

California Arbovirus Surveillance Bulletin # 25

Week 40 Friday, October 8, 2004

Weekly Summary

California Weekly Summary Comments:

Humans:

This week, California reported 60 new humans infected with West Nile virus (WNV). As of October 8, 2004, a total of 714 WNV infections have been reported from the following local health jurisdictions: San Bernardino (189), Los Angeles (290), Riverside (99), Orange (51), Kern (41), Fresno (13), Imperial (1), Lassen (1), Glenn (1), Ventura (2), Butte (6), Lassen (1), Merced (1), Placer (1), Sacramento (1), San Diego (1), San Joaquin (1), Santa Clara (1), San Luis Obispo (1), Shasta (3), Tehama (8), Tulare (1) and Yolo (1) counties. Seventy-four of the 714 WNV infections were initially detected in asymptomatic individuals through screening done at blood banks – ten of these individuals later became symptomatic. Of the 650 WNV cases with symptoms, 241 are classified as West Nile fever cases, 196 are classified as West Nile neuroinvasive disease, and 213 are of unknown status. The median age for all cases where data was available is 52 years (range: 2-94 years). Median age for West Nile fever cases is 49 years (range 7-89 years). Median age for West Nile neuroinvasive disease cases = 58 years (range: 4-91 years). Sixty-two per cent (401/650) of the cases are male. There have been 19 fatalities to date in California in San Bernardino (5), Los Angeles (9), Riverside (2) Orange (2) and Tehama (1) counties. The median age of the 19 fatalities is 75 years (range: 57-91 years).

Equine:

The California Department of Food & Agriculture confirmed 52 WNV equine cases from Butte (1), Fresno (3), Kern (4), Los Angeles (2), Orange (1), Placer (2), Riverside (5), Sacramento (9), San Bernardino (1), San Joaquin (8), Shasta (3), Siskiyou (2), Tehama (1), and Tulare (3), Ventura (1), Yolo (1), and Yuba (5) counties. This was the first WNV positive horse reporting for Yolo County. Currently, the YTD total stands at 471 positive cases. A total of 202 horses have died or euthanized from the WNV infections.

Dead Birds:

The hotline received 1,966 reported dead birds last week (YTD = 88,048). The UC Davis Center for Vectorborne Diseases (CVEC) reported 180 out of 234 dead birds submitted last week have tested positive for WNV by RT-PCR: American crows (32), an American robin (1), barn owls (3), a black-headed grosbeak (1), brewer's blackbirds (4), California quails (2), California towhees (2), a common moorhen (1), a common yellowthroat (1), a cooper's hawk (1), a domestic duck (1), a domestic goose (1), European starlings (2), fox sparrows (2), great horned owls (2), House finches (2), house sparrows (4), lesser goldfinches (3), loggerhead shrikes (2), mourning doves (2), an osprey (1), a pacific-slope flycatcher (1), a pied-billed grebe (1), red-tailed hawks (4), a sharp-shinned hawk (1), a spotted towhee (1), Steller's jays (7), Swainson's thrushes (3), a turkey vulture (1), western bluebirds (2), western scrub-jays (66), a white-tailed kite (1), and yellow-billed magpies (22). The greater common moorhen, domestic duck, fox sparrows, loggerhead shrikes, pied-billed grebe, and Swainson's thrushes were the first of their species to test positive for WNV this year.

The positive birds were collected within the 44 counties of Alameda (2), Amador (3), Butte (1), Contra Costa (1), El Dorado (1), Fresno (11), Humboldt (4), Inyo (3), Kern (12), Kings (2), Lake (5), Lassen (1), Los Angeles (8), Madera (1), Marin (1), Mariposa (1), Mendocino (3), Merced (3), Mono (2), Nevada (5), Orange (5), Placer (6), Riverside (1), Sacramento (18), San Benito (3), San Bernardino (1), San Diego (6), San Francisco (1), San Joaquin (12), San Luis Obispo (2), San Mateo (1), Santa Clara (4), Santa Cruz (2), Shasta (1), Siskiyou (4), Solano (3), Sonoma (8), Stanislaus (9), Sutter (3), Trinity (2), Tulare (7), Ventura (3), Yolo (7), and Yuba (1). **This represents the first indication of WNV activity in San Benito County.**

A cumulative total of 231 dead birds were tested from 47 of the 57 WNV positive counties. Thus 79.2% (183/231) of the birds tested from these counties were WNV positive. No birds were tested that week came from Del Norte.

Local agencies confirmed an additional 42 American crows were WNV positive based on Vec-Test: Glenn (3), Los Angeles (23), Orange (7), Santa Clara (7), Shasta (1), and Tehama (1) counties. The YTD total stands at 2,789 positive bird carcasses.

