

California Arbovirus Surveillance Bulletin # 7

Week 22 Friday, June 4, 2004

Weekly Summary

California Weekly Summary Comments:

Sentinel Chickens:

The Viral and Rickettsial Disease Laboratory (VRDL) confirmed that six chickens from a flock located near North Shore (Riverside County) were positive for West Nile Virus (WNV). These are the first WNV seroconversions in 2004. The filter papers and the sera collected on May 17th tested positive for Flavivirus and the sera were used for confirmation by PRNT. (The filter papers collected on May 3rd tested negative. The first bleed date for these birds was April 19th).

Dead Birds:

The hotline received 2090 reports of dead birds last week (YTD = 7181). As it was reported in last week's bulletin, the UC Davis Center for Vectorborne Diseases (CVEC) reported 157 dead birds tested positive for WNV via RT-PCR from Los Angeles (60), Riverside (22), and San Bernardino (75) counties. The tally included 153 crows, 2 scrub jays, 1 raven, and 1 black phoebe. Currently, the yearly total stands at 209 positive dead birds from LA County (98), Riverside (26), San Bernardino (84) and Ventura (1) counties.

News Flash:

CVEC just reported a total of 75 WNV positive bird carcasses from Los Angeles (25), Riverside (9), San Bernardino (38), and Orange (3) counties. These include the first positive dead birds from Orange County this year. Positive bird species included 67 American Crows, two Common Ravens, two Mallard Ducks, one Western Tanager, one Mockingbird, one Red-Tailed Hawk, and one Western Scrub-Jay. The ducks, tanager, mockingbird, and hawk were the first of their species to test positive for WNV this year. The complete list will be published in next week's bulletin.

Mosquito Pools:

CVEC reported six pools of *Culex quinquefasciatus* collected on 5/17 in La Mirada (3) and 5/19 in Montebello (3) from Los Angeles County tested positive for WNV.

All of the human and equine samples tested negative for arboviruses this week.

Website Information:

For updated information on WNV, please visit the California WNV website, www.westnile.ca.gov; the CDC website, www.cdc.gov; and the USGS website, 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.

POSITIVES

Dead Birds Tested Positive for WNV

Species	County	City	Zip Code	Date Collected	Date Tested
American Crow	Los Angeles	Arcadia	91007	5/12/2004	5/26/2004
American Crow	Los Angeles	Covina	91724	5/12/2004	5/26/2004
American Crow	Los Angeles	West Covina	91791	5/12/2004	5/26/2004
American Crow	Los Angeles	Covina	91722	5/12/2004	5/26/2004
American Crow	Los Angeles	Covina	91724	5/13/2004	5/26/2004
American Crow	Los Angeles	Arcadia	91006	5/13/2004	5/26/2004
American Crow	Los Angeles	Arcadia	91006	5/12/2004	5/26/2004
American Crow	Los Angeles	Arcadia	91006	5/13/2004	5/26/2004
American Crow	Los Angeles	Montebello	90640	5/13/2004	5/26/2004
American Crow	Los Angeles	Covina	91724	5/13/2004	5/26/2004
American Crow	Riverside	Rubidoux	92509	5/13/2004	5/26/2004

