

California Arbovirus Surveillance Bulletin # 27

Week 42 Friday, October 22, 2004

Weekly Summary

California Weekly Summary Comments:

This week, California reported 23 new humans infected with West Nile virus (WNV). As of October 22, 2004, a total of 773 WNV infections have been reported from the following local health jurisdictions: San Bernardino (191), Los Angeles (309), Riverside (102), Orange (65), Kern (51), Fresno (14), Imperial (1), Lake (1), Glenn (2), Ventura (2), Butte (7), Lassen (1), Merced (1), Placer (1), Sacramento (1), San Diego (1), San Joaquin (3), Santa Clara (1), San Luis Obispo (1), Shasta (6), Tehama (10), Tulare (1) and Yolo (1) counties. Seventy-four of the 773 WNV infections were initially detected in asymptomatic individuals through screening done at blood banks – 11 of these individuals later became symptomatic. Of the 710 WNV cases with symptoms, 260 are classified as West Nile fever cases, 206 are classified as West Nile neuroinvasive disease, and 244 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 (438/710) of the cases are male. There have been 22 fatalities to date in California in San Bernardino (5), Los Angeles (10), Riverside (2) Orange (3), Kern (1) and Tehama (1) counties. The median age of the 22 fatalities is 75.5 years (range: 57-91 years).

Equine:

The California Department of Food & Agriculture confirmed 27 WNV equine cases from Fresno (1), Kern (1), Kings (1), Lassen (1), Merced (2), Placer (7), Riverside (2), Sacramento (3), San Joaquin (4), Shasta (2), Tulare (2), and Yuba (1) counties. This was the first WNV positive horse reporting for Kings County. Currently, the YTD total stands at 521 positive cases. A total of 220 horses have died or euthanized from the WNV infections.

Dead Birds:

The hotline received 1,391 reported dead birds last week (YTD = 89,569). The UC Davis Center for Vectorborne Diseases (CVEC) reported 119 out of 202 dead birds submitted last week have tested positive for WNV by RT-PCR: an acorn woodpecker (1), American crows (20), an American robin (1), barn owls (2), a Brewer's blackbird (1), a California quail (1), California towhees (2), a California waxwing (1), chickens (2), a common raven (1), a dark-eyed junco (1), fox sparrows (2), golden-crowned sparrows (2), great horned owls (2), hermit thrushes (2), house finches (5), house sparrows (3), a mallard duck (1), northern flickers (2), a northern mockingbird (1), an orange-crowned warbler (1), red-tailed hawks (3), a ring-billed gull (1), a ruffed grouse (1), Steller's jays (2), a Swainson's thrush (1), a western screech-owl (1), western scrub-jays (43), a white-crowned sparrow (1), a yellow warbler (1), and yellow-billed magpies (11). The chickens, ring-billed gull, and ruffed grouse were the first of their species to test positive for WNV this year.

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).

A cumulative total of 170 dead birds were tested, thus 70.0% (119/170) of the birds tested from these counties were WNV positive.

Local agencies tested an additional 54 American crows via Vec-Test yet and 40 (74.1%) were positive. The YTD total stands at 3,079 positive bird carcasses.

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News Flash:

CVEC reported last Wednesday that 27 of 75 dead birds have tested positive for WNV. The positive birds were collected within the 17 counties of Alameda (1), Butte (1), Inyo (1), Kern (1), Kings (1), Lake (2), Marin (1), Merced (2), Nevada (1), Placer (2), Sacramento (4), San Joaquin (1), Shasta (1), Sonoma (2), Stanislaus (4), Yolo (1), and Yuba (1).

Mosquito Pools:

CVEC reported 24 positive pools from Imperial (1), Kern (6), Los Angeles (10), Orange (6), and Sacramento (1) counties. 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 1119 positive pools.

Chickens:

Twenty WNV chicken seroconversions were detected in 14 flocks from Kern (4), Kings (2), Lake (1), Los Angeles (4), Placer (1), San Bernardino (2), Santa Clara (2), Sutter (1) and Tulare (3) counties. These were the first report of seroconversions from Kings and Lake counties. Of the 20 seroconversions, 9 came from 7 new flocks in Kings (1), Lake (1), Los Angeles (3), San Bernardino (1), and Tulare (3) counties. Currently, 22 counties: Butte, Fresno, Glenn, Imperial, Kern, Kings, Lake, 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 688 WNV seroconversions.