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News Flash:

CVEC reported Wednesday that 133 of 203 dead birds have tested positive for WNV. The positive birds were collected within the 37 counties of Alameda (1), Butte (4), Calaveras (3), Del Norte (1), El Dorado (2), Fresno (5), Glenn (2), Humboldt (3), Kern (9), Kings (2), Lake (4), Los Angeles (8), Marin (1), Mariposa (1), Nevada (5), Orange (5), Placer (12), Plumas (3), Riverside (1), Sacramento (15), San Benito (1), San Bernardino (1), San Diego (3), San Francisco (1), San Joaquin (2), San Mateo (1), Santa Barbara (3), Santa Clara (2), Santa Cruz (3), Shasta (2), Siskiyou (1), Sonoma (4), Stanislaus (8), Sutter (3), Tehama (4), Tulare (3), and Ventura (4). **This represents the first indication of WNV activity in Del Norte County, thus all counties in California have detected WNV activity.**

Mosquito Pools:

CVEC reported 34 positive pools from Imperial (1), Kern (10), Lake (1), Los Angeles (6), Orange (11), San Bernardino (1), Sacramento (3) and Tulare (1) counties. To date, 19 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 1070 positive pools.

Chickens:

Seventy-two WNV chicken seroconversions were detected in 27 flocks from Butte (6), Fresno (17), Glenn (1), Imperial (10), Kern (3), Los Angeles (4), Placer (2), Riverside (2), Sacramento (6), San Bernardino (2), San Joaquin (4), Santa Clara (2), Shasta (1), Sutter (2) and Yolo (9) counties. These were the first seroconversions reported from Fresno, Sacramento and Santa Clara counties. Additionally, one seroconversion was reported from Moab, Utah. Of the 69 seroconversions, 22 came from 11 new flocks in Butte (3), Fresno (7), Imperial (1), Los Angeles (1), Moab (1), Sacramento (4), San Joaquin (1), Santa Clara (2) and Yolo (2) counties. Currently, 19 counties: Butte, Fresno, Glenn, Imperial, Kern, Los Angeles, Orange, Placer, Riverside, Sacramento, San Bernardino, San Joaquin, Santa Clara, Shasta, Sutter, Tehama, Tulare, Ventura, and Yolo have positive WNV seroconversions. The current YTD total stands at 618 WNV seroconversions.

****Note: Bulletins 26 and 28 will go out on the Monday following their normal date.**

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.

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	87	0	60	0	0	0	0	0	0
	YTD	1479	0	714	0	0	0	0	0	0
Suspect Equine Cases	Week	n/a	0	52	0	0	0	0	0	0
	YTD	1084	0	471	0	0	0	0	0	0

Dead Birds

	Number Tested	WNV Positive
Week	231	180
YTD	4,474	2,789

Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Other Positive
Chicken sera	Week	1347*	72	0	0	0
	YTD	26,496	618	0	0	0
Mosquito pools	Week	463	34	0	0	0
	YTD	11,770	1070	0	0	0

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*This total has been adjusted to include local agency submission

Human Positives Reported:

POSITIVES

Virus	Date of Onset	Status	Diagnosis	County	Imported/Local	From
WNV	9/17/04	Probable	West Nile Fever	Los Angeles	Local	
WNV	9/18/04	Probable	West Nile Neuroinvasive Disease	Fresno	Local	
WNV	8/25/04	Probable	Unknown	Orange	Local	
WNV	9/01/04	Probable	West Nile Fever	San Bernardino	Local	
WNV	9/08/04	Probable	West Nile Fever	Kern	Local	
WNV	8/28/04	Probable	West Nile Fever	Kern	Local	
WNV	8/24/04	Probable	West Nile Fever	Kern	Local	
WNV	8/24/04	Probable	West Nile Fever	Kern	Local	
WNV	9/02/04	Probable	West Nile Fever	Kern	Local	
WNV	Unknown	Probable	Unknown	Kern	Local	
WNV	Unknown	Probable	Unknown	San Bernardino	Local	
WNV	Unknown	Probable	Unknown	Riverside	Local	
WNV	Unknown	Probable	Unknown	Riverside	Local	
WNV	Unknown	Probable	Unknown	Riverside	Local	
WNV	9/0/2/04	Probable	Unknown	Los Angeles	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	Los Angeles	Local	
WNV	9/18/04	Probable	West Nile Neuroinvasive Disease	Los Angeles	Local	
WNV	9/02/04	Probable	West Nile Fever	Los Angeles	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	9/10/04	Probable	Unknown	Los Angeles	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	9/02/04	Probable	West Nile Neuroinvasive Disease	Sacramento	Local	
WNV	9/20/04	Probable	Unknown	Placer	Local	
WNV	9/01/04	Probable	West Nile Fever*	Orange	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	Unknown	Probable	Unknown	Orange	Local	
WNV	9/16/04	Probable	West Nile Fever	Orange	Local	
WNV	Unknown	Probable	Unknown	Orange	Local	
WNV	Unknown	Probable	Unknown	Orange	Local	
WNV	Unknown	Probable	Unknown	Orange	Local	
WNV	Week 35	Probable	Unknown	Butte	Local	
WNV	Unknown	Probable	Unknown	Kern	Local	
WNV	9/05/04	Probable	West Nile Fever	Kern	Local	
WNV	9/20/04	Probable	West Nile Fever	Kern	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	Los Angeles	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	8/28/04	Probable	West Nile Fever	Los Angeles	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	9/10/04	Probable	West Nile Neuroinvasive Disease	Kern	Local	
WNV	9/19/04	Probable	West Nile Fever	Kern	Local	
WNV	9/14/04	Probable	West Nile Fever	Kern	Local	
WNV	8/29/04	Probable	West Nile Fever	Kern	Local	
WNV	9/06/04	Probable	West Nile Fever	Kern	Local	
WNV	8/27/04	Probable	West Nile Fever	Kern	Local	
WNV	8/28/04	Probable	West Nile Fever	Los Angeles	Local	
WNV	9/12/04	Probable	West Nile Neuroinvasive Disease	Los Angeles	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	Not Applicable	Probable	Asymptomatic – Blood Bank	Fresno	Local	
WNV	Not Applicable	Probable	Asymptomatic – Blood Bank	Orange	Local	
WNV	Not Applicable	Probable	Asymptomatic – Blood Bank	Orange	Local	
WNV	Not Applicable	Probable	Asymptomatic – Blood Bank	Orange	Local	
WNV	Not Applicable	Probable	Asymptomatic – Blood Bank	Los Angeles	Local	