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Species	County	City	Zip Code	Date Collected	Date Tested
American Crow	Los Angeles	Cerritos	90703	5/12/2004	5/26/2004
Black Phoebe	Los Angeles	Gardena	90249	5/13/2004	5/26/2004
American Crow	Los Angeles	Arcadia	91007	5/13/2004	5/26/2004
American Crow	Los Angeles	Claremont	91711	5/13/2004	5/26/2004
American Crow	Los Angeles	Lakewood	90712	5/13/2004	5/26/2004
American Crow	Los Angeles	West Covina	91722	5/13/2004	5/26/2004
American Crow	San Bernardino	Fontana	92335	5/14/2004	5/26/2004
American Crow	San Bernardino	Fontana	92335	5/14/2004	5/26/2004
American Crow	San Bernardino	Rialto	92376	5/14/2004	5/26/2004
American Crow	Los Angeles	El Monte	91732	5/14/2004	5/26/2004
American Crow	Riverside	Riverside	92521	5/14/2004	5/26/2004
American Crow	Los Angeles	Rosemead	91770	5/14/2004	5/26/2004
American Crow	San Bernardino	Loma Linda	92354	5/14/2004	5/26/2004
American Crow	San Bernardino	Loma Linda	92354-	5/14/2004	5/26/2004
American Crow	San Bernardino	Loma Linda	92354-	5/14/2004	5/26/2004
American Crow	Riverside	Corona	92882	5/14/2004	5/26/2004
American Crow	Los Angeles	West Covina	91791	5/14/2004	5/26/2004
American Crow	San Bernardino	Colton	92324	5/14/2004	5/26/2004
American Crow	Riverside	Riverside	92504	5/14/2004	5/26/2004
American Crow	San Bernardino	Rialto	92376	5/17/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92404	5/17/2004	5/26/2004
American Crow	San Bernardino	Rialto	92376	5/14/2004	5/26/2004
American Crow	San Bernardino	Rialto	92376	5/14/2004	5/26/2004
American Crow	Los Angeles	El Monte	91732	5/17/2004	5/26/2004
American Crow	Los Angeles	La Puente	91744	5/14/2004	5/26/2004
American Crow	Los Angeles	El Monte	91731	5/17/2004	5/26/2004
American Crow	Los Angeles	El Monte	91731-	5/17/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92405	5/17/2004	5/26/2004
American Crow	Los Angeles	Arcadia	91006	5/17/2004	5/26/2004
American Crow	Los Angeles	Monrovia	91016	5/17/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92405	5/17/2004	5/26/2004
American Crow	San Bernardino	Redlands	92373	5/17/2004	5/26/2004
American Crow	Los Angeles	Arcadia	91007	5/17/2004	5/26/2004
American Crow	San Bernardino	Rialto	92376	5/17/2004	5/26/2004
American Crow	Riverside	Riverside	92504	5/17/2004	5/26/2004
American Crow	Riverside	Riverside	92505	5/17/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92404	5/17/2004	5/26/2004
American Crow	Riverside	Riverside	92509	5/17/2004	5/26/2004
American Crow	Riverside	Riverside	92506	5/17/2004	5/26/2004
American Crow	Riverside	Riverside	92506	5/17/2004	5/26/2004
American Crow	Riverside	Norco	92860	5/17/2004	5/26/2004
American Crow	Los Angeles	Arcadia	91006	5/17/2004	5/26/2004
American Crow	Los Angeles	West Covina	91790	5/14/2004	5/26/2004
American Crow	San Bernardino	Fontana	92335	5/18/2004	5/26/2004
American Crow	San Bernardino	Bloomington	92316	5/18/2004	5/26/2004
American Crow	San Bernardino	Bloomington	92316-	5/18/2004	5/26/2004
American Crow	Los Angeles	West Covina	91790	5/18/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92404	5/17/2004	5/26/2004