Although the 2004 Surveillance calendar listed chicken bleeding to the end of December due to the anticipated WNV activity, many districts have opted to terminate the program at the end of October. Please respond back to a memo sent earlier this month requesting a decision on your winter testing options.

****Note: Bulletins 28 and 29 will go out on Monday, November 1 and 8, respectively.**

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	79	0	23	0	0	0	0	0	0
	YTD	1623	0	773	0	0	0	0	0	0
Suspect Equine Cases	Week	n/a	0	27	0	0	0	0	0	0
	YTD	1084	0	521	0	0	0	0	0	0

Dead Birds

	Number Tested	WNV Positive
Week	256	159
YTD	4,932	3,079

Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Other Positive
	YTD	28,306	688	0	0	0
Mosquito pools	Week	449	24	0	0	0
	YTD	14,137	1119	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	Unknown	Probable	Unknown	Orange	Local	
WNV	Unknown	Probable	Unknown	Orange	Local	
WNV	Unknown	Probable	Unknown	Orange	Local	
WNV	Unknown	Probable	Unknown	Orange	Local	
WNV	Unknown	Probable	Unknown	Butte	Local	
WNV	n/a	Probable	n/a	Glenn	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	9/30/04	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	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	9/14/04	Probable	West Nile Fever	Kern	Local	
WNV	Week 37	Probable	Unknown	Shasta	Local	
WNV	Week 38	Probable	Unknown	Shasta	Local	
WNV	Week 36	Probable	Unknown	Shasta	Local	
WNV	Week 35	Probable	West Nile Fever	Lake	Local	
WNV	Unknown	Probable	Unknown	Orange	Local	
WNV	Unknown	Probable	Unknown	Orange	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	Unknown	Probable	Unknown	Los Angeles	Local	
WNV	Unknown	Probable	Unknown	Fresno	Local	

*Indicates fatality

Chicken Seroconversions Reported by DHS:

Virus	County	State	Acode	City	Location
WNV	Kern	CA	KERN0101	Lost Hills	Kern NWR
Bands: 1951, 1952, 1956					Probable Seroconversion Date: 11-October-04
WNV	Kern	CA	KERN0111	Arvin	Blackburn residence
Bands: 2049					Probable Seroconversion Date: 11-October-04
**** WNV	Kings	CA	KNGS2001	Hanford	KMAD facility
Bands: 2093					Probable Seroconversion Date: 29-September-04
WNV	Kings	CA	KNGS2001	Hanford	KMAD facility
Bands: 2092					Probable Seroconversion Date: 13-October-04
**** WNV	Lake	CA	LAKE1000	Upper Lake	MAD fish ponds
Bands: 2284					Probable Seroconversion Date: 29-September-04
**** WNV	Los Angeles	CA	LACW1001	Rolling Hills Estates	Botanical Gardens
Bands: 2131					Probable Seroconversion Date: 7-October-04
**** WNV	Los Angeles	CA	LACW1006	Playa Del Rey	Playa Del Rey
Band: 2158, 2159					Probable Seroconversion Date: 7-October-04
WNV	Los Angeles	CA	LACW1008	Inglewood	Hollywood Park
Band: 2169					Probable Seroconversion Date: 7-October-04
WNV	Placer	CA	PLCR0025	Lincoln	Wise Road
Band: 2726					Probable Seroconversion Date: 12-October-04
WNV	San Bernardino	CA	WVAL0007	Montclair	Water District
Band: 3844					Probable Seroconversion Date: 13-October-04

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Virus	County	State	Acode	City	Location
**** WNV	San Bernardino	CA	WVAL0008	Chino	West Valley MAD Probable Seroconversion Date: 15-September-04
Band: 6466					
WNV	Santa Clara	CA	STCL0006	San Jose	Kelly Park Probable Seroconversion Date: 12-October-04
Band: 3342, 3345					
WNV	Sutter	CA	SUYA0014	Sutter	Dean Probable Seroconversion Date: 14-October-04
Band: 3550					
**** WNV	Tulare	CA	DLTA1001	Kingsburg	Johnson, M&G Probable Seroconversion Date: 20-September-04
Band: 1674					
**** WNV	Tulare	CA	DLTA6007	Goshen	B. Gonzales Probable Seroconversion Date: 21-September-04
Band: 1657, 1659					

****Indicates a new flock

Virus Isolations From Mosquito Pools:

Virus	Mosquito species	Date Collected	ACODE	Pool #	City	County	Date Received
WNV	Culex quinquefasciatus	4-Oct	GRLA	1928	Encino	Los Angeles	7-Oct
WNV	Culex quinquefasciatus	4-Oct	GRLA	1930	Encino	Los Angeles	7-Oct
WNV	Culex quinquefasciatus	4-Oct	GRLA	1931	Encino	Los Angeles	7-Oct
WNV	Culex quinquefasciatus	4-Oct	GRLA	1932	Encino	Los Angeles	7-Oct
WNV	Culex erythrothorax	4-Oct	GRLA	1941	Mission Hills	Los Angeles	7-Oct
WNV	Culex quinquefasciatus	4-Oct	GRLA	1956	Mission Hills	Los Angeles	7-Oct
WNV	Culex quinquefasciatus	7-Oct	GRLA	1959	Santa Clarita	Los Angeles	14-Oct
WNV	Culex quinquefasciatus	7-Oct	GRLA	1961	Santa Clarita	Los Angeles	14-Oct
WNV	Culex quinquefasciatus	5-Oct	GRLA	3311	Lakewood	Los Angeles	14-Oct
WNV	Culex quinquefasciatus	7-Oct	GRLA	3330	Long Beach	Los Angeles	14-Oct
WNV	Culex tarsalis	4-Oct	IMPR	276	Seeley	Imperial	14-Oct
WNV	Culex quinquefasciatus	5-Oct	KERN	453	Bakersfield	Kern	13-Oct
WNV	Culex quinquefasciatus	8-Oct	KERN	474	Bakersfield	Kern	13-Oct
WNV	Culex tarsalis	7-Oct	KERN	5819	Lost Hills	Kern	13-Oct
WNV	Culex tarsalis	7-Oct	KERN	5830	Shafter	Kern	13-Oct
WNV	Culex quinquefasciatus	7-Oct	KERN	5835	Buttonwillow	Kern	13-Oct
WNV	Culex tarsalis	7-Oct	KERN	5837	Buttonwillow	Kern	14-Oct
WNV	Culex quinquefasciatus	5-Oct	ORCO	1645	Garden Grove	Orange	13-Oct
WNV	Culex quinquefasciatus	5-Oct	ORCO	1654	Fullerton	Orange	13-Oct
WNV	Culex quinquefasciatus	5-Oct	ORCO	1658	Brea	Orange	13-Oct
WNV	Culex quinquefasciatus	5-Oct	ORCO	1665	La Habra	Orange	13-Oct
WNV	Culex quinquefasciatus	5-Oct	ORCO	1666	Westminster	Orange	13-Oct
WNV	Culex quinquefasciatus	5-Oct	ORCO	1669	Santa Ana	Orange	13-Oct
WNV	Culex tarsalis	8-Oct	SAYO	1199	Sacramento	Sacramento	13-Oct

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Dead Birds Tested Positive for WNV last week

