

California Arbovirus Surveillance Bulletin # 22

Week 28 Friday, July 15, 2005

Weekly Summary

Comments:

Humans:

As of July 15, 2005, 10 human West Nile virus (WNV) infections have been identified from the following local health jurisdictions: Fresno (1), Kern (1), Merced (1), Riverside (1), San Bernardino (1), and Tulare (5). Four of the 10 infections were initially detected in asymptomatic individuals through screening done at blood banks - three individuals later developed symptoms. Of the 9 WNV cases with symptoms, 2 are classified as West Nile neuroinvasive disease cases, and 7 are classified as West Nile fever. The median age for all cases where data is available is 47.5 years (range: 18-77 years). There have been no WNV-related fatalities to date in California this year.

Horses:

The California Department of Food & Agriculture reported eight new confirmed cases of WNV in Calaveras (1), Fresno (2), Kings (1), Riverside (2), and Tulare (2) counties. One of the horses in Fresno county was from Clovis where symptoms onset on 7/7/05. This horse was euthanized. These were the first WNV positive horses in Calaveras, Fresno, and Kings counties. The YTD total for the State is 15.

Dead Birds:

This week the hotline received 4,997 dead bird reports, for an YTD total of 35,992 reports. 99 out of 238 (41.6%) dead birds collected from 41 counties tested positive for WNV this week.

- Fifty-nine out of 190 (31.1%) dead birds tested positive via RT-PCR.
- Eight out of 10 (80.0%) corvids tested positive via VecTest.
- Ten out of 10 (100 %) corvids tested positive via RAMP.
- Twenty-two out of 28 (78.6%) dead birds tested positive via immunohistochemistry.

The WNV positive dead birds were collected from the following counties: Colusa, Fresno, Kern, Kings, Merced, Napa, Orange, San Bernardino, San Joaquin, Santa Barbara, Santa Clara, Sonoma, Stanislaus, Tulare, Tuolumne, and Yuba. **This is the first indication of WNV activity in Colusa, Napa, and Yuba counties in 2005.**

The following bird species tested positive for WNV: American crow (54); American robin (2); Brewer's blackbird (1); dark-eyed junco (1); European starling (1); goldfinch (1); house finch (2); house sparrow (1); red-tailed hawk (1); snowy egret (1); sparrow (1); Steller's jay (1); western bluebird (1); western scrub-jay (27); yellow-billed magpie (4). See "WNV Positive Dead Birds" table for details.

Since January 1, 2005, 456 of 4,063 (11.2%) dead birds have tested positive for WNV.

Mosquito Pools:

WNV: CVEC reported 96 WNV positive mosquito pools from the following counties: Fresno (5), Glenn (3), Kern (17), Los Angeles (17), Orange (15), Placer (1), Riverside (4), Sacramento (15), San Bernardino (2), Stanislaus (2), Sutter (9), Tulare (3), Yolo (1), and Yuba (2). **This is the first indication of WNV activity in Glenn county in 2005.** These were the first WNV positive mosquito pools in Glenn, Stanislaus and Yuba counties. The YTD total for the State is 235.

WEE: CVEC also reported 1 positive WEE pools in Kern county. This is the first indication for a WEE positive mosquito pool in Kern county. The YTD total for the State is 25.

California Arbovirus Surveillance Bulletin # 22

Week 28 Friday, July 15, 2005

Sentinel Chickens:

WNV: No WNV seroconversions were reported this week. Two local districts—Sacramento (2) and Placer (3) reported five chickens tested positive for antibodies toward flavivirus (SLE/WNV). The samples are being sent to VRDL for confirmation. The current YTD total stands at five seroconversions.

WEE: VRDL reported 14 WEE seroconversions in seven flocks from Imperial (13) and Riverside (1) counties. The current YTD stands at 37 seroconversions.

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.

