

# California Arbovirus Surveillance Bulletin # 11

Week 26 Friday, July 2, 2004

## Weekly Summary

### California Weekly Summary Comments:

#### **Humans:**

This week, California reported one new human case of WNV from Los Angeles County. The individual is a 60-year old male with West Nile fever. He was not hospitalized.

As of July 2, 2004, more than 300 individuals have been tested for WNV within the State's public health laboratory network, which consists of DHS Viral and Rickettsial Disease Laboratory (VRDL) and local public health laboratories. A total of eleven human WNV cases have been reported this year: eight in San Bernardino County; two in Los Angeles County; and one in Riverside County. Of the eleven cases, eight are classified as WN fever cases, and three are classified as WN neuroinvasive disease. The first human case in California for 2004 was announced on June 8, 2004. There have been no fatalities to date.

#### **Equine News Flash:**

The California Department of Food & Agriculture has confirmed eight WNV equine cases from Riverside (5) and San Bernardino (3) counties for 2004. More detailed information will be available in the next bulletin.

#### **Dead Birds:**

The hotline receive 4,266 reported dead birds last week (YTD = 19,567). The UC Davis Center for Vectorborne Diseases (CVEC) reported 101 dead birds tested positive for WNV via RT-PCR: 96 American crows, 3 western scrub jays, 1 common raven, and 1 American coot. The coot was the first of its species tested positive for WNV this year. The positive birds were collected in a total of 43 cities within the counties of Los Angeles (36), San Bernardino (35), Orange (17), and Riverside (13).

#### **News Flash:**

CVEC reported this week that 95 dead birds have tested positive for WNV: 90 American crows, 4 western scrub jays, and 1 house sparrow. The positive birds were collected in a total of 44 cities within the counties of Los Angeles (66), Riverside (14), San Bernardino (14), and Orange (1).

A total of 114 dead birds were tested this past week from Los Angeles, Orange, Riverside, and San Bernardino counties; hence 83.3% (95/114) of the birds tested from these four counties were positive. Thirty dead birds from 18 other counties in California tested negative.

#### **Mosquito Pools:**

CVEC reported 38 WNV positive mosquito pools from Riverside (11), Imperial (11), Los Angeles (9), San Bernardino (5), and Orange (2) counties. The current YTD for positive mosquito pools stand at 114: Riverside (47), Los Angeles (30), San Bernardino (19), Imperial (14), and Orange (4). In coming weeks, detailed summary information on mosquitoes, e.g., chronology of infection, mosquito species, and mosquito infection rates (MIR) will be posted on the WNV website.

#### **Chickens:**

A seroconversion to WNV was detected in a chicken from a new sentinel flock located in Rialto in San Bernardino. The probable seroconversion date was 6/1/04. This was the first chicken seroconversion reported in San Bernardino County in 2004. VRDL tested 1182 samples this week; the current YTD total stands at 32 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.

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## POSITIVES

### Human Positives Reported:

Virus	Date of Onset	Status	Diagnosis	County	Imported/Local	From
WNV	Mid-June	Probable	WN Fever	Los Angeles	Local	

### Chicken Seroconversions Reported by DHS:

Virus	County	State	Acode	City	Location
**** WNV	San Bernardino	CA	SANB0011	Rialto	Rialto Frisbie Park
<b>Band: 3031</b>					<b>Probable Seroconversion Date: 16-June-04</b>