Species	County	City	Zip	Date Collected	Date Tested
Western Scrub-Jay	Amador	Pioneer	95666	9/30/2004	10/11/2004
Western Screech-Owl	Amador	Volcano	95689	9/30/2004	10/11/2004
Hermit Thrush	Calaveras	Angels Camp	95222	10/4/2004	10/11/2004
Great Horned Owl	Contra Costa	Walnut Creek	94598	9/27/2004	10/11/2004
Western Scrub-Jay	El Dorado	El Dorado Hills	95762	9/29/2004	10/11/2004
Acorn Woodpecker	El Dorado	Placerville	95667	9/30/2004	10/11/2004
American Crow	Fresno	Fresno	93888	9/29/2004	10/11/2004
Northern Mockingbird	Fresno	Fresno	93722	9/30/2004	10/11/2004
Red-tailed Hawk	Fresno	Fresno	93721	9/30/2004	10/11/2004
Western Scrub-Jay	Fresno	Fresno	93711	9/28/2004	10/11/2004
Western Scrub-Jay	Fresno	Fresno	93728	10/3/2004	10/11/2004
Western Scrub-Jay	Fresno	Riverdale	93656	9/28/2004	10/11/2004
Western Scrub-Jay	Fresno	Riverdale	93656	9/28/2004	10/11/2004
Western Scrub-Jay	Fresno	Sanger	93657	9/29/2004	10/11/2004
Western Scrub-Jay	Fresno	Sanger	93657	9/29/2004	10/11/2004
Cedar Waxwing	Humboldt	Arcata	95521	9/28/2004	10/11/2004
Fox Sparrow	Humboldt	West Haven	95570	9/28/2004	10/11/2004
Mallard Duck	Inyo	Bishop	93514	9/29/2004	10/11/2004
Orange-crowned Warbler	Inyo	Bishop	93514	9/28/2004	10/11/2004
White-crowned Sparrow	Inyo	Bishop	93514	9/28/2004	10/11/2004
American Crow	Kern	Bakersfield	93309	9/24/2004	10/11/2004
American Crow	Kern	Bakersfield	93311	9/24/2004	10/11/2004
Western Scrub-Jay	Kern	Bakersfield	93309	10/6/2004	10/11/2004
Western Scrub-Jay	Kern	Bakersfield	93309	10/6/2004	10/11/2004
House Sparrow	Kings	Hanford	93230	10/5/2004	10/11/2004
American Crow	Los Angeles	Beverly Hills	90212	10/1/2004	10/11/2004
American Crow	Los Angeles	Beverly Hills	90212	10/1/2004	10/11/2004
American Crow	Los Angeles	Harbor City	90710	10/4/2004	10/11/2004
American Crow	Los Angeles	Los Angeles	90021	8/26/2004	10/11/2004
American Crow	Los Angeles	Torrance	90505	9/30/2004	10/11/2004
House Finch	Madera	Coarsegold	93614	9/29/2004	10/11/2004
Golden-crowned Sparrow	Marin	Greenbrae	94904	10/4/2004	10/11/2004
Swainsons Thrush	Marin	Inverness	94937	10/4/2004	10/11/2004
American Crow	Mendocino	Redwood Valley	95470	10/4/2004	10/11/2004
Western Scrub-Jay	Merced	Atwater	95301	10/5/2004	10/11/2004
Yellow-billed Magpie	Merced	Delhi	95315	10/5/2004	10/11/2004
House Sparrow	Merced	Dos Palos	93620	9/30/2004	10/11/2004
Western Scrub-Jay	Merced	Gustine	95322	9/16/2004	10/11/2004
Western Scrub-Jay	Merced	Livingston	95334	9/30/2004	10/11/2004
American Crow	Merced	Los Banos	93635	9/28/2004	10/11/2004
American Robin	Merced	Merced	95340	10/5/2004	10/11/2004
California Quail	Monterey	Salinas	93908	10/1/2004	10/11/2004
Common Raven	Nevada	Penn Valley	95946	10/4/2004	10/11/2004
Steller's Jay	Nevada	Penn Valley	95946	10/5/2004	10/11/2004
Western Scrub-Jay	Nevada	Penn Valley	95946	10/6/2004	10/11/2004

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Species	County	City	Zip	Date Collected	Date Tested
American Crow	Orange	Anaheim	92805	9/13/2004	9/13/2004
American Crow	Orange	Costa Mesa	92626	8/28/2004	8/28/2004
American Crow	Orange	Costa Mesa	92626	8/28/2004	8/28/2004
American Crow	Orange	Costa Mesa	92626	9/2/2004	9/2/2004
California Towhee	Orange	Dana Point	92629	9/29/2004	10/11/2004
American Crow	Orange	Fountain Valley	92708	9/24/2004	9/24/2004
American Crow	Orange	Fullerton	92831	6/14/2004	6/14/2004
American Crow	Orange	Fullerton	92833	6/14/2004	6/14/2004
American Crow	Orange	Garden Grove	92840	9/2/2004	9/2/2004
American Crow	Orange	Garden Grove	92840	9/2/2004	9/2/2004
American Crow	Orange	Garden Grove	92844	9/8/2004	9/8/2004
American Crow	Orange	Garden Grove	92844	9/21/2004	9/21/2004
American Crow	Orange	Huntington Beach	92846	9/2/2004	9/2/2004
American Crow	Orange	Huntington Beach	92649	9/10/2004	9/10/2004
American Crow	Orange	Huntington Beach	92648	9/16/2004	9/16/2004
American Crow	Orange	Huntington Beach	92647	9/20/2004	9/20/2004
American Crow	Orange	Huntington Beach	92647	9/21/2004	9/21/2004
American Crow	Orange	Huntington Beach	92648	10/4/2004	10/4/2004
American Crow	Orange	Huntington Beach	92846	10/4/2004	10/4/2004
American Crow	Orange	Irvine	92614	9/20/2004	9/20/2004
American Crow	Orange	Irvine	92623	9/8/2004	9/8/2004
American Crow	Orange	Irvine	92620	9/9/2004	9/9/2004
American Crow	Orange	Irvine	92614	9/23/2004	9/23/2004
American Crow	Orange	Irvine	92614	9/24/2004	9/24/2004
American Crow	Orange	Irvine	92614	9/24/2004	9/24/2004
House Finch	Orange	Irvine	92614	9/27/2004	10/11/2004
House Finch	Orange	Irvine	92612	9/29/2004	10/11/2004
Northern Flicker	Orange	Newport Beach	92660	9/23/2004	10/11/2004
American Crow	Orange	Placentia	92870	9/8/2004	9/8/2004
House Finch	Orange	Placentia	92870	9/23/2004	10/11/2004
House Finch	Orange	Placentia	92870	9/29/2004	10/11/2004
American Crow	Orange	Rossmoor	92846	9/2/2004	9/2/2004
American Crow	Orange	Rossmoor	90720	9/9/2004	9/9/2004
American Crow	Orange	San Clemente	92672	9/30/2004	9/30/2004
American Crow	Orange	Santa Ana	92703	9/14/2004	9/14/2004
American Crow	Orange	Stanton	90680	9/20/2004	9/20/2004
American Crow	Orange	Tustin	92705	9/2/2004	9/2/2004
American Crow	Orange	Tustin	92705	9/13/2004	9/13/2004
American Crow	Orange	Tustin	92780	9/14/2004	9/14/2004
American Crow	Orange	Tustin	92780	9/24/2004	9/24/2004
American Crow	Orange	Westminster	92683	9/27/2004	9/27/2004
American Crow	Orange	Yorba Linda	92886	6/7/2004	6/7/2004
American Crow	Orange	Yorba Linda	92886	9/17/2004	9/17/2004
Western Scrub-Jay	Placer	Auburn	95603	9/29/2004	10/11/2004
Western Scrub-Jay	Placer	Auburn	95603	10/1/2004	10/11/2004