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	61	0	8	0	0	0	0	0	0
	YTD	681	0	10	0	0	0	0	0	0
Horses Tested	Week	8	0	8	0	0	0	0	0	0
	YTD	213	0	15	0	0	0	0	0	0

Dead Birds

	Number Tested	WNV Positive
Week	238	99
YTD	4,063	456

Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Other Positive
Chicken sera	Week	1154*	0	14	0	0
	YTD	16415	5	37	0	0
Mosquito pools	Week	814	96	1	0	0
	YTD	10485	235	25	0	0

*Total has been adjusted to include local agency submission

Human Positives Reported

Virus	Date of Onset	Status	Diagnosis	County	Imported/Local
WNV	7/2/2005	Probable	West Nile Fever	San Bernardino	Local
WNV	6/12/2005	Probable	West Nile Fever	Kern	Local
WNV	6/26/2005	Probable	West Nile Neuroinvasive Disease	Tulare	Local
WNV	6/28/2005	Probable	West Nile Fever	Tulare	Local
WNV	7/5/2005	Probable	West Nile Fever	Tulare	Local
WNV	Unknown	Probable	West Nile Fever	Tulare	Local
WNV	7/6/2005	Probable	West Nile Fever	Fresno	Local
WNV	Not applicable	Probable	Asymptomatic Blood Donor	Merced	Local

California Arbovirus Surveillance Bulletin # 22

Week 28 Friday, July 15, 2005

Virus Isolations From Mosquito Pools:

Virus	Mosquito species	Date Collected	ACODE	Pool #	City	County	Date Received
WNV	Cx. tarsalis	7/6/05	CNSL	154	Sanger	Fresno	7/8/05
WNV	Cx. quinquefasciatus	7/6/05	CNSL	155	Sanger	Fresno	7/8/05
WNV	Cx. tarsalis	7/6/05	CNSL	156	Orange Cove	Fresno	7/8/05
WNV	Cx. quinquefasciatus	7/6/05	CNSL	157	Orange Cove	Fresno	7/8/05
WNV	Cx. tarsalis	7/6/05	CNSL	159	Riverdale	Fresno	7/8/05
WNV	Cx. quinquefasciatus	7/5/05	COAV	1970	Rancho Mirage	Riverside	7/13/05
WNV	Cx. quinquefasciatus	7/6/05	COAV	1983	Rancho Mirage	Riverside	7/13/05
WNV	Cx. quinquefasciatus	7/7/05	COAV	2002	Rancho Mirage	Riverside	7/13/05
WNV	Cx. quinquefasciatus	7/7/05	COAV	2005	Indio	Riverside	7/13/05
WNV	Cx. quinquefasciatus	7/12/05	DLTA	46	Visalia	Tulare	7/13/05
WNV	Cx. quinquefasciatus	7/12/05	DLTA	47	Visalia	Tulare	7/13/05
WNV	Cx. quinquefasciatus	7/13/05	DLTA	48	Visalia	Tulare	7/13/05