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

### Virus Isolations From Mosquito Pools:

Virus	Mosquito species	Date Collected	ACODE	Pool #	City	County	Date Received
WNV	Culex tarsalis	15-Jun	COAV	575	Mecca	Riverside	24-Jun
WNV	Culex tarsalis	15-Jun	COAV	576	Mecca	Riverside	24-Jun
WNV	Culex tarsalis	15-Jun	COAV	577	Mecca	Riverside	24-Jun
WNV	Culex tarsalis	16-Jun	COAV	610	Mecca	Riverside	24-Jun
WNV	Culex tarsalis	16-Jun	COAV	611	Mecca	Riverside	24-Jun
WNV	Culex tarsalis	17-Jun	COAV	639	Mecca	Riverside	24-Jun
WNV	Culex tarsalis	17-Jun	COAV	640	Mecca	Riverside	24-Jun
WNV	Culex tarsalis	17-Jun	COAV	634	Mecca	Riverside	24-Jun
WNV	Culex quinquefasciatus	16-Jun	GRLA	1392	Los Angeles	Los Angeles	24-Jun
WNV	Culex quinquefasciatus	16-Jun	GRLA	524	Lakewood	Los Angeles	24-Jun
WNV	Culex quinquefasciatus	16-Jun	GRLA	525	Lakewood	Los Angeles	24-Jun
WNV	Culex quinquefasciatus	16-Jun	GRLA	526	Lakewood	Los Angeles	24-Jun
WNV	Culex quinquefasciatus	16-Jun	GRLA	528	Lakewood	Los Angeles	24-Jun
WNV	Culex quinquefasciatus	16-Jun	GRLA	529	Lakewood	Los Angeles	24-Jun
WNV	Culex quinquefasciatus	16-Jun	GRLA	534	Lakewood	Los Angeles	24-Jun
WNV	Culex quinquefasciatus	15-Jun	GRLA	512	Paramount	Los Angeles	24-Jun
WNV	Culex quinquefasciatus	15-Jun	GRLA	546	Carson	Los Angeles	24-Jun
WNV	Culex tarsalis	15-Jun	IMPR	578	Niland	Imperial	24-Jun
WNV	Culex tarsalis	15-Jun	IMPR	579	Niland	Imperial	24-Jun
WNV	Culex tarsalis	15-Jun	IMPR	580	Niland	Imperial	24-Jun
WNV	Culex tarsalis	15-Jun	IMPR	588	Niland	Imperial	24-Jun
WNV	Culex tarsalis	15-Jun	IMPR	589	Niland	Imperial	24-Jun
WNV	Culex tarsalis	15-Jun	IMPR	592	Westmoreland	Imperial	24-Jun
WNV	Culex tarsalis	15-Jun	IMPR	595	Brawley	Imperial	24-Jun
WNV	Culex tarsalis	15-Jun	IMPR	598	Brawley	Imperial	24-Jun
WNV	Culex tarsalis	15-Jun	IMPR	599	Brawley	Imperial	24-Jun
WMV	Culex tarsalis	21-Jun	IMPR	177	N/A	Imperial	24-Jun
WNV	Culex tarsalis	21-Jun	IMPR	178	N/A	Imperial	24-Jun
WNV	Culex tarsalis	14-Jun	NWST	233	Corona	Riverside	23-Jun
WNV	Culex tarsalis	14-Jun	NWST	242	Norco	Riverside	23-Jun
WNV	Culex erythrothorax	14-Jun	NWST	229	Mira Loma	Riverside	23-Jun
WNV	Culex quinquefasciatus	15-Jun	ORCO	778	Fullerton	Orange	22-Jun
WNV	Culex quinquefasciatus	16-Jun	ORCO	804	La Habra	Orange	22-Jun

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Week 26      Friday, July 2, 2004

Virus	Mosquito species	Date Collected	ACODE	Pool #	City	County	Date Received
WNV	Culex quinquefasciatus	22-Jun	WVAL	84	Ontario	San Bernardino	24-Jun
WNV	Culex quinquefasciatus	15-Jun	WVAL	69	Ontario	San Bernardino	24-Jun
WNV	Culex quinquefasciatus	22-Jun	WVAL	86	Ontario	San Bernardino	24-Jun
WNV	Culex quinquefasciatus	15-Jun	WVAL	66	Montclair	San Bernardino	24-Jun
WNV	Culex quinquefasciatus	22-Jun	WVAL	74	Montclair	San Bernardino	24-Jun

