

# California Arbovirus Surveillance Bulletin # 23

Week 29 Friday, July 22, 2005

## Weekly Summary

### Comments:

#### **Humans:**

As of July 22, 2005, 21 human West Nile virus (WNV) infections have been identified from the following local health jurisdictions: Butte (1), Fresno (1), Kern (1), Kings (2), Merced (1), Riverside (4), Sacramento (2), San Bernardino (1), and Tulare (8). Seven of the 21 infections were initially detected in asymptomatic individuals through screening done at blood banks - four individuals later developed symptoms. Of the 18 WNV cases with symptoms, 6 are classified as West Nile neuroinvasive disease cases, and 9 are classified as West Nile fever, and 3 are of unknown clinical presentation. The median age for all cases where data is available is 51 years (range: 18-77 years). There has been one WNV-related fatalities to date in California this year from Kings County.

#### **Horses:**

The California Department of Food & Agriculture reported 12 new confirmed cases of equine WNV in Amador (1), Kern (2), Riverside (5), Sacramento (2), Stanislaus (1), and Yolo (1) counties. **This is the first indication of WNV activity in Amador County.** These were the first WNV positive horses in Sacramento, Stanislaus, and Yolo counties. The YTD total for the State is 27.

#### **Dead Birds:**

This week the hotline received 6,616 dead bird reports, for a YTD total of 42,608 reports. 163 out of 319 (51.1%) dead birds collected from 44 counties tested positive for WNV this week.

- 126 out of 263 (47.9%) dead birds tested positive via RT-PCR.
- Seven out of 11 (63.6%) corvids tested positive via VecTest.
- Nine out of nine (100 %) corvids tested positive via RAMP.
- Twenty-one out of 36 (58.3%) dead birds tested positive via immunohistochemistry.

The WNV positive dead birds were collected from the following counties: Butte (3); Contra Costa (2); Colusa (6); Fresno (7); Glenn (1); Kern (2); Kings (10); Lake (1); Los Angeles (3); Madera (3); Merced (21); Monterey (1); Nevada (1); Orange (21); Placer (7); Riverside (1); Sacramento (6); San Bernardino (5); San Diego (1); San Joaquin (3); San Luis Obispo (1); Santa Clara (3); Shasta (2); Stanislaus (11); Sutter (1); Tehama (1); Tulare (37); and Yuba (2). **This is the first indication of WNV activity in Lake, Monterey, Nevada, and San Luis Obispo counties in 2005.**

The following bird species tested positive for WNV: American crow (57); American kestrel (1); American robin (3); black-headed grosbeak (2) Brewer's blackbird (1); cooper's hawk (2); European starling (1); finch (1); goldfinch (1); house finch (6); house sparrow (1); red-shouldered hawk (1); scrub-jay (2); western scrub-jay (55); and yellow-billed magpie (29). See "WNV Positive Dead Birds" table for details.

Since January 1, 2005, 619 of 4,380 (14.1%) dead birds have tested positive for WNV.

#### **Mosquito Pools:**

WNV: CVEC reported 151 WNV positive mosquito pools from the following counties: Fresno (20), Inyo (2), Kern (35), Lake (1), Los Angeles (20), Madera (1), Merced (1), Orange (3), Placer (2), Riverside (30), Sacramento (19), Solano (2), Stanislaus (4), Sutter (6), and Yolo (5). **This is the first indication of WNV activity in Inyo County in 2005.** These were the first WNV positive mosquito pools in Lake and Solano counties. The YTD total for the State is 386.

WEE: CVEC also reported 2 positive WEE pools in Kern county. The YTD for the State is 27.

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**Sentinel Chickens:** There are 90 flavivirus positive seroconversions that are being sent to VRDL for confirmation testing.

**WNV:** No WNV seroconversions were reported this week. The current YTD total stands at five seroconversions.

**WEE:** VRDL reported 19 WEE seroconversions in four flocks from Riverside county. The current YTD stands at 56 seroconversions.

**Website Information:**

For updated information on WNV, please visit the California WNV website, [www.westnile.ca.gov](http://www.westnile.ca.gov), the CDC website, [www.cdc.gov](http://www.cdc.gov), and the USGS website, [www.westnilemaps.usgs.gov](http://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.

## TEST SUMMARIES

### Humans and Horses

		Number Tested	WNV Positive		WEE Positive		SLE Positive		Other Positive	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested	Week	51	0	11	0	0	0	0	0	0
	YTD	732	0	21	0	0	0	0	0	0
Horses Tested	Week	43	0	12	0	0	0	0	0	0
	YTD	256	0	27	0	0	0	0	0	0

### Dead Birds

	Number Tested	WNV Positive
Week	319	163
YTD	4,380	619

### Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Other Positive
	YTD	17531	5	56	0	0
Mosquito pools	Week	957	151	2	0	0
	YTD	11442	386	27	0	0

\*Total has been adjusted to include local agency submission

### Human Positives Reported (July 18- July 22)

Virus	Date of Onset	Status	Diagnosis	County	Imported/Local
WNV	7/1/2005	Probable	West Nile Neuroinvasive Disease	Kings	Local
WNV	7/4/2005	Probable	West Nile Neuroinvasive Disease	Riverside	Local
WNV	7/2/2005	Probable	Unknown	Riverside	Local
WNV	6/25/2005	Probable	Unknown	Riverside	Local
WNV	Unknown	Probable	Unknown	Kings	Local
WNV	n/a	Probable	Asymptomatic Blood Donor	Butte	Local
WNV	7/9/2005	Probable	West Nile Neuroinvasive Disease	Sacramento	Local
WNV	7/15/2005	Probable	West Nile Fever	Sacramento	Local
WNV	7/14/2005	Probable	West Nile Neuroinvasive Disease	Tulare	Local
WNV	7/11/2005	Probable	West Nile Fever	Tulare	Local
WNV	n/a	Probable	Asymptomatic Blood Donor	Tulare	Local

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## Virus Isolations From Mosquito Pools:

Virus	Mosquito species	Date Collected	ACODE	Pool #	City	County	Date Received
WNV	Cx. tarsalis	7/12/05	CNSL	160	Sanger	Fresno	7/14/05
WNV	Cx. tarsalis	7/13/05	CNSL	169	Fresno	Fresno	7/14/05
WNV	Cx. quinquefasciatus	7/14/05	CNSL	170	Friant	Madera	7/19/05
WNV	Cx. stigmatosoma	7/14/05	CNSL	171	Friant Dam	Fresno	7/19/05
WNV	Cx. quinquefasciatus	7/14/05	CNSL	173	Clovis	Fresno	7/19/05
WNV	Cx. tarsalis	7/14/05	CNSL	174	Clovis	Fresno	7/19/05
WNV	Cx. quinquefasciatus	7/14/05	CNSL	175	Clovis	Fresno	7/19/05
WNV	Cx. tarsalis	7/14/05	CNSL	176	Clovis	Fresno	7/19/05
WNV	Cx. tarsalis	7/14/05	CNSL	179	Riverdale	Fresno	7/19/05
WNV	Cx. tarsalis	7/14/05	CNSL	181	Riverdale	Fresno	7/19/05
WNV	Cx. quinquefasciatus	7/14/05	CNSL	182	Riverdale	Fresno	7/19/05
WNV	Cx. tarsalis	7/14/05	CNSL	183	Riverdale	Fresno	7/19/05
WNV	Cx. quinquefasciatus	7/14/05	CNSL	184	Riverdale	Fresno	7/19/05
WNV	Cx. tarsalis	7/15/05	CNSL	187	Fresno	Fresno	7/19/05
WNV	Cx. tarsalis	7/15/05	CNSL	189	Fresno	Fresno	7/19/05
WNV	Cx. quinquefasciatus	7/19/05	CNSL	192	Selma	Fresno	7/20/05
WNV	Cx. stigmatosoma	7/19/05	CNSL	196	Auberry	Fresno	7/20/05
WNV	Cx. quinquefasciatus	7/11/05	COAV	2008	Indian Wells	Riverside	7/21/05
WNV	Cx. quinquefasciatus	7/11/05	COAV	2010	Indian Wells	Riverside	7/21/05
WNV	Cx. quinquefasciatus	7/11/05	COAV	2011	Indian Wells	Riverside	7/21/05
WNV	Cx. quinquefasciatus	7/11/05	COAV	2012	Rancho Mirage	Riverside	7/21/05
WNV	Cx. quinquefasciatus	7/11/05	COAV	2015	Rancho Mirage	Riverside	7/21/05
WNV	Cx. quinquefasciatus	7/11/05	COAV	2016	Rancho Mirage	Riverside	7/21/05
WNV	Cx. quinquefasciatus	7/12/05	COAV	2032	Indian Wells	Riverside	7/21/05
WNV	Cx. quinquefasciatus	7/12/05	COAV	2033	Indian Wells	Riverside	7/21/05
WNV	Cx. quinquefasciatus	7/12/05	COAV	2034	Indian Wells	Riverside	7/21/05
WNV	Cx. quinquefasciatus	7/12/05	COAV	2035	Indian Wells	Riverside	7/21/05
WNV	Cx. quinquefasciatus	7/12/05	COAV	2039	Rancho Mirage	Riverside	7/21/05
WNV	Cx. quinquefasciatus	7/12/05	COAV	2041	Rancho Mirage	Riverside	7/21/05
WNV	Cx. quinquefasciatus	7/12/05	COAV	2044	Indian Wells	Riverside	7/21/05
WNV	Cx. quinquefasciatus	7/12/05	COAV	2046	Rancho Mirage	Riverside	7/21/05
WNV	Cx. quinquefasciatus	7/14/05	COAV	2067	Indian Wells	Riverside	7/21/05
WNV	Cx. quinquefasciatus	7/14/05	COAV	2068	Indian Wells	Riverside	7/21/05
WNV	Cx. quinquefasciatus	7/14/05	COAV	2069	Indian Wells	Riverside	7/21/05
WNV	Cx. quinquefasciatus	7/14/05	COAV	2073	Rancho Mirage	Riverside	7/21/05
WNV	Cx. quinquefasciatus	7/14/05	COAV	2075	Indian Wells	Riverside	7/21/05
WNV	Cx. quinquefasciatus	7/14/05	COAV	2077	Palm Desert	Riverside	7/21/05
WNV	Cx. quinquefasciatus	7/14/05	COAV	2078	Rancho Mirage	Riverside	7/21/05
WNV	Cx. tarsalis	7/19/05	FRWS	41	Kerman	Fresno	7/20/05
WNV	Cx. tarsalis	7/19/05	FRWS	43	The Mendota Airport	Fresno	7/20/05

