Week 38 Friday, September 24, 2004

Weekly Summary

California Loses a Giant. William C. Reeves, extraordinary researcher in arboviruses and mentor to many of us, died unexpectedly earlier this week in Walnut Creek, California, at the age of 87. Next week's bulletin will have a tribute to Dr. Reeves by Dr. Bruce Eldridge. At Dr. Reeves' insistence, there will be no memorial service. He is survived by his wife, Mary Jane Reeves, and sons Bill, Jr., Bob, and Terry and their families. The family requests no flowers, but cards and letters can be sent to the home address: 2846 Kinney Drive, Walnut Creek, CA 94595. Donations in his memory can be made to the School of Public Health Fund and mailed to the Office of External Relations, UC Berkeley School of Public Health, 140 Warren Hall, Berkeley, California, 94720-7360.

California Weekly Summary Comments:

Humans:

This week, California reported 54 new humans infected with West Nile virus (WNV). As of September 24, 2004, a total of **612** WNV infections have been reported from the following local health jurisdictions: San Bernardino (184), Los Angeles (245), Riverside (94), Orange (36), Kern (23), Fresno (9), Imperial (1), Lassen (1), Ventura (1), Butte (4), Lassen (1), Merced (1), San Diego (1), Santa Clara (1)San Luis Obispo (1), Shasta (3), Tehama (5), Tulare (1) and Yolo (1) counties. Fifty-eight of the 612 WNV infections were initially detected in asymptomatic individuals through screening done at blood banks – nine of these individuals later became symptomatic. Of the 563 WNV cases with symptoms, 209 are classified as West Nile fever cases, 180 are classified as West Nile neuroinvasive disease, and 174 are of unknown status. The median age for all cases where data was available is 52 years (range: 2-91 years). Median age for West Nile fever cases is 48 years (range 7-89 years). Median age for West Nile neuroinvasive disease cases = 59 years (range: 4-91 years). Sixty-one per cent (346/563) of the cases are male. There have been 17 fatalities to date in California in San Bernardino (5), Los Angeles (8), Riverside (2) Orange (1) and Tehama (1) counties. The median age of the 17 fatalities is 75 years (range: 57-91 years).

Equine:

The California Department of Food & Agriculture confirmed 59 WNV equine cases from Butte (1), Colusa (1), Fresno (4), Kern (3), Lake (2), Los Angeles (2), Placer (5), Riverside (6), Sacramento (21), San Joaquin (1), Shasta (3), Siskiyou (2), Tehama (4), Tulare (3), and Yuba (1) counties. This was the first WNV positive horse result for San Joaquin County. Currently, the YTD total stands at 386 positive cases. A total of 164 horses have died or euthanatized from the WNV infection.

Dead Birds:

The hotline received 2,863 reported dead birds last week (YTD = 82,714). The UC Davis Center for Vectorborne Diseases (CVEC) reported 124 out of 179 dead birds submitted last week have tested positive for WNV by RT-PCR: American crows (19), American kestrels (2), an American robin (1), a black phoebe (1), a black-billed magpies (2), a black-headed grosbeak (1), California towhees (2), a common raven (1), a Cooper's hawk (1), an European starling (1), hooded orioles (2), house finches (3), house sparrows (2), a lesser goldfinch (1), a mallard duck (1), a mountain quail (1), a mourning dove (1), a northern flicker (1), a northern mockingbird (1), a pigmy nuthatch (1), red-tailed hawks (3), sharp-shinned hawks (2), a song sparrow (1), a spotted towhee (1), Steller's jays (4), a Townsend's warbler (1), a western sandpiper (1), a western screech-owl (1), western scrub-jays (43), western tanagers (2), a white-crowned sparrow (1), and yellow-billed magpies (19). The hooded orioles, pigmy nuthatch, Townsend's warbler, and white-crowned sparrow were the first of their species to test positive for WNV this year. The YTD total stands at 2,469 positive bird carcasses.