## Dead Birds Tested Positive for WNV last week

Species	County	City	Zip	Date Collected	Date Tested
American Crow	Orange	Buena Park	90621	5/24/2004	6/21/2004
American Crow	Orange	Fullerton	92833	5/28/2004	6/21/2004
American Crow	Los Angeles	Downey	90241	6/17/2004	6/21/2004
American Coot	Riverside	Indio	92201	6/8/2004	6/21/2004
American Crow	Los Angeles	Pomona	91766	6/4/2004	6/21/2004
American Crow	Orange	Buena Park	90620	6/2/2004	6/21/2004
American Crow	Orange	Orange	92868	6/2/2004	6/21/2004
Western Scrub-Jay	Los Angeles	Hacienda Heights	91745	6/9/2004	6/21/2004
American Crow	Los Angeles	La Verne	91750	6/14/2004	6/21/2004
American Crow	San Bernardino	Rancho Cucamonga	91730	6/14/2004	6/21/2004
American Crow	San Bernardino	Rancho Cucamonga	91730	6/8/2004	6/21/2004
American Crow	Los Angeles	La Mirada	90638	6/8/2004	6/21/2004
American Crow	Riverside	Norco	92860	6/8/2004	6/21/2004
American Crow	Los Angeles	Whittier	90603	6/8/2004	6/21/2004
American Crow	Riverside	Riverside	92505	6/8/2004	6/21/2004
American Crow	San Bernardino	Chino	91710	6/8/2004	6/21/2004
American Crow	San Bernardino	Chino	91710	6/8/2004	6/21/2004
American Crow	Los Angeles	Whittier	90605	6/8/2004	6/21/2004
American Crow	Los Angeles	Whittier	90601	6/8/2004	6/21/2004
American Crow	Los Angeles	Whittier	90604	6/8/2004	6/21/2004
American Crow	San Bernardino	Rancho Cucamonga	91739	6/8/2004	6/21/2004
American Crow	Los Angeles	Santa Fe Springs	90670	6/8/2004	6/21/2004
American Crow	San Bernardino	Rancho Cucamonga	91730	6/8/2004	6/21/2004
American Crow	Riverside	Mira Loma	91752	6/9/2004	6/21/2004
American Crow	Los Angeles	San Dimas	91773	6/9/2004	6/21/2004
American Crow	Los Angeles	Los Angeles	90044	6/9/2004	6/21/2004
American Crow	San Bernardino	Upland	91786	6/9/2004	6/21/2004
Western Scrub-Jay	San Bernardino	Upland	91786	6/9/2004	6/21/2004
American Crow	Riverside	Corona	92882	6/9/2004	6/21/2004
American Crow	San Bernardino	Chino	91710	6/9/2004	6/21/2004
American Crow	San Bernardino	Ontario	91764	6/9/2004	6/21/2004
American Crow	San Bernardino	Ontario	91761	6/9/2004	6/21/2004
American Crow	San Bernardino	Rancho Cucamonga	91730	6/9/2004	6/21/2004
American Crow	San Bernardino	Ontario	91761	6/9/2004	6/21/2004
American Crow	San Bernardino	Ontario	91762	6/9/2004	6/21/2004
American Crow	San Bernardino	Ontario	91761	6/9/2004	6/21/2004
American Crow	Riverside	Corona	92881	6/9/2004	6/21/2004
American Crow	Los Angeles	Pico Rivera	90660	6/9/2004	6/21/2004
American Crow	San Bernardino	Ontario	91761	6/9/2004	6/21/2004

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Week 26      Friday, July 2, 2004

Species	County	City	Zip	Date Collected	Date Tested
American Crow	San Bernardino	Ontario	91761	6/9/2004	6/21/2004
American Crow	Los Angeles	Whittier	90602	6/9/2004	6/21/2004
American Crow	San Bernardino	Ontario	91761	6/8/2004	6/21/2004
American Crow	Los Angeles	Artesia	90701	6/9/2004	6/21/2004
American Crow	Los Angeles	Norwalk	90650	6/9/2004	6/21/2004
American Crow	Los Angeles	Northridge	91325	6/9/2004	6/21/2004
American Crow	Los Angeles	Pico Rivera	90660	5/27/2004	6/21/2004
American Crow	San Bernardino	Ontario	91761	6/9/2004	6/21/2004
American Crow	San Bernardino	Ontario	91761	6/9/2004	6/21/2004
American Crow	San Bernardino	Ontario	91761	6/9/2004	6/21/2004
American Crow	Los Angeles	Downey	90242	6/9/2004	6/21/2004
Western Scrub-Jay	Los Angeles	Duarte	91010	6/9/2004	6/21/2004
American Crow	San Bernardino	Rancho Cucamonga	91730	6/9/2004	6/21/2004
American Crow	Los Angeles	Whittier	90601	6/9/2004	6/21/2004
American Crow	San Bernardino	Ontario	91762	6/9/2004	6/21/2004
American Crow	Los Angeles	North Hills	91343	6/9/2004	6/21/2004
American Crow	San Bernardino	Montclair	91763	6/9/2004	6/21/2004
American Crow	Riverside	Corona	92881	6/9/2004	6/21/2004
American Crow	Los Angeles	Whittier	90602	6/10/2004	6/21/2004
American Crow	San Bernardino	Rancho Cucamonga	91730	6/10/2004	6/21/2004
American Crow	San Bernardino	Rancho Cucamonga	91739	6/10/2004	6/21/2004
American Crow	San Bernardino	Rancho Cucamonga	91730	6/10/2004	6/21/2004
American Crow	Riverside	Corona	92882	6/10/2004	6/21/2004
American Crow	San Bernardino	Highland	92346	6/10/2004	6/21/2004
American Crow	Los Angeles	Canoga Park	91304	6/10/2004	6/21/2004
American Crow	Los Angeles	West Covina	91790	6/10/2004	6/21/2004
American Crow	San Bernardino	Rancho Cucamonga	91730	6/10/2004	6/21/2004
American Crow	San Bernardino	Rancho Cucamonga	91730	6/14/2004	6/21/2004
American Crow	San Bernardino	Rancho Cucamonga	91730	6/14/2004	6/21/2004
American Crow	Los Angeles	Cerritos	90703	6/14/2004	6/21/2004
American Crow	Los Angeles	Cerritos	90703	6/14/2004	6/21/2004
American Crow	Los Angeles	Cerritos	90703	6/14/2004	6/21/2004
American Crow	Los Angeles	Whittier	90602	6/14/2004	6/21/2004
American Crow	Los Angeles	Winnetka	91306	6/14/2004	6/21/2004
American Crow	Riverside	Mira Loma	91752	6/14/2004	6/21/2004
American Crow	Los Angeles	Panorama City	91402	6/14/2004	6/21/2004
American Crow	Riverside	Corona	92880	6/14/2004	6/21/2004
American Crow	San Bernardino	Alta Loma	91701	6/14/2004	6/21/2004
American Crow	Orange	La Palma	90623	6/5/2004	6/21/2004
American Crow	Orange	Huntington Beach	92648	6/6/2004	6/21/2004
American Crow	Orange	Fullerton	92833	6/5/2004	6/21/2004
American Crow	Orange	Yorba Linda	92886	6/7/2004	6/21/2004
American Crow	Orange	La Palma	90623	6/9/2004	6/21/2004
American Crow	Orange	Fullerton	92832	6/9/2004	6/21/2004
American Crow	Orange	Fullerton	92833	6/10/2004	6/21/2004
American Crow	Orange	Buena Park	90621	6/10/2004	6/21/2004
American Crow	Orange	Fullerton	92832	6/10/2004	6/21/2004
American Crow	Riverside	Corona	92880	6/14/2004	6/21/2004
Common Raven	San Bernardino	Apple Valley	92308	6/14/2004	6/21/2004