*Indicates fatality

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Chicken Seroconversions Reported by DHS:

Virus	County	State	Acode	City	Location
WNV	Butte	CA	BUCO0001	Chico	Elmer Street
Bands: 1102, 1106					Probable Seroconversion Date: 29-September-04
WNV	Butte	CA	BUCO0002	Biggs	Thebachs
Bands: 1114					Probable Seroconversion Date: 29-September-04
**** WNV	Butte	CA	BUCO0006	Hamilton City	River Marina
Bands: 1156, 1159, 1166					Probable Seroconversion Date: 31-August-04
**** WNV	Fresno	CA	CNSL5005	Fresno	Fresno Roofing
Bands: 1514, 1515, 1517, 1518, 1519, 1520					Probable Seroconversion Date: 16-August-04
WNV	Fresno	CA	CNSL5005	Fresno	Fresno Roofing
Bands: 1512, 1513, 1516, 1521					Probable Seroconversion Date: 30-August-04
**** WNV	Fresno	CA	CNSL5006	Sanger	R. Vargas
Bands: 1509					Probable Seroconversion Date: 30-August-04
WNV	Fresno	CA	CNSL5006	Sanger	R. Vargas
Band: 1502, 1504, 1506, 1507, 1510, 1511					Probable Seroconversion Date: 13-September-04
WNV	Glenn	CA	GLEN9701	Willows	N.E. Willows
Band: 1806					Probable Seroconversion Date: 28-September-04
**** WNV	Imperial	CA	IMPR0003	El Centro	Nichols Road flock
Band: 3892					Probable Seroconversion Date: 7-September-04
WNV	Imperial	CA	IMPR0010	Niland	Wister
Band: 4038, 4042, 4046, 4047					Probable Seroconversion Date: 6-September-04
WNV	Imperial	CA	IMPR0010	Niland	Wister
Band: 4041, 4043, 4044, 4045					Probable Seroconversion Date: 20-September-04
WNV	Imperial	CA	IMPR0012	Westmorland	Westmorland
Band: 4062					Probable Seroconversion Date: 17-September-04
WNV	Kern	CA	KERN0112	Wasco	Wells residence
Band: 2035, 2038, 2040					Probable Seroconversion Date: 27-September-04
WNV	Los Angeles	CA	GRLA1005	Whittier	Whittier-Narrows
Band: 1899, 3923					Probable Seroconversion Date: 22-September-04
WNV	Los Angeles	CA	LACW1049	Inglewood	Inglewood cemetery
Band: 2237					Probable Seroconversion Date: 23-September-04
**** WNV	Los Angeles	CA	LACW1073	Los Angeles	Downtown Los Angeles
Band: 2241					Probable Seroconversion Date: 23-September-04
**** WNV	Moab	UT	MOAB0002	Moab	Riversands
Band: 0008					Probable Seroconversion Date: 1-September-04
WNV	Placer	CA	PLCR0021	Lincoln	Nelson Lane
Band: 2715					Probable Seroconversion Date: 27-September-04
WNV	Placer	CA	PLCR0026	Sheridan	Sheridan
Band: 2739					Probable Seroconversion Date: 27-September-04
WNV	Riverside	CA	COAV0204	Indio	York
Band: 1344, 1345					Probable Seroconversion Date: 17-September-04
WNV	Yolo	CA	SAYO0607	Winters	Winters
Band: 2922, 2925, 2926, 2929					Probable Seroconversion Date: 10-September-04
**** WNV	Sacramento	CA	SAYO2205	Herald	Herald
Bands: 2892, 2893, 2896					Probable Seroconversion Date: 10-September-04