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WNV	Cx. tarsalis	7/19/05	FRWS	44	The Mendota Airport	Fresno	7/20/05
WNV	Cx. tarsalis	7/19/05	FRWS	46	The Firebaugh Airport	Fresno	7/20/05
WNV	Cx. quinquefasciatus	7/11/05	GRLA	987	Long Beach	Los Angeles	7/20/05
WNV	Cx. quinquefasciatus	7/11/05	GRLA	990	Long Beach	Los Angeles	7/20/05
WNV	Cx. quinquefasciatus	7/11/05	GRLA	992		Los Angeles	7/20/05
WNV	Cx. quinquefasciatus	7/12/05	GRLA	997	Cerritos	Los Angeles	7/20/05
WNV	Cx. quinquefasciatus	7/12/05	GRLA	1005	Lakewood	Los Angeles	7/20/05
WNV	Cx. tarsalis	7/13/05	GRLA	1041	Long Beach	Los Angeles	7/20/05
WNV	Cx. tarsalis	7/13/05	GRLA	1049	Long Beach	Los Angeles	7/20/05
WNV	Cx. quinquefasciatus	7/13/05	GRLA	1050	Long Beach	Los Angeles	7/20/05
WNV	Cx. quinquefasciatus	7/18/05	GRLA	1055	Long Beach	Los Angeles	7/20/05
WNV	Cx. quinquefasciatus	7/18/05	GRLA	1056	Long Beach	Los Angeles	7/20/05
WNV	Cx. quinquefasciatus	7/18/05	GRLA	1058	Long Beach	Los Angeles	7/20/05
WNV	Cx. quinquefasciatus	7/18/05	GRLA	1063	Long Beach	Los Angeles	7/20/05
WNV	Cx. quinquefasciatus	7/18/05	GRLA	1065	Long Beach	Los Angeles	7/20/05
WNV	Cx. quinquefasciatus	7/11/05	GRLA	5593	Canoga Park	Los Angeles	7/20/05
WNV	Cx. quinquefasciatus	7/11/05	GRLA	5599	Encino	Los Angeles	7/20/05
WNV	Cx. quinquefasciatus	7/14/05	GRLA	5624	Chatsworth	Los Angeles	7/20/05
WNV	Cx. tarsalis	7/20/05	INYO	72	Bishop	Inyo	7/21/05
WNV	Cx. tarsalis	7/20/05	INYO	74	Bishop	Inyo	7/21/05
WNV	Cx. quinquefasciatus	7/14/05	KERN	287	Bakersfield	Kern	7/20/05
WNV	Cx. quinquefasciatus	7/14/05	KERN	288	Bakersfield	Kern	7/20/05
WNV	Cx. quinquefasciatus	7/14/05	KERN	289	Bakersfield	Kern	7/20/05
WNV	Cx. quinquefasciatus	7/14/05	KERN	292	Bakersfield	Kern	7/20/05
WNV	Cx. quinquefasciatus	7/14/05	KERN	295	Bakersfield	Kern	7/20/05
WNV	Cx. quinquefasciatus	7/14/05	KERN	297	Bakersfield	Kern	7/20/05
WNV	Cx. quinquefasciatus	7/14/05	KERN	298	Bakersfield	Kern	7/20/05
WNV	Cx. quinquefasciatus	7/14/05	KERN	299	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5564	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5565	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5566	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5567	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5571	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5574	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5575	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5577	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5578	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5579	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5580	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5581	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5582	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5585	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5587	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5588	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5589	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5590	Bakersfield	Kern	7/20/05

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WNV	Cx. tarsalis	7/11/05	KERN	5591	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5593	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5594	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5595	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5596	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/11/05	KERN	5597	Bakersfield	Kern	7/20/05
WNV	Cx. quinquefasciatus	7/13/05	KERN	5612	Bakersfield	Kern	7/20/05
WNV	Cx. quinquefasciatus	7/13/05	KERN	5617	Bakersfield	Kern	7/20/05
WNV	Cx. quinquefasciatus	7/13/05	KERN	5620	Bakersfield	Kern	7/20/05
WNV	Cx. tarsalis	7/19/05	LAKE	67	Kelseyville	Lake	7/20/05
WNV	Cx. quinquefasciatus	7/19/05	LONG	211	Long Beach	Los Angeles	7/20/05
WNV	Cx. quinquefasciatus	7/19/05	LONG	213	Long Beach	Los Angeles	7/20/05
WNV	Cx. pipiens	7/13/05	MERC	174	Gustine	Merced	7/15/05
WNV	Cx. quinquefasciatus	7/14/05	ORCO	2297	Dana Point	Orange	7/19/05
WNV	Cx. stigmatosoma	7/18/05	ORCO	2341	Cypress	Orange	7/19/05
WNV	Cx. stigmatosoma	7/18/05	ORCO	2342	Cypress	Orange	7/19/05
WNV	Cx. tarsalis	7/13/05	PLCR	54	Lincoln	Placer	7/18/05
WNV	Cx. tarsalis	7/14/05	PLCR	55	Sheridan	Placer	7/18/05
WNV	Cx. tarsalis	6/28/05	RIVR	204	Murrieta	Riverside	7/21/05
WNV	Cx. erythrothorax	6/28/05	RIVR	206	Murrieta	Riverside	7/21/05
WNV	Cx. tarsalis	6/29/05	RIVR	211	Nuevo	Riverside	7/21/05
WNV	Cx. tarsalis	6/29/05	RIVR	212	Nuevo	Riverside	7/21/05
WNV	Cx. stigmatosoma	6/29/05	RIVR	220	Nuevo	Riverside	7/21/05
WNV	Cx. tarsalis	7/6/05	RIVR	235	San Jacinto	Riverside	7/21/05
WNV	Cx. stigmatosoma	7/8/05	RIVR	239	Moreno Valley	Riverside	7/21/05
WNV	Cx. tarsalis	7/20/05	RIVR	257	Nuevo	Riverside	7/21/05
WNV	Cx. tarsalis	7/20/05	RIVR	279	San Jacinto	Riverside	7/21/05
WNV	Cx. tarsalis	7/15/05	SAYO	346	Woodland	Yolo	7/19/05
WNV	Cx. pipiens	7/15/05	SAYO	351	Sacramento	Sacramento	7/19/05
WNV	Cx. pipiens	7/15/05	SAYO	353	Antelope	Sacramento	7/19/05
WNV	Cx. pipiens	7/15/05	SAYO	355	Orangevale	Sacramento	7/19/05
WNV	Cx. pipiens	7/15/05	SAYO	356	Orangevale	Sacramento	7/19/05
WNV	Cx. pipiens	7/15/05	SAYO	357	Orangevale	Sacramento	7/19/05
WNV	Cx. tarsalis	7/15/05	SAYO	358	Orangevale	Sacramento	7/19/05
WNV	Cx. pipiens	7/15/05	SAYO	360	Folsom	Sacramento	7/19/05
WNV	Cx. pipiens	7/15/05	SAYO	361	Folsom	Sacramento	7/19/05
WNV	Cx. pipiens	7/15/05	SAYO	362	Folsom	Sacramento	7/19/05
WNV	Cx. pipiens	7/15/05	SAYO	381	Elk Grove	Sacramento	7/19/05
WNV	Cx. pipiens	7/15/05	SAYO	382	Woodland	Yolo	7/19/05
WNV	Cx. tarsalis	7/15/05	SAYO	384	Elk Grove	Sacramento	7/19/05
WNV	Cx. pipiens	7/15/05	SAYO	385	Elk Grove	Sacramento	7/19/05
WNV	Cx. pipiens	7/15/05	SAYO	387	Woodland	Yolo	7/19/05
WNV	Cx. tarsalis	7/15/05	SAYO	395	Locke	Sacramento	7/19/05
WNV	Cx. tarsalis	7/15/05	SAYO	397	Locke	Sacramento	7/20/05
WNV	Cx. pipiens	7/18/05	SAYO	400	Fair Oaks	Sacramento	7/20/05
WNV	Cx. pipiens	7/18/05	SAYO	403	Fair Oaks	Sacramento	7/20/05
WNV	Cx. pipiens	7/18/05	SAYO	405	Fair Oaks	Sacramento	7/20/05

