

# California Arbovirus Surveillance Bulletin # 24

Week 30 Friday, July 29, 2005

## Weekly Summary

### Comments:

#### **Humans:**

As of July 29, 2005, 56 human West Nile virus (WNV) infections have been identified from the following local health jurisdictions: Butte (1), Fresno (2), Kern (6), Kings (10), Merced (1), Orange (1), Placer (1), Riverside (9), Sacramento (6), San Bernardino (1), Solano (1), Stanislaus (5), Sutter (1), and Tulare (11). Eleven of the 56 infections were initially detected in asymptomatic individuals through screening done at blood banks - four individuals later developed symptoms. Of the 49 WNV cases with symptoms, 16 are classified as West Nile neuroinvasive disease cases, 27 are classified as West Nile fever, and 6 are of unknown clinical presentation. The median age for all symptomatic cases where data is available is 49.5 years (range: 18-84 years). There have been two WNV-related fatalities to date in California this year, from Kings (1) and Riverside (1) counties.

#### **Horses:**

The California Department of Food & Agriculture reported 21 new confirmed cases of equine WNV in Fresno (6), Kern (1), Madera (1), Riverside (4), Sacramento (1), San Joaquin (1), Santa Barbara (1), Stanislaus (5), and Yuba (1) counties. These were the first WNV positive horses in Madera, San Joaquin, Santa Barbara, and Yuba counties. The YTD total for the State is 48.

#### **Dead Birds:**

This week the hotline received 9,111 dead bird reports, for a YTD total of 51,719 reports. 209 out of 412 (50.7%) dead birds collected from 43 counties tested positive for WNV this week.

- 168 out of 362 (46.4%) dead birds tested positive via RT-PCR.
- 19 out of 22 (86.4%) corvids tested positive via VecTest.
- 11 out of 11 (100 %) corvids tested positive via RAMP.
- 11 out of 17 (64.7%) dead birds tested positive via immunohistochemistry.

The WNV positive dead birds were collected from the following counties: Alameda (1); Butte (3); Colusa (1); Contra Costa (3); El Dorado (2); Fresno (11); Glenn (6); Kern (4); Kings (12); Los Angeles (4); Merced (15); Orange (11); Placer (14); Riverside (37); Sacramento (5); San Bernardino (9); San Joaquin (3); San Luis Obispo (1); Santa Barbara (10); Santa Clara (2); Siskiyou (1); Solano (3); Stanislaus (11); Sutter (2); Tehama (1); Tulare (28); Toulumne (2); Ventura (2); Yolo (4); and Yuba (1). **This is the first indication of WNV activity in Siskiyou County in 2005.**

The following bird species tested positive for WNV: acorn woodpecker (1); American crow (99); American kestrel (2); American robin (3); canary (2); common raven (1); house finch (11); house sparrow (2); lesser goldfinch (1); mallard (1); mourning dove (1); rock dove (1); sparrow (1); western scrub-jay (47); and yellow-billed magpie (36). See "WNV Positive Dead Birds" table for details.

Since January 1, 2005, 828 of 4,782 (17.3%) dead birds have tested positive for WNV.

#### **Mosquito Pools:**

WNV: CVEC reported 101 WNV positive mosquito pools from the following counties: Fresno (10), Kern (31), Lake (1), Los Angeles (8), Orange (7), Placer (1), Riverside (12), Sacramento (12), Santa Barbara (1), Solano (1), Stanislaus (1), Sutter (6), Tulare (9), and Yuba (1). The YTD total for the State is 487.

WEE: CVEC also reported one positive WEE pool in Kern county. This pool (KERN 303) also tested positive for WNV. The YTD for the State is 28.

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**Sentinel Chickens:** There are 54 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 five WEE seroconversions in two flocks from Riverside County. The current YTD stands at 61 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	72	0	35	0	0	0	0	0	0
	YTD	804	0	56	0	0	0	0	0	0
Horses Tested	Week	21	0	21	0	0	0	0	0	0
	YTD	208	0	48	0	0	0	0	0	0

### Dead Birds

	Number Tested	WNV Positive
Week	412	209
YTD	4,782	828

### Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Other Positive
	YTD	18496	5	61	0	0
Mosquito pools	Week	756	101	1	0	0
	YTD	12024	487	28	0	0

\*Total has been adjusted to include local agency submission

### Human Positives Reported (July 25 - July 29):

Virus	Date of Onset	Status	Diagnosis	County	Imported/Local
WNV	6/19/2005	Probable	West Nile Fever	Tulare	Local
WNV	7/5/2005	Probable	West Nile Neuroinvasive Disease	Riverside	Local
WNV	7/5/2005	Probable	West Nile Fever	Sacramento	Local
WNV	7/13/2005	Probable	West Nile Neuroinvasive Disease	Sacramento	Local
WNV	Unknown	Probable	West Nile Fever	Fresno	Local
WNV	7/10/2005	Probable	West Nile Fever	Kings	Local
WNV	7/11/2005	Probable	West Nile Fever	Kings	Local
WNV	7/11/2005	Probable	West Nile Fever	Kings	Local