WNV	Cx. tarsalis	7/12/05	GLEN	3	Artois	Glenn	7/13/05
WNV	Cx. tarsalis	7/12/05	GLEN	12	Willows	Glenn	7/13/05
WNV	Cx. tarsalis	7/12/05	GLEN	22	Willows	Glenn	7/13/05
WNV	Cx. quinquefasciatus	6/29/05	GRLA	901	Long Beach	Los Angeles	7/13/05
WNV	Cx. quinquefasciatus	6/29/05	GRLA	906	Long Beach	Los Angeles	7/13/05
WNV	Cx. quinquefasciatus	6/30/05	GRLA	913	Long Beach	Los Angeles	7/13/05
WNV	Cx. tarsalis	6/30/05	GRLA	921	Long Beach	Los Angeles	7/13/05
WNV	Cx. quinquefasciatus	7/1/05	GRLA	924	Long Beach	Los Angeles	7/13/05
WNV	Cx. quinquefasciatus	7/5/05	GRLA	935	Long Beach	Los Angeles	7/13/05
WNV	Cx. quinquefasciatus	7/5/05	GRLA	936	Long Beach	Los Angeles	7/13/05
WNV	Cx. quinquefasciatus	7/5/05	GRLA	937	Long Beach	Los Angeles	7/13/05
WNV	Cx. tarsalis	7/5/05	GRLA	941	Long Beach	Los Angeles	7/13/05
WNV	Cx. quinquefasciatus	7/6/05	GRLA	953	Long Beach	Los Angeles	7/13/05
WNV	Cx. stigmatosoma	7/6/05	GRLA	954	Long Beach	Los Angeles	7/13/05
WNV	Cx. quinquefasciatus	7/7/05	GRLA	971	Long Beach	Los Angeles	7/13/05
WNV	Cx. quinquefasciatus	7/7/05	GRLA	975	Long Beach	Los Angeles	7/13/05
WNV	Cx. quinquefasciatus	7/6/05	GRLA	5583	Long Beach	Los Angeles	7/13/05
WNV	Cx. tarsalis	7/6/05	KERN	249	Bakersfield	Kern	7/13/05
WNV	Cx. tarsalis	7/6/05	KERN	254	Bakersfield	Kern	7/13/05
WNV	Cx. tarsalis	7/6/05	KERN	257	Bakersfield	Kern	7/13/05
WNV	Cx. tarsalis	7/6/05	KERN	258	Bakersfield	Kern	7/13/05
WNV	Cx. tarsalis	7/7/05	KERN	265	Bakersfield	Kern	7/13/05
WNV	Cx. tarsalis	7/7/05	KERN	266	Lamont	Kern	7/13/05
WNV	Cx. tarsalis	7/7/05	KERN	267	Lamont	Kern	7/13/05
WNV	Cx. quinquefasciatus	7/7/05	KERN	283	Shafter	Kern	7/13/05
WNV	Cx. quinquefasciatus	7/7/05	KERN	284	Shafter	Kern	7/13/05
WNV	Cx. quinquefasciatus	7/7/05	KERN	285	Wasco	Kern	7/13/05
WNV	Cx. tarsalis	7/6/05	KERN	5538	Lost Hills	Kern	7/13/05
WNV	Cx. tarsalis	7/6/05	KERN	5542	Lost Hills	Kern	7/13/05
WNV	Cx. tarsalis	7/6/05	KERN	5547	Lost Hills	Kern	7/13/05
WNV	Cx. tarsalis	7/6/05	KERN	5548	Lost Hills	Kern	7/13/05