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Yellow-billed Magpie	Placer	Lincoln	95648	8/19/2004	10/11/2004
Western Scrub-Jay	Placer	Loomis	95650	9/23/04	10/11/2004
Yellow Warbler	Plumas	Clio	96106	9/30/2004	10/11/2004
Western Scrub-Jay	Sacramento	Antelope	95843	10/6/2004	10/11/2004
Western Scrub-Jay	Sacramento	Citrus Heights	95621	9/29/2004	10/11/2004
Yellow-billed Magpie	Sacramento	Citrus Heights	95621	9/30/2004	10/11/2004
Yellow-billed Magpie	Sacramento	Citrus Heights	95621	10/1/2004	10/11/2004
Red-tailed Hawk	Sacramento	Elk Grove	95758	10/4/2004	10/11/2004
Western Scrub-Jay	Sacramento	Elk Grove	95624	9/28/2004	10/11/2004
Yellow-billed Magpie	Sacramento	Elverta	95626	9/30/2004	10/11/2004
American Crow	Sacramento	Orangevale	95662	10/5/2004	10/11/2004
Western Scrub-Jay	Sacramento	Orangevale	95662	9/28/2004	10/11/2004
Western Scrub-Jay	Sacramento	Sacramento	95842	9/27/2004	10/11/2004
Western Scrub-Jay	Sacramento	Sacramento	95827	9/29/2004	10/11/2004
Western Scrub-Jay	Sacramento	Sacramento	95828	10/5/2004	10/11/2004
Yellow-billed Magpie	Sacramento	Sacramento	95841	9/29/2004	10/11/2004
Yellow-billed Magpie	Sacramento	Sacramento	95828	9/30/2004	10/11/2004
Yellow-billed Magpie	Sacramento	Sacramento	95841	10/3/2004	10/11/2004
American Crow	San Bernardino	Chino	91710	9/24/2004	10/11/2004
American Crow	San Diego	Alpine	91901	9/28/2004	10/11/2004
American Crow	San Diego	San Diego	92128	9/28/2004	10/11/2004
House Sparrow	San Francisco	San Francisco	94102	9/28/2004	10/11/2004
Yellow-billed Magpie	San Joaquin	Acampo	95220-	9/24/2004	10/11/2004
Yellow-billed Magpie	San Joaquin	Acampo	95220	9/24/2004	10/11/2004
American Crow	San Joaquin	Escalon	95320	9/22/2004	9/22/2004
Chicken	San Joaquin	Manteca	95336	9/28/2004	10/11/2004
Barn Owl	San Joaquin	Stockton	95215	10/1/2004	10/11/2004
Western Scrub-Jay	San Joaquin	Stockton	95206	9/28/2004	10/11/2004
Yellow-billed Magpie	San Joaquin	Tracy	95304	10/5/2004	10/11/2004
Chicken	San Joaquin	Waterloo	95215	9/24/2004	10/11/2004
Western Scrub-Jay	San Luis Obispo	Atascadero	93422	9/23/2004	10/11/2004
American Crow	San Luis Obispo	San Luis Obispo	93406	9/27/2004	10/11/2004
Steller's Jay	San Mateo	Pescadero	94060	9/29/2004	10/11/2004
Red-tailed Hawk	Santa Clara	Mountain View	94035	10/5/2004	10/11/2004
American Crow	Santa Clara	San Jose	95123	9/28/2004	9/28/2004
American Crow	Santa Clara	San Jose	95121	9/28/2004	9/28/2004
Western Scrub-Jay	Santa Cruz	Aptos	95003	9/28/2004	10/11/2004
Western Scrub-Jay	Santa Cruz	Ben Lomond	95005	10/5/2004	10/11/2004
Hermit Thrush	Santa Cruz	Santa Cruz	95065	10/4/2004	10/11/2004
Northern Flicker	Santa Cruz	Santa Cruz	95062	10/6/2004	10/11/2004
Golden-crowned Sparrow	Siskiyou	Hornbrook	96044	10/5/2004	10/11/2004
Dark-eyed Junco	Siskiyou	McCloud	96057	9/30/2004	10/11/2004
Ring-billed Gull	Solano	Vallejo	94589	10/3/2004	10/11/2004
California Towhee	Sonoma	Guerneville	95446	10/4/2004	10/11/2004
Fox Sparrow	Sonoma	Penngrove	94951	9/30/2004	10/11/2004