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WNV	7/12/2005	Probable	West Nile Fever	Kings	Local
WNV	Unknown	Probable	West Nile Fever	Kings	Local
WNV	7/12/2005	Probable	West Nile Fever	Kings	Local
WNV	Unknown	Probable	West Nile Fever	Kings	Local
WNV	7/7/2005	Probable	West Nile Fever	Kern	Local
WNV	7/8/2005	Probable	West Nile Fever	Kern	Local
WNV	7/5/2005	Probable	West Nile Neuroinvasive Disease	Kern	Local
WNV	7/10/2005	Probable	West Nile Neuroinvasive Disease	Kern	Local
WNV	7/7/2005	Probable	West Nile Fever	Stanislaus	Local
WNV	7/12/2005	Probable	West Nile Neuroinvasive Disease	Stanislaus	Local
WNV	7/11/2005	Probable	West Nile Fever	Stanislaus	Local
WNV	7/5/2005	Probable	West Nile Fever	Orange	Local
WNV	7/12/2005	Probable	West Nile Neuroinvasive Disease	Solano	Local
WNV	n/a	Probable	Asymptomatic Blood Donor	Sacramento	Local
WNV	n/a	Probable	Asymptomatic Blood Donor	Sacramento	Local
WNV	n/a	Probable	Asymptomatic Blood Donor	Kern	Local
WNV	n/a	Probable	Asymptomatic Blood Donor	Stanislaus	Local

### Virus Isolations From Mosquito Pools:

Virus	Mosquito species	Date Collected	ACODE	Pool #	City	County	Date Received
WNV	Cx. tarsalis	7/20/05	CNSL	199	Orange Cove	Fresno	7/26/05
WNV	Cx. quinquefasciatus	7/20/05	CNSL	200	Orange Cove	Fresno	7/26/05
WNV	Cx. tarsalis	7/20/05	CNSL	201	Orange Cove	Fresno	7/26/05
WNV	Cx. quinquefasciatus	7/22/05	CNSL	205	Del Rey	Fresno	7/26/05
WNV	Cx. quinquefasciatus	7/22/05	CNSL	206	Del Rey	Fresno	7/26/05
WNV	Cx. quinquefasciatus	7/22/05	CNSL	207	Del Rey	Fresno	7/26/05
WNV	Cx. quinquefasciatus	7/26/05	CNSL	208	Sanger	Fresno	7/27/05
WNV	Cx. stigmatosoma	7/26/05	CNSL	211	Sanger	Fresno	7/27/05
WNV	Cx. quinquefasciatus	7/26/05	CNSL	212	Reedley	Fresno	7/27/05
WNV	Cx. quinquefasciatus	7/26/05	CNSL	217	Fresno St. Univ Administration	Fresno	7/27/05
WNV	Cx. quinquefasciatus	7/19/05	COAV	2082	Indian Wells	Riverside	7/27/05
WNV	Cx. quinquefasciatus	7/19/05	COAV	2083	Indian Wells	Riverside	7/27/05
WNV	Cx. quinquefasciatus	7/19/05	COAV	2085	Indian Wells	Riverside	7/27/05
WNV	Cx. quinquefasciatus	7/19/05	COAV	2086	Indian Wells	Riverside	7/27/05
WNV	Cx. quinquefasciatus	7/19/05	COAV	2091	Rancho Mirage	Riverside	7/27/05
WNV	Cx. quinquefasciatus	7/21/05	COAV	2099	Indian Wells	Riverside	7/27/05
WNV	Cx. quinquefasciatus	7/21/05	COAV	2100	Indian Wells	Riverside	7/27/05
WNV	Cx. quinquefasciatus	7/24/05	COAV	2116	Indian Wells	Riverside	7/27/05
WNV	Cx. quinquefasciatus	7/24/05	COAV	2117	Indian Wells	Riverside	7/27/05
WNV	Cx. quinquefasciatus	7/24/05	COAV	2118	Indian Wells	Riverside	7/27/05
WNV	Cx. quinquefasciatus	7/19/05	DLTA	49	Dinuba	Tulare	7/21/05
WNV	Cx. quinquefasciatus	7/19/05	DLTA	51	Dinuba	Tulare	7/21/05
WNV	Cx. quinquefasciatus	7/20/05	DLTA	55	Visalia	Tulare	7/21/05
WNV	Cx. quinquefasciatus	7/26/05	DLTA	58	Visalia	Tulare	7/27/05
WNV	Cx. quinquefasciatus	7/26/05	DLTA	59	Visalia	Tulare	7/27/05
WNV	Cx. quinquefasciatus	7/26/05	DLTA	60	Visalia	Tulare	7/27/05
WNV	Cx. quinquefasciatus	7/26/05	DLTA	62	Visalia	Tulare	7/27/05
WNV	Cx. quinquefasciatus	7/26/05	DLTA	66	Visalia	Tulare	7/27/05

