

California Arbovirus Surveillance Bulletin # 26

Week 41 Monday, October 18, 2004

Weekly Summary

California Weekly Summary Comments:

West Nile virus has been detected in all 58 counties in California.

Humans:

This week, California reported 36 new humans infected with West Nile virus (WNV). As of October 15, 2004, a total of **750** WNV infections have been reported from the following local health jurisdictions: San Bernardino (191), Los Angeles (300), Riverside (102), Orange (58), Kern (50), 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 (3), Santa Clara (1), San Luis Obispo (1), Shasta (3), Tehama (10), Tulare (1) and Yolo (1) counties. Seventy-four of the 749 WNV infections were initially detected in asymptomatic individuals through screening done at blood banks – 11 of these individuals later became symptomatic. Of the 687 WNV cases with symptoms, 254 are classified as West Nile fever cases, 205 are classified as West Nile neuroinvasive disease, and 228 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 = 58.5 years (range: 4-91 years). Sixty-two per cent (423/687) of the cases are male. There have been 20 fatalities to date in California in San Bernardino (5), Los Angeles (9), Riverside (2) Orange (3) 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 25 WNV equine cases from Kern (2), Merced (1), Placer (4), Sacramento (6), San Bernardino (1), San Joaquin (2), Shasta (1), Stanislaus (2), Sutter (2), Tehama (1), and Tulare (1), Ventura (1), and Yuba (1) counties. This was the first WNV positive horse reporting for Merced County. Currently, the YTD total stands at 496 positive cases. A total of 210 horses have died or euthanized from the WNV infections.

Dead Birds:

The hotline received 1,499 reported dead birds last week (YTD = 89,375). The UC Davis Center for Vectorborne Diseases (CVEC) reported 132 out of 202 dead birds submitted last week have tested positive for WNV by RT-PCR: an acorn woodpecker (1), American crows (33), an American goldfinch (1), an American robin (1), an Anna's hummingbird (1), barn owls (2), a Brewer's blackbird (1), a California quail (1), a common raven (1), Cooper's hawks (3), fox sparrows (2), golden-crowned sparrows (3), a great horned owl (1), a hermit thrush (1), house finches (2), house sparrows (3), a northern mockingbird (1), a red-shouldered hawk (1), red-tailed hawks (3), a rock dove (1), sharp-shinned hawks (4), a snowy egret (1), Steller's jays (4), a Swainson's thrush (1), a Virginia rail (1), western screech-owls (2), western scrub-jays (36), white-crowned sparrows (2), and yellow-billed magpies (18). The golden-crowned sparrows, snowy egret, and the Virginia rail were the first of their species to test positive for WNV this year.

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 (14), 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.**

A cumulative total of 202 dead birds were tested, thus 65.3% (132/202) of the birds tested from these counties were WNV positive.

Local agencies tested an additional 3 American crows via Vec-Test yet none were positive. The YTD total stands at 2,921 positive bird carcasses.

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News Flash:

CVEC reported last Wednesday that 119 of 170 dead birds have tested positive for WNV. The positive birds were collected within the 37 counties of Amador (2), Calaveras (1), Contra Costa (1), El Dorado (3), Fresno (8), Humboldt (1), Inyo (3), Kern (4), Kings (1), Los Angeles (5), Madera (1), Marin (2), Mendocino (1), Merced (8), Monterey (1), Nevada (3), Orange (6), Placer (4), Plumas (1), Sacramento (15), San Bernardino (1), San Diego (2), San Francisco (1), San Joaquin (7), San Luis Obispo (2), San Mateo (1), Santa Clara (1), Santa Cruz (4), Siskiyou (2), Solano (1), Sonoma (2), Stanislaus (8), Sutter (1), Trinity (2), Tulare (11), Ventura (1), and Yuba (1).

Mosquito Pools:

CVEC reported 25 positive pools from Fresno (1), Kern (5), Los Angeles (12), Orange (5), Stanislaus (1), and Yuba (1) counties. This is the first detection of positive mosquito activity in Yuba County. To date, 20 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 1095 positive pools.

