13/2006	7/18/2006	WN
KNGS3018	Kings	Lemoore	Cx tarsalis	167	7/13/2006	7/18/2006	WN
KNGS3018	Kings	Lemoore	Cx tarsalis	169	7/13/2006	7/18/2006	WN
KNGS3018	Kings	Lemoore	Cx tarsalis	172	7/13/2006	7/21/2006	WN
KNGS3018	Kings	Lemoore	Cx tarsalis	173	7/13/2006	7/18/2006	WN
KNGS3027	Kings	Lemoore	Cx tarsalis	146	7/11/2006	7/21/2006	WN
KNGS3027	Kings	Lemoore	Cx tarsalis	153	7/11/2006	7/18/2006	WN
PLCR0275	Placer	Roseville	Cx pipiens	134	7/11/2006	7/18/2006	WN
SAYO1106*	Yolo	Woodland	Cx tarsalis	1398	7/13/2006	7/17/2006	WN
SAYO2108*	Sacramento	Sacramento	Cx pipiens	1366	7/13/2006	7/14/2006	WN
SAYO2108*	Sacramento	Sacramento	Cx pipiens	1368	7/13/2006	7/14/2006	WN
SAYO3233*	Yolo	Woodland	Cx tarsalis	1448	7/14/2006	7/17/2006	WN
SAYO3334*	Yolo	Davis	Cx tarsalis	1454	7/14/2006	7/17/2006	WN
SAYO3337*	Yolo	Davis	Cx pipiens	1485	7/14/2006	7/17/2006	WN
SAYO5122*	Yolo	Davis	Cx tarsalis	1489	7/14/2006	7/17/2006	WN
SAYO8228*	Solano	South of Davis	Cx tarsalis	1492	7/14/2006	7/17/2006	WN
SJCM8018	San Joaquin	El Rancho	Cx tarsalis	6538	7/14/2006	7/20/2006	WN
SJCM8018	San Joaquin	El Rancho	Cx tarsalis	6539	7/14/2006	7/20/2006	WN
SJCM8018*	San Joaquin	Stockton	Cx tarsalis	6593	7/18/2006	7/19/2006	WN
SJCM8056	San Joaquin	Manteca	Cx tarsalis	6507	7/12/2006	7/20/2006	WN
SJCM8056	San Joaquin	Manteca	Cx pipiens	6508	7/12/2006	7/21/2006	WN
SJCM8079*	San Joaquin	Manteca	Cx tarsalis	6604	7/18/2006	7/19/2006	WN
SJCM8100	San Joaquin	Tracy	Cx pipiens	6533	7/12/2006	7/20/2006	WN
SUYA0000	Sutter		Cx tarsalis	152		7/19/2006	WN
SUYA0000	Sutter		Cx tarsalis	156		7/19/2006	WN
SUYA0000	Sutter		Cx tarsalis	157		7/19/2006	WN
SUYA0000	Sutter		Cx tarsalis	158		7/19/2006	WN
SUYA0000	Sutter		Cx tarsalis	162		7/21/2006	WN
SUYA0000	Sutter		Cx tarsalis	163		7/19/2006	WN

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SUYA0000	Sutter		Cx tarsalis	166		7/21/2006	WN
SUYA0000	Sutter		Cx tarsalis	176		7/19/2006	WN
SUYA0000	Sutter		Cx tarsalis	177		7/19/2006	WN
SUYA0000	Sutter		Cx tarsalis	179		7/19/2006	WN
SUYA0000	Yuba		Cx tarsalis	183		7/19/2006	WN
SUYA0000	Sutter		Cx tarsalis	188		7/19/2006	WN
SUYA0000	Sutter		Cx tarsalis	189		7/19/2006	WN
SUYA0000	Sutter		Cx tarsalis	190		7/19/2006	WN
SUYA0000	Sutter		Cx tarsalis	191		7/19/2006	WN
SUYA0000	Sutter		Cx tarsalis	208		7/19/2006	WN
SUYA0000	Sutter		Cx tarsalis	209		7/21/2006	WN
SUYA0000	Sutter		Cx tarsalis	210		7/19/2006	WN
WEST6201	Kern	Maricopa	Cx tarsalis	45	7/19/2006	7/20/2006	WN
WEST6206	Kern	Kern Water Bank	Cx tarsalis	20	7/12/2006	7/17/2006	WN
WEST6206	Kern	Kern Water Bank	Cx tarsalis	21	7/12/2006	7/17/2006	WN
WEST6206	Kern	Kern Water Bank	Cx tarsalis	22	7/12/2006	7/17/2006	WN
WEST6206	Kern	Kern Water Bank	Cx tarsalis	23	7/12/2006	7/17/2006	WN
WEST6206	Kern	Kern Water Bank	Cx tarsalis	25	7/12/2006	7/21/2006	WN
WEST6206	Kern	Kern Water Bank	Cx tarsalis	28	7/12/2006	7/17/2006	WN
WEST6206	Kern	Kern Water Bank	Cx tarsalis	30	7/12/2006	7/17/2006	WN
WEST6206	Kern	Kern Water Bank	Cx tarsalis	31	7/12/2006	7/17/2006	WN
WEST6206	Kern	Kern Water Bank	Cx tarsalis	32	7/12/2006	7/17/2006	WN
WEST6206	Kern	Kern Water Bank	Cx tarsalis	34	7/12/2006	7/17/2006	WN
WEST6206	Kern	Kern Water Bank	Cx tarsalis	37	7/12/2006	7/17/2006	WN
WEST6206	Kern	Kern Water Bank	Cx tarsalis	38	7/12/2006	7/17/2006	WN
WEST6206	Kern	Kern Water Bank	Cx tarsalis	41	7/12/2006	7/17/2006	WN
WEST6206	Kern	Kern Water Bank	Cx tarsalis	46	7/19/2006	7/20/2006	WN
WEST6206	Kern	Kern Water Bank	Cx tarsalis	47	7/19/2006	7/21/2006	WN
WEST6206	Kern	Kern Water Bank	Cx tarsalis	49	7/19/2006	7/20/2006	WN
WEST6206	Kern	Kern Water Bank	Cx tarsalis	50	7/19/2006	7/20/2006	WN
WEST6206	Kern	Kern Water Bank	Cx tarsalis	52	7/19/2006	7/20/2006	WN