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Species	County	City	Zip Code	Date Collected	Date Tested
American Crow	Riverside	Riverside	92504	5/18/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92405	5/18/2004	5/26/2004
American Crow	Los Angeles	El Monte	91731	5/18/2004	5/26/2004
American Crow	Los Angeles	La Mirada	90638	5/18/2004	5/26/2004
American Crow	San Bernardino	Fontana	92337	5/18/2004	5/26/2004
American Crow	Los Angeles	La Mirada	90638	5/12/2004	5/26/2004
American Crow	Los Angeles	La Habra	90631	5/17/2004	5/26/2004
American Crow	Los Angeles	Arcadia	91006	5/17/2004	5/26/2004
American Crow	Los Angeles	La Mirada	90638	5/17/2004	5/26/2004
American Crow	San Bernardino	Ontario	91761	5/18/2004	5/26/2004
American Crow	Los Angeles	West Covina	91791	5/18/2004	5/26/2004
American Crow	Los Angeles	Whittier	90606	5/18/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92404	5/18/2004	5/26/2004
American Crow	Los Angeles	West Covina	91790	5/18/2004	5/26/2004
American Crow	Los Angeles	West Covina	91790	5/18/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92407	5/18/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92411	5/18/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92404	5/18/2004	5/26/2004
American Crow	Riverside	Norco	92860	5/18/2004	5/26/2004
American Crow	Los Angeles	Temple City	91780	5/18/2004	5/26/2004
American Crow	Los Angeles	Santa Fe Springs	90670	5/18/2004	5/26/2004
American Crow	Los Angeles	Santa Fe Springs	90670	5/18/2004	5/26/2004
American Crow	Riverside	Riverside	92506	5/18/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92407	5/18/2004	5/26/2004
American Crow	San Bernardino	Ontario	91761	5/19/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92404	5/19/2004	5/26/2004
American Crow	Los Angeles	Monrovia	91016	5/19/2004	5/26/2004
American Crow	San Bernardino	Rialto	92376	5/19/2004	5/26/2004
American Crow	San Bernardino	Colton	92324-	5/19/2004	5/26/2004
American Crow	San Bernardino	Colton	92324-	5/19/2004	5/26/2004
American Crow	San Bernardino	Colton	92324-	5/19/2004	5/26/2004
American Crow	San Bernardino	Highland	92346-	5/19/2004	5/26/2004
American Crow	San Bernardino	Fontana	92335	5/19/2004	5/26/2004
American Crow	San Bernardino	Fontana	92335	5/18/2004	5/26/2004
American Crow	Los Angeles	La Mirada	90638	5/18/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92401	5/19/2004	5/26/2004
American Crow	San Bernardino	Fontana	92335	5/19/2004	5/26/2004
American Crow	San Bernardino	Fontana	92335-	5/19/2004	5/26/2004
American Crow	San Bernardino	Fontana	92335-	5/19/2004	5/26/2004
American Crow	Los Angeles	Hacienda Heights	91745	5/19/2004	5/26/2004
American Crow	San Bernardino	Rialto	92376	5/19/2004	5/26/2004
American Crow	San Bernardino	Fontana	92335	5/19/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92405	5/19/2004	5/26/2004
Western Scrub-Jay	San Bernardino	San Bernardino	92404	5/19/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92407	5/19/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92410-	5/19/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92410	5/19/2004	5/26/2004
American Crow	Riverside	Riverside	92504	5/19/2004	5/26/2004

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American Crow	Riverside	Riverside	92504	5/19/2004	5/26/2004
American Crow	Riverside	Riverside	92504	5/19/2004	5/26/2004
American Crow	Los Angeles	La Puente	91744	5/17/2004	5/26/2004
American Crow	Los Angeles	El Monte	91732	5/18/2004	5/26/2004
American Crow	Los Angeles	La Puente	91744	5/19/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92404	5/19/2004	5/26/2004
American Crow	San Bernardino	Bloomington	92316	5/20/2004	5/26/2004
American Crow	Los Angeles	Claremont	91711	5/20/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92404	5/20/2004	5/26/2004
American Crow	San Bernardino	san Bernardino	92405	5/20/2004	5/26/2004
American Crow	Riverside	Riverside	92506	5/20/2004	5/26/2004
American Crow	Los Angeles	Glendora	91740	5/20/2004	5/26/2004
American Crow	San Bernardino	Colton	92324	5/20/2004	5/26/2004
American Crow	Los Angeles	Duarte	91010	5/19/2004	5/26/2004
American Crow	San Bernardino	Fontana	92335	5/20/2004	5/26/2004
American Crow	San Bernardino	Fontana	92335	5/20/2004	5/26/2004
American Crow	Los Angeles	Monrovia	91016	5/19/2004	5/26/2004
American Crow	Riverside	Riverside	92504	5/20/2004	5/26/2004
American Crow	San Bernardino	Rialto	92377	5/20/2004	5/26/2004
American Crow	Los Angeles	Azusa	91702	5/20/2004	5/26/2004
American Crow	Los Angeles	Cerritos	90703	5/20/2004	5/26/2004
American Crow	Los Angeles	Claremont	91711	5/20/2004	5/26/2004
American Crow	Riverside	Riverside	92507	5/20/2004	5/26/2004
American Crow	Los Angeles	Alhambra	91801	5/20/2004	5/26/2004
American Crow	Los Angeles	Alhambra	91803	5/20/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92411	5/20/2004	5/26/2004
American Crow	San Bernardino	Fontana	92335	5/19/2004	5/26/2004
American Crow	San Bernardino	Fontana	92335-	5/19/2004	5/26/2004
American Crow	San Bernardino	Rialto	92377	5/20/2004	5/26/2004
American Crow	Riverside	Riverside	92509	5/20/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92407	5/20/2004	5/26/2004
American Crow	San Bernardino	Rialto	92376-	5/19/2004	5/26/2004
American Crow	San Bernardino	Fontana	92335	5/19/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92404	5/20/2004	5/26/2004
American Crow	San Bernardino	Rialto	92376	5/19/2004	5/26/2004
Common Raven	Los Angeles	North Hills	91343	5/21/2004	5/26/2004
American Crow	San Bernardino	San Bernardino	92411	5/21/2004	5/26/2004
American Crow	Los Angeles	Pasadena	91107	5/21/2004	5/26/2004
American Crow	Los Angeles	Downey	90240	5/21/2004	5/26/2004
Western Scrub-Jay	San Bernardino	San Bernardino	92404	5/19/2004	5/26/2004
Western Scrub-Jay	Riverside	Riverside	92508	5/21/2004	5/26/2004
American Crow	San Bernardino	Bloomington	92316	5/21/2004	5/26/2004
American Crow	San Bernardino	Rialto	92376	5/21/2004	5/26/2004
American Crow	San Bernardino	Rialto	92376	5/21/2004	5/26/2004
American Crow	Riverside	Riverside	92506	5/21/2004	5/26/2004
American Crow	San Bernardino	Bloomington	92316	5/21/2004	5/26/2004
American Crow	San Bernardino	Fontana	92337	5/21/2004	5/26/2004
American Crow	San Bernardino	Fontana	92335	5/21/2004	5/26/2004