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Virus	County	State	Acode	City	Location
**** WNV	Yolo	CA	SAYO6002	Woodland	Merritt
Band: 2914, 2916					Probable Seroconversion Date: 10-September-04
WNV	Yolo	CA	SAYO6002	Woodland	Merritt
Band: 2913, 2915, 2920					Probable Seroconversion Date: 23-September-04
**** WNV	Sacramento	CA	SAYO7004	Sacramento	Natomas
Band: 2857					Probable Seroconversion Date: 10-September-04
WNV	Sacramento	CA	SAYO7004	Sacramento	Natomas
Band: 2859, 2860					Probable Seroconversion Date: 23-September-04
WNV	San Bernardino	CA	WVAL0002	Chino	Dog Club, 71 Frwy & Chino
Band: 3842, 3850					Probable Seroconversion Date: 29-September-04
WNV	San Joaquin	CA	SJCM9906	French Camp	Roberts Island
Band: 3220					Probable Seroconversion Date: 27-September-04
**** WNV	San Joaquin	CA	SJCM9908	Manteca	Two Rivers
Band: 3263					Probable Seroconversion Date: 31-August-04
WNV	San Joaquin	CA	SJCM9908	Manteca	Two Rivers
Band: 3261, 3262					Probable Seroconversion Date: 13-September-04
**** WNV	Santa Clara	CA	STCL0006	San Jose	Kelly Park
Band: 3348, 3349					Probable Seroconversion Date: 31-August-04
WNV	Shasta	CA	SHAS9704	Anderson	Shasta MVCD
Band: 3421					Probable Seroconversion Date: 28-September-04
WNV	Sutter	CA	SUYA0014	Sutter	Dean
Band: 3546, 3547					Probable Seroconversion Date: 30-September-04

****Indicates a new flock

Virus Isolations From Mosquito Pools:

Virus	Mosquito species	Date Collected	ACODE	Pool #	City	County	Date Received
WNV	Culex tarsalis	21-Sept	COAV	1114	Westmorland	Imperial	29-Sept
WNV	Culex stigmatosoma	28-Sept	DLTA	59	Visalia	Tulare	29-Sept
WNV	Culex quinquefasciatus	23-Sept	GRLA	1882	Granada Hills	Los Angeles	30-Sept
WNV	Culex quinquefasciatus	23-Sept	GRLA	1883	Granada Hills	Los Angeles	30-Sept
WNV	Culex quinquefasciatus	23-Sept	GRLA	1885	Granada Hills	Los Angeles	30-Sept
WNV	Culex tarsalis	27-Sept	GRLA	3269	Harbor City	Los Angeles	30-Sept
WNV	Culex quinquefasciatus	21-Sept	KERN	429	Bakersfield	Kern	29-Sept
WNV	Culex quinquefasciatus	23-Sept	KERN	440	Shafter	Kern	29-Sept
WNV	Culex quinquefasciatus	23-Sept	KERN	442	Bakersfield	Kern	29-Sept
WNV	Culex quinquefasciatus	23-Sept	KERN	443	Bakersfield	Kern	29-Sept
WNV	Culex quinquefasciatus	23-Sept	KERN	444	Bakersfield	Kern	29-Sept
WNV	Culex quinquefasciatus	23-Sept	KERN	5720	Bakersfield	Kern	29-Sept
WNV	Culex quinquefasciatus	23-Sept	KERN	5735	Buttonwillow	Kern	29-Sept
WNV	Culex quinquefasciatus	23-Sept	KERN	5739	Buttonwillow	Kern	29-Sept
WNV	Culex tarsalis	23-Sept	KERN	5758	Lost Hills	Kern	29-Sept
WNV	Culex tarsalis	23-Sept	KERN	5768	Lost Hills	Kern	29-Sept
WNV	Culex quinquefasciatus	20-Sept	LACW	189	Inglewood	Los Angeles	28-Sept
WNV	Culex tarsalis	23-Sept	LAKE	318	Kelseyville	Lake	30-Sept

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Virus	Mosquito species	Date Collected	ACODE	Pool #	City	County	Date Received
WNV	Culex quinquefasciatus	21-Sept	LONG	372	Long Beach	Los Angeles	24-Sept
WNV	Culex quinquefasciatus	8-Sept	ORCO	1484	Cypress	Orange	14-Sept
WNV	Culex quinquefasciatus	8-Sept	ORCO	1488	Buena Park	Orange	14-Sept
WNV	Culex quinquefasciatus	21-Sept	ORCO	1578	Santa Ana	Orange	29-Sept
WNV	Culex quinquefasciatus	22-Sept	ORCO	1580	Orange	Orange	29-Sept
WNV	Culex quinquefasciatus	22-Sept	ORCO	1581	Cypress	Orange	29-Sept
WNV	Culex quinquefasciatus	22-Sept	ORCO	1582	Westminster	Orange	29-Sept
WNV	Culex quinquefasciatus	22-Sept	ORCO	1584	Brea	Orange	29-Sept
WNV	Culex quinquefasciatus	22-Sept	ORCO	1585	Brea	Orange	29-Sept
WNV	Culex quinquefasciatus	22-Sept	ORCO	1587	Cypress	Orange	29-Sept
WNV	Culex quinquefasciatus	22-Sept	ORCO	1588	La Habra	Orange	29-Sept
WNV	Culex quinquefasciatus	28-Sept	ORCO	1608	Huntington Beach	Orange	29-Sept
WNV	Culex tarsalis	14-Sept	SANB	237	Needles	San Bernardino	30-Sept
WNV	Culex erythrothorax	22-Sept	SAYO	1138	Hood	Sacramento	27-Sept
WNV	Culex tarsalis	24-Sept	SAYO	1162	n/a	Sacramento	27-Sept
WNV	Culex pipiens	24-Sept	SAYO	1175	n/a	Sacramento	27-Sept

