

# California Arbovirus Surveillance Bulletin # 17

Week 32 Friday, August 13, 2004

## Weekly Summary

### California Weekly Summary Comments:

#### **Humans:**

This week, California reported sixty-five new humans infected with West Nile virus (WNV).

As of August 12, 2004, a total of 168 WNV infections have been reported from the following counties: San Bernardino (67), Los Angeles (53), Orange (6), Imperial (1), Kern (2), Fresno (2), Tulare (1), and Yolo (1). Eight of the WNV infections were initially detected in asymptomatic individuals through screening done at blood banks - one of the individuals later became symptomatic. Of the 161 WNV cases with symptoms, 75 are classified as West Nile fever, 70 are classified as West Nile neuroinvasive disease, and 16 are of unknown status. The median age for all cases where the data was available equals 50 years (range: 9-91 years). Median age for West Nile fever cases equals 46.5 years (range 9-90 years). Median age for West Nile neuroinvasive disease cases equals 59 years (range: 15-92 years). Sixty-seven percent (108/161) of the cases are male. There have been five fatalities to date in California in Orange (1), San Bernardino (2), and Los Angeles (2) counties.

#### **Equine:**

The California Department of Food & Agriculture confirmed 25 WNV equine cases from Riverside (12), Sacramento (4) Tehama (1), San Bernardino (2), Alpine (1), Butte (1), Fresno (1), Orange (1), San Diego (1), and Ventura (1) counties this past week. This is the first reporting of positive equine cases for Alpine, Butte, Orange, San Diego and Ventura counties. Currently, the YTD stands at 87 positive horses. Forty-eight horses have died or euthanatized from the WNV infection.

#### **Dead Birds:**

The hotline received 5,684 reported dead birds last week (YTD = 50,906). The UC Davis Center for Vectorborne Diseases (CVEC) reported 148 out of 260 dead birds submitted in the past week have tested positive for WNV by RT-PCR: 71 American crows, 24 western scrub jays, 21 yellow-billed magpies, 8 common ravens, 6 Cooper's hawks, 2 American robins, 4 barn owls, 2 Brewer's blackbirds, 3 finches, 2 northern mockingbirds, 2 sparrows, 1 red-shouldered hawk, 1 Rufous-throated hummingbird, and 2 Steller's jays. The American robin, Rufous-throated hummingbird, and Steller's jays were the first of their species tested positive for WNV this year. The YTD stands at 1,249 positive bird carcasses.

The positive birds were collected within 23 counties: Los Angeles (45), Butte (21), Orange (14), Kern (9), Riverside (8), Shasta (8), Glenn (7), Santa Clara (7), Fresno (4), Tehama (4), Sacramento (4), Ventura (3), Alameda (3), San Diego (2), El Dorado (1), Mendocino (1), Humboldt (1), Marin (1), Placer (1), Solano (1), Sonoma (1), Stanislaus (1), and Tulare (1). **These are the first WNV positive dead bird results from the counties of Alameda, El Dorado, Glenn, Humboldt, Marin, Placer, Solano, Sonoma, and Stanislaus.**

A cumulative total of 260 dead birds were tested from 27 or the 28 WNV positive counties. Thus 57.3% (149/260) of the birds tested from these counties were WNV positive. Twelve dead birds from eight other counties in CA tested negative this week.

#### **News Flash:**

CVEC reported Wednesday that 197 of 207 dead birds have tested positive for WNV. The positive birds were collected within the 33 counties of Alameda (1), Butte (48), Calaveras (1), Contra Costa (1), El Dorado (2), Fresno (9), Glenn (5), Kern (3), Lake (1), Lassen (1), Los Angeles (37), Mariposa (1), Mendocino (1), Orange (20), Placer (1), Plumas (1), Riverside (1), Sacramento (16), San Diego (1), San Joaquin (2), San Luis Obispo (1), San Mateo (1), Santa Barbara (1), Shasta (4), Sierra (1), Solano (1), Sonoma (7), Stanislaus (3), Sutter (2), Tehama (18), Tulare (1), Yolo (1), and Yuba (1). **These are the first WNV positive bird results from the counties of Calaveras, Lake, Lassen, Mariposa, Plumas, San Luis Obispo, San Mateo, Sierra, Sutter, Yolo, and Yuba.**

# California Arbovirus Surveillance Bulletin # 17

Week 32 Friday, August 13, 2004

## Mosquito Pools:

CVEC reported 109 WNV positive pools from Los Angeles (43), Orange (30), San Bernardino (26), Kern (4), Shasta (3), Riverside (1), Sacramento (1), and San Luis Obispo (1) counties. Together with the first WNV positive bird, this is also the first positive mosquito activity reported in San Luis Obispo County. Additionally, this is the first detection of viral activity in two new mosquito species other than Culex mosquitoes: *Anopheles hermsi* and *Ochlerotatus squamiger*. To date, the YTD stands at 523 positive pools.