California Arbovirus Surveillance Bulletin # 22

Week 28 Friday, July 15, 2005

WNV	Cx. tarsalis	7/6/05	KERN	5553	Buttonwillow	Kern	7/13/05
WNV	Cx. quinquefasciatus	7/6/05	KERN	5556	Buttonwillow	Kern	7/13/05
WNV	Cx. tarsalis	7/6/05	KERN	5559	Buttonwillow	Kern	7/13/05
WNV	Cx. quinquefasciatus	7/7/05	LONG	197	Long Beach	Los Angeles	7/7/05
WNV	Cx. quinquefasciatus	7/11/05	LONG	198	Long Beach City Hall	Los Angeles	7/13/05
WNV	Cx. quinquefasciatus	7/11/05	LONG	207	Long Beach	Los Angeles	7/13/05
WNV	Cx. quinquefasciatus	7/6/05	ORCO	2131	Huntington Beach	Orange	7/12/05
WNV	Cx. quinquefasciatus	7/6/05	ORCO	2141	Santa Ana	Orange	7/12/05
WNV	Cx. tarsalis	7/6/05	ORCO	2146	Cypress	Orange	7/12/05
WNV	Cx. quinquefasciatus	7/6/05	ORCO	2149	Anaheim	Orange	7/12/05
WNV	Cx. quinquefasciatus	7/6/05	ORCO	2150	Westminster	Orange	7/12/05
WNV	Cx. quinquefasciatus	7/6/05	ORCO	2151	Westminster	Orange	7/12/05
WNV	Cx. quinquefasciatus	7/6/05	ORCO	2165	La Habra	Orange	7/12/05
WNV	Cx. quinquefasciatus	7/6/05	ORCO	2177	Cypress	Orange	7/12/05
WNV	Cx. quinquefasciatus	7/6/05	ORCO	2181	Cypress	Orange	7/12/05
WNV	Cx. stigmatosoma	7/6/05	ORCO	2185	Cypress	Orange	7/12/05
WNV	Cx. stigmatosoma	7/6/05	ORCO	2186	Cypress	Orange	7/12/05
WNV	Cx. stigmatosoma	7/6/05	ORCO	2187	Cypress	Orange	7/12/05
WNV	Cx. quinquefasciatus	7/7/05	ORCO	2188	San Juan Capistrano	Orange	7/12/05
WNV	Cx. erythrothorax	7/7/05	ORCO	2190	Laguna Niguel	Orange	7/12/05
WNV	Cx. tarsalis	7/8/05	PLCR	38	Sheridan	Placer	7/12/05
WNV	Cx. quinquefasciatus	6/30/05	SANB	205	Ontario	San Bernardino	7/14/05
WNV	Cx. tarsalis	6/23/05	SANB	240	Redlands	San Bernardino	7/14/05
WNV	Cx. pipiens	7/8/05	SAYO	280	Sacramento	Sacramento	7/11/05
WNV	Cx. pipiens	7/8/05	SAYO	283	Rancho Cordova	Sacramento	7/11/05
WNV	Cx. pipiens	7/8/05	SAYO	306	Woodland	Yolo	7/11/05
WNV	Cx. tarsalis	7/12/05	SAYO	308	Hood	Sacramento	7/13/05
WNV	Cx. tarsalis	7/12/05	SAYO	316	Citrus Heights	Sacramento	7/13/05
WNV	Cx. pipiens	7/12/05	SAYO	317	Citrus Heights	Sacramento	7/13/05
WNV	Cx. pipiens	7/12/05	SAYO	318	Citrus Heights	Sacramento	7/13/05
WNV	Cx. tarsalis	7/12/05	SAYO	319	Citrus Heights	Sacramento	7/13/05
WNV	Cx. pipiens	7/12/05	SAYO	321	Citrus Heights	Sacramento	7/13/05
WNV	Cx. pipiens	7/12/05	SAYO	323	Citrus Heights	Sacramento	7/13/05
WNV	Cx. pipiens	7/12/05	SAYO	325	Citrus Heights	Sacramento	7/13/05
WNV	Cx. pipiens	7/12/05	SAYO	326	Citrus Heights	Sacramento	7/13/05
WNV	Cx. tarsalis	7/12/05	SAYO	328	Citrus Heights	Sacramento	7/13/05
WNV	Cx. pipiens	7/12/05	SAYO	334	La Riviera	Sacramento	7/13/05
WNV	Cx. pipiens	7/12/05	SAYO	336	La Riviera	Sacramento	7/13/05
WNV	Cx. pipiens	7/12/05	SAYO	340	La Riviera	Sacramento	7/13/05
WNV	Cx. tarsalis	7/7/05	SUYA	101	Tudor	Sutter	7/12/05
WNV	Cx. tarsalis	7/7/05	SUYA	105	Pennington	Sutter	7/12/05
WNV	Cx. tarsalis	7/7/05	SUYA	106	Pennington	Sutter	7/12/05
WNV	Cx. tarsalis	7/7/05	SUYA	108	Pleasant Grove	Sutter	7/12/05
WNV	Cx. tarsalis	7/7/05	SUYA	111	Pleasant Grove	Sutter	7/12/05
WNV	Cx. tarsalis	7/7/05	SUYA	112	Pleasant Grove	Sutter	7/12/05
WNV	Cx. tarsalis	7/11/05	SUYA	116	Tudor	Sutter	7/12/05