The positive birds were collected within the 36 counties of Alameda (3), Calaveras (1), Contra Costa (2), Fresno (9), Glenn (10), Humboldt (1), Inyo (2), Kern (2), Kings (1), Lake (3), Los Angeles (3), Marin (2), Merced (1), Mono (1), Napa (2), Nevada (1), Orange (2), Placer (3), Plumas (3), Riverside (3), Sacramento (11), San Diego (1), San Francisco (3), San Joaquin (2), San Luis Obispo (1), Santa Cruz (7), Shasta (3), Siskiyou (8), Solano (2), Stanislaus (7), Sutter (3), Tehama (10), Trinity (1), Tulare (3), Tuolumne (5), and Yuba (2).

A cumulative total of 179 dead birds were tested from 40 of the 56 WNV positive counties. Thus 69.3% (124/179) of the birds tested from these counties were WNV positive. No birds were tested this week came from the two remaining negative counties in California: Del Norte and San Benito.

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News Flash:

CVEC reported Wednesday that 98 of 142 dead birds have tested positive for WNV. The positive birds were collected within the 28 counties of Amador (1), Fresno (3), Kern (4), Kings (1), Lake (3), Lassen (1), Los Angeles (5), Mendocino (1), Merced (3), Monterey (3), Nevada (1), Placer (9), Sacramento (24), San Francisco (1), San Joaquin (2), San Luis Obispo (1), Santa Clara (1), Santa Cruz (3), Shasta (1), Siskiyou (2), Solano (3), Sonoma (2), Stanislaus (9), Sutter (3), Tulare (5), Ventura (2), Yolo (4), and Yuba (1).

Mosquito Pools:

CVEC reported 42 positive pools from Los Angeles (7), Kern (21), Lake (5), Orange (3), Placer (1), Riverside (3), Sutter (1), and Stanislaus counties. To date, 17 CA counties have reported positive mosquito activities. WNV has been isolated from nine mosquito species: *Culex tarsalis, Cx. erythrothorax, Cx. quinquefasciatus, Cx. stigmatosoma, Cx. thriambus, Cx. pipiens, Anopheles hermsi*, and *Ochlerotatus squamiger* and *Oc. melanimon*. The YTD total stands at 971 positive pools.

Chickens:

Forty-three WNV chicken seroconversions were detected in 20 flocks from Butte (15), Glenn (4), Kern (15), Placer (5), Riverside (1),San Joaquin (1), and Sutter (2) counties. The current YTD total stands at 487 WNV seroconversions.

Website Information:

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

TESTING SUMMARIES

Humans and Equines

-		Number	WNV P	ositive	WEE P	ositive	SLE P	ositive	Other F	Positive
		Tested	Imported	Local	Imported	Local	Imported	Local	Imported	Local
Individuals Tested	Week	117	0	54	0	0	0	0	0	0
	YTD	1342	0	612	0	0	0	0	0	0
Suspect Equine	Week	n/a	0	59	0	0	0	0	0	0
Cases	YTD	874	0	386	0	0	0	0	0	0

Dead Birds

	Number Tested	WNV Positive		
Week	179	124		
YTD	4,101	2,469		

Sentinel Chickens and

Mosquito Pool	S	Tested	Positive	Positive	Positive	Positive
	Week	1160*	43	0	0	0
Chicken sera	YTD	24,270	487	0	0	0
	Week	770	42	0	0	0
Mosquito pools	YTD	10,790	971	0	0	0

^{*}This total has been adjusted to include local agency submissions

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POSITIVES

Human Positives Reported:

Virus	Date of Onset	Status	Diagnosis	County	Imported/Local	From
WNV	Unknown	Probable	Unknown	Riverside	Local	
WNV	8/13/04	Probable	West Nile Fever	Riverside	Local	
WNV	Unknown	Probable	Unknown	Riverside	Local	
WNV	8/15/04	Probable	West Nile Fever	Orange	Local	
WNV	8/28/04	Probable	West Nile Fever	Orange	Local	
WNV	8/28/04	Probable	West Nile Fever	Kern	Local	
WNV	8/25/04	Probable	West Nile Fever	Kern	Local	
WNV	8/18/04	Probable	West Nile Fever	Kern	Local	
WNV	Unknown	Probable	Unknown	Tehama	Local	
WNV	Unknown	Probable	West Nile Neuroinvasive Disease		Local	
				San Luis Obispo		
WNV	8/31/04	Probable	West Nile Neuroinvasive Disease	Los Angeles	Local	
WNV	8/28/04	Probable	Unknown	Los Angeles	Local	
WNV	9/04/04	Probable	West Nile Neuroinvasive Disease	Los Angeles	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	8/10/04	Probable	West Nile Fever	Los Angeles	Local	
WNV	7/24/04	Probable	West Nile Fever	San Bernardino	Local	
WNV	Unknown	Probable	Unknown	San Bernardino	Local	
WNV	Unknown	Probable	Unknown	San Bernardino	Local	
WNV	Unknown	Probable	Unknown	San Bernardino	Local	
WNV	Unknown	Probable	Unknown	Riverside	Local	
WNV	Unknown	Probable	Unknown	Riverside	Local	
WNV	Unknown	Probable	West Nile Fever*	San Bernardino	Local	
WNV	8/15/04	Probable	West Nile Fever*	San Bernardino San Bernardino	Local	
WNV	8/19/04	Probable	West Nile Neuroinvasive Disease	San Bernardino	Local	
WNV	Unknown	Probable	West Nile Neuroinvasive Disease	San Bernardino	Local	
WNV	8/11/04	Probable	West Nile Fever	San Bernardino	Local	
WNV	7/14/04	Probable	West Nile Fever	San Bernardino	Local	
WNV	Unknown	Probable	Unknown	Orange	Local	
WNV	Unknown	Probable	Unknown	Orange	Local	
WNV	Unknown	Probable	Unknown	Orange	Local	
WNV	9/15/04	Probable	West Nile Fever	Riverside	Local	
WNV	8/22/04	Probable	West Nile Fever	Riverside	Local	
WNV	Unknown	Probable	West Nile Neuroinvasive Disease	Riverside	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	8/29/04	Probable	West Nile Fever	Los Angeles	Local	
WNV	Unknown		Unknown	Los Angeles Los Angeles		
		Probable			Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	9/03/04	Probable	West Nile Neuroinvasive Disease	Los Angeles	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	9/09/04	Probable	West Nile Fever	Los Angeles	Local	
WNV	9/16/04	Probable	West Nile Fever	Los Angeles	Local	
WNV	9/13/04	Probable	West Nile Fever	Los Angeles	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	Unknown	Probable	Unknown	San Bernardino	Local	
WNV	Unknown	Probable	Unknown	Riverside	Local	
WNV	Unknown	Probable	Unknown	Kern	Local	
WNV	Unknown	Probable	Unknown	Kern	Local	
WNV	8/31/04	Probable	West Nile Neuroinvasive Disease	Kern	Local	
WNV	Week 37	Probable	West Nile Neuroinvasive Disease	Shasta	Local	
WNV	Not Applicable	Probable	Asymptomatic – Blood Bank	Los Angeles	Local	
WNV	Not Applicable	Probable	Asymptomatic – Blood Bank	San Bernardino	Local	
WNV	Not Applicable	Probable	Asymptomatic – Blood Bank	Orange	Local	

^{*}Indicates fatality

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Chicken Seroconversions Reported by DHS:

WNV Butte CA BUCO0001 Bands: 1109, 1111 WNV Butte CA BUCO0002 Bands: 1112, 1115 WNV Butte CA BUCO0003 Bands: 1124, 1131, 1133 WNV Butte CA BUCO0004 Bands: 1139, 1141, 1144 WNV Butte CA BUCO0005	Chico Elmer Street Probable Seroconversion Date: 15-3 Biggs Thebachs Probable Seroconversion Date: 15-3 Palermo Turners Probable Seroconversion Date: 15-3	
WNV Butte CA BUCO0002 Bands: 1112, 1115 WNV Butte CA BUCO0003 Bands: 1124, 1131, 1133 WNV Butte CA BUCO0004 Bands: 1139, 1141, 1144 WNV Butte CA BUCO0005	Biggs Thebachs Probable Seroconversion Date: 15-3 Palermo Turners	
Bands: 1112, 1115 WNV Butte CA BUCO0003 Bands: 1124, 1131, 1133 WNV Butte CA BUCO0004 Bands: 1139, 1141, 1144 WNV Butte CA BUCO0005	Palermo Turners	September-M
WNV Butte CA BUCO0003 Bands: 1124, 1131, 1133 WNV Butte CA BUCO0004 Bands: 1139, 1141, 1144 WNV Butte CA BUCO0005	Palermo Turners	Sentember-M
Bands: 1124, 1131, 1133 WNV Butte CA BUCO0004 Bands: 1139, 1141, 1144 WNV Butte CA BUCO0005		September-04
WNV Butte CA BUCO0004 Bands: 1139, 1141, 1144 WNV Butte CA BUCO0005	Probable Seroconversion Date: 15-	
Bands: 1139, 1141, 1144 WNV Butte CA BUCO0005		September-04
WNV Butte CA BUCO0005	Gridley Gray Lodge	-
	Probable Seroconversion Date: 15-3	September-04
D	Honcut Honcut	-
Bands : 1148, 1151, 1155	Probable Seroconversion Date: 15-3	September-04
WNV Butte CA BUCO0007	Chico M&T Ranch	
Bands : 1169, 1171	Probable Seroconversion Date: 15-3	September-04
WNV Glenn CA GLEN9701	Willows N.E. Willows	
Band : 1804, 1813	Probable Seroconversion Date: 15-	September-04
WNV Glenn CA GLEN9710	Orland Orland flock	
Band : 1841, 1843	Probable Seroconversion Date: 15-3	September-04
WNV Kern CA KERN0104	Bakersfield Old River	
Band : 1975, 1978, 1979	Probable Seroconversion Date: 13-	September-04
WNV Kern CA KERN0105	Bakersfield Wibble/Houghton	
Band : 1981, 1985, 1988	Probable Seroconversion Date: 13-	September-04
WNV Kern CA KERN0106	Bakersfield Bakersfield	
Band : 1994, 2044	Probable Seroconversion Date: 13-5	September-04
WNV Kern CA KERN0107	Arvin John Dale	
Band : 2003, 2006	Probable Seroconversion Date: 13-5	September-04
WNV Kern CA KERN0110	Bakersfield Kern River	
Band : 2019, 2020	Probable Seroconversion Date: 13-5	September-04
WNV Kern CA KERN0112	Wasco Wells residence	
Band : 2031, 2033, 2046	Probable Seroconversion Date: 13-5	September-04
WNV Placer CA PLCR0021	Lincoln Nelson Lane	
Band : 2716, 2717, 2719	Probable Seroconversion Date: 13-5	September-04
WNV Placer CA PLCR0026	Sheridan Sheridan	
Band : 2731, 2738	Probable Seroconversion Date: 13-5	September-04
WNV Riverside CA WVAL0004	Ontario 4 th Street	
Band : 3849	Probable Seroconversion Date: 15-5	September-04
WNV San Joaquin CA SJCM9906	French Camp Roberts Island	
Band : 3223	Probable Seroconversion Date: 13-5	September-04
WNV Sutter CA SUYA0014	Sutter Dean	
Band : 3551	Probable Seroconversion Date: 16-3	September-04
WNV Sutter CA SUYA0031	Rio Oso Barker	
Band : 3574	Probable Seroconversion Date: 16-S	September-04

^{****}Indicates a new flock

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Virus Isolations From Mosquito Pools:

Virus	Mosquito species	Date Collected	ACODE	Pool #	City	County	Date Received
WNV	Culex quinquefasciatus	8-Sept	GRLA	1826	Santa Clarita	Los Angeles	16-Sept
WNV	Culex quinquefasciatus	7-Sept	GRLA	1827	Mission Hills	Los Angeles	16-Sept
WNV	Culex stigmatosoma	7-Sept	GRLA	1829	Mission Hills	Los Angeles	16-Sept
WNV	Culex quinquefasciatus	9-Sept	GRLA	1844	Los Angeles	Los Angeles	16-Sept
WNV	Culex quinquefasciatus	8-Sept	GRLA	3158	Rowland Heights	Los Angeles	16-Sept
WNV	Culex quinquefasciatus	9-Sept	GRLA	3177	Montebello	Los Angeles	16-Sept
WNV	Culex quinquefasciatus	9-Sept	GRLA	3178	Montebello	Los Angeles	16-Sept
WNV	Culex quinquefasciatus	8-Sept	KERN	393	Bakersfield	Kern	15-Sept
WNV	Culex tarsalis	8-Sept	KERN	396	Bakersfield	Kern	15-Sept
WNV	Culex tarsalis	9-Sept	KERN	404	Lamont	Kern	15-Sept
WNV	Culex tarsalis	9-Sept	KERN	410	Arvin	Kern	15-Sept
WNV	Culex quinquefasciatus	10-Sept	KERN	413	Shafter	Kern	15-Sept
WNV	Culex quinquefasciatus	10-Sept	KERN	415	Buttonwillow	Kern	15-Sept
WNV	Culex quinquefasciatus	10-Sept	KERN	416	Shafter	Kern	15-Sept
WNV	Culex quinquefasciatus	10-Sept	KERN	417	Shafter	Kern	15-Sept
WNV	Culex quinquefasciatus	10-Sept	KERN	418	Wasco	Kern	15-Sept
WNV	Culex tarsalis	8-Sept	KERN	5572	Arvin	Kern	15-Sept
WNV	Culex tarsalis	8-Sept	KERN	5574	Arvin	Kern	15-Sept
WNV	Culex tarsalis	8-Sept	KERN	5588	Arvin	Kern	15-Sept
WNV	Culex quinquefasciatus	8-Sept	KERN	5601	Arvin	Kern	15-Sept
WNV	Culex quinquefasciatus	10-Sept	KERN	5605	Buttonwillow	Kern	15-Sept
WNV	Culex quinquefasciatus	10-Sept	KERN	5612	Buttonwillow	Kern	15-Sept
WNV	Culex tarsalis	10-Sept	KERN	5615	Shafter	Kern	15-Sept
WNV	Culex quinquefasciatus	10-Sept	KERN	5620	Lost Hills	Kern	15-Sept
WNV	Culex tarsalis	10-Sept	KERN	5626	Lost Hills	Kern	15-Sept
WNV	Culex tarsalis	10-Sept	KERN	5627	Lost Hills	Kern	15-Sept
WNV	Culex tarsalis	10-Sept	KERN	5638	Lost Hills	Kern	15-Sept
WNV	Culex quinquefasciatus	10-Sept	KERN	5639	Bakersfield	Kern	15-Sept
WNV	Culex stigmatosoma	10-Sept	LAKE	277	Upper Lake	Lake	16-Sept
WNV	Culex erythrothorax	15-Sept	LAKE	283	Nice	Lake	16-Sept
WNV	Culex tarsalis	15-Sept	LAKE	284	Nice	Lake	16-Sept
WNV	Culex stigmatosoma	15-Sept	LAKE	292	Upper Lake	Lake	16-Sept
WNV	Culex tarsalis	15-Sept	LAKE	293	Lower Lake	Lake	16-Sept
WNV	Culex tarsalis	2-Sept	NWST	407	Norco	Riverside	10-Sept
WNV	Culex quinquefasciatus	8-Sept	ORCO	1483	Cypress	Orange	14-Sept
WNV	Culex quinquefasciatus	8-Sept	ORCO	1485	Anaheim	Orange	14-Sept
WNV	Culex quinquefasciatus	8-Sept	ORCO	1486	Orange	Orange	14-Sept
WNV	Culex tarsalis	16-Sept	PLCR	118	Sheridan	Placer	16-Sept
WNV	Culex erythrothorax	14-Sept	RIVR	227	Murrieta	Riverside	16-Sept
WNV	Culex erythrothorax	14-Sept	RIVR	228	Murrieta	Riverside	16-Sept
WNV	Culex tarsalis	13-Sept	SUYA	247	Pennington	Sutter	15-Sept
WNV	Culex tarsalis	8-Sept	TRLK	334	Newman	Stanislaus	10-Sept

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Dead Birds Tested Positive for WNV last week