**Correction: For Bulletin # 16, the Greater Los Angeles County VCD requested the correction of *Culex quinquefasciatus* to replace *Cx. erythrothorax* in GRLA pool # 852.**

## Chickens:

Fourteen WNV chicken seroconversions were detected in six flocks from Imperial (1), Los Angeles (1), and San Bernardino (4) counties. Of the 14 seroconversion, five positives came from two new flocks in Imperial (1) and Los Angeles (1) counties. The current YTD total stands at 214 WNV seroconversions.

## 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.

## TESTING SUMMARIES

### Humans and Equines

		Number Tested	WNV Positive		WEE Positive		SLE Positive		Other Positive	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Individuals Tested	Week	108	0	65	0	0	0	0	0	0
	YTD	716	0	168	0	0	0	0	0	0
Suspect Equine Cases	Week	48	0	25	0	0	0	0	0	0
	YTD	340	0	87	0	0	0	0	0	0

### Dead Birds

	Number Tested	WNV Positive
Week	272	148
YTD	2525	1,249

### Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Other Positive
Chicken sera	Week	1305*	14	0	0	0
	YTD	19,234	214	0	0	0
Mosquito pools	Week	517	109	0	0	0
	YTD	7809	523	0	0	0

\*This total has been adjusted to include local agency submissions

### Human Positives Reported:

### POSITIVES

Virus	Date of Onset	Status	Diagnosis	County	Imported/Local	From
WNV	7/20/04	Probable	West Nile Fever	San Bernardino	Local	
WNV	7/21/04	Probable	West Nile Fever	San Bernardino	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	7/25/04	Probable	West Nile Neuroinvasive Disease	San Bernardino	Local	
WNV	7/16/04	Probable	West Nile Fever	San Bernardino	Local	
WNV	7/30/04	Probable	West Nile Neuroinvasive Disease	Los Angeles	Local	
WNV	7/15/04	Probable	West Nile Neuroinvasive Disease	Los Angeles	Local	
WNV	6/28/04	Probable	West Nile Neuroinvasive Disease	Los Angeles	Local	
WNV	7/28/04	Probable	West Nile Fever	Los Angeles	Local	
WNV	7/30/04	Probable	West Nile Neuroinvasive Disease	Los Angeles	Local	
WNV	8/02/04	Probable	West Nile Neuroinvasive Disease	Los Angeles	Local	
WNV	7/27/04	Probable	West Nile Neuroinvasive Disease	Riverside	Local	
WNV	7/29/04	Probable	West Nile Fever	Riverside	Local	
WNV	7/30/04	Probable	West Nile Neuroinvasive Disease	Riverside	Local	
WNV	8/01/04	Probable	West Nile Neuroinvasive Disease	Riverside	Local	
WNV	8/02/04	Probable	West Nile Neuroinvasive Disease	Riverside	Local	
WNV	7/12/04	Probable	West Nile Neuroinvasive Disease	Riverside	Local	
WNV	8/04/04	Probable	West Nile Neuroinvasive Disease	Riverside	Local	
WNV	7/30/04	Probable	West Nile Fever	Riverside	Local	
Virus	Date of Onset	Status	Diagnosis	County	Imported/Local	From
WNV	7/26/04	Probable	West Nile Fever	Riverside	Local	
WNV	8/01/04	Probable	West Nile Neuroinvasive Disease	Riverside	Local	