California Arbovirus Surveillance Bulletin # 22

Week 28 Friday, July 15, 2005

WNV	Cx. tarsalis	7/11/05	SUYA	117	Tudor	Sutter	7/12/05
WNV	Cx. tarsalis	7/11/05	SUYA	118	Sutter	Sutter	7/12/05
WNV	Cx. tarsalis	7/11/05	SUYA	127	Marysville	Yuba	7/12/05
WNV	Cx. tarsalis	7/11/05	SUYA	135	Linda	Yuba	7/12/05
WNV	Cx. tarsalis	7/5/05	TRLK	423	Crows Landing	Stanislaus	7/8/05
WNV	Cx. tarsalis	7/5/05	TRLK	436	Grayson	Stanislaus	7/8/05
WEE	Cx. tarsalis	7/6/05	KERN	5536	Lost Hills	Kern	7/13/05

Chicken Seroconversions Reported by DHS:

Virus	County	State	Acode	City	Location
WEE	Imperial	CA	IMPR0003	El Centro	Nichol's Flock
Band: 5834					Probable Seroconversion Date: 6-July-05
WEE	Imperial	CA	IMPR0013	Brawley	Brawley
Band: 5850					Probable Seroconversion Date: 6-July-05
WEE	Imperial	CA	IMPR0016	Holtville	Zenos's Site
Band: 5860					Probable Seroconversion Date: 6-July-05
****	WEE	Riverside	CA	COAV0114	North Shore Desert
Band: 8446					Probable Seroconversion Date: 16-June-05
****	WEE	Imperial	CA	COAV5001	Niland Wister
Band: 8568, 8572					Probable Seroconversion Date: 20-June-05
****	WEE	Imperial	CA	COAV5002	Niland Bono Wild Life Reserve
Band: 0736, 0737, 0742, 0744					Probable Seroconversion Date: 20-June-05
****	WEE	Imperial	CA	COAV5003	Westmoreland Westmoreland
Band: 0749, 0748, 0752, 0755					Probable Seroconversion Date: 20-June-05

WNV Positive Dead Birds Reported July 9- July 15, 2005

Species	County	City	Zip Code	Date Collected	Date Tested	Tested By
American Crow	Fresno	Fresno	93725	7/8/05	7/8/05	VecTest
American Crow	Fresno	Selma	93662	7/6/05	7/6/05	RAMP
American Crow	Kern	Bakersfield	93309	6/24/05	7/11/05	RT-PCR
American Crow	Kings	Hanford	93230	7/1/05	7/11/05	RT-PCR
American Crow	Merced	Livingston	95334	6/29/05	7/11/05	RT-PCR
American Crow	Orange	Fountain Valley	92708	6/24/05	6/24/05	IHC
American Crow	Orange	Huntington Beach	92646	6/24/05	6/24/05	IHC
American Crow	Orange	Irvine	92604	6/26/05	6/26/05	IHC
American Crow	Orange	Irvine		6/26/05	6/26/05	IHC
American Crow	Orange	Irvine	92612	6/27/05	6/27/05	IHC
American Crow	Orange	Fountain Valley	92708	6/28/05	6/28/05	IHC
American Crow	Orange	Irvine	92614	6/28/05	6/28/05	IHC
American Crow	Orange	Irvine	92606	6/28/05	6/28/05	IHC
American Crow	Orange	Orange	92865	6/29/05	6/29/05	IHC
American Crow	Orange	Fullerton	92832	6/29/05	6/29/05	IHC
American Crow	Orange	Villa Park	92861	6/29/05	6/29/05	IHC
American Crow	Orange	Newport Beach	92663	6/29/05	6/29/05	IHC