Chickens:

Fifty WNV chicken seroconversions were detected in 17 flocks from Fresno (4), Kern (22), Los Angeles (5), Placer (1), Riverside (3), Sacramento (3), San Bernardino (2), Stanislaus (7) and Sutter (3) counties. This was the first report of seroconversion from Stanislaus County. Of the 50 seroconversions, 27 came from 11 new flocks in Fresno (3), Kern (6), Placer (1), Riverside (2), Sacramento (3), San Bernardino (2), Stanislaus (7) and Sutter (3) counties. Currently, 20 counties: Butte, Fresno, Glenn, Imperial, Kern, Los Angeles, Orange, Placer, Riverside, Sacramento, San Bernardino, San Joaquin, Santa Clara, Shasta, Stanislaus, Sutter, Tehama, Tulare, Ventura, and Yolo have positive WNV seroconversions. The current YTD total stands at 668 WNV seroconversions.

****Note: Bulletins 28 will go out on Monday, November 1 instead of Friday, October 29.**

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	65	0	36	0	0	0	0	0	0
	YTD	1544	0	750	0	0	0	0	0	0
Suspect Equine Cases	Week	n/a	0	25	0	0	0	0	0	0
	YTD	1084	0	496	0	0	0	0	0	0

Dead Birds

	Number Tested	WNV Positive
Week	202	132
YTD	4,676	2,921

Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Other Positive
Chicken sera	Week	809*	50	0	0	0
	YTD	27,305	668	0	0	0
Mosquito pools	Week	426	25	0	0	0
	YTD	13,688	1095	0	0	0

*This total has been adjusted to include local agency submission

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POSITIVES

Human Positives Reported:

Virus	Date of Onset	Status	Diagnosis	County	Imported/Local	From
WNV	9/22/04	Probable	West Nile Fever	Los Angeles	Local	
WNV	9/28/04	Probable	West Nile Fever	Orange	Local	
WNV	9/22/04	Probable	Unknown	Orange	Local	
WNV	Unknown	Probable	West Nile Neuroinvasive Disease	Orange	Local	
WNV	Unknown	Probable	Unknown	Orange	Local	
WNV	8/28/04	Probable	West Nile Neuroinvasive Disease	Orange	Local	
WNV	Unknown	Probable	West Nile Fever	Orange	Local	
WNV	9/16/04	Probable	West Nile Fever	Kern	Local	
WNV	Unknown	Probable	Unknown	Kern	Local	
WNV	Unknown	Probable	Unknown	Kern	Local	
WNV	Unknown	Probable	Unknown	Riverside	Local	
WNV	Unknown	Probable	Unknown	Tehama	Local	
WNV	Unknown	Probable	West Nile Fever	Kern	Local	
WNV	9/16/04	Probable	Unknown	Los Angeles	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	9/19/04	Probable	West Nile Neuroinvasive Disease	Kern	Local	
WNV	10/01/04	Probable	West Nile Fever	Kern	Local	
WNV	9/22/04	Probable	West Nile Neuroinvasive Disease	Kern	Local	
WNV	9/27/04	Probable	West Nile Fever	San Joaquin	Local	
WNV	9/27/04	Probable	West Nile Fever	San Joaquin	Local	
WNV	Week 36	Probable	Unknown	Tehama	Local	
WNV	Unknown	Probable	Unknown	Kern	Local	
WNV	Unknown	Probable	Unknown	Kern	Local	
WNV	Unknown	Probable	Unknown	Orange	Local	
WNV	9/23/04	Probable	West Nile Neuroinvasive Disease	Orange	Local	
WNV	Unknown	Probable	Unknown	Riverside	Local	
WNV	9/26/04	Probable	Unknown	San Bernardino	Local	
WNV	Unknown	Probable	Unknown	San Bernardino	Local	
WNV	Unknown	Probable	West Nile Fever*	San Bernardino	Local	
WNV	9/26/04	Probable	West Nile Neuroinvasive Disease	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	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	

*Indicates fatality

Chicken Seroconversions Reported by DHS:

Virus	County	State	Acode	City	Location
WNV	Fresno	CA	CNSL5006	Sanger	R. Vargas
Bands: 1508					Probable Seroconversion Date: 13-September-04
****	WNV	Fresno	CA	CNSL5008	Orange Cove
Bands: 1568, 1569					Probable Seroconversion Date: 14-September-04
****	WNV	Fresno	CA	FRNO0012	Fresno
Bands: 1756					Probable Seroconversion Date: 13-September-04
****	WNV	Kern	CA	KERN0101	Lost Hills
Bands: 1955, 1960					Probable Seroconversion Date: 13-September-04
****	WNV	Kern	CA	KERN0101	Lost Hills
Bands: 1953, 1957, 1958 1959, 2042					Probable Seroconversion Date: 27-September-04

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****	WNV	Kern	CA	KERN0102	Buttonwillow	Tracy RNCH	
	Bands: 1961, 1965, 1968, 1969					Probable Seroconversion Date: 13-September-04	
	Virus	County	State	Acode	City	Location	
	WNV	Kern	CA	KERN0102	Buttonwillow	Tracy RNCH	
	Band: 1963, 1964, 1970					Probable Seroconversion Date: 27-September-04	
	WNV	Kern	CA	KERN0111	Arvin	Blackburn residence	
	Band: 2050, 2052, 2053, 2054, 2055, 2056, 2057					Probable Seroconversion Date: 13-September-04	
	WNV	Kern	CA	KERN0111	Arvin	Blackburn residence	
	Band: 2058					Probable Seroconversion Date: 28-September-04	
	WNV	Los Angeles	CA	GRLA4012	Rowland Heights	Rowland Heights	
	Band: 3907, 3910					Probable Seroconversion Date: 4-October-04	
	WNV	Los Angeles	CA	LACW1009	Los Angeles	Rosedale Cemetery	
	Band: 2176					Probable Seroconversion Date: 27-September-04	
	WNV	Los Angeles	CA	LONG0004	Long Beach	Long Beach Marina Oil	
	Band: 1204, 1210					Probable Seroconversion Date: 4-October-04	
****	WNV	Placer	CA	PLCR0025	Lincoln	Wise Road	
	Band: 2729					Probable Seroconversion Date: 13-September-04	
	WNV	Riverside	CA	NWST6666	Lake Elsinore	Lake Elsinore	
	Band: 2621					Probable Seroconversion Date: 6-October-04	
****	WNV	Riverside	CA	RIVR0001	San Jacinto River	Country Lakes MHP	
	Band: 2780, 2781					Probable Seroconversion Date: 25-August-04	
****	WNV	Sacramento	CA	SAYO07000	Elk Grove	Elk Grove	
	Band: 2871, 2877, 2880					Probable Seroconversion Date: 30-September-04	
****	WNV	San Bernardino	CA	SANB0006	Yucaipa	Yucaipa	
	Band: 2993, 3000					Probable Seroconversion Date: 8-September-04	
****	WNV	Stanislaus	CA	TRLK9701	Grayson	Dykzeul Dairy	
	Band: 3663, 3665, 3667, 3669, 3671, 3672, 3673					Probable Seroconversion Date: 13-September-04	
****	WNV	Sutter	CA	SUYA0015	Robbins	Robbins	
	Band: 3558, 3563					Probable Seroconversion Date: 16-September-04	
****	WNV	Sutter	CA	SUYA0020	Meridian	Meridian	
	Band: 3543					Probable Seroconversion Date: 16-September-04	

****Indicates a new flock

Virus Isolations From Mosquito Pools:

Virus	Mosquito species	Date Collected	ACODE	Pool #	City	County	Date Received
WNV	Culex quinquefasciatus	6-Oct	CNSL	119	Fresno	Fresno	7-Oct
WNV	Culex quinquefasciatus	29-Sept	GRLA	1899	Encino	Los Angeles	7-Oct
WNV	Culex quinquefasciatus	29-Sept	GRLA	1900	Encino	Los Angeles	7-Oct
WNV	Culex quinquefasciatus	29-Sept	GRLA	1903	Encino	Los Angeles	7-Oct
WNV	Culex quinquefasciatus	29-Sept	GRLA	1907	Encino	Los Angeles	7-Oct
WNV	Culex quinquefasciatus	29-Sept	GRLA	1911	Encino	Los Angeles	7-Oct
WNV	Culex quinquefasciatus	29-Sept	GRLA	1912	Encino	Los Angeles	7-Oct
WNV	Culex quinquefasciatus	4-Oct	GRLA	1927	Canoga Park	Los Angeles	7-Oct
WNV	Culex quinquefasciatus	29-Sept	GRLA	3298	Long Beach	Los Angeles	7-Oct
WNV	Culex quinquefasciatus	30-Sept	GRLA	3301	Pico Rivera	Los Angeles	7-Oct

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WNV	Culex quinquefasciatus	30-Sept	GRLA	3305	Pico Rivera	Los Angeles	7-Oct
WNV	Culex quinquefasciatus	30-Sept	KERN	445	Bakersfield	Kern	6-Oct
Virus	Mosquito species	Date Collected	ACODE	Pool #	City	County	Date Received
WNV	Culex quinquefasciatus	30-Sept	KERN	446	Bakersfield	Kern	6-Oct
WNV	Culex quinquefasciatus	30-Sept	KERN	447	Shafter	Kern	6-Oct
WNV	Culex quinquefasciatus	30-Sept	KERN	451	Bakersfield	Kern	6-Oct
WNV	Culex quinquefasciatus	30-Sept	KERN	452	Bakersfield	Kern	6-Oct
WNV	Culex quinquefasciatus	27-Sept	LACW	192	n/a	Los Angeles	5-Oct
WNV	Culex quinquefasciatus	27-Sept	LACW	196	Inglewood	Los Angeles	5-Oct
WNV	Culex quinquefasciatus	28-Sept	ORCO	1614	Anaheim	Orange	6-Oct
WNV	Culex quinquefasciatus	829Sept	ORCO	1618	Anaheim	Orange	6-Oct
WNV	Culex quinquefasciatus	29-Sept	ORCO	1619	Orange	Orange	6-Oct
WNV	Culex quinquefasciatus	29-Sept	ORCO	1621	Cypress	Orange	6-Oct
WNV	Culex quinquefasciatus	29-Sept	ORCO	1627	Orange	Anaheim	6-Oct
WNV	Ochlerotatus melanimon	4-Oct	SUYA	271	Loma Rica	Yuba	5-Oct
WNV	Culex pipiens	4-Oct	TRLK	435	Ceres	Stanislaus	7-Oct

Dead Birds Tested Positive for WNV last week

Species	County	City	Zip	Date Collected	Date Tested
Barn Owl	Alameda	Hayward	94545	9/22/2004	10/4/2004
Western Scrub-Jay	Butte	Chico	95926	8/2/2004	10/4/2004
Western Scrub-Jay	Butte	Chico	95973	8/4/2004	10/4/2004
Yellow-billed Magpie	Butte	Chico	95926	7/30/2004	10/4/2004
Western Scrub-Jay	Butte	Palermo	96968	8/6/2004	10/4/2004
Fox Sparrow	Calaveras	Hathaway Pines	95233	9/23/2004	10/4/2004
Acorn Woodpecker	Calaveras	Valley Springs	95252	9/26/2004	10/4/2004
Steller's Jay	Calaveras	West Point	95255	9/23/2004	10/4/2004
Golden-crowned Sparrow	Del Norte	Crescent City	95531	9/23/2004	10/4/2004
Steller's Jay	El Dorado	Camino	95709	9/21/2004	10/4/2004
Steller's Jay	El Dorado	South Lake Tahoe	96150	7/28/2004	10/4/2004
American Crow	Fresno	Clovis	93611	7/1/2004	10/4/2004
American Crow	Fresno	Clovis	93611	7/23/2004	10/4/2004
Western Scrub-Jay	Fresno	Fresno	93728	9/21/2004	10/4/2004
White-crowned Sparrow	Fresno	Fresno	93722	9/22/2004	10/4/2004
Western Screech-Owl	Fresno	Tollhouse	93667	9/21/2004	10/4/2004
Western Scrub-Jay	Glenn	Orland	95963	8/2/2004	10/4/2004
Yellow-billed Magpie	Glenn	Orland	95963	8/4/2004	10/4/2004
Swainson's Thrush	Humboldt	Arcata	95521	9/22/2004	10/4/2004
Virginia Rail	Humboldt	Eureka	95501	9/23/2004	10/4/2004
California Quail	Humboldt	Miranda	95553	9/21/2004	10/4/2004
American Crow	Kern	Bakersfield	93312	9/22/2004	10/4/2004
American Crow	Kern	Bakersfield	93309	9/22/2004	10/4/2004
American Crow	Kern	Bakersfield	93305	9/23/2004	10/4/2004