# California Arbovirus Surveillance Bulletin # 17

Week 32    Friday, August 13, 2004

WNV	7/31/04	Probable	West Nile Neuroinvasive Disease	Riverside	Local
WNV	6/30/04	Probable	West Nile Fever	Riverside	Local
WNV	8/06/04	Probable	West Nile Fever	Riverside	Local
WNV	8/03/04	Probable	West Nile Fever	Riverside	Local
WNV	Week 30	Probable	West Nile Fever	Yolo	Local
WNV	Unknown	Probable	Unknown	Los Angeles	Local
WNV	Unknown	Probable	Unknown	Los Angeles	Local
WNV	Unknown	Probable	Unknown	Los Angeles	Local
WNV	Unknown	Probable	Unknown	Riverside	Local
WNV	Unknown	Probable	Unknown	San Bernardino	Local
WNV	7/13/04	Probable	West Nile Fever	Riverside	Local
WNV	7/23/04	Probable	West Nile Neuroinvasive Disease	Los Angeles	Local
WNV	Week 31	Probable	Unknown	Los Angeles	Local
WNV	7/23/04	Probable	West Nile Fever	Los Angeles	Local
WNV	7/27/04	Probable	West Nile Fever	Orange	Local
WNV	Unknown	Probable	West Nile Fever	San Bernardino	Local
WNV	Unknown	Probable	West Nile Fever	San Bernardino	Local
WNV	Unknown	Probable	West Nile Fever	San Bernardino	Local
WNV	Unknown	Probable	West Nile Neuroinvasive Disease	San Bernardino	Local
WNV	7/30/04	Probable	West Nile Neuroinvasive Disease	Los Angeles	Local
WNV	7/12/04	Probable	West Nile Fever	San Bernardino	Local
WNV	7/12/04	Probable	West Nile Fever	San Bernardino	Local
WNV	7/12/04	Probable	West Nile Neuroinvasive Disease	Los Angeles	Local
WNV	7/12/04	Probable	West Nile Fever	Los Angeles	Local
WNV	7/23/04	Probable	West Nile Fever	Los Angeles	Local
WNV	7/24/04	Probable	West Nile Neuroinvasive Disease	Los Angeles	Local
WNV	7/28/04	Probable	West Nile Neuroinvasive Disease	Los Angeles	Local
WNV	7/29/04	Probable	West Nile Fever	Orange	Local
WNV	7/24/04	Probable	West Nile Neuroinvasive Disease	San Bernardino	Local
WNV	7/02/04	Probable	West Nile Fever	San Bernardino	Local
WNV	7/25/04	Probable	West Nile Fever	San Bernardino	Local
WNV	8/02/04	Probable	West Nile Neuroinvasive Disease	Orange	Local
WNV	7/31/04	Probable	West Nile Fever	Los Angeles	Local
WNV	7/12/04	Probable	West Nile Neuroinvasive Disease	Orange	Local
WNV	8/03/04	Probable	West Nile Neuroinvasive Disease	Los Angeles	Local
WNV	8/01/04	Probable	West Nile Neuroinvasive Disease	Los Angeles	Local
WNV	7/28/04	Probable	West Nile Fever	Los Angeles	Local
WNV	Unknown	Probable	West Nile Fever	Los Angeles	Local
WNV	8/05/04	Probable	West Nile Neuroinvasive Disease	Los Angeles	Local
WNV	7/25/04	Probable	West Nile Fever	San Bernardino	Local
WNV	Week 30	Probable	West Nile Neuroinvasive Disease	Los Angeles	Local
WNV	8/07/04	Probable	West Nile Neuroinvasive Disease	Ventura	Local
WNV	Not Applicable	Probable	Assymptomatic – Blood Bank	Los Angeles	Local
WNV	Not Applicable	Probable	Assymptomatic – Blood Bank	Riverside	Local
WNV	Not Applicable	Probable	Assymptomatic – Blood Bank	San Bernardino	Local

\*Indicates fatality

## Chicken Seroconversions Reported by DHS:

Virus	County	State	Acode	City	Location
**** WNV	Imperial	CA	IMPR002	Seeley	Campbell Road flock
<b>Bands:</b>	3884, 3887				<b>Probable Seroconversion Date:</b> 13-July-04
WNV	Imperial	CA	IMPR002	Seeley	Campbell Road flock
<b>Bands:</b>	3888, 3889				<b>Probable Seroconversion Date:</b> 27-July-04
**** WNV	Los Angeles	CA	GRLA2002	Long Beach	El Dorado Park
<b>Bands:</b>	3913, 3915, 3919				<b>Probable Seroconversion Date:</b> 12-July-04
WNV	San Bernardino	CA	WVAL0001	Chino	8822 Kimball
<b>Bands:</b>	3803, 3805				<b>Probable Seroconversion Date:</b> 28-July-04
WNV	San Bernardino	CA	WVAL0002	Chino	Dog Club & 71 Frwy
<b>Bands:</b>	3807				<b>Probable Seroconversion Date:</b> 28-July-04
WNV	San Bernardino	CA	WVAL0003	Chino	Pump Station
<b>Bands:</b>	3813, 3814				<b>Probable Seroconversion Date:</b> 28-July-04
WNV	San Bernardino	CA	WVAL0007	Montclair	Water District
<b>Band:</b>	3835, 3840				<b>Probable Seroconversion Date:</b> 28-July-04