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WNV	Cx. quinquefasciatus	7/26/05	DLTA	67	Visalia	Tulare	7/27/05
WNV	Cx. quinquefasciatus	7/18/05	GRLA	1075	Hawaiian Gardens	Los Angeles	7/27/05
WNV	Cx. quinquefasciatus	7/21/05	GRLA	1093	Long Beach	Los Angeles	7/27/05
WNV	Cx. tarsalis	7/21/05	GRLA	1094	Long Beach	Los Angeles	7/27/05
WNV	Cx. tarsalis	7/21/05	GRLA	1100	Long Beach	Los Angeles	7/27/05
WNV	Cx. quinquefasciatus	7/20/05	GRLA	5659	Los Angeles	Los Angeles	7/28/05
WNV	Cx. quinquefasciatus	7/24/05	GRLA	5679	Chatsworth	Los Angeles	7/28/05
WNV	Cx. quinquefasciatus	7/24/05	GRLA	5680	Chatsworth	Los Angeles	7/28/05
WNV	Cx. tarsalis	7/19/05	KERN	300	Bakersfield	Kern	7/27/05
WNV	Cx. tarsalis	7/19/05	KERN	302	Bakersfield	Kern	7/27/05
WNV	Cx. tarsalis	7/19/05	KERN	303	Bakersfield	Kern	7/27/05
WNV	Cx. tarsalis	7/19/05	KERN	304	Pumpkin Center	Kern	7/27/05
WNV	Cx. tarsalis	7/19/05	KERN	306	Bakersfield	Kern	7/27/05
WNV	Cx. tarsalis	7/20/05	KERN	310	Bakersfield	Kern	7/27/05
WNV	Cx. tarsalis	7/20/05	KERN	311	Arvin	Kern	7/27/05
WNV	Cx. tarsalis	7/20/05	KERN	314	Arvin	Kern	7/27/05
WNV	Cx. tarsalis	7/20/05	KERN	315	Arvin	Kern	7/27/05
WNV	Cx. tarsalis	7/20/05	KERN	319	Arvin	Kern	7/27/05
WNV	Cx. quinquefasciatus	7/20/05	KERN	322	Bakersfield	Kern	7/27/05
WNV	Cx. quinquefasciatus	7/20/05	KERN	323	Bakersfield	Kern	7/27/05
WNV	Cx. quinquefasciatus	7/20/05	KERN	324	Bakersfield	Kern	7/27/05
WNV	Cx. quinquefasciatus	7/20/05	KERN	325	Bakersfield	Kern	7/27/05
WNV	Cx. quinquefasciatus	7/22/05	KERN	327	Bakersfield	Kern	7/27/05
WNV	Cx. quinquefasciatus	7/22/05	KERN	328	Bakersfield	Kern	7/27/05
WNV	Cx. tarsalis	7/19/05	KERN	5624	Lost Hills	Kern	7/27/05
WNV	Cx. tarsalis	7/19/05	KERN	5627	Lost Hills	Kern	7/27/05
WNV	Cx. tarsalis	7/19/05	KERN	5634	Lost Hills	Kern	7/27/05
WNV	Cx. tarsalis	7/19/05	KERN	5635	Lost Hills	Kern	7/27/05
WNV	Cx. tarsalis	7/19/05	KERN	5636	Lost Hills	Kern	7/27/05
WNV	Cx. tarsalis	7/19/05	KERN	5637	Lost Hills	Kern	7/27/05
WNV	Cx. tarsalis	7/19/05	KERN	5638	Lost Hills	Kern	7/27/05
WNV	Cx. tarsalis	7/19/05	KERN	5639	Lost Hills	Kern	7/27/05
WNV	Cx. tarsalis	7/19/05	KERN	5640	Lost Hills	Kern	7/27/05
WNV	Cx. tarsalis	7/19/05	KERN	5644	Buttonwillow	Kern	7/27/05
WNV	Cx. tarsalis	7/19/05	KERN	5648	Buttonwillow	Kern	7/27/05
WNV	Cx. tarsalis	7/26/05	LAKE	104	Lower Lake	Lake	7/27/05
WNV	Cx. quinquefasciatus	7/25/05	LONG	238	Long Beach	Los Angeles	7/27/05
WNV	Cx. tarsalis	6/27/05	NWST	350	Corona	Riverside	7/28/05
WNV	Cx. tarsalis	7/6/05	NWST	370	Corona	Riverside	7/28/05
WNV	Cx. quinquefasciatus	7/19/05	ORCO	2348	Anaheim	Orange	7/26/05
WNV	Cx. quinquefasciatus	7/19/05	ORCO	2350	Anaheim	Orange	7/26/05
WNV	Cx. quinquefasciatus	7/19/05	ORCO	2368	San Clemente	Orange	7/26/05
WNV	Cx. quinquefasciatus	7/19/05	ORCO	2369	Fullerton	Orange	7/26/05
WNV	Cx. quinquefasciatus	7/19/05	ORCO	2372	Yorba Linda	Orange	7/26/05
WNV	Cx. quinquefasciatus	7/20/05	ORCO	2414	Anaheim	Orange	7/26/05
WNV	Cx. stigmatosoma	7/22/05	ORCO	2470	San Juan Capistrano	Orange	7/26/05

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WNV	Cx. pipiens	7/22/05	PLCR	63	Roseville	Placer	7/26/05
WNV	Cx. tarsalis	7/22/05	SAYO	417	Antelope	Sacramento	7/26/05
WNV	Cx. pipiens	7/22/05	SAYO	420	Citrus Heights	Sacramento	7/26/05
WNV	Cx. pipiens	7/22/05	SAYO	423	Citrus Heights	Sacramento	7/26/05
WNV	Cx. pipiens	7/22/05	SAYO	427	Galt	Sacramento	7/26/05
WNV	Cx. pipiens	7/21/05	SAYO	483	Citrus Heights	Sacramento	7/25/05
WNV	Cx. pipiens	7/26/05	SAYO	484	Fair Oaks	Sacramento	7/27/05
WNV	Cx. pipiens	7/26/05	SAYO	487	Fair Oaks	Sacramento	7/27/05
WNV	Cx. pipiens	7/26/05	SAYO	488	Orangevale	Sacramento	7/27/05
WNV	Cx. pipiens	7/26/05	SAYO	488	Orangevale	Sacramento	7/27/05
WNV	Cx. tarsalis	7/26/05	SAYO	490	Orangevale	Sacramento	7/27/05
WNV	Cx. tarsalis	7/26/05	SAYO	492	Elverta	Sacramento	7/27/05
WNV	Cx. pipiens	7/26/05	SAYO	494	Elverta	Sacramento	7/27/05
WNV	Cx. pipiens	7/26/05	SAYO	5088	Davis	Solano	7/27/05
WNV	Cx. tarsalis	7/21/05	SBCD	174	Goleta	Santa Barbara	7/26/05
WNV	Cx. tarsalis	7/19/05	SUYA	168	Trowbridge	Sutter	7/26/05
WNV	Cx. tarsalis	7/19/05	SUYA	171	Trowbridge	Sutter	7/26/05
WNV	Cx. tarsalis	7/25/05	SUYA	174	Sutter	Sutter	7/26/05
WNV	Cx. tarsalis	7/25/05	SUYA	178	Pleasant Grove	Sutter	7/26/05
WNV	Cx. tarsalis	7/25/05	SUYA	184	Hallwood	Yuba	7/26/05
WNV	Cx. tarsalis	7/26/05	SUYA	188	Tudor	Yuba	7/26/05
WNV	Cx. tarsalis	7/25/05	SUYA	190	Sutter	Sutter	7/26/05
WNV	Cx. pipiens	7/20/05	TRLK	517	Denair	Stanislaus	7/22/05
WNV	Cx. tarsalis	7/20/05	WEST	257	Tupman	Kern	7/28/05
WNV	Cx. quinquefasciatus	7/20/05	WEST	258	South Taft	Kern	7/28/05
WNV	Cx. tarsalis	7/21/05	WEST	259	Kern Water Bank	Kern	7/28/05
WNV	Cx. quinquefasciatus	7/23/05	WEST	261	South Taft	Kern	7/28/05
WEE	Cx. tarsalis	7/19/05	KERN	303	Bakersfield	Kern	7/27/05