Dead Birds Tested Positive for WNV last week

Species	County	City	Zip	Date Collected	Date Tested
Osprey	Alameda	Fremont	94538	9/14/2004	9/27/2004
White-tailed Kite	Alameda	Hayward	94545	9/15/2004	9/27/2004
House Sparrow	Amador	Jackson	95642	9/9/2004	9/27/2004
Western Bluebird	Amador	Jackson	95642	9/20/2004	9/27/2004
Lesser Goldfinch	Amador	Plymouth	95669	9/14/2004	9/27/2004
Western Scrub-Jay	Butte	Paradise	95969	9/15/2004	9/27/2004
Western Scrub-Jay	Contra Costa	Walnut Creek	94598	9/7/2004	9/27/2004
Steller's Jay	El Dorado	South Lake Tahoe	96150	9/7/2004	9/27/2004
Loggerhead Shrike	Fresno	Clovis	93619	9/16/2004	9/27/2004
House Sparrow	Fresno	Dos Palos	93620	9/14/2004	9/27/2004
Western Scrub-Jay	Fresno	Fresno	93722	9/8/2004	9/27/2004
American Crow	Fresno	Fresno	93706	9/10/2004	9/27/2004
Steller's Jay	Fresno	Fresno	93705	9/10/2004	9/27/2004
Western Scrub-Jay	Fresno	Fresno	93726	9/16/2004	9/27/2004
Western Scrub-Jay	Fresno	Fresno	93727	9/17/2004	9/27/2004
American Crow	Fresno	Parlier	93648	9/7/2004	9/27/2004
Loggerhead Shrike	Fresno	Reedley	93654	9/16/2004	9/27/2004
Western Scrub-Jay	Fresno	Sanger	93657	9/14/2004	9/27/2004
Western Scrub-Jay	Fresno	Sanger	93657	9/14/2004	9/27/2004
American Crow	Glenn	Willows	95988	9/13/2004	***
American Crow	Glenn	Willows	95988	9/14/2004	***
American Crow	Glenn	Willows	95988	9/28/2004	***
American Crow	Humboldt	Ferndale	95536	9/16/2004	9/27/2004
Swainson's Thrush	Humboldt	Hoopa	95546	9/15/2004	9/27/2004
Swainson's Thrush	Humboldt	Weott	95571	9/20/2004	9/27/2004
Swainson's Thrush	Humboldt	Weott	95571	9/20/2004	9/27/2004

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Species	County	City	Zip	Date Collected	Date Tested
American Crow	Inyo	Bishop	93514	9/8/2004	9/27/2004
American Crow	Inyo	Bishop	93514	9/14/2004	9/27/2004
Brewer's Blackbird	Inyo	Bishop	93514	9/21/2004	9/27/2004
Brewer's Blackbird	Kern	Bakersfield	93313	9/8/2004	9/27/2004
American Crow	Kern	Bakersfield	93312	9/7/2004	9/27/2004
American Crow	Kern	Bakersfield	93305	9/14/2004	9/27/2004
American Crow	Kern	Bakersfield	93305	9/16/2004	9/27/2004
Western Scrub-Jay	Kern	Bakersfield	93308	9/17/2004	9/27/2004
American Crow	Kern	Bakersfield	93312	9/17/2004	9/27/2004
American Crow	Kern	Bakersfield	93309	9/17/2004	9/27/2004
Western Scrub-Jay	Kern	Bakersfield	93309	9/21/2004	9/27/2004
American Crow	Kern	Delano	93215	9/7/2004	9/27/2004
Red-tailed Hawk	Kern	Delano	93215	9/7/2004	9/27/2004
Western Scrub-Jay	Kern	Delano	93215	9/15/2004	9/27/2004
Western Scrub-Jay	Kern	McFarland	93250	9/7/2004	9/27/2004
Western Scrub-Jay	Kings	Hanford	93230	9/14/2004	9/27/2004
Western Scrub-Jay	Kings	Hanford	93230	9/14/2004	9/27/2004
Western Scrub-Jay	Lake	Kelseyville	95451	9/8/2004	9/27/2004
Western Scrub-Jay	Lake	Kelseyville	95451	9/20/2004	9/27/2004
California Quail	Lake	Lucerne	95458	9/20/2004	9/27/2004
Western Scrub-Jay	Lake	Upper Lake	95485	9/20/2004	9/27/2004
Western Scrub-Jay	Lake	Upper Lake	95485	9/21/2004	9/27/2004
Western Scrub-Jay	Lassen	Susanville	96130	9/16/2004	9/27/2004
American Crow	Los Angeles	Agora	91301	8/25/2004	***
American Crow	Los Angeles	Beverly Hills	90210	9/21/2004	***
Great Horned Owl	Los Angeles	Canoga Park	91314	9/15/2004	9/27/2004
American Crow	Los Angeles	Carson	90746	8/24/2004	***
American Crow	Los Angeles	Castaic	91384	8/10/2004	***
American Crow	Los Angeles	City of Industry	91745	6/7/2004	***
American Crow	Los Angeles	City of Industry	91745	6/7/2004	***
American Crow	Los Angeles	Compton	90222	8/25/2004	9/27/2004
American Crow	Los Angeles	Downey	90241	6/9/2004	***
American Crow	Los Angeles	Glendale	91204	8/26/2004	***
American Crow	Los Angeles	Hollywood	90068	9/29/2004	***
American Crow	Los Angeles	Lawndale	90260	9/21/2004	***
American Crow	Los Angeles	Lomita	90717	8/23/2004	***
House Sparrow	Los Angeles	Los Angeles	90027	9/12/2004	9/27/2004
California Towhee	Los Angeles	Los Angeles	90027	9/14/2004	9/27/2004
American Crow	Los Angeles	Los Angeles	90066	8/23/2004	***
American Crow	Los Angeles	Los Angeles	90036	8/22/2004	***
American Crow	Los Angeles	Los Angeles	90043	8/23/2004	***
American Crow	Los Angeles	Los Angeles	90034	8/25/2004	***
American Crow	Los Angeles	Los Angeles	90029	8/25/2004	***
American Crow	Los Angeles	Los Angeles	90020	8/25/2004	***
American Crow	Los Angeles	Los Angeles	90004	9/29/2004	***