\*\*\*\*Indicates a new flock

# California Arbovirus Surveillance Bulletin # 17

Week 32    Friday, August 13, 2004

## Virus Isolations From Mosquito Pools:

Virus	Mosquito species	Date Collected	ACODE	Pool #	City	County	Date Received
WNV	Culex tarsalis	29-Jul	AFSB	326	Arvin	Kern	5-Aug
WNV	Culex quinquefasciatus	27-Jul	GRLA	883	Long Beach	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	27-Jul	GRLA	884	Long Beach	Los Angeles	5-Aug
WNV	Culex erythrothorax	28-Jul	GRLA	1642	Chatsworth	Los Angeles	5-Aug
WNV	Culex tarsalis	28-Jul	GRLA	1648	Chatsworth	Los Angeles	5-Aug
WNV	Anopheles hermsi	29-Jul	GRLA	1649	Chatsworth	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	29-Jul	GRLA	1656	Mission Hills	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	29-Jul	GRLA	1651	Northridge	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	29-Jul	GRLA	1657	Northridge	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	29-Jul	GRLA	1659	Northridge	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	29-Jul	GRLA	1660	Northridge	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	29-Jul	GRLA	895	Los Angeles	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	29-Jul	GRLA	896	Los Angeles	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	29-Jul	GRLA	897	Los Angeles	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	29-Jul	GRLA	898	Los Angeles	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	29-Jul	GRLA	900	Los Angeles	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	29-Jul	GRLA	904	Los Angeles	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	29-Jul	GRLA	905	Los Angeles	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	29-Jul	GRLA	906	Los Angeles	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	29-Jul	GRLA	907	Los Angeles	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	29-Jul	GRLA	908	Los Angeles	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	27-Jul	GRLA	890	Rowland Heights	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	27-Jul	GRLA	891	Rowland Heights	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	28-Jul	GRLA	1613	Encino	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	28-Jul	GRLA	1614	Encino	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	28-Jul	GRLA	1615	Encino	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	28-Jul	GRLA	1616	Encino	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	28-Jul	GRLA	1617	Encino	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	28-Jul	GRLA	1618	Encino	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	28-Jul	GRLA	1620	Encino	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	28-Jul	GRLA	1621	Encino	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	28-Jul	GRLA	1622	Encino	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	28-Jul	GRLA	1623	Encino	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	28-Jul	GRLA	1624	Encino	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	28-Jul	GRLA	1625	Encino	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	28-Jul	GRLA	1627	Encino	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	28-Jul	GRLA	1631	Encino	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	28-Jul	GRLA	1632	Encino	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	29-Jul	GRLA	1655	Encino	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	29-Jul	GRLA	1661	Encino	Los Angeles	5-Aug
WNV	Culex quinquefasciatus	29-Jul	GRLA	1662	Encino	Los Angeles	5-Aug
WNV	Culex tarsalis	27-Jul	KERN	227	Bakersfield	Kern	5-Aug
WNV	Culex tarsalis	28-Jul	KERN	247	Arvin	Kern	5-Aug
WNV	Culex quinquefasciatus	28-Jul	KERN	256	Lamont	Kern	5-Aug
WNV	Culex quinquefasciatus	28-Jul	LONG	225	Long Beach	Los Angeles	30-Jul
WNV	Culex tarsalis	28-Jul	LONG	219	Long Beach	Los Angeles	30-Jul

# California Arbovirus Surveillance Bulletin # 17

Week 32    Friday, August 13, 2004

Virus	Mosquito species	Date Collected	ACODE	Pool #	City	County	Date Received
WNV	Culex tarsalis	28-Jul	LONG	232	Long Beach	Los Angeles	30-Jul
WNV	Culex quinquefasciatus	26-Jul	NWST	353	Norco	Riverside	30-Jul
WNV	Culex quinquefasciatus	20-Jul	ORCO	1143	Fullerton	Orange	30-Jul
WNV	Culex quinquefasciatus	20-Jul	ORCO	1144	Fullerton	Orange	30-Jul
WNV	Culex quinquefasciatus	20-Jul	ORCO	1145	Fullerton	Orange	30-Jul
WNV	Culex quinquefasciatus	27-Jul	ORCO	1185	Fullerton	Orange	30-Jul
WNV	Culex quinquefasciatus	27-Jul	ORCO	1187	Fullerton	Orange	30-Jul
WNV	Culex quinquefasciatus	27-Jul	ORCO	1188	Fullerton	Orange	30-Jul
WNV	Culex quinquefasciatus	27-Jul	ORCO	1189	Fullerton	Orange	30-Jul
WNV	Culex quinquefasciatus	21-Jul	ORCO	1147	Garden Grove	Orange	30-Jul
WNV	Culex quinquefasciatus	21-Jul	ORCO	1167	Santa Ana	Orange	30-Jul
WNV	Culex quinquefasciatus	28-Jul	ORCO	1210	Cypress	Orange	30-Jul
WNV	Culex quinquefasciatus	28-Jul	ORCO	1207	Anaheim	Orange	30-Jul
WNV	Culex quinquefasciatus	28-Jul	ORCO	1200	La Habra	Orange	30-Jul
WNV	Culex quinquefasciatus	21-Jul	ORCO	1148	Brea	Orange	30-Jul
WNV	Culex quinquefasciatus	28-Jul	ORCO	1205	Brea	Orange	30-Jul
WNV	Culex quinquefasciatus	21-Jul	ORCO	1166	Anaheim	Orange	30-Jul
WNV	Culex quinquefasciatus	28-Jul	ORCO	1201	Westminster	Orange	30-Jul
WNV	Culex quinquefasciatus	21-Jul	ORCO	1161	Brea	Orange	30-Jul
WNV	Culex quinquefasciatus	21-Jul	ORCO	1163	Brea	Orange	30-Jul
WNV	Culex quinquefasciatus	28-Jul	ORCO	1206	Brea	Orange	30-Jul
WNV	Culex quinquefasciatus	21-Jul	ORCO	1160	Cypress	Orange	30-Jul
WNV	Culex quinquefasciatus	21-Jul	ORCO	1152	Anaheim	Orange	30-Jul
WNV	Culex stigmatosoma	21-Jul	ORCO	1153	Anaheim	Orange	30-Jul
WNV	Culex quinquefasciatus	28-Jul	ORCO	1203	Anaheim	Orange	30-Jul
WNV	Culex stigmatosoma	28-Jul	ORCO	1204	Anaheim	Orange	30-Jul
WNV	Culex quinquefasciatus	21-Jul	ORCO	1154	Fullerton	Orange	30-Jul
WNV	Culex quinquefasciatus	21-Jul	ORCO	1155	Fullerton	Orange	30-Jul
WNV	Culex quinquefasciatus	21-Jul	ORCO	1156	Fullerton	Orange	30-Jul
WNV	Culex quinquefasciatus	28-Jul	ORCO	1198	Fullerton	Orange	30-Jul
WNV	Culex quinquefasciatus	28-Jul	ORCO	1199	Fullerton	Orange	30-Jul
WNV	Culex quinquefasciatus	27-Jul	ORCO	1186	Anaheim	Orange	30-Jul
WNV	Culex tarsalis	9-Jul	SANB	135	Needles	San Bernardino	4-Aug
WNV	Culex tarsalis	9-Jul	SANB	136	Needles	San Bernardino	4-Aug
WNV	Culex tarsalis	7-Jul	SANB	126	Redlands	San Bernardino	4-Aug
WNV	Culex tarsalis	7-Jul	SANB	127	Redlands	San Bernardino	4-Aug
WNV	Culex stigmatosoma	7-Jul	SANB	128	Redlands	San Bernardino	4-Aug
WNV	Culex quinquefasciatus	7-Jul	SANB	129	Redlands	San Bernardino	4-Aug
WNV	Culex tarsalis	7-Jul	SANB	131	Redlands	San Bernardino	4-Aug
WNV	Culex stigmatosoma	7-Jul	SANB	133	Redlands	San Bernardino	4-Aug
WNV	Culex quinquefasciatus	7-Jul	SANB	134	Redlands	San Bernardino	4-Aug
WNV	Culex quinquefasciatus	15-Jul	SANB	139	Redlands	San Bernardino	4-Aug
WNV	Culex quinquefasciatus	15-Jul	SANB	146	Redlands	San Bernardino	4-Aug
WNV	Culex quinquefasciatus	15-Jul	SANB	148	Redlands	San Bernardino	4-Aug
WNV	Culex tarsalis	15-Jul	SANB	149	Redlands	San Bernardino	4-Aug
WNV	Culex tarsalis	15-Jul	SANB	151	Redlands	San Bernardino	4-Aug
WNV	Culex tarsalis	15-Jul	SANB	152	Redlands	San Bernardino	4-Aug
WNV	Culex tarsalis	15-Jul	SANB	154	Redlands	San Bernardino	4-Aug