### Chicken Seroconversions Reported by DHS:

Virus	County	State	Acode	City	Location
**** WEE	Riverside	CA	RIVR0006	Blythe	4 <sup>th</sup> Avenue
<b>Band:</b> 5258, 5259, 5260, 5265					<b>Probable Seroconversion Date:</b> 6-July-05
**** WEE	Riverside	CA	RIVR0008	Murrieta	Auld Rd
<b>Band:</b> 5253					<b>Probable Seroconversion Date:</b> 8-July-05
Flav. +	Imperial	CA	IMPR0002	Seeley	Campbell's Site
<b>Band:</b> 5837, 5840, 5845					<b>Probable Seroconversion Date:</b> 20-July-05
Flav. +	Los Angeles	CA	GRLA2056	Long Beach	El Dorado Park
<b>Band:</b> 7262, 7267					<b>Probable Seroconversion Date:</b> 18-July-05
Flav. +	Los Angeles	CA	LONG0004	Long Beach	Long Beach Marina Oil
<b>Band:</b> 6786					<b>Probable Seroconversion Date:</b> 18-July-05
Flav. +	Moab	UT	MOAB0002	Moab, UT	Riversands
<b>Band:</b> 936, 937					<b>Probable Seroconversion Date:</b> 20-July-05
Flav. +	Riverside	CA	COAV0131	Oasis	Jessup
<b>Band:</b> 8557, 8563					<b>Probable Seroconversion Date:</b> 18-July-05

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Flav. +	Riverside	CA	COAV0200	Mecca	Mecca	
						<b>Band:</b> 8984
						<b>Probable Seroconversion Date:</b> 18-July-05
Flav. +	Riverside	CA	COAV0204	Indio	York	
						<b>Band:</b> 731
						<b>Probable Seroconversion Date:</b> 18-July-05
Flav. +	Riverside	CA	COAV0208	Niland	Mesquite	
						<b>Band:</b> 763
						<b>Probable Seroconversion Date:</b> 18-July-05
Flav. +	Riverside	CA	NWST0004	Rubidoux	Rancho Jurupo	
						<b>Band:</b> 6200
						<b>Probable Seroconversion Date:</b> 19-July-05
Flav. +	Riverside	CA	NWST6666	Lake Elsinore	Lake Elsinore	
						<b>Band:</b> 6192
						<b>Probable Seroconversion Date:</b> 19-July-05
Flav. +	Riverside	CA	NWST9401	Corona	Corona Airport	
						<b>Band:</b> 6161
						<b>Probable Seroconversion Date:</b> 19-July-05
Flav. +	Riverside	CA	RIVR0002	Hemet	San Jacinto Wildlife Reserve	
						<b>Band:</b> 5224
						<b>Probable Seroconversion Date:</b> 20-July-05
Flav. +	Riverside	CA	RIVR0004	Beaumont	Cherry Valley Fire Station	
						<b>Band:</b> 5212
						<b>Probable Seroconversion Date:</b> 20-July-05
Flav. +	Riverside	CA	RIVR0008	Murrieta	Auld Rd	
						<b>Band:</b> 5249, 5269
						<b>Probable Seroconversion Date:</b> 20-July-05
Flav. +	San Bernardino	CA	SANB0002	Redlands	Treatment Plant	
						<b>Band:</b> 5013, 5016, 5020
						<b>Probable Seroconversion Date:</b> 19-July-05
Flav. +	San Bernardino	CA	SANB0003	Colton	Agua Mansa Flood Control	
						<b>Band:</b> 5025
						<b>Probable Seroconversion Date:</b> 18-July-05
Flav. +	San Bernardino	CA	SANB0006	Yucaipa	Yucaipa Regional Park	
						<b>Band:</b> 5042
						<b>Probable Seroconversion Date:</b> 18-July-05
Flav. +	San Bernardino	CA	WVAL0009	Rancho Cucamonga	Gerry	
						<b>Band:</b> 5719
						<b>Probable Seroconversion Date:</b> 18-July-05
Flav. +	Santa Barbara	CA	SBCO0001	Goleta	Goleta Sanitary District	
						<b>Band:</b> 5107
						<b>Probable Seroconversion Date:</b> 18-July-05
Flav. +	Solano	CA	SOLA0010	Vacaville	Hanson Ranch	
						<b>Band:</b> 409, 410, 411, 412, 415
						<b>Probable Seroconversion Date:</b> 23-July-05
Flav. +	Solano	CA	SOLA00125	Cordelia	F.R. Smith Equipment	
						<b>Band:</b> 426
						<b>Probable Seroconversion Date:</b> 23-July-05
Flav. +	Solano	CA	SOLA0224	Collinsville	Jean Anderson Ranch	
						<b>Band:</b> 432
						<b>Probable Seroconversion Date:</b> 23-July-05
Flav. +	Tulare	CA	DLTA4003	Woodlake	St. John's	
						<b>Band:</b> 4976
						<b>Probable Seroconversion Date:</b> 18-July-05
Flav. +	Tulare	CA	DLTA6005	Visalia	Delta VCD	
						<b>Band:</b> 4980, 4981, 4985, 4989
						<b>Probable Seroconversion Date:</b> 18-July-05
Flav. +	Tulare	CA	DLTA6008	Goshen	Joe Costa	
						<b>Band:</b> 670
						<b>Probable Seroconversion Date:</b> 18-July-05
Flav. +	Tulare	CA	TLRE0012	Tulare	Tulare MAD	
						<b>Band:</b> 539, 545
						<b>Probable Seroconversion Date:</b> 18-July-05
Flav. +	Sacramento	CA	SAYO7004	Natomas	Natomas	
						<b>Band:</b> 6008
						<b>Probable Seroconversion Date:</b> 26-July-05