\*Tested by local agency

## Sentinel Chicken Seroconversions

Agency Code	County	Nearest City	Probable Seroconversion Date	Band #	Virus
CNSL 5001	Fresno	Friant Dam	6/26/2006	1341	WNV
COAV 5001	Imperial	Niland	7/10/2006	1243	WNV
COAV 5001	Imperial	Niland	7/10/2006	1244	WNV
COAV 5001	Imperial	Niland	7/10/2006	1246	WNV
COAV 5002	Imperial	Niland	7/10/2006	1251	Flavivirus
COAV 5002	Imperial	Niland	7/10/2006	1252	Flavivirus
COAV 5002	Imperial	Niland	7/10/2006	1254	Flavivirus
COAV 5002	Imperial	Niland	7/10/2006	1256	Flavivirus
COAV 5002	Imperial	Niland	7/10/2006	1259	Flavivirus
COAV 5002	Imperial	Niland	7/10/2006	1260	Flavivirus
COAV 5002	Imperial	Niland	7/10/2006	1273	Flavivirus
COAV 5002	Imperial	Niland	7/10/2006	1287	Flavivirus

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COAV 5003	Imperial	Westmoreland	7/10/2006	1265	Flavivirus
COAV 5003	Imperial	Westmoreland	7/10/2006	1266	Flavivirus
COAV 5003	Imperial	Westmoreland	7/10/2006	1267	Flavivirus
COAV 5003	Imperial	Westmoreland	7/10/2006	1270	Flavivirus
SAYO 6000	Yolo	Dunnigan	7/18/2006	2788	Flavivirus
SAYO 6000	Yolo	Dunnigan	7/18/2006	2791	Flavivirus
SAYO 6002	Yolo	Woodland	7/18/2006	2755	Flavivirus
SAYO 6003	Yolo	Winters	7/18/2006	2760	Flavivirus
SAYO 6003	Yolo	Winters	7/18/2006	2767	Flavivirus
SAYO 6003	Yolo	Winters	7/18/2006	2769	Flavivirus

### WNV Positive Dead Birds

Species	County	City	ZIP	Collected	Tested	Tested By
American Crow	Butte	Oroville	95966	07/05/06	07/17/06	RT-PCR
American Crow	Fresno	Clovis	93612	07/10/06	07/10/06	VecTest
American Crow	Fresno	Clovis	93611	07/10/06	07/10/06	VecTest
American Crow	Fresno	Fresno	93726	07/12/06	07/12/06	VecTest
American Crow	Kern	Bakersfield	93301	07/06/06	07/17/06	RT-PCR
American Crow	Lake	Nice	95464	07/13/06	07/13/06	VecTest
American Crow	Merced	Gustine	95322	07/10/06	07/17/06	RT-PCR
American Crow	Sacramento	Sacramento	95831	07/06/06	07/17/06	RT-PCR
American Crow	San Diego	Spring Valley	91977	07/13/06	07/13/06	VecTest
American Crow	San Joaquin	Lathrop	95330	07/11/06	07/11/06	RAMP
American Crow	San Joaquin	Stockton	95206	07/13/06	07/13/06	RAMP
American Crow	San Joaquin	Tracy	95304	07/11/06	07/11/06	RAMP
American Crow	San Joaquin	Tracy	95376	07/11/06	07/11/06	RAMP
American Crow	San Joaquin	Tracy	95376	07/11/06	07/11/06	RAMP
American Crow	San Joaquin	Tracy	95376	07/11/06	07/11/06	RAMP
American Crow	San Joaquin	Tracy	95304	07/12/06	07/12/06	RAMP
American Crow	San Joaquin	Tracy	95304	07/13/06	07/13/06	RAMP
American Crow	San Joaquin	Tracy	95304	07/14/06	07/14/06	RAMP
American Crow	Santa Clara	San Jose	95129	07/12/06	07/12/06	VecTest
American Crow	Santa Clara	Saratoga	95070	07/08/06	07/08/06	VecTest
American Crow	Santa Clara	Saratoga	95070	07/10/06	07/10/06	VecTest
American Crow	Santa Clara	Sunnyvale	94086	07/10/06	07/10/06	VecTest
American Crow	Shasta	Redding	96001	07/14/06	07/14/06	VecTest
American Crow	Shasta	Redding	96001	07/17/06	07/17/06	VecTest
American Crow	Shasta	Redding	96001	07/17/06	07/17/06	VecTest
American Crow	Shasta	Redding	96001	07/17/06	07/17/06	VecTest
American Crow	Solano	Fairfield	94533	07/11/06	07/11/06	RAMP
American Crow	Solano	Vacaville	95687	07/10/06	07/10/06	RAMP
American Crow	Solano	Vacaville	95687	07/09/06	07/09/06	RAMP
American Crow	Solano	Vacaville	95687	07/14/06	07/14/06	RAMP
American Crow	Stanislaus	Hughson	95326	07/06/06	07/17/06	RT-PCR
American Crow	Stanislaus	Turlock	95380	07/05/06	07/17/06	RT-PCR
American Crow	Stanislaus	Turlock	95380	07/07/06	07/17/06	RT-PCR