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WNV	Cx. tarsalis	7/18/05	SAYO	406	Fair Oaks	Sacramento	7/20/05
WNV	Cx. pipiens	7/18/05	SAYO	407	Fair Oaks	Sacramento	7/20/05
WNV	Cx. tarsalis	7/14/05	SAYO	5061	Davis	Solano	7/14/05
WNV	Cx. tarsalis	7/15/05	SAYO	5066	Davis	Yolo	7/20/05
WNV	Cx. tarsalis	7/15/05	SAYO	5073	Davis	Yolo	7/20/05
WNV	Cx. tarsalis	7/15/05	SAYO	5076	Davis	Solano	7/20/05
WNV	Cx. tarsalis	7/11/05	SGVA	1	Claremont	Los Angeles	7/20/05
WNV	Cx. quinquefasciatus	7/13/05	SGVA	2	Claremont	Los Angeles	7/20/05
WNV	Cx. tarsalis	7/18/05	SUYA	139	Pleasant Grove	Sutter	7/19/05
WNV	Cx. tarsalis	7/18/05	SUYA	142	Pleasant Grove	Sutter	7/19/05
WNV	Cx. tarsalis	7/18/05	SUYA	144	Pleasant Grove	Sutter	7/19/05
WNV	Cx. tarsalis	7/18/05	SUYA	159	Sutter	Sutter	7/19/05
WNV	Cx. tarsalis	7/18/05	SUYA	160	Sutter	Sutter	7/19/05
WNV	Cx. tarsalis	7/18/05	SUYA	163	Pennington	Sutter	7/19/05
WNV	Cx. pipiens	7/18/05	TRLK	493	Ceres	Stanislaus	7/21/05
WNV	Cx. pipiens	7/18/05	TRLK	497	Turlock	Stanislaus	7/21/05
WNV	Cx. pipiens	7/18/05	TRLK	511	South Modesto	Stanislaus	7/21/05
WNV	Cx. pipiens	7/18/05	TRLK	514	Empire	Stanislaus	7/21/05
WEE	Cx. tarsalis	7/11/05	TRLK	5582	Bakersfield	Kern	7/20/05
WEE	Cx. tarsalis	7/11/05	TRLK	5593	Bakersfield	Kern	7/20/05

### Chicken Seroconversions Reported by DHS:

Virus	County	State	Acode	City	Location
**** WEE	Riverside	CA	COAV0114	North Shore	Desert
<b>Band:</b> 8450, 8453, 8908					<b>Probable Seroconversion Date:</b> 5-July-05
**** WEE	Riverside	CA	COAV5001	Niland	Wister
<b>Band:</b> 8435, 8564, 8565, 8566, 8567, 8570, 8571					<b>Probable Seroconversion Date:</b> 5-July-05
**** WEE	Riverside	CA	COAV5002	Niland	Niland
<b>Band:</b> 738, 739, 745, 740, 743					<b>Probable Seroconversion Date:</b> 5-July-05
**** WEE	Riverside	CA	COAV5003	Westmoreland	Westmoreland
<b>Band:</b> 747, 750, 783, 751					<b>Probable Seroconversion Date:</b> 5-July-05
Flav. +	Butte	CA	BUCO0003	Palermo	Palermo
<b>Band:</b> 5427					<b>Probable Seroconversion Date:</b> 13-July-05
Flav. +	Butte	CA	BUCO0004	Gridley	Gray Lodge
<b>Band:</b> 5444					<b>Probable Seroconversion Date:</b> 13-July-05
Flav. +	Butte	CA	BUCO0005	Honcut	Honcut
<b>Band:</b> 5451					<b>Probable Seroconversion Date:</b> 13-July-05
Flav. +	Colusa	CA	CLSA0001	Colusa	Grussenmeyer
<b>Band:</b> 8130					<b>Probable Seroconversion Date:</b> 12-July-05
Flav. +	Imperial	CA	COAV5001	Niland	Wister
<b>Band:</b> 8435, 8567, 8572					<b>Probable Seroconversion Date:</b> 5-July-05
Flav. +	Imperial	CA	COAV5003	Westmorland	Westmorland
<b>Band:</b> 0783					<b>Probable Seroconversion Date:</b> 5-July-05
Flav. +	Kern	CA	WEST6202	Belridge	Belridge
<b>Band:</b> 4558					<b>Probable Seroconversion Date:</b> 12-July-05