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American Robin	Kern	Bakersfield	93314	7/27/2004	10/4/2004
House Sparrow	Kern	Bakersfield	93308	9/23/2004	10/4/2004
Species	County	City	Zip	Date Collected	Date Tested
Western Scrub-Jay	Kern	Bakersfield	93301	8/4/2004	10/4/2004
American Crow	Kern	Delano	93215	9/22/2004	10/4/2004
Cooper's Hawk	Kern	Kernville	93238	9/22/2004	10/4/2004
Cooper's Hawk	Kern	Kernville	93238	9/22/2004	10/4/2004
Red-Shouldered Hawk	Kings	Lemoore	93245	9/22/2004	10/4/2004
Western Scrub-Jay	Kings	Lemoore	93245	9/27/2004	10/4/2004
American Crow	Lake	Glenhaven	95443	9/22/2004	10/4/2004
Western Scrub-Jay	Lake	Kelseyville	95451	9/22/2004	10/4/2004
Western Scrub-Jay	Lake	Kelseyville	95451	9/23/2004	10/4/2004
American Crow	Lake	Lucerne	95458	9/23/2004	10/4/2004
Western Scrub-Jay	Los Angeles	Burbank	91501	9/17/2004	10/4/2004
House Sparrow	Los Angeles	Encino	91436	9/22/2004	10/4/2004
House Finch	Los Angeles	Los Angeles	90027	9/27/2004	10/4/2004
American Crow	Los Angeles	Montebello	90640	9/23/2004	10/4/2004
American Crow	Los Angeles	Santa Fe Springs	90670	5/25/2004	10/4/2004
American Crow	Los Angeles	Torrance	90505	9/23/2004	10/4/2004
American Crow	Los Angeles	Van Nuys	91406	7/28/2004	10/4/2004
American Crow	Los Angeles	Van Nuys	91406	8/1/2004	10/4/2004
Common Raven	Marin	San Rafael	94901	6/15/2004	10/4/2004
American Crow	Mariposa	Mariposa	95338	8/10/2004	10/4/2004
American Crow	Nevada	Grass Valley	95949	9/22/2004	10/4/2004
Sharp-shinned Hawk	Nevada	Grass Valley	95945	9/22/2004	10/4/2004
Yellow-billed Magpie	Nevada	Grass Valley	95949	9/27/2004	10/4/2004
Western Scrub-Jay	Nevada	Penn Valley	95946	9/22/2004	10/4/2004
Western Scrub-Jay	Nevada	Rough And Ready	95975	9/27/2004	10/4/2004
House Sparrow	Orange	Huntington Beach	92646	9/24/2004	10/4/2004
Anna's Hummingbird	Orange	Laguna Woods	92653	9/24/2004	10/4/2004
Sharp-shinned Hawk	Orange	Lake Forest	92630	9/24/2004	10/4/2004
Snowy Egret	Orange	Orangevale	92865	9/24/2004	10/4/2004
Rock Dove	Orange	Trabuco Canyon	92679	9/24/2004	10/4/2004
Western Screech-Owl	Placer	Auburn	95603	9/22/2004	10/4/2004
Western Scrub-Jay	Placer	Auburn	95602	9/22/2004	10/4/2004
Western Scrub-Jay	Placer	Auburn	95603	9/23/2004	10/4/2004
Yellow-billed Magpie	Placer	Auburn	95603	9/22/2004	10/4/2004
Yellow-billed Magpie	Placer	Auburn	95603	9/24/2004	10/4/2004
Steller's Jay	Placer	Loomis	95650	9/21/2004	10/4/2004
Western Scrub-Jay	Placer	Loomis	95650	9/21/2004	10/4/2004
Western Scrub-Jay	Placer	Loomis	95650	9/21/2004	10/4/2004
Western Scrub-Jay	Placer	Loomis	95650	9/21/2004	10/4/2004
Yellow-billed Magpie	Placer	Newcastle	95658	9/20/2004	10/4/2004
Western Scrub-Jay	Placer	Rocklin	95677	9/21/2004	10/4/2004