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American Crow	Yolo	Davis	95616	07/10/06	07/17/06	RT-PCR
American Crow	Yolo	Davis	95616	07/12/06	07/17/06	RT-PCR
American Robin	Kern	Bakersfield	93306	07/06/06	07/17/06	RT-PCR
American Robin	San Bernardino	Lake Arrowhead	92352	07/05/06	07/17/06	RT-PCR
Brewer's Blackbird	Fresno	Fresno	93711	07/03/06	07/17/06	RT-PCR
European Starling	Kings	Corcoran	93212	07/06/06	07/17/06	RT-PCR
Great Horned Owl	San Joaquin	Tracy	95376	07/11/06	07/17/06	RT-PCR
Northern Mockingbird	Fresno	Fresno	93711	07/03/06	07/17/06	RT-PCR
Red-shouldered Hawk	Stanislaus	Newman	95360	07/05/06	07/17/06	RT-PCR
Swainson's Hawk	Kings	Corcoran	93212	07/06/06	07/17/06	RT-PCR
Unknown	Kern	Bakersfield	93311	07/04/06	07/17/06	RT-PCR
Western Bluebird	Stanislaus	Modesto	95358	07/06/06	07/17/06	RT-PCR
Western Scrub-Jay	Contra Costa	Lafayette	94549	07/10/06	07/10/06	RAMP
Western Scrub-Jay	Fresno	Firebaugh	93622	07/06/06	07/17/06	RT-PCR
Western Scrub-Jay	Fresno	Fresno	93705	07/09/06	07/17/06	RT-PCR
Western Scrub-Jay	Fresno	Fresno	93705	07/10/06	07/17/06	RT-PCR
Western Scrub-Jay	Fresno	Clovis	93611	07/13/06	07/13/06	VecTest
Western Scrub-Jay	Stanislaus	Modesto	95354	07/05/06	07/17/06	RT-PCR
Western Scrub-Jay	Stanislaus	Newman	95360	07/05/06	07/17/06	RT-PCR
Western Scrub-Jay	Yolo	Davis	95616	07/10/06	07/17/06	RT-PCR
Western Scrub-Jay	Yolo	Woodland	95776	07/12/06	07/17/06	RT-PCR
Yellow-billed Magpie	Yolo	Davis	95616	07/10/06	07/17/06	RT-PCR

**National Comments:** As of July 18, 2006, WNV activity had been reported from 32 states and New York City (NYC). A total of 15 human cases were reported nationwide from ten states: California (1), Colorado (1), Idaho (1), Iowa (1), Kansas (1), Mississippi (2), Missouri (1), Nebraska (2), South Dakota (3), and Texas (2). Nine of the cases (60%) presented with West Nile neuroinvasive disease, i.e. encephalitis or meningitis. The median age of the 15 cases was 50 years (range: 9-89 years) and 60% were male. No WNV-associated fatalities have been reported in 2006.

# California Arbovirus Surveillance Bulletin # 22 (corrected)

Week 29 Friday, July 21, 2006

## TEST PROTOCOLS

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### **Dead Birds:**

All bird 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 are necropsied at the California Animal Health and Food Safety (CAHFS) laboratory at UC Davis. Oral swabs from American Crows and kidney tissue from all other dead birds are forward 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 submitted each week to the DHS Viral and Rickettsial Disease Laboratory (VRDL) are 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. The VRDL performs additional testing, including plaque reduction neutralization (PRNT), on specimens from sentinel chickens from geographic areas where WNV is detected for the first time.

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### **Mosquito Pools:**

All mosquito pools are 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) and the Viral and Rickettsial Disease Laboratory Branch, Division of Communicable Disease Control, California Department of Health Services, 850 Marina Bay Parkway, Richmond, CA 94804. Questions concerning this bulletin should be addressed to Tina Albrecht by phone (510) 412-6298, FAX (510) 412-6263, or email [talbrech@dhs.ca.gov].*