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Flav. +	Sacramento	CA	SAYO7000	Elk Grove	Elk Grove
<b>Band:</b> 6021, 6023, 6027					<b>Probable Seroconversion Date:</b> 26-July-05
Flav. +	Sacramento	CA	SAYO7002	Hood	Hood
<b>Band:</b> 6032, 6033					<b>Probable Seroconversion Date:</b> 26-July-05
Flav. +	Sacramento	CA	SAYO6002	Merritt	Merritt
<b>Band:</b> 6066, 6069					<b>Probable Seroconversion Date:</b> 26-July-05
Flav. +	Sacramento	CA	SAYO7001	Galt	Galt
<b>Band:</b> 6041					<b>Probable Seroconversion Date:</b> 26-July-05
Flav. +	Yolo	CA	SAYO6003	Winters	Winters
<b>Band:</b> 6075, 6078					<b>Probable Seroconversion Date:</b> 26-July-05
Flav. +	Yolo	CA	SAYO6003	Knights Landing	Knights Landing
<b>Band:</b> 6085					<b>Probable Seroconversion Date:</b> 26-July-05

## WNV Positive Dead Birds Reported (July 23- July 29)

Species	County	City	Zip Code	Date Collected	Date Tested	Tested By
Acorn Woodpecker	San Luis Obispo	Cambria	93428	6/27/05	7/25/05	RT-PCR
American Crow	Fresno	Fresno	93704	7/22/05	7/22/05	RAMP
American Crow	Glenn	Willows	95988	7/13/05	7/25/05	RT-PCR
American Crow	Glenn	Willows	95988	7/14/05	7/25/05	RT-PCR
American Crow	Glenn	Willows	95988	7/15/05	7/25/05	RT-PCR
American Crow	Glenn	Willows	95988	7/18/05	7/25/05	RT-PCR
American Crow	Kings	Hanford	93230	7/19/05	7/19/05	RAMP
American Crow	Kings	Hanford	93230	7/18/05	7/25/05	RT-PCR
American Crow	Kings	Hanford	93230	7/19/05	7/25/05	RT-PCR
American Crow	Kings	Lemoore	93245	7/15/05	7/25/05	RT-PCR
American Crow	Kings	Lemoore	93245	7/17/05	7/25/05	RT-PCR
American Crow	Kings	Lemoore	93245	7/18/05	7/25/05	RT-PCR
American Crow	Los Angeles	Carson	90745	7/7/05	7/25/05	RT-PCR
American Crow	Los Angeles	Glendora	91741	7/20/05	7/25/05	RT-PCR
American Crow	Los Angeles	Long Beach	90808	7/14/05	7/25/05	RT-PCR
American Crow	Merced	Merced	95340	7/15/05	7/25/05	RT-PCR
American Crow	Orange	Rossmoor	90720	7/14/05	7/14/05	IHC
American Crow	Orange	Santa Ana		7/15/05	7/15/05	IHC
American Crow	Orange	Huntington Beach	92646	7/15/05	7/15/05	IHC
American Crow	Orange	Irvine	90621	7/15/05	7/15/05	IHC
American Crow	Orange	Irvine	92614	7/15/05	7/15/05	IHC
American Crow	Orange	San Clemente	92672	7/17/05	7/17/05	IHC
American Crow	Orange	Santa Ana	92706	7/22/05	7/22/05	IHC
American Crow	Orange	Huntington Beach	92648	06/07/05	06/07/05	IHC
American Crow	Orange	Costa Mesa	92627	06/04/05	06/04/05	IHC
American Crow	Placer	Roseville	95661	7/20/05	7/22/05	RT-PCR
American Crow	Riverside	Banning	92220	7/13/05	7/25/05	RT-PCR
American Crow	Riverside	Calimesa	92320	7/15/05	7/25/05	RT-PCR
American Crow	Riverside	Calimesa	92320	7/15/05	7/25/05	RT-PCR
American Crow	Riverside	Cherry Valley	92223	6/29/05	7/25/05	RT-PCR
American Crow	Riverside	Cherry Valley	92223	7/1/05	7/25/05	RT-PCR
American Crow	Riverside	Cherry Valley	92223	7/7/05	7/25/05	RT-PCR