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American Crow	Placer	Roseville	95661	9/20/2004	10/4/2004
House Finch	Plumas	Chester	96020	8/12/2004	10/4/2004
Species	County	City	Zip	Date Collected	Date Tested
Fox Sparrow	Plumas	Clio	96106	9/22/2004	10/4/2004
Golden-crowned Sparrow	Plumas	Clio	96106	9/22/2004	10/4/2004
American Crow	Riverside	Riverside	92506	5/24/2004	10/4/2004
Western Scrub-Jay	Sacramento	Citrus Heights	95621	9/22/2004	10/4/2004
Western Scrub-Jay	Sacramento	Citrus Heights	95621	9/23/2004	10/4/2004
Yellow-billed Magpie	Sacramento	Citrus Heights	95621	9/24/2004	10/4/2004
Western Scrub-Jay	Sacramento	Elk Grove	95624	9/23/2004	10/4/2004
Western Scrub-Jay	Sacramento	Elk Grove	95624	9/24/2004	10/4/2004
Yellow-billed Magpie	Sacramento	North Highlands	95660	9/22/2004	10/4/2004
Yellow-billed Magpie	Sacramento	Orangevale	95662	9/26/2004	10/4/2004
Western Scrub-Jay	Sacramento	Sacramento	95827	9/22/2004	10/4/2004
Western Scrub-Jay	Sacramento	Sacramento	95828	9/24/2004	10/4/2004
Western Scrub-Jay	Sacramento	Sacramento	95827	9/22/2004	10/4/2004
Western Scrub-Jay	Sacramento	Sacramento	95827	9/23/2004	10/4/2004
Western Scrub-Jay	Sacramento	Sacramento	95828	9/25/2004	10/4/2004
Yellow-billed Magpie	Sacramento	Sacramento	95821	9/24/2004	10/4/2004
Yellow-billed Magpie	Sacramento	Sacramento	95821	9/23/2004	10/4/2004
Brewer's Blackbird	San Benito	Hollister	95023	9/24/2004	10/4/2004
American Crow	San Bernardino	Upland	91786	6/28/2004	10/4/2004
American Crow	San Diego	Alpine	91901	9/22/2004	10/4/2004
Western Scrub-Jay	San Diego	Alpine	91901	9/22/2004	10/4/2004
American Crow	San Diego	Ramona	92065	9/27/2004	10/4/2004
Red-Tailed Hawk	San Francisco	San Francisco	94105	7/27/2004	10/4/2004
Northern Mockingbird	San Joaquin	Acampo	95220	9/23/2004	10/4/2004
Western Scrub-Jay	San Joaquin	Woodbridge	95258	9/26/2004	10/4/2004
American Crow	San Mateo	Foster City	94404	9/22/2004	10/4/2004
American Crow	Santa Barbara	Carpinteria	93013	9/28/2004	10/4/2004
Cooper's Hawk	Santa Barbara	Goleta	93117	9/24/2004	10/4/2004
American Crow	Santa Barbara	Montecito	93108	9/27/2004	10/4/2004
Great Horned Owl	Santa Clara	San Jose	95141	9/24/2004	10/4/2004
American Crow	Santa Clara	Santa Clara	95050	9/22/2004	10/4/2004
Golden-crowned Sparrow	Santa Cruz	Santa Cruz	95062	9/22/2004	10/4/2004
Hermit Thrush	Santa Cruz	Santa Cruz	95060	9/24/2004	10/4/2004
White-crowned Sparrow	Santa Cruz	Santa Cruz	95062	9/22/2004	10/4/2004
American Crow	Shasta	Redding	96002	8/18/2004	10/4/2004
Western Scrub-Jay	Shasta	Shingletown	96088	9/21/2004	10/4/2004
Red-tailed Hawk	Siskiyou	Yreka	96097	9/23/2004	10/4/2004
American Crow	Sonoma	Glen Ellen	95442	9/22/2004	10/4/2004
Sharp-shinned Hawk	Sonoma	Santa Rosa	95404	9/23/2004	10/4/2004
Western Scrub-Jay	Sonoma	Santa Rosa	95401	9/22/2004	10/4/2004
American Goldfinch	Sonoma	Sebastopol	95472	9/23/2004	10/4/2004

