

## California Arbovirus Surveillance Bulletin #20

Week 29 Friday, July 22, 2016



### Weekly Update

#### **Humans**

No human cases have been reported in 2016.

#### **Dead Birds**

This week, a total of 109 dead birds tested positive for West Nile virus (WNV) from the following 16 counties: Alameda (2), Butte (1), Los Angeles (1), Merced (3), Orange (1), Placer (2), Riverside (2), Sacramento (49), San Diego (18), San Joaquin (4), San Mateo (4), Santa Clara (9), Sutter (1), Ventura (1), Yolo (10), and Yuba (1). **These are the first WNV positive birds from Merced and Yuba Counties this year.** In 2016, 656 dead birds have tested positive for WNV from 25 counties, whereas at this time last year, 247 WNV positive birds had been reported from 31 counties.

#### **Mosquito Pools**

##### West Nile virus

A total of 263 WNV positive mosquito pools were reported this week from the following 23 counties: Butte (5), Contra Costa (1), Fresno (23), Glenn (11), Kern (6), Kings (6), Los Angeles (28), Madera (7), Merced (1), Napa (2), Orange (13), Placer (4), Riverside (2), Sacramento (30), San Bernardino (10), San Diego (4), San Joaquin (21), Santa Cruz (1), Stanislaus (13), Sutter (7), Tulare (44), Yolo (22), and Yuba (2). **This is the first detection of WNV activity in Glenn and Napa counties in 2016.** To date this year, 1,159 WNV positive mosquito pools have been reported from 28 counties, whereas at this time last year, 756 WNV positive mosquito pools had been reported from 26 counties.

##### St. Louis encephalitis virus

A total of 10 SLEV positive mosquito pools were reported this week from Kern County. To date this year, 46 SLEV positive mosquito pools have been reported from Kern (36) and Riverside (10) counties.

#### **Sentinel Chickens**

A total of 11 WNV seroconversions were reported this week from 5 flocks in 3 counties: Los Angeles (6), San Bernardino (2), and San Diego (3). **These are the first WNV positive chickens reported from San Bernardino County in 2016.** To date this year, 30 WNV seroconversions have been detected in 12 flocks located in 5 counties, whereas at this time last year, 43 WNV seroconversions had been detected in 15 flocks located in 8 counties.

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2015 & 2016 YTD West Nile Virus Comparisons		
	2015	2016
Total # Dead Bird Reports	5,865	5,459
# Positive Counties	35	32
# Human Cases	1	0
# Positive Dead Birds / # Tested	247 / 1,409	656 / 1,570
# Positive Mosquito Pools / # Tested	756 / 14,734	1,159 / 22,887
# Seroconversions / # Tested	43 / 6,640	30 / 4,775

YTD WNV Activity by Element and County, 2016				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		3		
Butte		2	13	
Contra Costa		4	2	
Fresno		3	87	
Glenn			11	
Kern			28	
Kings		3	42	
Lake		2	4	
Los Angeles		43	79	10
Madera		1	22	
Marin		2		
Merced		3	5	1
Napa			2	
Orange		13	32	
Placer		5	30	
Riverside		4	21	
Sacramento		282	243	
San Bernardino			39	2
San Diego		166	44	8
San Joaquin		18	105	
San Mateo		6		
Santa Clara		47	8	
Santa Cruz		1	2	
Shasta			1	
Solano		1	3	
Sonoma			1	
Stanislaus		4	61	
Sutter		6	40	9
Tulare			170	
Ventura		10		
Yolo		26	56	
Yuba		1	8	
<b>Totals</b>	<b>0</b>	<b>656</b>	<b>1,159</b>	<b>30</b>

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## TESTING SUMMARIES

### Humans

		WNV	SLE	WEE
Number of Cases Reported	Week	0	0	0
	YTD	0	0	0

### Dead Birds

		Total Tested	WNV Positive
Dead Birds	Week	153	109
	YTD	1,570	656

### Sentinel Chickens

		Total Tested	WNV +	SLEV +	WEEV +
Chicken Sera	Week	373	11	0	0
	YTD	4,775	30	0	0

### Mosquitoes

		Positive / Total Tested					
Mosquito Pools	Week	WNV	SLEV	WEEV	CHIK	DENV	ZIKA
		263 / 2,003	10 / 1,359	0 / 1,359	0 / 26	0 / 26	0 / 26
		1,159 / 22,887	46 / 13,822	0 / 13,822	0 / 113	0 / 113	0 / 113

## NEW POSITIVES

### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Alameda	94501	American Crow	7/19/2016	WNV
Alameda	Alameda Co MAD	Livermore	94551	American Crow	7/18/2016	WNV
Butte	Butte Co MVCD	Chico	95926	Unknown	7/18/2016	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	West Hills	91307	American Crow	7/18/2016	WNV
Merced	Merced Co MAD	Atwater	95301	Brewer's Blackbird	7/12/2016	WNV
Merced	Merced Co MAD	Turlock	95380	Swallow	7/18/2016	WNV
Merced	Merced Co MAD	Turlock	95380	Swallow	7/18/2016	WNV
Orange	Orange Co VCD	Trabuco Canyon	92679	Common Raven	7/13/2016	WNV
Placer	Placer MVCD	Roseville	95661	American Crow	7/18/2016	WNV
Placer	Placer MVCD	Roseville	95678	American Crow	7/19/2016	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	7/5/2016	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	7/8/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Antelope	95843	House Finch	7/15/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	House Finch	7/18/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	7/13/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	7/19/2016	WNV