Species	County	City	Zip	Date Collected	Date Tested
Mallard Duck	Alameda	Pleasanton	94566	8/31/2004	9/13/2004
Cooper's Hawk	Alameda	San Leandro	94579	9/1/2004	9/13/2004
Mourning Dove	Alameda	San Leandro	94577	8/23/2004	9/16/2004
Black Phoebe	Calaveras	Valley Springs	95252	9/1/2004	9/13/2004
Western Scrub-Jay	Contra Costa	Alamo	94507	9/3/2004	9/13/2004
Western Scrub-Jay	Contra Costa	Walnut Creek	94598	9/2/2004	9/13/2004
American Crow	Fresno	Clovis	93612	8/31/2004	9/13/2004
American Crow	Fresno	Clovis	93611	8/10/2004	9/15/04
Western Scrub-Jay	Fresno	Fresno	93702	8/26/2004	9/16/2004
Western Scrub-Jay	Fresno	Sanger	93657	8/31/2004	9/13/2004
Western Scrub-Jay	Fresno	Sanger	93657	9/2/2004	9/13/2004
Western Scrub-Jay	Fresno	Sanger	93657	9/3/2004	9/13/2004
Western Scrub-Jay	Fresno	Sanger	93657	9/3/2004	9/13/2004
American Crow	Fresno	Sanger	93657	8/24/2004	9/16/2004
Northern Mockingbird	Fresno	Selma	93662	8/31/2004	9/13/2004
Yellow-billed Magpie	Glenn	Orland	95963	9/1/2004	9/13/2004
Yellow-billed Magpie	Glenn	Orland	95963	8/6/2004	9/15/04
Yellow-billed Magpie	Glenn	Orland	95963	8/9/2004	9/15/04
American Crow	Glenn	Orland	95963	8/9/2004	9/15/04
Red-tailed Hawk	Glenn	Willows	95988	9/2/2004	9/13/2004
American Crow	Glenn	Willows	95988	9/3/2004	9/13/2004
American Crow	Glenn	Willows	95988	9/3/2004	9/13/2004
American Crow	Glenn	Willows	95988	9/3/2004	9/13/2004
American Crow	Glenn	Willows	95988	9/7/2004	9/13/2004
Western Scrub-Jay	Glenn	Willows	95988	9/1/2004	9/13/2004
California Towhee	Humboldt	Miranda	95559	8/31/2004	9/13/2004
American Crow	Inyo	Bishop	93514	9/1/2004	9/13/2004
Common Raven	Inyo	Bishop	93514	9/2/2004	9/13/2004
Western Scrub-Jay	Kern	Bakersfield	93308	9/2/2004	9/13/2004
Western Scrub-Jay	Kern	Bakersfield	93309	9/2/2004	9/13/2004
Western Scrub-Jay	Kings	Lemoore	93245	9/2/2004	9/13/2004
American Crow	Lake	Clearlake	95422	9/1/2004	9/13/2004
Western Scrub-Jay	Lake	Clearlake	95422	8/31/2004	9/13/2004
American Crow	Lake	Lakeport	95453	8/10/2004	9/15/04
American Crow	Los Angeles	Gardena	90247	8/26/2004	9/13/2004
American Crow	Los Angeles	San Pedro	90731	8/30/2004	9/13/2004
American Crow	Los Angeles	San Pedro	90731	9/1/2004	9/13/2004
Western Scrub-Jay	Marin	San Anselmo	94960	9/3/2004	9/13/2004
California Towhee	Marin	Tomales	94971	9/1/2004	9/13/2004
American Kestrel	Merced	Atwater	95301	9/7/2004	9/13/2004
Pigmy Nuthatch	Mono	Mammoth Lakes	93546	9/2/2004	9/13/2004
Sharp-shinned Hawk	Napa	Napa	94558	9/1/2004	9/13/2004
Western Screech-Owl	Napa	Yountville	94599	9/3/2004	9/13/2004
Western Scrub-Jay	Nevada	Nevada City	95959	9/3/2004	9/13/2004
Hooded Oriole	Orange	Irvine	92618	8/30/2004	9/13/2004