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American Crow	Riverside	Cherry Valley	92223	7/7/05	7/25/05	RT-PCR
American Crow	Riverside	Cherry Valley	92223	7/10/05	7/25/05	RT-PCR
American Crow	Riverside	Cherry Valley	92223	7/13/05	7/25/05	RT-PCR
American Crow	Riverside	Hemet	92545	7/5/05	7/25/05	RT-PCR
American Crow	Riverside	Hemet	92545	7/7/05	7/25/05	RT-PCR
American Crow	Riverside	Hemet	92544	7/7/05	7/25/05	RT-PCR
American Crow	Riverside	Hemet	92544-	7/7/05	7/25/05	RT-PCR
American Crow	Riverside	Hemet	92545	7/14/05	7/25/05	RT-PCR
American Crow	Riverside	Hemet	92544	7/15/05	7/25/05	RT-PCR
American Crow	Riverside	Hemet	92545	7/15/05	7/25/05	RT-PCR
American Crow	Riverside	Hemet	92545	7/19/05	7/25/05	RT-PCR
American Crow	Riverside	Murrieta	92562	7/8/05	7/25/05	RT-PCR
American Crow	Riverside	Perris	92570	6/28/05	7/25/05	RT-PCR
American Crow	Riverside	Perris	92571	7/6/05	7/25/05	RT-PCR
American Crow	Riverside	Perris	92570	7/8/05	7/25/05	RT-PCR
American Crow	Riverside	Perris	92571	7/8/05	7/25/05	RT-PCR
American Crow	Riverside	Perris	92570	7/7/05	7/25/05	RT-PCR
American Crow	Riverside	Perris	92571	7/12/05	7/25/05	RT-PCR
American Crow	Riverside	Perris	92570	7/13/05	7/25/05	RT-PCR
American Crow	Riverside	Riverside	92507	7/11/05	7/25/05	RT-PCR
American Crow	Riverside	San Jacinto	92583	6/30/05	7/25/05	RT-PCR
American Crow	Riverside	San Jacinto	92582	7/11/05	7/25/05	RT-PCR
American Crow	Riverside	San Jacinto	92582	7/11/05	7/25/05	RT-PCR
American Crow	Riverside	Sun City	92586	6/29/05	7/25/05	RT-PCR
American Crow	Riverside	Sun City	92586	6/30/05	7/25/05	RT-PCR
American Crow	Riverside	Sun City	92586	7/6/05	7/25/05	RT-PCR
American Crow	Riverside	Sun City	92585	7/10/05	7/25/05	RT-PCR
American Crow	Riverside	Temecula	92592	7/7/05	7/25/05	RT-PCR
American Crow	Riverside	Temecula	92592	7/12/05	7/25/05	RT-PCR
American Crow	Sacramento	Elk Grove	95624	7/13/05	7/25/05	RT-PCR
American Crow	San Bernardino	Chino	91710	7/20/05	7/20/05	RAMP
American Crow	San Bernardino	Redlands	92374	7/11/05	7/25/05	RT-PCR
American Crow	San Bernardino	Yucaipa	92399	7/5/05	7/25/05	RT-PCR
American Crow	San Bernardino	Grand Terrace	92313	7/17/05	7/17/05	VecTest
American Crow	San Bernardino	Redlands	92374	7/19/05	7/19/05	VecTest
American Crow	San Bernardino	Yucaipa	92399	7/18/05	7/18/05	VecTest
American Crow	San Bernardino	Yucaipa	92399	7/20/05	7/20/05	VecTest
American Crow	Santa Barbara	Buelton	93427	7/12/05	7/25/05	RT-PCR
American Crow	Santa Barbara	Goleta	93117	7/7/05	7/25/05	RT-PCR
American Crow	Santa Barbara	Goleta	93117	7/18/05	7/25/05	RT-PCR
American Crow	Santa Barbara	Santa Barbara	93105	7/7/05	7/25/05	RT-PCR
American Crow	Santa Barbara	Santa Barbara	93111	7/6/05	7/25/05	RT-PCR
American Crow	Santa Barbara	Santa Barbara	93111	7/13/05	7/25/05	RT-PCR
American Crow	Santa Barbara	Santa Barbara	93105	7/15/05	7/25/05	RT-PCR
American Crow	Santa Barbara	Santa Barbara	93105	7/15/05	7/25/05	RT-PCR
American Crow	Santa Barbara	Santa Barbara	93110	7/15/05	7/25/05	RT-PCR
American Crow	Santa Clara	San Jose	95123	7/18/05	7/25/05	RT-PCR
American Crow	Santa Clara	San Jose	95136	7/19/05	7/19/05	VecTest
American Crow	Solano	Fairfield	94533	7/19/05	7/21/05	RT-PCR
American Crow	Stanislaus	Modesto	95355	7/15/05	7/25/05	RT-PCR