# California Arbovirus Surveillance Bulletin # 17

Week 32    Friday, August 13, 2004

Virus	Mosquito species	Date Collected	ACODE	Pool #	City	County	Date Received
WNV	Culex quinquefasciatus	12-Jul	SANB	118	Colton	San Bernardino	4-Aug
WNV	Culex quinquefasciatus	12-Jul	SANB	119	Colton	San Bernardino	4-Aug
WNV	Culex quinquefasciatus	12-Jul	SANB	120	Colton	San Bernardino	4-Aug
WNV	Culex quinquefasciatus	12-Jul	SANB	121	Colton	San Bernardino	4-Aug
WNV	Culex stigmatosoma	12-Jul	SANB	122	Colton	San Bernardino	4-Aug
WNV	Culex tarsalis	12-Jul	SANB	124	Colton	San Bernardino	4-Aug
WNV	Culex tarsalis	12-Jul	SANB	125	Colton	San Bernardino	4-Aug
WNV	Culex quinquefasciatus	12-Jul	SANB	114	Fontana	San Bernardino	4-Aug
WNV	Culex quinquefasciatus	12-Jul	SANB	115	Fontana	San Bernardino	4-Aug
WNV	Culex tarsalis	12-Jul	SANB	116	Fontana	San Bernardino	4-Aug
WNV	Culex pipiens	31-Jul	SAYO	695	n/a	Sacramento	2-Aug
WNV	Culex stigmatosoma	4-Aug	SHAS	86	Redding	Shasta	5-Aug
WNV	Culex tarsalis	4-Aug	SHAS	87	Redding	Shasta	5-Aug
WNV	Culex tarsalis	4-Aug	SHAS	89	Redding	Shasta	5-Aug
WNV	Ochlerotatus squamiger	2-Aug	SLOC	311	Morro Bay	San Luis Obispo	3-Aug