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Species	County	City	Zip	Date Collected	Date Tested
Hooded Oriole	Orange	Laguna Woods	92653	8/26/2004	9/13/2004
Yellow-billed Magpie	Placer	Lincoln	95648	9/1/2004	9/13/2004
Yellow-billed Magpie	Placer	Lincoln	95648	9/1/2004	9/13/2004
Yellow-billed Magpie	Placer	Lincoln	95648	9/1/2004	9/13/2004
Black-headed Grosbeak	Plumas	Quincy	95971	9/1/2004	9/13/2004
Steller's Jay	Plumas	Quincy	95971	9/3/2004	9/13/2004
Steller's Jay	Plumas	Quincy	95971	8/26/2004	9/16/2004
Western Scrub-Jay	Riverside	Calimesa	92320	8/26/2004	9/13/2004
American Crow	Riverside	Menifee	92584	9/1/2004	9/13/2004
American Crow	Riverside	Palm Desert	92211	9/1/2004	9/13/2004
Western Scrub-Jay	Sacramento	Citrus Heights	95610	9/2/2004	9/13/2004
Yellow-billed Magpie	Sacramento	Rio Linda	95673	9/2/2004	9/13/2004
Yellow-billed Magpie	Sacramento	Rio Linda	95673	9/3/2004	9/13/2004
Yellow-billed Magpie	Sacramento	Rio Linda	95673	9/3/2004	9/13/2004
American Crow	Sacramento	Sacramento	95838	9/3/2004	9/13/2004
Red-tailed Hawk	Sacramento	Sacramento	95837	8/31/2004	9/13/2004
Western Scrub-Jay	Sacramento	Sacramento	95822	9/2/2004	9/13/2004
Western Scrub-Jay	Sacramento	Sacramento	95823	9/2/2004	9/13/2004
Western Scrub-Jay	Sacramento	Sacramento	95823	9/3/2004	9/13/2004
Yellow-billed Magpie	Sacramento	Sacramento	95829	9/3/2004	9/13/2004
Western Scrub-Jay	Sacramento	Sacramento	95841	8/30/2004	9/16/2004
Steller's Jay	San Diego	Julian	92036	8/29/2004	9/16/2004
American Robin	San Francisco	San Francisco	94143	9/2/2004	9/13/2004
House Sparrow	San Francisco	San Francisco	94118	9/7/2004	9/13/2004
White-crowned Sparrow	San Francisco	San Francisco	94122	9/2/2004	9/13/2004
American Crow	San Joaquin	French Camp	95231	8/9/2004	9/15/04
Western Scrub-Jay	San Joaquin	Lodi	95242	9/7/2004	9/13/2004
European Starling	San Luis Obispo	Arroyo Grande	93420	8/4/2004	9/15/04
Townsend's Warbler	Santa Cruz	Aptos	95003	9/1/2004	9/13/2004
Western Scrub-Jay	Santa Cruz	Santa Cruz	95060	9/1/2004	9/13/2004
Western Scrub-Jay	Santa Cruz	Scotts Valley	95066	9/2/2004	9/13/2004
House Finch	Santa Cruz	Watsonville	95076	9/2/2004	9/13/2004
House Finch	Santa Cruz	Watsonville	95076	9/7/2004	9/13/2004
House Sparrow	Santa Cruz	Watsonville	95076	9/7/2004	9/13/2004
Western Sandpiper	Santa Cruz	Watsonville	95076	8/31/2004	9/16/2004
Yellow-billed Magpie	Shasta	Igo	96047	9/1/2004	9/13/2004
Yellow-billed Magpie	Shasta	Millville	96062	9/1/2004	9/13/2004
Western Scrub-Jay	Shasta	Redding	96001	8/20/2004	9/16/2004
Black-billed Magpie	Siskiyou	Dorris	96023	9/2/2004	9/13/2004
Western Scrub-Jay	Siskiyou	Etna	96027	9/1/2004	9/13/2004
Black-billled Magpie	Siskiyou	Fort Jones	96032	9/1/2004	9/13/2004
Red-tailed Hawk	Siskiyou	Montague	96064	9/3/2004	9/13/2004
Northern Flicker	Siskiyou	Mount Shasta	96067	9/1/2004	9/13/2004
Spotted Towhee	Siskiyou	Mount Shasta	96067	9/8/2004	9/13/2004
Mountain Quail	Siskiyou	Weed	96094	9/2/2004	9/13/2004