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Week 26 Friday, July 2, 2004

Species	County	City	Zip	Date Collected	Date Tested
American Crow	San Bernardino	Rancho Cucamonga	91737	6/14/2004	6/21/2004
American Crow	San Bernardino	Rancho Cucamonga	91739	6/14/2004	6/21/2004
American Crow	Los Angeles	Northridge	91325	6/14/2004	6/21/2004
American Crow	Los Angeles	Rowland Heights	91748	6/15/2004	6/21/2004
American Crow	Riverside	Cherry Valley	92223	6/15/2004	6/21/2004
American Crow	Los Angeles	Bradbury	91010	6/15/2004	6/21/2004
American Crow	Los Angeles	Gardena	90248	6/15/2004	6/21/2004
American Crow	Los Angeles	Downey	90242	6/15/2004	6/21/2004
American Crow	Riverside	Riverside	92503	6/15/2004	6/21/2004
American Crow	Orange	Fullerton	92831	6/14/2004	6/21/2004
American Crow	Orange	Fullerton	92832	6/14/2004	6/21/2004
American Crow	Orange	Fullerton	92833	6/14/2004	6/21/2004
American Crow	Orange	Buena Park	90621	6/15/2004	6/21/2004

## 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	27	0	1	0	0	0	0	0	0
	YTD	338	0	11	0	0	0	0	0	0
Suspect Equine Cases	Week	0	0	8	0	0	0	0	0	0
	YTD	125	0	8	0	0	0	0	0	0

### Dead Birds

	Number Tested	WNV Positive
Week	184	101
YTD	1351	593

### Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Other Positive
Chicken sera	Week	1282*	1	0	0	0
	YTD	12,313	32	0	0	0
Mosquito pools	Week	501	38	0	0	0
	YTD	3629	114	0	0	0

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

### National Comments:

As of June 29, 2004, WNV activity has been detected in 30 states and Puerto Rico. Idaho, Minnesota, North Carolina, and Tennessee reported their first WNV activity this week. Fifty-eight human WNV cases have been reported in eight states: Arizona (38), California (11), Florida (2), Michigan (1), Nebraska (1), New Mexico (3), South Dakota (1), and Wyoming (1).

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Week 26      Friday, July 2, 2004

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## 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.

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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) 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.

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## Mosquito Pools:

All mosquito pools are screened for WEE, SLE, and WNV viral RNA using a Taqman multiplex RT-PCR. All species except *Culex tarsalis* are also tested for California Encephalitis via EIA. All positive pools are confirmed by both singleplex RT-PCR as well as *in situ* EIA.

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