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American Crow	Stanislaus	Modesto	95357	7/19/05	7/25/05	RT-PCR
American Crow	Tulare	Visalia	93277	7/11/05	7/25/05	RT-PCR
American Crow	Tulare	Visalia	93277	7/13/05	7/25/05	RT-PCR
American Crow	Tulare	Visalia	93291	7/14/05	7/25/05	RT-PCR
American Crow	Tulare	Visalia	93292	7/15/05	7/25/05	RT-PCR
American Crow	Tulare	Visalia	93277	7/15/05	7/25/05	RT-PCR
American Crow	Tulare	Visalia	93277	7/17/05	7/25/05	RT-PCR
American Crow	Tulare	Visalia	93277	7/18/05	7/25/05	RT-PCR
American Crow	Tulare	Visalia	93277	7/18/05	7/25/05	RT-PCR
American Crow	Tulare	Visalia	93277	7/18/05	7/25/05	RT-PCR
American Crow	Tulare	Visalia	93291	7/19/05	7/25/05	RT-PCR
American Crow	Tulare	Visalia	93277	7/19/05	7/25/05	RT-PCR
American Crow	Ventura	Camarillo	93010	7/13/05	7/25/05	RT-PCR
American Crow	Ventura	Simi Valley	93065	7/8/05	7/25/05	RT-PCR
American Crow	Yolo	Davis	95616	7/17/05	7/25/05	RT-PCR
American Crow	Yolo	Davis	95616	7/17/05	7/25/05	RT-PCR
American Crow	Yolo	Davis	95616	7/17/05	7/25/05	RT-PCR
American Crow	Yolo	Davis	95616	7/21/05	7/25/05	RT-PCR
American Kestrel	Riverside	Hemet	92545	6/29/05	7/25/05	RT-PCR
American Kestrel	Sutter	Nicolaus	95659	7/12/05	7/25/05	RT-PCR
American Robin	Contra Costa	Danville	94526	7/17/05	7/25/05	RT-PCR
American Robin	Placer	Roseville	95747	7/12/05	7/25/05	RT-PCR
American Robin	Sacramento	Sacramento	95825	7/14/05	7/25/05	RT-PCR
Canary	Placer	Loomis	95650	7/11/05	7/25/05	RT-PCR
Canary	Tulare	Visalia	93277	7/14/05	7/25/05	RT-PCR
Canary	Tulare	Visalia	93277	7/14/05	7/25/05	RT-PCR
Common Raven	El Dorado	El Dorado Hills	95762	7/22/05	7/22/05	VecTest
House Finch	Alameda	Newark	94560	7/8/05	7/25/05	RT-PCR
House Finch	Contra Costa	Alamo	94507	7/8/05	7/25/05	RT-PCR
House Finch	Kern	Taft	93268	7/19/05	7/25/05	RT-PCR
House Finch	Kings	Hanford	93230	7/12/05	7/25/05	RT-PCR
House Finch	Orange	Fullerton	92833	7/14/05	7/14/05	IHC
House Finch	Orange	Anaheim	92807	06/07/05	06/07/05	IHC
House Finch	Riverside	Hemet	92545	7/13/05	7/25/05	RT-PCR
House Finch	San Bernardino	Yucaipa	92399	7/12/05	7/25/05	RT-PCR
House Finch	San Bernardino	Yucaipa	92399	7/18/05	7/25/05	RT-PCR
House Finch	Solano	Fairfield	94534	7/14/05	7/25/05	RT-PCR
House Finch	Tuolumne	Sonora	95370	7/11/05	7/25/05	RT-PCR
House Sparrow	Sacramento	Carmichael	95608	7/17/05	7/25/05	RT-PCR
House Sparrow	Tuolumne	Sonora	95370	7/11/05	7/25/05	RT-PCR
Lesser Goldfinch	El Dorado	Mount Aukum	95656	7/11/05	7/25/05	RT-PCR
Mallard	Colusa	Colusa	95932	7/15/05	7/25/05	RT-PCR
Mourning Dove	Siskiyou	Klamath River	96050	7/19/05	7/25/05	RT-PCR
Rock Dove	Los Angeles	Inglewood	90305	7/1/05	7/25/05	RT-PCR
Sparrow	Kings	Hanford	93230	7/15/05	7/25/05	RT-PCR
Western Scrub-Jay	Butte	Chico	95926	7/14/05	7/25/05	RT-PCR
Western Scrub-Jay	Contra Costa	Concord	94521	7/22/05	7/22/05	RAMP
Western Scrub-Jay	Fresno	Del Rey	93616	7/19/05	7/19/05	RAMP
Western Scrub-Jay	Fresno	Sanger	93657	7/20/05	7/20/05	RAMP
Western Scrub-Jay	Fresno	Parlier	93648	7/21/05	7/21/05	RAMP

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Western Scrub-Jay	Fresno	Fresno	93711	7/22/05	7/22/05	RAMP
Western Scrub-Jay	Fresno	Centerville	93657	07/11/05	07/25/05	RT-PCR
Western Scrub-Jay	Fresno	Fresno	93722	7/18/05	7/18/05	VecTest
Western Scrub-Jay	Fresno	Fresno	93722	7/20/05	7/20/05	VecTest
Western Scrub-Jay	Fresno	Fresno	93725	7/20/05	7/20/05	VecTest
Western Scrub-Jay	Fresno	Fresno	93722	7/20/05	7/20/05	VecTest
Western Scrub-Jay	Fresno	Fresno	93702	7/21/05	7/21/05	VecTest
Western Scrub-Jay	Glenn	Willows	95988	7/19/05	7/25/05	RT-PCR
Western Scrub-Jay	Kern	Bakersfield	93311	7/13/05	7/25/05	RT-PCR
Western Scrub-Jay	Kern	Bakersfield	93308	7/15/05	7/25/05	RT-PCR
Western Scrub-Jay	Kern	Bakersfield	93314	7/19/05	7/25/05	RT-PCR
Western Scrub-Jay	Kings	Corcoran	93212	7/19/05	7/25/05	RT-PCR
Western Scrub-Jay	Kings	Hanford	93230	7/18/05	7/25/05	RT-PCR
Western Scrub-Jay	Kings	Hanford	93230	7/18/05	7/25/05	RT-PCR
Western Scrub-Jay	Kings	Lemoore	93245	7/14/05	7/25/05	RT-PCR
Western Scrub-Jay	Merced	Atwater	95301	7/12/05	7/25/05	RT-PCR
Western Scrub-Jay	Placer	Roseville	95678	7/12/05	07/18/05	RT-PCR
Western Scrub-Jay	Placer	Roseville	95678	7/14/05	7/14/05	VecTest
Western Scrub-Jay	San Joaquin	Escalon	95320	7/21/05	7/21/05	RAMP
Western Scrub-Jay	San Joaquin	Stockton	95205	7/21/05	7/21/05	RAMP
Western Scrub-Jay	Santa Barbara	Goleta	93117	7/7/05	7/25/05	RT-PCR
Western Scrub-Jay	Stanislaus	Modesto	95350	7/15/05	7/25/05	RT-PCR
Western Scrub-Jay	Stanislaus	Oakdale	95361	7/14/05	7/25/05	RT-PCR
Western Scrub-Jay	Stanislaus	Denair	95316	7/20/05	7/20/05	VecTest
Western Scrub-Jay	Tehama	Corning	96021	7/18/05	7/25/05	RT-PCR
Western Scrub-Jay	Tulare	Tulare	93274	7/14/05	7/25/05	RT-PCR
Western Scrub-Jay	Tulare	Tulare	93274	7/15/05	7/25/05	RT-PCR
Western Scrub-Jay	Tulare	Tulare	93274	7/18/05	7/25/05	RT-PCR
Western Scrub-Jay	Tulare	Tulare	93274	7/19/05	7/25/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93277	7/6/05	7/25/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93277	7/8/05	7/25/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93291	7/8/05	7/25/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93277	7/8/05	7/25/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93277	7/11/05	7/20/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93277	7/12/05	7/25/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93277	7/13/05	7/25/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93292	7/13/05	7/25/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93277	7/14/05	7/25/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93277	7/14/05	7/25/05	RT-PCR
Western Scrub-Jay	Tulare	Visalia	93292	7/19/05	7/25/05	RT-PCR
Western Scrub-Jay	Yuba	Olivehurst	95961	7/13/05	7/25/05	RT-PCR
Yellow-billed Magpie	Butte	Biggs	95917	7/19/05	7/25/05	RT-PCR
Yellow-billed Magpie	Butte	Oroville	95965	7/14/05	7/25/05	RT-PCR
Yellow-billed Magpie	Glenn	Orland	95963	7/18/05	7/25/05	RT-PCR
Yellow-billed Magpie	Merced	Atwater	95301	7/12/05	7/25/05	RT-PCR
Yellow-billed Magpie	Merced	Atwater	95301	7/13/05	7/25/05	RT-PCR
Yellow-billed Magpie	Merced	Atwater	95301	7/13/05	7/25/05	RT-PCR
Yellow-billed Magpie	Merced	Atwater	95301	7/13/05	7/25/05	RT-PCR
Yellow-billed Magpie	Merced	Atwater	95301	7/13/05	7/25/05	RT-PCR
Yellow-billed Magpie	Merced	Atwater	95301	7/13/05	7/25/05	RT-PCR
Yellow-billed Magpie	Merced	Atwater	95301	7/15/05	7/25/05	RT-PCR