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Flav. +	Kern	CA	KERN0101	Los Hills	Kern NWR
<b>Band:</b> 4309, 4310					<b>Probable Seroconversion Date:</b> 11-July-05
Flav. +	Kern	CA	KERN0105	Bakersfield	Wible/Houghton
<b>Band:</b> 4332, 4339					<b>Probable Seroconversion Date:</b> 27-June-05
Flav. +	Kern	CA	KERN0106	Bakersfield	Oildale
<b>Band:</b> 4343					<b>Probable Seroconversion Date:</b> 27-June-05
Flav. +	Kern	CA	KERN0107	Arvin	John Dale
<b>Band:</b> 4355, 4358					<b>Probable Seroconversion Date:</b> 11-July-05
Flav. +	Kern	CA	KERN0111	Arvin	Blackburn residence
<b>Band:</b> 4380					<b>Probable Seroconversion Date:</b> 27-June-05
Flav. +	Kern	CA	KERN0112	Wascon	Wells residence
<b>Band:</b> 4384					<b>Probable Seroconversion Date:</b> 11-July-05
Flav. +	Kern	CA	KERN0113	Bakersfield	Kern River
<b>Band:</b> 4362, 4363, 4364, 4367					<b>Probable Seroconversion Date:</b> 11-July-05
Flav. +	Kings	CA	KNGS2001	Hanford	Kings MAD
<b>Band:</b> 5602, 5604, 5606, 5607, 5608, 5609					<b>Probable Seroconversion Date:</b> 13-July-05
Flav. +	Kings	CA	KNGS2004	Corcoran	Corcoran
<b>Band:</b> 5651, 5655, 5658, 5659					<b>Probable Seroconversion Date:</b> 13-July-05
Flav. +	Los Angeles	CA	LONG0004	Long Beach	Marina Oil field
<b>Band:</b> 6783					<b>Probable Seroconversion Date:</b> 5-July-05
Flav. +	Los Angeles	CA	GRLA2056	Long Beach	El Dorado Park
<b>Band:</b> 7264,					<b>Probable Seroconversion Date:</b> 20-June-05
Flav. +	Los Angeles	CA	GRLA2056	Long Beach	El Dorado Park
<b>Band:</b> 7266					<b>Probable Seroconversion Date:</b> 5-July-05
Flav. +	Los Angeles	CA	GRLA2056	Long Beach	El Dorado Park
<b>Band:</b> 7270					<b>Probable Seroconversion Date:</b> 18-June-05
Flav. +	Los Angeles	CA	LACW1024	Calabasas GC	Calabasas Park
<b>Band:</b> 3897					<b>Probable Seroconversion Date:</b> 18-July-05
Flav. +	Merced	CA	MERC0006	Merced	Deweese
<b>Band:</b> 4733, 4737					<b>Probable Seroconversion Date:</b> 11-July-05
Flav. +	Riverside	CA	COAV0035	Mecca	Adohr
<b>Band:</b> 8863					<b>Probable Seroconversion Date:</b> 5-July-05
Flav. +	Riverside	CA	COAV0201	Thermal	Thermal
<b>Band:</b> 8990, 8993, 8995, 8998					<b>Probable Seroconversion Date:</b> 5-July-05
Flav. +	Riverside	CA	COAV0200	Mecca	Mecca
<b>Band:</b> 8982					<b>Probable Seroconversion Date:</b> 5-July-05
Flav. +	Riverside	CA	COAV0131	Oasis	Jessup
<b>Band:</b> 8555					<b>Probable Seroconversion Date:</b> 5-July-05
Flav. +	Riverside	CA	COAV0122	Mecca	Gordon
<b>Band:</b> 8972, 8974					<b>Probable Seroconversion Date:</b> 5-July-05
Flav. +	Riverside	CA	COAV0114	North Shore	Desert
<b>Band:</b> 8452, 8453, 8907					<b>Probable Seroconversion Date:</b> 5-July-05
Flav. +	Riverside	CA	COAV0203	Palm Desert	Cook
<b>Band:</b> 0768					<b>Probable Seroconversion Date:</b> 5-July-05

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Flav. +	Riverside	CA	NWST9227	Highgrove	Center St.	
<b>Band:</b> 6169, 6170						<b>Probable Seroconversion Date:</b> 5-July-05
Flav. +	Riverside	CA	NWST9226	Woodrest	Mockingbird	
<b>Band:</b> 6177						<b>Probable Seroconversion Date:</b> 5-July-05
Flav. +	Riverside	CA	NWST9401	Corona	Corona Airport	
<b>Band:</b> 6162, 6165						<b>Probable Seroconversion Date:</b> 5-July-05
Flav. +	Riverside	CA	NWST6666	Lake Elsinore	Lake Elsinore	
<b>Band:</b> 6187						<b>Probable Seroconversion Date:</b> 5-July-05
Flav. +	Riverside	CA	RIVR0008	Murrieta	Auld Rd.	
<b>Band:</b> 5248, 5251, 5253, 5268						<b>Probable Seroconversion Date:</b> 8-July-05
Flav. +	Riverside	CA	RIVR0004	Beaumont	Cherry Valley Fire Station	
<b>Band:</b> 5213						<b>Probable Seroconversion Date:</b> 6-July-05
Flav. +	Riverside	CA	RIVR0001	San Jacinto	Country Lakes Mobile Homes	
<b>Band:</b> 5203, 5204						<b>Probable Seroconversion Date:</b> 6-July-05
Flav. +	Riverside	CA	RIVR0002	Hemet	San Jacinto Wildlife Reserve	
<b>Band:</b> 5225, 5232						<b>Probable Seroconversion Date:</b> 22-June-05
Flav. +	Riverside	CA	RIVR0002	Hemet	San Jacinto Wildlife Reserve	
<b>Band:</b> 5226, 5227, 5228, 5233						<b>Probable Seroconversion Date:</b> 22-June-05
Flav. +	San Bernardino	CA	WVAL0002	Chino	Dog Club	
<b>Band:</b> 5706, 5707						<b>Probable Seroconversion Date:</b> 6-July-05
Flav. +	San Bernardino	CA	WVAL0003	Chino Hills	Pump Station	
<b>Band:</b> 5708, 5709, 5710						<b>Probable Seroconversion Date:</b> 6-July-05
Flav. +	San Bernardino	CA	SANB0006	Yucaipa	Yucaipa Regional Park	
<b>Band:</b> 5045, 5047						<b>Probable Seroconversion Date:</b> 5-July-05
Flav. +	Santa Barbara	CA	SBCO0001	Goleta	Goleta Sanitary District	
<b>Band:</b> 5102						<b>Probable Seroconversion Date:</b> 7-July-05
Flav. +	Santa Barbara	CA	SBCO0001	Goleta	Goleta Sanitary District	
<b>Band:</b> 5104						<b>Probable Seroconversion Date:</b> 18-July-05
Flav. +	Sutter	CA	SUYA0014	Sutter	Dean	
<b>Band:</b> 0470						<b>Probable Seroconversion Date:</b> 14-July-05
Flav. +	Sutter	CA	SUYA0031	Rio Oso	Barker	
<b>Band:</b> 0494						<b>Probable Seroconversion Date:</b> 14-July-05
Flav. +	Tulare	CA	DLTA6005	Visalia	COS Farm	
<b>Band:</b> 4984						<b>Probable Seroconversion Date:</b> 5-July-05
Flav. +	Tulare	CA	DLTA6006	Visalia	COS Farm	
<b>Band:</b> 4991, 4996						<b>Probable Seroconversion Date:</b> 20-June-05
Flav. +	Tulare	CA	DLTA6006	Visalia	COS Farm	
<b>Band:</b> 4992, 4993, 4994, 4995, 4998						<b>Probable Seroconversion Date:</b> 5-July-05