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Species	County	City	Zip	Date Collected	Date Tested
American Crow	Los Angeles	Los Angeles	90005	9/20/2004	***
American Crow	Los Angeles	Monrovia	91016	5/19/2004	***
American Crow	Los Angeles	San Pedro	90732	9/7/2004	9/27/2004
Western Scrub-Jay	Los Angeles	San Pedro	90732	9/14/2004	9/27/2004
American Crow	Los Angeles	Santa Clarita	91351	7/27/2004	***
American Crow	Los Angeles	Tarzana	91356	7/27/2004	***
American Crow	Los Angeles	Torrance	90505	8/25/2004	***
American Crow	Los Angeles	Whittier	90601	9/13/2004	9/27/2004
Western Scrub-Jay	Los Angeles	Woodland Hills	91367	9/14/2004	9/27/2004
American Crow	Madera	Madera	93638	9/21/2004	9/27/2004
Fox Sparrow	Marin	Bolinas	94924	9/20/2004	9/27/2004
California Towhee	Mariposa	Coulterville	95311	9/8/2004	9/27/2004
Western Scrub-Jay	Mendocino	Ukiah	95482	9/15/2004	9/27/2004
Western Scrub-Jay	Mendocino	Ukiah	95482	9/16/2004	9/27/2004
Western Scrub-Jay	Mendocino	Ukiah	95482	9/21/2004	9/27/2004
Western Scrub-Jay	Merced	Atwater	95340	9/15/2004	9/27/2004
Yellow-billed Magpie	Merced	Delhi	95315	9/3/2004	9/27/2004
Western Scrub-Jay	Merced	Merced	95340	9/15/2004	9/27/2004
Steller's Jay	Mono	Mammoth Lakes	93546	9/7/2004	9/27/2004
Steller's Jay	Mono	Mammoth Lakes	93546	9/16/2004	9/27/2004
Yellow-billed Magpie	Nevada	Grass Valley	95949	9/9/2004	9/27/2004
Western Scrub-Jay	Nevada	Penn Valley	95946	9/15/2004	9/27/2004
American Crow	Nevada	Penn Valley	95946	9/20/2004	9/27/2004
Western Scrub-Jay	Nevada	Rough and Ready	95975	8/8/2004	9/27/2004
Steller's Jay	Nevada	Rough and Ready	95975	9/15/2004	9/27/2004
American Crow	Orange	Anaheim	92806	9/7/2004	***
American Crow	Orange	Costa Mesa	92626	9/7/2004	***
American Crow	Orange	Costa Mesa	92626	9/7/2004	***
American Crow	Orange	Costa Mesa	92926	9/7/2004	***
Western Bluebird	Orange	Fullerton	92833	9/15/2004	9/27/2004
American Crow	Orange	Irvine	92603	9/7/2004	***
Black-headed Grosbeak	Orange	Laguna Beach	92651	9/15/2004	9/27/2004
Pacific-slope Flycatcher	Orange	Laguna Woods	92637	9/15/2004	9/27/2004
American Crow	Orange	Los Alamitos	90720	9/7/2004	***
American Crow	Orange	Tustin	92780	9/7/2004	***
Barn Owl	Orange	Yorba Linda	92886	9/1/2004	9/27/2004
House Finch	Orange	Yorba Linda	92887	9/15/2004	9/27/2004
Western Scrub-Jay	Placer	Auburn	95603	9/20/2004	9/27/2004
Western Scrub-Jay	Placer	Auburn	95603-	9/20/2004	9/27/2004
Yellow-billed Magpie	Placer	Lincoln	95648	9/7/2004	9/27/2004
Western Scrub-Jay	Placer	Lincoln	95648	9/16/2004	9/27/2004
Western Scrub-Jay	Placer	Penryn	95663	9/15/2004	9/27/2004
Western Scrub-Jay	Placer	Roseville	95678	9/3/2004	9/27/2004
American Crow	Riverside	Wildomar	92595	9/9/2004	9/27/2004
Western Scrub-Jay	Sacramento	Citrus Heights	95610	9/8/2004	9/27/2004