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Yellow-billed Magpie	Stanislaus	Crows Landing	95313	9/21/2004	10/4/2004
Sharp-shinned Hawk	Stanislaus	La Grange	95329	9/22/2004	10/4/2004
Species	County	City	Zip	Date Collected	Date Tested
American Crow	Stanislaus	Modesto	95358	9/23/2004	10/4/2004
Western Scrub-Jay	Stanislaus	Modesto	95357	9/23/2004	10/4/2004
Western Scrub-Jay	Stanislaus	Modesto	95357	9/24/2004	10/4/2004
Yellow-billed Magpie	Stanislaus	Modesto	95354	9/22/2004	10/4/2004
Yellow-billed Magpie	Stanislaus	Salida	95368	9/22/2004	10/4/2004
Yellow-billed Magpie	Stanislaus	Salida	95368	9/23/2004	10/4/2004
Yellow-billed Magpie	Sutter	Meridian	95957	9/23/2004	10/4/2004
Barn Owl	Sutter	Sutter	95982	9/24/2004	10/4/2004
American Crow	Sutter	Trowbridge	95659	9/24/2004	10/4/2004
Western Scrub-Jay	Tehama	Bowman	96022	7/27/2004	10/4/2004
Yellow-billed Magpie	Tehama	Coming	96021	7/30/2004	10/4/2004
American Crow	Tehama	Red Bluff	96080	8/3/2004	10/4/2004
Yellow-billed Magpie	Tehama	Red Bluff	96080	7/23/2004	10/4/2004
American Crow	Tulare	Porterville	93257	9/22/2004	10/4/2004
Western Scrub-Jay	Tulare	Visalia	93292	9/22/2004	10/4/2004
Western Scrub-Jay	Tulare	Visalia	93291	9/22/2004	10/4/2004
Red-Tailed Hawk	Ventura	Moorpark	93021	7/22/2004	10/4/2004
American Crow	Ventura	Port Hueneme	93043	9/27/2004	10/4/2004
American Crow	Ventura	Simi Valley	93063	9/26/2004	10/4/2004
American Crow	Ventura	Ventura	93004	9/23/2004	10/4/2004

***Indicates Vec-Test

National Comments:

As of October 12, 2004, West Nile Virus (WNV) activity has been detected in 47 states, the District of Columbia, Puerto Rico, and New York City. Over 1900 human WNV cases have been reported in 40 states, DC and New York City. New Jersey reported its first human WNV case in 2004 this week. At this time in 2003, 6957 cases had been reported from 44 states, DC, and NYC. Of the 1919 WNV cases where data is available, the median age is 51 years (range: 1 month – 99 years) and 58% are male. Thirty-seven percent of the cases were neuroinvasive, compared with 29% at this time in 2003. There have been 62 WNV-related fatalities nationwide in 2004. The median age of the 61 fatalities where data were available was 75 years (range: 43-95 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].