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Yellow-billed Magpie	Merced	Atwater	95301	7/18/05	7/25/05	RT-PCR
Yellow-billed Magpie	Merced	Atwater	95301	7/18/05	7/25/05	RT-PCR
Yellow-billed Magpie	Merced	Atwater	95301	7/18/05	7/25/05	RT-PCR
Yellow-billed Magpie	Merced	Delhi	95315	7/13/05	7/25/05	RT-PCR
Yellow-billed Magpie	Merced	Merced	95340	7/12/05	7/25/05	RT-PCR
Yellow-billed Magpie	Merced	Merced	95340	7/15/05	7/25/05	RT-PCR
Yellow-billed Magpie	Merced	Merced	95340	7/18/05	7/25/05	RT-PCR
Yellow-billed Magpie	Placer	Roseville	95661	7/12/05	7/25/05	RT-PCR
Yellow-billed Magpie	Placer	Roseville	95678	7/12/05	7/25/05	RT-PCR
Yellow-billed Magpie	Placer	Roseville	95678	7/13/05	7/25/05	RT-PCR
Yellow-billed Magpie	Placer	Roseville	95661	7/18/05	7/22/05	RT-PCR
Yellow-billed Magpie	Placer	Roseville	95661	7/18/05	7/22/05	RT-PCR
Yellow-billed Magpie	Placer	Roseville	95678	7/18/05	7/18/05	VecTest
Yellow-billed Magpie	Placer	Roseville	95661	7/19/05	7/19/05	VecTest
Yellow-billed Magpie	Placer	Roseville	95661	7/20/05	7/20/05	VecTest
Yellow-billed Magpie	Placer	Roseville	95661	7/18/05	7/18/05	VecTest
Yellow-billed Magpie	Sacramento	Sacramento	95815	7/13/05	7/25/05	RT-PCR
Yellow-billed Magpie	Sacramento	Sacramento	95815	7/13/05	7/25/05	RT-PCR
Yellow-billed Magpie	San Joaquin	Stockton	95205	7/20/05	7/20/05	RAMP
Yellow-billed Magpie	Solano	Vacaville	95687	7/18/05	7/25/05	RT-PCR
Yellow-billed Magpie	Stanislaus	Modesto	95358	7/12/05	7/25/05	RT-PCR
Yellow-billed Magpie	Stanislaus	Modesto	95357	7/17/05	7/25/05	RT-PCR
Yellow-billed Magpie	Stanislaus	Modesto	95357	7/17/05	7/25/05	RT-PCR
Yellow-billed Magpie	Stanislaus	Modesto	95350	7/19/05	7/25/05	RT-PCR
Yellow-billed Magpie	Stanislaus	Denair	95316	7/19/05	7/19/05	VecTest
Yellow-billed Magpie	Stanislaus	Hughson	95326	7/17/05	7/17/05	VecTest
Yellow-billed Magpie	Sutter	Rio Oso	95674	7/10/05	7/25/05	RT-PCR

### National Comments:

As of July 26, 2005, West Nile virus (WNV) activity has been detected in 35 states. At this time in 2004, a total of 36 states, Puerto Rico, and New York City had published WNV activity. A total of 61 human WNV cases have been reported in 2005 from 16 states. At this time in 2004, 265 cases had been reported from 17 states. In 2005, of the 53 cases with available data, the median age is 47 years (range: 17-80 years) and 28 (53%) of the cases are male. Sixteen (30%) of the cases are neuroinvasive. There have been two reported WNV-related fatalities.

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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 RAMP and Vec-Tests from oral swabs from corvids 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].*