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Species	County	City	Zip	Date Collected	Date Tested
Steller's Jay	Sacramento	Citrus Heights	95621	9/21/2004	9/27/2004
Western Scrub-Jay	Sacramento	Elk Grove	95624	9/8/2004	9/27/2004
Western Scrub-Jay	Sacramento	Elk Grove	95624	9/8/2004	9/27/2004
Yellow-billed Magpie	Sacramento	Elk Grove	95624	9/8/2004	9/27/2004
Western Scrub-Jay	Sacramento	Elk Grove	95758	9/9/2004	9/27/2004
Yellow-billed Magpie	Sacramento	Elk Grove	95758	9/21/2004	9/27/2004
Yellow-billed Magpie	Sacramento	Elverta	95626	9/20/2004	9/27/2004
Western Scrub-Jay	Sacramento	Fair Oaks	95628	9/9/2004	9/27/2004
Yellow-billed Magpie	Sacramento	Orangevale	95662	9/21/2004	9/27/2004
Yellow-billed Magpie	Sacramento	Orangevale	95662	9/21/2004	9/27/2004
Yellow-billed Magpie	Sacramento	Rio Linda	95673	9/16/2004	9/27/2004
Common Moorhen	Sacramento	Sacramento	95815	9/8/2004	9/27/2004
Western Scrub-Jay	Sacramento	Sacramento	95842	9/16/2004	9/27/2004
American Crow	Sacramento	Sacramento	95827	9/19/2004	9/27/2004
American Crow	Sacramento	Sacramento	95834	9/20/2004	9/27/2004
European Starling	Sacramento	Sacramento	95820	9/21/2004	9/27/2004
California Quail	San Benito	Aromas	95004	9/16/2004	9/27/2004
Brewer's Blackbird	San Benito	Hollister	95023	9/20/2004	9/27/2004
House Finch	San Benito	San Juan Bautista	95045	9/21/2004	9/27/2004
American Crow	San Bernardino	Chino Hills	91709	9/9/2004	9/27/2004
American Crow	San Bernardino	Ontario	91762	9/9/2004	9/27/2004
American Crow	San Bernardino	Rancho Cucamonga	91701	9/14/2004	9/27/2004
Western Scrub-Jay	San Diego	Dulzura	91917	9/14/2004	9/27/2004
Red-tailed Hawk	San Diego	El Cajon	92021	9/15/2004	9/27/2004
Western Scrub-Jay	San Diego	La Jolla Indian Reservation		9/18/2004	9/27/2004
Cooper's Hawk	San Diego	Ramona	92065	9/18/2004	9/27/2004
Barn Owl	San Diego	Ranchita	92066	9/17/2004	9/27/2004
American Crow	San Diego	Santee	92071	9/15/2004	9/27/2004
Lesser Goldfinch	San Francisco	San Francisco	94131	9/14/2004	9/27/2004
American Crow	San Joaquin	Escalon	95320	9/7/2004	9/27/2004
American Crow	San Joaquin	Escalon	95320	9/9/2004	9/27/2004
Yellow-billed Magpie	San Joaquin	Escalon	95320	9/17/2004	9/27/2004
Yellow-billed Magpie	San Joaquin	Escalon	95320	9/20/2004	9/27/2004
Western Scrub-Jay	San Joaquin	Lodi	95240	9/15/2004	9/27/2004
Western Scrub-Jay	San Joaquin	Manteca	95336	9/8/2004	9/27/2004
Yellow-billed Magpie	San Joaquin	Stockton	95212	9/3/2004	9/27/2004
Western Scrub-Jay	San Joaquin	Stockton	95207	9/10/2004	9/27/2004
Western Scrub-Jay	San Joaquin	Stockton	95210	9/14/2004	9/27/2004
Western Scrub-Jay	San Joaquin	Stockton	95207	9/20/2004	9/27/2004
Western Scrub-Jay	San Joaquin	Thornton	95686	9/15/2004	9/27/2004
Western Scrub-Jay	San Joaquin	Tracy	95376	9/3/2004	9/27/2004
Mourning Dove	San Luis Obispo	Paso Robles	93446	9/8/2004	9/27/2004
Western Scrub-Jay	San Luis Obispo	San Luis Obispo	93401	8/26/2004	9/27/2004
Mourning Dove	San Mateo	South San Francisco	94080	9/14/2004	9/27/2004
American Crow	Santa Clara	Cupertino	95014	5/17/2004	***