## Dead Birds Tested Positive for WNV last week

Species	County	City	Zip	Date Collected	Date Tested
American Crow	Alameda	Berkeley	94705	7/28/2004	8/2/2004
American Crow	Alameda	Livermore	94551	7/27/2004	8/2/2004
Barn Owl	Alameda	Livermore	94550	7/22/2004	8/2/2004
Yellow-billed Magpie	Butte	Biggs	95917	7/26/2004	8/2/2004
Yellow-billed Magpie	Butte	Biggs	95917	7/27/2004	8/3/2004
American Crow	Butte	Chico	95926	7/27/2004	8/2/2004
Common Raven	Butte	Chico	95928	7/25/2004	8/2/2004
Common Raven	Butte	Chico	95928	7/27/2004	8/2/2004
Western Scrub-Jay	Butte	Chico	95928	7/26/2004	8/2/2004
Western Scrub-Jay	Butte	Chico	95928	7/27/2004	8/2/2004
Western Scrub-Jay	Butte	Chico	95926	7/28/2004	8/2/2004
Yellow-billed Magpie	Butte	Chico	95926	7/26/2004	8/2/2004
Yellow-billed Magpie	Butte	Chico	95973	7/26/2004	8/2/2004
Yellow-billed Magpie	Butte	Chico	95928	7/26/2004	8/2/2004
Yellow-billed Magpie	Butte	Chico	95973	7/27/2004	8/2/2004
Yellow-billed Magpie	Butte	Chico	95973	7/28/2004	8/3/2004
Yellow-billed Magpie	Butte	Durham	95928	7/26/2004	8/3/2004
American Crow	Butte	Oroville	95965	7/26/2004	8/2/2004
Western Scrub-Jay	Butte	Oroville	95965	7/23/2004	8/2/2004
Western Scrub-Jay	Butte	Oroville	95965	7/26/2004	8/2/2004
Yellow-billed Magpie	Butte	Oroville	95965	7/23/2004	8/2/2004
Yellow-billed Magpie	Butte	Oroville	95965	7/23/2004	8/2/2004
Western Scrub-Jay	Butte	Oroville	95965	7/27/2004	8/3/2004
Western Scrub-Jay	Butte	Palermo	95968	7/26/2004	8/2/2004
Steller's Jay	El Dorado	South Lake Tahoe	96150	7/26/2004	8/3/2004
House Sparrow	Fresno	Clovis	93611	7/21/2004	8/2/2004
Western Scrub-Jay	Fresno	Clovis	93619	7/21/2004	8/2/2004
Western Scrub-Jay	Fresno	Clovis	93619	7/21/2004	8/2/2004
Western Scrub-Jay	Fresno	Clovis	93612	7/26/2004	8/3/2004
Yellow-billed Magpie	Glenn	Hamilton City	95951	7/26/2004	8/2/2004

# California Arbovirus Surveillance Bulletin # 17

Week 32    Friday, August 13, 2004

Species	County	City	Zip	Date Collected	Date Tested
Yellow-billed Magpie	Glenn	Orland	95963	7/22/2004	8/2/2004
Yellow-billed Magpie	Glenn	Orland	95963	7/26/2004	8/2/2004
Yellow-billed Magpie	Glenn	Orland	95963	7/26/2004	8/3/2004
Western Scrub-Jay	Glenn	Orland	95963	7/27/2004	8/3/2004
Brewer's Blackbird	Glenn	Willows	95988	7/24/2004	8/2/2004
Yellow-billed Magpie	Glenn	Willows	95988	7/27/2004	8/2/2004
Common Raven	Humboldt	McKinleyville	95519	7/27/2004	8/2/2004
American Robin	Kern	Bakersfield	93312	7/22/2004	8/2/2004
Common Raven	Kern	Bakersfield	93314	7/26/2004	8/2/2004
Northern Mockingbird	Kern	Bakersfield	93306-	7/22/2004	8/2/2004
Western Scrub-Jay	Kern	Bakersfield	93304	7/23/2004	8/2/2004
Western Scrub-Jay	Kern	Bakersfield	93312	7/23/2004	8/3/2004
Common Raven	Kern	Bakersfield	93311	7/26/2004	8/3/2004
Barn Owl	Kern	Bakersfield	93314	7/27/2004	8/3/2004
Cooper's Hawk	Kern	Tehachapi	93561	7/27/2004	8/2/2004
Stellar's Jay	Kern	Tehachapi	93561	7/22/2004	8/2/2004
American Crow	Los Angeles	Canyon Country	91387	7/22/2004	8/2/2004
American Crow	Los Angeles	Chatsworth	91311	7/21/2004	8/2/2004
Black Phoebe	Los Angeles	Encino	91316	7/21/2004	8/2/2004
American Crow	Los Angeles	Hacienda Heights	91745	7/21/2004	8/2/2004
American Crow	Los Angeles	La Puente	91746	7/26/2004	8/2/2004
American Crow	Los Angeles	Los Angeles	90002	7/26/2004	8/2/2004
Common Raven	Los Angeles	Los Angeles	90028	7/27/2004	8/2/2004
Western Scrub-Jay	Los Angeles	Los Angeles	90041	7/23/2004	8/2/2004
American Crow	Los Angeles	Lynwood	90262	7/19/2004	8/2/2004
American Crow	Los Angeles	Montebello	90640	7/20/2004	8/2/2004
American Crow	Los Angeles	Montebello	90640	7/20/2004	8/2/2004
American Crow	Los Angeles	Montebello	90640	7/21/2004	8/2/2004
American Crow	Los Angeles	North Hollywood	91605	7/22/2004	8/2/2004
American Crow	Los Angeles	Pasadena	91106	7/7/2004	8/2/2004
American Crow	Los Angeles	Pasadena	91104	7/12/2004	8/2/2004
American Crow	Los Angeles	Pomona	91766	7/19/2004	8/2/2004
American Crow	Los Angeles	Reseda	91335	7/22/2004	8/2/2004
American Crow	Los Angeles	Rolling Hills Estates	90274	7/21/2004	8/2/2004
American Crow	Los Angeles	San Gabriel	91776	7/15/2004	8/2/2004
American Crow	Los Angeles	South El Monte	91733	7/20/2004	8/2/2004
American Crow	Los Angeles	Studio City	91604	7/26/2004	8/2/2004
American Crow	Los Angeles	Studio City	91604	7/26/2004	8/2/2004
American Crow	Los Angeles	Studio City	91604	7/27/2004	8/2/2004
American Crow	Los Angeles	Studio City	91604	7/27/2004	8/2/2004
American Crow	Los Angeles	Sunland	91040	7/23/2004	8/2/2004
American Crow	Los Angeles	Tarzana	91356	7/20/2004	8/2/2004
American Crow	Los Angeles	Tarzana	91356	7/21/2004	8/2/2004
American Crow	Los Angeles	Tarzana	91356	7/25/2004	8/2/2004
American Crow	Los Angeles	Valley Village	91607	7/21/2004	8/2/2004
American Crow	Los Angeles	Van Nuys	91406	7/22/2004	8/2/2004
American Crow	Los Angeles	Van Nuys	91406	7/20/2004	8/2/2004
American Crow	Los Angeles	Van Nuys	91406	7/21/2004	8/2/2004