California Arbovirus Surveillance Bulletin # 22

Week 28 Friday, July 15, 2005

American Crow	Orange	Villa Park	92861	6/30/05	6/30/05	IHC
American Crow	Orange	Stanton	90680	6/30/05	6/30/05	IHC
American Crow	Orange	Costa Mesa	92626	6/30/05	6/30/05	IHC
American Crow	Orange	Huntington Beach	92647	6/9/05	6/9/05	IHC
American Crow	Orange	Irvine	92614	7/1/05	7/1/05	IHC
American Crow	Orange	Irvine	92620	7/1/05	7/1/05	IHC
American Crow	Orange	Anaheim	92804	7/1/05	7/1/05	IHC
American Crow	Orange	Huntington Beach	92648	7/1/05	7/1/05	IHC
American Crow	San Bernardino	Yucaipa	92399	7/1/05	7/1/05	VecTest
American Crow	San Bernardino	Yucaipa	92399	7/6/05	7/6/05	VecTest
American Crow	San Bernardino	Yucaipa	92399	7/7/05	7/7/05	VecTest
American Crow	San Bernardino	Redlands	92374	7/11/05	7/11/05	VecTest
American Crow	San Bernardino	Yucaipa	92399	7/11/05	7/11/05	VecTest
American Crow	San Bernardino	Yucaipa	92399	7/12/05	7/12/05	VecTest
American Crow	San Bernardino	Chino	91710	6/21/05	6/21/05	RAMP
American Crow	San Bernardino	Chino	91710	6/27/05	6/27/05	RAMP
American Crow	San Bernardino	Ontario	91764	6/30/05	6/30/05	RAMP
American Crow	San Bernardino	Ontario	91761	6/30/05	6/30/05	RAMP
American Crow	San Joaquin	Escalon	95320	7/5/05	7/5/05	RAMP
American Crow	Santa Barbara	Goleta	93117	7/5/05	7/11/05	RT-PCR
American Crow	Santa Barbara	Goleta	93117	7/5/05	7/11/05	RT-PCR
American Crow	Santa Clara	San Jose	95125	6/27/05	6/27/05	VecTest
American Crow	Stanislaus	Modesto	95355	6/30/05	7/11/05	RT-PCR
American Crow	Tulare	Visalia	93292	6/23/05	7/11/05	RT-PCR
American Crow	Tulare	Visalia	93277	6/28/05	7/11/05	RT-PCR
American Crow	Tulare	Visalia	93277	6/28/05	7/11/05	RT-PCR
American Crow	Tulare	Visalia	93291	6/29/05	7/11/05	RT-PCR
American Crow	Tulare	Visalia	93291	6/29/05	7/11/05	RT-PCR
American Crow	Tulare	Visalia	93277	6/29/05	7/11/05	RT-PCR
American Crow	Tulare	Visalia	93277	6/29/05	7/11/05	RT-PCR
American Crow	Tulare	Visalia	93277	6/29/05	7/11/05	RT-PCR
American Crow	Tulare	Visalia	93277	6/29/05	7/11/05	RT-PCR
American Crow	Tulare	Visalia	93277	6/29/05	7/11/05	RT-PCR
American Crow	Tulare	Visalia	93277	6/30/05	7/11/05	RT-PCR
American Crow	Tulare	Visalia	93291	6/30/05	7/11/05	RT-PCR
American Crow	Tulare	Visalia	93277	6/30/05	7/11/05	RT-PCR
American Crow	Tulare	Visalia	93277	7/1/05	7/11/05	RT-PCR
American Crow	Tulare	Visalia	93291	7/5/05	7/11/05	RT-PCR
American Crow	Yuba	Marysville	95901	6/29/05	7/11/05	RT-PCR
American Robin	Kings	Hanford	93230	7/1/05	7/11/05	RT-PCR
American Robin	Yuba	Marysville	95901	6/29/05	7/11/05	RT-PCR
Brewer's Blackbird	Kings	Hanford	93230	7/1/05	7/11/05	RT-PCR
Dark-eyed Junco	Sonoma	Geyserville	95441	6/27/05	7/11/05	RT-PCR
European starling	Orange	Seal Beach	90740	6/28/05	6/28/05	IHC
Goldfinch	Fresno	Fresno	93722	6/23/05	7/11/05	RT-PCR
House Finch	Merced	Atwater	95301	6/29/05	7/11/05	RT-PCR
House Finch	Santa Barbara	Goleta	93117	7/1/05	7/11/05	RT-PCR
House Sparrow	Tulare	Visalia	93292	6/29/05	7/11/05	RT-PCR
Red-Tailed Hawk	Orange	Costa Mesa	92626	6/30/05	6/30/05	IHC
Snowy Egret	Napa	Napa	94558	6/29/05	7/11/05	RT-PCR
Sparrow	Kings	Hanford	93230	6/26/05	7/11/05	RT-PCR