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American Crow	Santa Clara	Los Gatos	95032	5/18/2004	***
Western Scrub-Jay	Santa Clara	San Jose	95120	9/8/2004	9/27/2004
Western Scrub-Jay	Santa Clara	San Jose	95118	9/8/2004	9/27/2004
Western Scrub-Jay	Santa Clara	San Jose	95136	9/20/2004	9/27/2004
American Crow	Santa Clara	San Jose	95124	9/20/2004	9/27/2004
American Crow	Santa Clara	San Jose	95148	7/22/2004	***
American Crow	Santa Clara	San Jose	95136	9/20/2004	***
American Crow	Santa Clara	San Jose	95148	9/8/2004	***
American Crow	Santa Clara	San Jose	95148	7/22/2004	***
American Crow	Santa Clara	Santa Clara	95051	9/9/2004	***
Brewer's Blackbird	Santa Cruz	Felton	95018-	9/13/2004	9/27/2004
Pied-billed Grebe	Santa Cruz	Santa Cruz	95062	9/8/2004	9/27/2004
American Crow	Shasta	Redding	96002	8/9/2004	***
Steller's Jay	Shasta	Shasta Lake	96019	9/15/2004	9/27/2004
European Starling	Siskiyou	Dunsmire	96025	9/8/2004	9/27/2004
Spotted Towhee	Siskiyou	Mount Shasta	96067	9/7/2004	9/27/2004
Western Scrub-Jay	Siskiyou	Yreka	96097	9/9/2004	9/27/2004
Yellow-billed Magpie	Siskiyou	Yreka	96097	9/13/2004	9/27/2004
Western Scrub-Jay	Solano	Benicia	94510	9/9/2004	9/27/2004
Western Scrub-Jay	Solano	Dixon	95620	9/9/2004	9/27/2004
Yellow-billed Magpie	Solano	Vacaville	95687	9/7/2004	9/27/2004
Common Yellowthroat	Sonoma	Cotati	94931	9/10/2004	9/27/2004
House Sparrow	Sonoma	Graton	95444	9/20/2004	9/27/2004
Domestic Duck	Sonoma	Healdsburg	95448	9/17/2004	9/27/2004
Domestic Goose	Sonoma	Sebastopol	95472	9/7/2004	9/27/2004
Lesser Goldfinch	Sonoma	Sebastopol	95472	9/15/2004	9/27/2004
Turkey Vulture	Sonoma	Sebastopol	95472	9/15/2004	9/27/2004
Red-tailed Hawk	Sonoma	Sonoma	95476	9/11/2004	9/27/2004
Fox Sparrow	Sonoma	Sonoma	95476	9/16/2004	9/27/2004
Yellow-billed Magpie	Stanislaus	Ceres	95307	9/20/2004	9/27/2004
Western Scrub-Jay	Stanislaus	Empire	95319	9/8/2004	9/27/2004
Western Scrub-Jay	Stanislaus	Modesto	95356	9/7/2004	9/27/2004
Yellow-billed Magpie	Stanislaus	Modesto		9/7/2004	9/27/2004
Yellow-billed Magpie	Stanislaus	Modesto	95358	9/8/2004	9/27/2004
American Crow	Stanislaus	Modesto	95350	9/16/2004	9/27/2004
Western Scrub-Jay	Stanislaus	Modesto	95354	9/20/2004	9/27/2004
American Crow	Stanislaus	Salida	95368	9/15/2004	9/27/2004
American Crow	Sutter	Live Oak	95953	9/10/2004	9/27/2004
Yellow-billed Magpie	Sutter	Nicolaus	95659	9/21/2004	9/27/2004
Yellow-billed Magpie	Sutter	Yuba City	95991	9/9/2004	9/27/2004
American Crow	Tehama	Red Bluff	96080	8/31/2004	***
American Robin	Trinity	Weaverville	96093	9/2/2004	9/27/2004
Sharp-shinned Hawk	Trinity	Weaverville	96093	9/1/2004	9/27/2004
Western Scrub-Jay	Tulare	California Hot Springs	93207	9/15/2004	9/27/2004
Western Scrub-Jay	Tulare	Dinuba	93618	9/16/2004	9/27/2004

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Western Scrub-Jay	Tulare	Dinuba	93618	9/16/2004	9/27/2004
Western Scrub-Jay	Tulare	Visalia	93292	9/8/2004	9/27/2004
American Crow	Tulare	Visalia	93277	9/9/2004	9/27/2004
Western Scrub-Jay	Tulare	Visalia	93277	9/15/2004	9/27/2004
American Crow	Tulare	Visalia	93291	9/21/2004	9/27/2004
Western Scrub-Jay	Ventura	Camarillo	93010	9/17/2004	9/27/2004
Great Horned Owl	Ventura	Newbury Park	91320	9/15/2004	9/27/2004
Barn Owl	Ventura	Thousand Oaks	91360	9/16/2004	9/27/2004
American Crow	Yolo	Davis	95616	9/20/2004	9/27/2004
American Crow	Yolo	Davis	95616	9/21/2004	9/27/2004
Western Scrub-Jay	Yolo	El Macero	95618	9/20/2004	9/27/2004
Red-tailed Hawk	Yolo	Knight's Landing	95645	9/14/2004	9/27/2004
Western Scrub-Jay	Yolo	West Sacramento	95605	9/21/2004	9/27/2004
Yellow-billed Magpie	Yolo	Winters	95694	9/18/2004	9/27/2004
Yellow-billed Magpie	Yolo	Woodland	95695	9/15/2004	9/27/2004
Yellow-billed Magpie	Yuba	Marysville	95901	9/9/2004	9/27/2004

***Indicates Vec-Test

National Comments:

As of October 5, 2004, West Nile Virus (WNV) activity has been detected in 47 states, the District of Columbia, Puerto Rico, and New York City. Over 1800 human WNV cases have been reported in 39 states, DC and New York City. At this time in 2003, 6507 cases had been reported from 42 states, DC, and NYC. Of the 1,833 WNV cases where data is available, the median age is 51 years (range: 1 month – 99 years) and 58% are male. Thirty-six percent of the cases were neuroinvasive, compared with 29% at this time in 2003. There have been 59 WNV-related fatalities nationwide in 2004. The median age of the 58 fatalities where data were available was 75 years (range: 43-95 years).

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

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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].