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The following were inadvertently left out of last week's bulletin.

Flav. +	Sacramento	CA	SAYO7000	Elk Grove	Elk Grove
<b>Band:</b> 6024, 6025			<b>Probable Seroconversion Date:</b> 13-July-05		
Flav. +	Placer	CA	PLCR0128	Roseville	Roseville
<b>Band:</b> 0857, 0858, 0859			<b>Probable Seroconversion Date:</b> 14-July-05		

## WNV Positive Dead Birds Reported July 16- July 22, 2005

Species	County	City	Zip Code	Date Collected	Date Tested	Tested By
American Crow	Butte	Chico	95926	7/12/05	7/18/05	RT-PCR
American Crow	Butte	Oroville	95965	7/12/05	7/18/05	RT-PCR
American Crow	Fresno	Fresno	93726	7/17/05	7/17/05	RAMP
American Crow	Fresno	Fresno	93706	7/18/05	7/18/05	RAMP
American Crow	Kings	Lemoore	93245	7/6/05	7/18/05	RT-PCR
American Crow	Lake	Lucerne	95458	7/20/05	7/20/05	VecTest
American Crow	Los Angeles	Walnut	91789	7/13/05	7/13/05	RAMP
American Crow	Los Angeles	Lawndale	90260	6/28/05	6/28/05	VecTest
American Crow	Los Angeles	Pico Rivera	90660	7/14/05	7/14/05	VecTest
American Crow	Madera	Madera	93638	7/10/05	7/18/05	RT-PCR
American Crow	Merced	Atwater	95301	7/8/05	7/18/05	RT-PCR
American Crow	Orange	Irvine	92604	7/4/04	7/4/04	IHC
American Crow	Orange	Santa Ana	92706	7/5/05	7/5/05	IHC
American Crow	Orange	Irvine	92614	7/5/05	7/5/05	IHC
American Crow	Orange	Yorba Linda	92886	7/6/05	7/6/05	IHC
American Crow	Orange	La Palma	90623	7/6/05	7/6/05	IHC
American Crow	Orange	Santa Ana	92703	7/7/05	7/7/05	IHC
American Crow	Orange	Santa Ana	92706	7/7/05	7/7/05	IHC
American Crow	Orange	Garden Grove	90630	7/7/05	7/7/05	IHC
American Crow	Orange	Costa Mesa	92627	7/7/05	7/7/05	IHC
American Crow	Orange	Garden Grove	92840	7/8/05	7/8/05	IHC
American Crow	Orange	Cypress	90630	7/8/05	7/8/05	IHC
American Crow	Orange	Garden Grove	92840	7/11/05	7/11/05	IHC
American Crow	Orange	Costa Mesa	92626	7/12/05	7/12/05	IHC
American Crow	Orange	Irvine	92612	7/12/05	7/12/05	IHC
American Crow	Orange	Irvine	92614	7/12/05	7/12/05	IHC
American Crow	Orange	Santa Ana Heights	92627	7/12/05	7/12/05	IHC
American Crow	Orange	Newport Beach	92660	7/13/05	7/13/05	IHC
American Crow	Sacramento	Elk Grove	95624	7/6/05	7/18/05	RT-PCR
American Crow	Sacramento	Sacramento	95624	7/12/05	7/18/05	RT-PCR
American Crow	San Bernardino	Yucaipa	92399	6/29/05	7/18/05	RT-PCR
American Crow	San Bernardino	Redlands	92374	6/30/05	7/18/05	RT-PCR
American Crow	San Bernardino	Ontario	91761	7/6/05	7/18/05	RT-PCR
American Crow	San Bernardino	Ontario	91762	7/13/05	7/13/05	RAMP
American Crow	San Bernardino	Yucaipa	92399	6/30/05	6/30/05	VecTest
American Crow	San Luis Obispo	Atascadero	93422	7/6/05	7/18/05	RT-PCR
American Crow	Santa Clara	San Jose	95123	7/13/05	7/18/05	RT-PCR
American Crow	Santa Clara	San Jose	95125	7/13/05	7/18/05	RT-PCR
American Crow	Santa Clara	San Jose	95123	7/8/05	7/8/05	VecTest
American Crow	Stanislaus	Modesto	95355	7/7/05	7/18/05	RT-PCR
American Crow	Tulare	Visalia	93277	6/30/05	7/18/05	RT-PCR