# California Arbovirus Surveillance Bulletin # 17

Week 32    Friday, August 13, 2004

Species	County	City	Zip	Date Collected	Date Tested
American Crow	Los Angeles	Van Nuys	91411	7/21/2004	8/2/2004
American Crow	Los Angeles	Van Nuys	91406	7/21/2004	8/2/2004
American Crow	Los Angeles	Van Nuys	91316	7/22/2004	8/2/2004
American Crow	Los Angeles	Van Nuys	91406	7/23/2004	8/2/2004
American Crow	Los Angeles	Van Nuys	91406	7/26/2004	8/2/2004
American Crow	Los Angeles	Van Nuys	91406	7/26/2004	8/2/2004
American Crow	Los Angeles	Van Nuys	91406	7/26/2004	8/2/2004
American Crow	Los Angeles	Van Nuys	91406	7/26/2004	8/2/2004
American Crow	Los Angeles	Van Nuys	91406	7/26/2004	8/2/2004
American Crow	Los Angeles	Van Nuys	91406	7/26/2004	8/2/2004
American Crow	Los Angeles	Walnut	91789	7/8/2004	8/2/2004
American Crow	Los Angeles	Walnut	91789	7/9/2004	8/2/2004
American Crow	Los Angeles	West Hills	91304	7/21/2004	8/2/2004
American Crow	Los Angeles	West Hills	91304	7/22/2004	8/2/2004
American Crow	Marin	Fairfax	94930	7/22/2004	8/2/2004
Common Raven	Mendocino	Albion	95410	7/22/2004	8/2/2004
American Crow	Orange	Anaheim	92805	7/20/2004	8/2/2004
American Crow	Orange	Anaheim	92804	7/22/2004	8/2/2004
American Crow	Orange	Anaheim	92802	7/22/2004	8/2/2004
American Crow	Orange	Buena Park	90621	7/21/2004	8/2/2004
American Robin	Orange	Buena Park	90621	7/21/2004	8/2/2004
American Crow	Orange	Costa Mesa	92626	7/19/2004	8/2/2004
American Crow	Orange	Huntington Beach	92648	7/14/2004	8/2/2004
Rufous-throated Hummingbird	Orange	Laguna Woods	92653	7/11/2004	8/2/2004
American Crow	Orange	Newport Beach	92660	7/16/2004	8/2/2004
American Crow	Orange	Orange	92868	7/12/2004	8/2/2004
American Crow	Orange	Orange	92867	7/19/2004	8/2/2004
American Crow	Orange	Santa Ana	92706	7/19/2004	8/2/2004
American Crow	Orange	Westminster	92683	7/20/2004	8/2/2004
Barn Owl	Orange	Westminster	92683	7/21/2004	8/2/2004
Western Scrub-Jay	Placer	Auburn	95603	7/22/2004	8/2/2004
American Crow	Riverside	Banning	92220	7/22/2004	8/2/2004
American Crow	Riverside	Hemet	92543	7/21/2004	8/2/2004
American Crow	Riverside	Hemet	92543	7/21/2004	8/2/2004
American Crow	Riverside	Hemet	92544	7/21/2004	8/2/2004
American Crow	Riverside	Hemet	92544	7/21/2004	8/2/2004
Common Raven	Riverside	Moreno Valley	92555	7/22/2004	8/2/2004
American Crow	Riverside	Nuevo	92567	7/22/2004	8/2/2004
House Finch	Riverside	Riverside	92508	7/29/2004	8/2/2004
Barn Owl	Sacramento	Galt	95632	7/25/2004	8/3/2004
Northern Mockingbird	Sacramento	Wilton	95693-	7/28/2004	8/2/2004
Western Scrub-Jay	Sacramento	Wilton	95693	7/26/2004	8/2/2004
Yellow-billed Magpie	Sacramento	Wilton	95693	7/26/2004	8/2/2004
Cooper's Hawk	San Diego	San Diego	92111	7/28/2004	8/3/2004
Red-Shouldered Hawk	San Diego	Vista	92084	7/28/2004	8/2/2004
House Finch	Santa Clara	Campbell	95008	7/27/2004	8/2/2004
House Finch	Santa Clara	Gilroy	95020	7/27/2004	8/3/2004
American Crow	Santa Clara	San Jose	95148	7/27/2004	8/2/2004
Cooper's Hawk	Santa Clara	San Jose	95132	7/21/2004	8/2/2004