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Species	County	City	Zip	Date Collected	Date Tested
American Crow	Stanislaus	Ceres	95307	9/17/2004	10/11/2004
Western Scrub-Jay	Stanislaus	Ceres	95307	10/5/2004	10/11/2004
Western Scrub-Jay	Stanislaus	Ceres	95307	10/1/2004	10/11/2004
Western Scrub-Jay	Stanislaus	Hughson	95326	10/4/2004	10/11/2004
Western Scrub-Jay	Stanislaus	Modesto	95356	9/16/2004	10/11/2004
Great Horned Owl	Stanislaus	Newman	95360	9/28/2004	10/11/2004
Western Scrub-Jay	Stanislaus	Patterson	95363	9/27/2004	10/11/2004
Western Scrub-Jay	Stanislaus	Salida	95368	9/29/2004	10/11/2004
Barn Owl	Sutter	Live Oak	95953	10/5/2004	10/11/2004
Ruffed Grouse	Trinity	Big Bar	96010	9/29/2004	10/11/2004
Brewer's Blackbird	Trinity	Hayfork	96041	9/27/2004	10/11/2004
Western Scrub-Jay	Tulare	Dinuba	93618	10/5/2004	10/11/2004
Western Scrub-Jay	Tulare	Orosi	93647	10/4/2004	10/11/2004
American Crow	Tulare	Tipton	93272	10/6/2004	10/11/2004
American Crow	Tulare	Tipton	93272	10/6/2004	10/11/2004
American Crow	Tulare	Visalia	93291	10/4/2004	10/11/2004
Western Scrub-Jay	Tulare	Visalia	93292	9/27/2004	10/11/2004
Western Scrub-Jay	Tulare	Visalia	93292	9/28/2004	10/11/2004
Western Scrub-Jay	Tulare	Visalia	93292	10/4/2004	10/11/2004
Western Scrub-Jay	Tulare	Visalia	93277	10/5/2004	10/11/2004
Western Scrub-Jay	Tulare	Visalia	93277	10/5/2004	10/11/2004
Western Scrub-Jay	Tulare	Visalia	93277	10/6/2004	10/11/2004
American Crow	Ventura	Moorpark	93021	10/1/2004	10/11/2004
Western Scrub-Jay	Yuba	Browns Valley	95918	10/5/2004	10/11/2004

***Indicates Vec-Test

National Comments:

As of October 19, 2004, West Nile Virus (WNV) activity has been detected in 47 states, the District of Columbia, Puerto Rico, and New York City. Over 2100 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, 7386 cases had been reported from 44 states, DC, and NYC. Of the 2118 WNV cases where data is available, the median age is 52 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 68 WNV-related fatalities nationwide in 2004. The median age of the 67 fatalities where data were available was 74 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].