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American Crow	Tulare	Visalia	93277	7/5/05	7/18/05	RT-PCR
American Crow	Tulare	Visalia	93277	7/5/05	7/18/05	RT-PCR
American Crow	Tulare	Visalia	93277	7/6/05	7/18/05	RT-PCR
American Crow	Tulare	Visalia	93291	7/7/05	7/18/05	RT-PCR
American Crow	Tulare	Visalia	93277	7/7/05	7/18/05	RT-PCR
American Crow	Tulare	Visalia	93291	7/7/05	7/18/05	RT-PCR
American Crow	Tulare	Visalia	93277	7/7/05	7/18/05	RT-PCR
American Crow	Tulare	Visalia	93277	7/7/05	7/18/05	RT-PCR
American Crow	Tulare	Visalia	93277	7/7/05	7/18/05	RT-PCR
American Crow	Tulare	Visalia	93277	7/7/05	7/18/05	RT-PCR
American Crow	Tulare	Visalia	93277	7/11/05	7/18/05	RT-PCR
American Crow	Tulare	Visalia	93277	7/11/05	7/18/05	RT-PCR
American Crow	Tulare	Visalia	93277	7/11/05	7/18/05	RT-PCR
American Crow	Tulare	Visalia	93277	7/11/05	7/18/05	RT-PCR
American Crow	Tulare	Visalia	93277	7/11/05	7/18/05	RT-PCR
American Crow	Yuba	Marysville	95901	7/12/05	7/18/05	RT-PCR
American Crow	Yuba	Marysville	95901	7/12/05	7/18/05	RT-PCR
American Kestrel	Contra Costa	Pittsburgh	94565	6/29/05	7/18/05	RT-PCR
American Robin	Merced	Merced	95340	6/29/05	7/18/05	RT-PCR
American Robin	Sacramento	Sacramento	95825	7/8/05	7/18/05	RT-PCR
American Robin	Tulare	Visalia	93291	7/6/05	7/18/05	RT-PCR
Black-headed Grosbeak	Monterey	Aromas	95004	7/6/05	7/18/05	RT-PCR
Black-headed Grosbeak	Placer	Foresthill	95631	6/30/05	7/18/05	RT-PCR
Brewer's Blackbird	Kings	Lemoore	93245	7/11/05	7/18/05	RT-PCR
Cooper's Hawk	Orange	Santa Ana	92707	7/11/05	7/11/05	IHC
Cooper's Hawk	Placer	Roseville	95747	7/12/05	7/18/05	RT-PCR
European Starling	Shasta	Anderson	96007	7/12/05	7/18/05	RT-PCR
Finch	Placer	Lincoln	95648	7/6/05	7/18/05	RT-PCR
Goldfinch	Butte	Oroville	95966	6/30/05	7/18/05	RT-PCR
House Finch	Kings	Hanford	93230	7/6/05	7/18/05	RT-PCR
House Finch	Kings	Lemoore	93245	7/6/05	7/18/05	RT-PCR
House Finch	Orange	Seal Beach	90740	7/5/05	7/5/05	IHC
House Finch	Sacramento	Sacramento	95822	6/29/05	7/18/05	RT-PCR
House Finch	Tehama	Red Bluff	96080	7/6/05	7/18/05	RT-PCR
House Finch	Tulare	Visalia	93277	7/1/05	7/18/05	RT-PCR
House Sparrow	Merced	Merced	95348	7/1/05	7/18/05	RT-PCR
Red-Shouldered Hawk	Glenn	Orland	95963	7/5/05	7/18/05	RT-PCR
Scrub Jay	Orange	Rossmoor	90720	7/7/05	7/7/05	IHC
Scrub Jay	Orange	Rossmoor	90720	7/7/05	7/7/05	IHC
Western Scrub-Jay	Colusa	Colusa	95932	7/8/05	7/18/05	RT-PCR
Western Scrub-Jay	Colusa	Colusa	95932	7/10/05	7/18/05	RT-PCR
Western Scrub-Jay	Colusa	Colusa	95932	7/11/05	7/18/05	RT-PCR
Western Scrub-Jay	Contra Costa	Danville	94526	7/13/05	7/13/05	RAMP
Western Scrub-Jay	Fresno	Fresno	93711	7/6/05	7/18/05	RT-PCR
Western Scrub-Jay	Fresno	Clovis	93612	7/11/05	7/11/05	RAMP
Western Scrub-Jay	Fresno	Fresno	93710	7/12/05	7/12/05	RAMP
Western Scrub-Jay	Fresno	Clovis	93611	7/17/05	7/17/05	RAMP
Western Scrub-Jay	Fresno	Fresno	93722	7/19/05	7/19/05	RAMP
Western Scrub-Jay	Kern	Bakersfield	93309	7/10/05	7/18/05	RT-PCR
Western Scrub-Jay	Kern	Bakersfield	93306	7/12/05	7/18/05	RT-PCR
Western Scrub-Jay	Kings	Hanford	93230	6/29/05	7/18/05	RT-PCR