# California Arbovirus Surveillance Bulletin # 17

Week 32 Friday, August 13, 2004

Species	County	City	Zip	Date Collected	Date Tested
Cooper's Hawk	Santa Clara	San Jose	95132-	7/26/2004	8/2/2004
Cooper's Hawk	Santa Clara	San Jose	95125	7/26/2004	8/3/2004
Cooper's Hawk	Santa Clara	San Jose	95132	7/26/2004	8/3/2004
American Crow	Shasta	Anderson	96007	7/27/2004	8/2/2004
Yellow-billed Magpie	Shasta	Anderson	96007	7/28/2004	8/2/2004
Western Scrub-Jay	Shasta	Anderson	96007	7/28/2004	8/3/2004
Western Scrub-Jay	Shasta	Cottonwood	96022	7/26/2004	8/2/2004
Western Scrub-Jay	Shasta	Cottonwood	96022	7/26/2004	8/2/2004
Western Scrub-Jay	Shasta	Cottonwood	96022	7/26/2004	8/2/2004
Yellow-billed Magpie	Shasta	Palo Cedro	96073	7/26/2004	8/2/2004
American Crow	Shasta	Redding	96002	7/26/2004	8/2/2004
American Crow	Solano	Dixon	95620	7/27/2004	8/2/2004
Western Scrub-Jay	Sonoma	Petaluma	94952	7/26/2004	8/2/2004
American Crow	Sonoma	Petaluma	94954	7/26/2004	8/3/2004
Western Scrub-Jay	Stanislaus	Modesto	95350	7/28/2004	8/2/2004
Yellow-billed Magpie	Tehama	Corning	96021	7/26/2004	8/3/2004
Yellow-billed Magpie	Tehama	Proberta	96080	7/23/2004	8/2/2004
Yellow-billed Magpie	Tehama	Red Bluff	96080	7/23/2004	8/3/2004
Western Scrub-Jay	Tehama	Red Bluff	96080	7/26/2004	8/3/2004
Western Scrub-Jay	Tulare	Visalia	93277	7/26/2004	8/2/2004
American Crow	Ventura	Ojai	93023	7/20/2004	8/2/2004
Brewer's Blackbird	Ventura	Oxnard	93033	7/20/2004	8/2/2004
American Crow	Ventura	Simi Valley	93063	7/26/2004	8/2/2004

## National Comments:

As of August 10, 2004, West Nile Virus (WNV) activity has been detected in 41 states, Puerto Rico, and New York City. Maryland and New Hampshire reported their first WNV activity this week. Four-hundred-ninety-five human WNV cases have been reported in 24 states and New York City. The majority of the cases are still being reported from Arizona (274), California (142), and Colorado (44). This week, Kentucky, Louisiana, Minnesota, and Mississippi reported their first human WNV cases of 2004. At this time in 2003, there were 393 human cases from 23 states. Of the 489 WNV cases where data is available, the median age was 51 years (range: 1 month – 99 years) and 58% of the cases were male. Thirty-nine percent of the cases were neuroinvasive. There have been 13 WNV-related fatalities nationwide in 2004.

# California Arbovirus Surveillance Bulletin # 17

Week 32    Friday, August 13, 2004

---

## Dead Birds:

Dead bird kidney tissues are tested at CVEC using the PCR Taqman assay, subsequent to carcass necropsy at the California Animal Health and Food Safety (CAHFS) Laboratories. Organ pools from PCR positive carcasses are tested using cell culture for virus isolation. The WNV Dead Bird Surveillance Coordinator, Ryan Carney, can be reached directly at (510) 412-6251.

---

## 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) and IgM Capture – Enzyme Linked Immunosorbent Assay (MAC-ELISA)) on specimens from sentinel chickens in which antibodies are detected in new geographic areas. The VRDL also forwards selected serum to the UC Davis Center for Vectorborne Diseases (CVEC) for additional testing for WNV, WEE, and SLE antibodies as needed.

---

## 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. There will be an elimination of *in situ* EI testing of *Ochlerotatus melanion* pools for CE virus

---

*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 Al Hom by phone (510) 412-6254, FAX (510) 412-6263, or email [ahom@dhs.ca.gov].*