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Species	County	City	Zip	Date Collected	Date Tested
Western Scrub-Jay	Siskiyou	Yreka	96097	9/7/2004	9/13/2004
Western Scrub-Jay	Solano	Vacaville	95688	9/1/2004	9/13/2004
Western Scrub-Jay	Solano	Vacaville	95687	9/3/2004	9/13/2004
Western Scrub-Jay	Stanislaus	Modesto	95355	8/31/2004	9/13/2004
Western Scrub-Jay	Stanislaus	Modesto	95356	9/1/2004	9/13/2004
Western Scrub-Jay	Stanislaus	Modesto	95356	9/2/2004	9/13/2004
Yellow-billed Magpie	Stanislaus	Modesto	95358	9/1/2004	9/13/2004
Yellow-billed Magpie	Stanislaus	Modesto	95356	9/1/2004	9/13/2004
Yellow-billed Magpie	Stanislaus	Modesto	95350	9/1/2004	9/13/2004
Western Scrub-Jay	Stanislaus	Modesto	95350	8/30/2004	9/16/2004
Yellow-billed Magpie	Sutter	Pleasant Grove	95668	9/3/2004	9/13/2004
Western Scrub-Jay	Sutter	Yuba City	95993	9/1/2004	9/13/2004
Yellow-billed Magpie	Sutter	Yuba City	95993	9/8/2004	9/13/2004
Western Scrub-Jay	Tehama	Corning	96021	9/2/2004	9/13/2004
Yellow-billed Magpie	Tehama	Corning	96021	8/30/2004	9/13/2004
Steller's Jay	Tehama	Manton	96059	9/2/2004	9/13/2004
American Crow	Tehama	Red Bluff	96080	8/31/2004	9/13/2004
Sharp-shinned Hawk	Tehama	Red Bluff	96080	9/2/2004	9/13/2004
Western Scrub-Jay	Tehama	Red Bluff	96080	9/2/2004	9/13/2004
Western Scrub-Jay	Tehama	Red Bluff	96080	9/2/2004	9/13/2004
Western Scrub-Jay	Tehama	Red Bluff	96080	9/3/2004	9/13/2004
Western Scrub-Jay	Tehama	Red Bluff	96080	9/3/2004	9/13/2004
Yellow-billed Magpie	Tehama	Red Bluff	96080	9/2/2004	9/13/2004
American Kestrel	Trinity	Hayfork	96041	8/31/2004	9/13/2004
Western Scrub-Jay	Tulare	Tulare	93274	9/1/2004	9/13/2004
Western Scrub-Jay	Tulare	Tulare	93274	9/2/2004	9/13/2004
Western Scrub-Jay	Tulare	Visalia	93277	9/2/2004	9/13/2004
Song Sparrow	Tuolumne	Columbia	95310	9/1/2004	9/13/2004
Western Tanager	Tuolumne	Columbia	95310	8/30/2004	9/16/2004
Lesser Goldfinch	Tuolumne	Jamestown	95327	8/31/2004	9/16/2004
Western Tanager	Tuolumne	Sonora	95370	9/1/2004	9/13/2004
House Finch	Tuolumne	Sonora	95370	8/30/2004	9/16/2004
Western Scrub-Jay	Yuba	Loma Rica	95901	9/2/2004	9/13/2004
Western Scrub-Jay	Yuba	Loma Rica	95901	9/8/2004	9/13/2004

National Comments:

As of September 21, 2004, West Nile Virus (WNV) activity has been detected in 47 states, Puerto Rico, and New York City. Over 1600 human WNV cases have been reported in 39 states and New York City. At this time in 2003, 4827 cases had been reported from 40 states. Of the 1,541 WNV cases where data is available, the median age is 51 years (range: 1 month – 99 years) and 58% are male. Thirty-four percent of the cases were neuroinvasive, compared with 29% at this time in 2003. There have been 45 WNV-related fatalities nationwide in 2004. The median age of the 45 fatalities where data were available was 75 years.

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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.

Crows from positive zip codes are no longer accepted for necropsy. Positive Vec-tests from oral swabs from crows are no longer confirmed. Other bird species tested by RT-PCR using singleplex and confirmed with a second primer set.

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* EIA testing for all mosquito species.

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].