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Western Scrub-Jay	Kings	Hanford	93230	6/29/05	7/18/05	RT-PCR
Western Scrub-Jay	Kings	Hanford	93230	7/5/05	7/18/05	RT-PCR
Western Scrub-Jay	Kings	Hanford	93230	7/7/05	7/18/05	RT-PCR
Western Scrub-Jay	Kings	Hanford	93230	7/11/05	7/18/05	RT-PCR
Western Scrub-Jay	Kings	Hanford	93230	7/11/05	7/18/05	RT-PCR
Western Scrub-Jay	Madera	Madera	93638	7/7/05	7/18/05	RT-PCR
Western Scrub-Jay	Merced	Atwater	95301	7/7/05	7/18/05	RT-PCR
Western Scrub-Jay	Merced	Atwater	95301	7/8/05	7/18/05	RT-PCR
Western Scrub-Jay	Merced	Merced	95340	7/11/05	7/18/05	RT-PCR
Western Scrub-Jay	Merced	Hilmar	95324	7/11/05	7/18/05	RT-PCR
Western Scrub-Jay	Merced	Merced	95340	7/12/05	7/18/05	RT-PCR
Western Scrub-Jay	Placer	Roseville	95661	7/8/05	7/18/05	RT-PCR
Western Scrub-Jay	Riverside	Murrieta	92562	7/11/05	7/18/05	RT-PCR
Western Scrub-Jay	San Diego	Escondido	92026	7/13/05	7/13/05	VecTest
Western Scrub-Jay	San Joaquin	Stockton	95205	7/6/05	7/18/05	RT-PCR
Western Scrub-Jay	San Joaquin	Stockton	95215	7/8/05	7/18/05	RT-PCR
Western Scrub-Jay	Shasta	Anderson	96007	7/14/05	7/14/05	VecTest
Western Scrub-Jay	Stanislaus	Waterford	95386	7/5/05	7/18/05	RT-PCR
Western Scrub-Jay	Stanislaus	Oakdale	95361	7/6/05	7/18/05	RT-PCR
Western Scrub-Jay	Stanislaus	Modesto	95350	7/8/05	7/18/05	RT-PCR
Western Scrub-Jay	Stanislaus	Modesto	95355	7/10/05	7/18/05	RT-PCR
Western Scrub-Jay	Stanislaus	Modesto	95356	7/11/05	7/18/05	RT-PCR
Western Scrub-Jay	Stanislaus	Modesto	95350	7/12/05	7/18/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93291	7/5/05	7/18/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93291	7/6/05	7/18/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93277	7/6/05	7/18/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93277	7/6/05	7/18/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93291	7/7/05	7/18/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93292	7/7/05	7/18/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93292	7/7/05	7/18/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93292	7/7/05	7/18/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93277	7/8/05	7/18/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93292	7/10/05	7/18/05	RT-PCR
Western Scrub-Jay	Tulare	Tulare	93274	7/10/05	7/18/05	RT-PCR
Western Scrub-Jay	Tulare	Tulare	93274	7/11/05	7/18/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93277	7/8/05	7/18/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93291	7/9/05	7/18/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93292	7/11/05	7/18/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93291	7/11/05	7/18/05	RT-PCR
Western Scrub-Jay	Tulare	Strathmore	93267	7/12/05	7/18/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93291	7/12/05	7/18/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93292	7/12/05	7/18/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93291	7/12/05	7/18/05	RT-PCR
Yellow-billed Magpie	Colusa	Colusa	95932	7/7/05	7/18/05	RT-PCR
Yellow-billed Magpie	Colusa	Colusa	95932	7/8/05	7/18/05	RT-PCR
Yellow-billed Magpie	Colusa	Colusa	95932	7/12/05	7/18/05	RT-PCR
Yellow-billed Magpie	Madera	Madera	93637	7/12/05	7/18/05	RT-PCR
Yellow-billed Magpie	Merced	Atwater	95301	7/6/05	7/18/05	RT-PCR
Yellow-billed Magpie	Merced	Atwater	95301	7/6/05	7/18/05	RT-PCR
Yellow-billed Magpie	Merced	Atwater	95301	7/7/05	7/18/05	RT-PCR

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Yellow-billed Magpie	Merced	Winton	95388	7/7/05	7/18/05	RT-PCR
Yellow-billed Magpie	Merced	Merced	95340	7/8/05	7/18/05	RT-PCR
Yellow-billed Magpie	Merced	Livingston	95334	7/10/05	7/18/05	RT-PCR
Yellow-billed Magpie	Merced	Merced	95340	7/10/05	7/18/05	RT-PCR
Yellow-billed Magpie	Merced	Atwater	95301	7/11/05	7/18/05	RT-PCR
Yellow-billed Magpie	Merced	Atwater	95301	7/11/05	7/18/05	RT-PCR
Yellow-billed Magpie	Merced	Delhi	95315	7/11/05	7/18/05	RT-PCR
Yellow-billed Magpie	Merced	Delhi	95315	7/11/05	7/18/05	RT-PCR
Yellow-billed Magpie	Merced	Delhi	95315	7/11/05	7/18/05	RT-PCR
Yellow-billed Magpie	Merced	Delhi	95315	7/8/05	7/18/05	RT-PCR
Yellow-billed Magpie	Nevada	Penn Valley	95946	6/28/05	7/18/05	RT-PCR
Yellow-billed Magpie	Placer	Lincoln	95648	7/6/05	7/18/05	RT-PCR
Yellow-billed Magpie	Placer	Roseville	95747	7/11/05	7/18/05	RT-PCR
Yellow-billed Magpie	Placer	Roseville	95678	7/11/05	7/18/05	RT-PCR
Yellow-billed Magpie	Sacramento	Sacramento	95825	7/6/05	7/18/05	RT-PCR
Yellow-billed Magpie	Sacramento	Sacramento	95814	7/10/05	7/18/05	RT-PCR
Yellow-billed Magpie	San Joaquin	Stockton	95215	7/5/05	7/18/05	RT-PCR
Yellow-billed Magpie	Stanislaus	Modesto	95356	7/6/05	7/18/05	RT-PCR
Yellow-billed Magpie	Stanislaus	Modesto	95351	7/8/05	7/18/05	RT-PCR
Yellow-billed Magpie	Stanislaus	Modesto	95358	7/10/05	7/18/05	RT-PCR
Yellow-billed Magpie	Stanislaus	Modesto	95350	7/11/05	7/18/05	RT-PCR
Yellow-billed Magpie	Sutter	Rio Oso	95674	7/11/05	7/18/05	RT-PCR

### National Comments:

As of July 19, 2005, West Nile virus (WNV) activity has been detected in 27 states. At this time in 2004, a total of 34 states, Puerto Rico, and New York City had published WNV activity. A total of 41 human WNV cases have been reported in 2005 from 15 states. At this time in 2004, 182 cases had been reported from 11 states. In 2005, of the 40 cases with available data, the median age is 45 years (range: 17-80 years) and 24 (60%) of the cases are male. Eleven (28%) of the cases are neuroinvasive. There has been one reported WNV-related fatality.

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## TEST PROTOCOLS

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### **Dead Birds:**

All bird species, except chickens, doves, and pigeons, from all zip codes are currently being accepted for testing unless otherwise requested by a local agency. Positive Vec-Tests from oral swabs from crows are no longer confirmed. Other bird species are tested by singleplex RT-PCR and confirmed with a second primer set.

Dead birds are necropsied at the California Animal Health and Food Safety (CAHFS) Laboratories and kidney tissue from the dead birds are forward to the UC Davis Center for Vectorborne Diseases (CVEC) for WNV using the PCR Taqman assay. 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) 412-6254.

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### **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), on specimens from sentinel chickens from geographic areas where WNV is detected for the first time. The VRDL also forwards selected serum to CVEC for additional testing for WNV, WEE, and SLE antibodies as needed.

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### **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.

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*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) 412-6252, FAX (510) 412-6263, or email [ahom@dhs.ca.gov].*