California Arbovirus Surveillance Bulletin # 22

Week 28 Friday, July 15, 2005

Steller's Jay	Tuolumne	Sonora	95370	6/28/05	7/11/05	RT-PCR
Western Bluebird	Fresno	Auberry	93602	6/28/05	7/11/05	RT-PCR
Western Scrub-Jay	Colusa	Colusa	95932	7/5/05	7/11/05	RT-PCR
Western Scrub-Jay	Colusa	Colusa	95932	7/5/05	7/11/05	RT-PCR
Western Scrub-Jay	Colusa	Colusa	95932	7/5/05	7/11/05	RT-PCR
Western Scrub-Jay	Fresno	Riverdale	93656	7/11/05	7/11/05	RAMP
Western Scrub-Jay	Fresno	Fresno	93706	7/10/05	7/10/05	RAMP
Western Scrub-Jay	Fresno	Fresno	93720	6/29/05	7/11/05	RT-PCR
Western Scrub-Jay	Kern	Bakersfield	93309	6/30/05	7/11/05	RT-PCR
Western Scrub-Jay	Kings	Armona	93202	6/22/05	7/11/05	RT-PCR
Western Scrub-Jay	Merced	Winton	95388	6/29/05	7/11/05	RT-PCR
Western Scrub-Jay	Merced	Atwater	95301	7/4/05	7/11/05	RT-PCR
Western Scrub-Jay	San Joaquin	Escalon	95320	7/6/05	7/6/05	RAMP
Western Scrub-Jay	Stanislaus	Modesto	95355	6/29/05	7/11/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93292	6/23/05	7/11/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93277	6/30/05	7/11/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93277	6/30/05	7/11/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93291	6/30/05	7/11/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93291	6/30/05	7/11/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93291	7/1/05	7/11/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93277	7/1/05	7/11/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93292	7/1/05	7/11/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93277	7/1/05	7/11/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93291	7/5/05	7/11/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93291	7/5/05	7/11/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93277	7/5/05	7/11/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93291	7/5/05	7/11/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93277	7/5/05	7/11/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93291	7/5/05	7/11/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93277	7/5/05	7/11/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93292	7/5/05	7/11/05	RT-PCR
Yellow-billed Magpie	Merced	Ballico	95303	6/29/05	7/11/05	RT-PCR
Yellow-billed Magpie	Merced	Ballico	95303	6/29/05	7/11/05	RT-PCR
Yellow-billed Magpie	Merced	Merced	95340	7/5/05	7/11/05	RT-PCR
Yellow-billed Magpie	San Joaquin	Stockton	95215-	7/5/05	7/5/05	RAMP

National Comments:

As of July 12, 2005, West Nile virus (WNV) activity has been detected in 26 states. At this time in 2004, a total of 34 states and Puerto Rico had published WNV activity. A total of 25 human WNV cases have been reported in 2005 from 11 states. At this time in 2004, 108 cases had been reported from 10 states. In 2005, of the 24 cases with available data, the median age is 45 years (range: 17-80 years) and 19 (79%) of the cases are male. Eight (33%) of the cases are neuroinvasive. There has been one reported WNV-related fatality.

California Arbovirus Surveillance Bulletin # 22

Week 28 Friday, July 15, 2005

TEST PROTOCOLS

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.

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.

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.

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].