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American Crow	San Bernardino	San Bernardino	92405	5/21/2004	5/26/2004
American Crow	San Bernardino	Fontana	92335	5/21/2004	5/26/2004

Virus Isolations From Mosquito Pools:

Virus	Mosquito species	Date Collected	ACODE	Pool #	City	County	Date Received
WNV	Culex quinquefasciatus	05/19/2004	GRLA2015	357	Montebello/Pico Rivera	Los Angeles	05/27/04
WNV	Culex quinquefasciatus	05/19/2004	GRLA2015	358	Montebello/Pico Rivera	Los Angeles	05/27/04
WNV	Culex quinquefasciatus	05/19/2004	GRLA2015	367	Montebello/Pico Rivera	Los Angeles	05/27/04
WNV	Culex quinquefasciatus	05/17/2004	GRLA4014	346	La Mirada	Los Angeles	05/27/04
WNV	Culex quinquefasciatus	05/17/2004	GRLA4014	353	La Mirada	Los Angeles	05/27/04
WMV	Culex quinquefasciatus	05/17/2004	GRLA4014	354	La Mirada	Los Angeles	05/27/04

Chicken Seroconversions:

Virus	County	State	Acode	City	Location
**** WNV	RIVERSIDE	CA	COAV0114	North Shore	Desert
Bands: 1381, 1382, 1382, 1387, 1388, and 1389					Probable Seroconversion Date 17-May-04

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	9	0	0	0	0	0	0	0	0
	YTD	220	0	0	0	0	0	0	0	0
Suspect Equine Cases	Week	0	0	0	0	0	0	0	0	0
	YTD	72	0	0	0	0	0	0	0	0

Dead Birds

	Number Tested	WNV Positive
Week	208	157
YTD	730	209

Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Other Positive
Chicken sera	Week	1186	6	0	0	0
	YTD	7581	6	0	0	0
Mosquito pools	Week	305	6	0	0	0
	YTD	2571	25	0	0	0

National Comments:

According to the Centers for Disease Control and Prevention, as of June 2, 2004, West Nile Virus (WNV) activity has been detected in 18 states. There were no new states reporting activity this week. New Mexico announced the first human case in the U.S. on Wednesday, May 26, 2004. A second human case was reported from Arizona on Thursday, May 27, 2004. The Wyoming Department of Health Reported their first human case on June, 4, 2004. The human case previously reported in Ohio was determined to be negative for WNV infection upon further testing.

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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.

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. 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.

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].