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Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	House Finch	7/13/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Western Scrub-Jay	7/11/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Western Scrub-Jay	7/15/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Western Scrub-Jay	7/15/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95621	California Towhee	7/20/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Courtland	95615	American Robin	7/15/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Courtland	95615	Brewer's Blackbird	7/21/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	American Crow	7/18/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Elverta	95626	American Crow	7/11/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	American Crow	7/19/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	7/11/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	7/13/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	7/16/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	7/17/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	7/18/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	7/20/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Folsom	95630	Oak Titmouse	7/14/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Folsom	95630	Yellow-billed Magpie	7/14/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	American Crow	7/20/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Western Scrub-Jay	7/12/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Western Scrub-Jay	7/18/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95670	Western Scrub-Jay	7/15/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	American Crow	7/18/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95815	Western Scrub-Jay	7/13/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95815	Yellow-billed Magpie	7/14/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95819	American Crow	7/16/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	House Finch	7/16/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Western Scrub-Jay	7/11/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Western Scrub-Jay	7/16/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95823	House Finch	7/18/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95824	Northern Mockingbird	7/21/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	American Crow	7/12/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	American Crow	7/14/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	Western Scrub-Jay	7/18/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	7/17/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	7/18/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95834	American Kestrel	7/13/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95835	House Finch	7/20/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95835	Western Scrub-Jay	7/15/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95835	Western Scrub-Jay	7/16/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95835	Western Scrub-Jay	7/18/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95841	American Crow	7/12/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	7/11/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Western Scrub-Jay	7/17/2016	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Western Scrub-Jay	7/18/2016	WNV
San Diego	San Diego Co VCP	Carlsbad	92001	American Crow	7/18/2016	WNV
San Diego	San Diego Co VCP	Carlsbad	92008	American Crow	7/18/2016	WNV
San Diego	San Diego Co VCP	Carlsbad	92009	American Crow	7/21/2016	WNV
San Diego	San Diego Co VCP	Chula Vista	91913	American Crow	7/18/2016	WNV
San Diego	San Diego Co VCP	El Cajon	92019	American Crow	7/18/2016	WNV

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San Diego	San Diego Co VCP	Encinitas	92024	American Crow	7/18/2016	WNV
San Diego	San Diego Co VCP	Escondido	92026	American Crow	7/18/2016	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	7/20/2016	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	7/20/2016	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	7/20/2016	WNV
San Diego	San Diego Co VCP	Escondido	92027	American Crow	7/21/2016	WNV
San Diego	San Diego Co VCP	Po	92064	American Crow	7/20/2016	WNV
San Diego	San Diego Co VCP	San Diego	92109	American Crow	7/18/2016	WNV
San Diego	San Diego Co VCP	San Diego	92116	American Crow	7/18/2016	WNV
San Diego	San Diego Co VCP	San Diego	92124	American Crow	7/18/2016	WNV
San Diego	San Diego Co VCP	Solana Beach	92075	American Crow	7/18/2016	WNV
San Diego	San Diego Co VCP	Vista	92083	American Crow	7/21/2016	WNV
San Diego	San Diego Co VCP	Vista	92084	American Crow	7/18/2016	WNV
San Joaquin	San Joaquin Co MVCD	Acampo	95220	American Crow	7/14/2016	WNV
San Joaquin	San Joaquin Co MVCD	Lodi	95240	American Crow	7/13/2016	WNV
San Joaquin	San Joaquin Co MVCD	Lodi	95242	Western Scrub-Jay	7/17/2016	WNV
San Joaquin	San Joaquin Co MVCD	Manteca	95336	Western Scrub-Jay	7/20/2016	WNV
San Mateo	San Mateo Co MAD	Atherton	94027	House Finch	7/15/2016	WNV
San Mateo	San Mateo Co MAD	Portola Valley	94028	Common Raven	7/12/2016	WNV
San Mateo	San Mateo Co MAD	Redwood City	94061	American Crow	7/12/2016	WNV
San Mateo	San Mateo Co MAD	Redwood City	94061	American Crow	7/13/2016	WNV
Santa Clara	Santa Clara Co VCD	Milpitas	95035	American Crow	7/19/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	5314	American Crow	7/20/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95112	American Crow	7/19/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95118	American Crow	7/17/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	7/20/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	7/18/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	7/20/2016	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95136	American Crow	7/21/2016	WNV
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	7/14/2016	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95993	Unknown	7/15/2016	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93065	Common Raven	7/10/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	7/17/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	7/20/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	7/20/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	7/16/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	7/19/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	House Finch	7/19/2016	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Western Scrub-Jay	7/14/2016	WNV
Yolo	Sacramento-Yolo MVCD	West Sacramento	95691	Western Scrub-Jay	7/17/2016	WNV
Yolo	Sacramento-Yolo MVCD	Winters	95694	Northern Mockingbird	7/20/2016	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95776	American Crow	7/15/2016	WNV
Yuba	Sutter-Yuba MVCD	Marysville	95901	Western Scrub-Jay	7/12/2016	WNV

### Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO121	177	Cx. tarsalis	Biggs	50	CO2	7/18/2016	WNV
Butte	BUCO121	179	Cx. tarsalis	Biggs	50	CO2	7/18/2016	WNV
Butte	BUCO34	160	Cx. tarsalis	Richvale	50	CO2	7/13/2016	WNV

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Butte	BUCO49	171	Cx. tarsalis	Biggs	50	CO2	7/18/2016	WNV
Butte	BUCO84	175	Cx. tarsalis	Nelson	50	CO2	7/18/2016	WNV
Contra Costa	CNTR9223	275	Cx. tarsalis	Antioch	13	CO2	7/18/2016	WNV
Fresno	CNSL1002	276	Cx. quinquefasciatus	Fresno	49	GRVD	7/13/2016	WNV
Fresno	CNSL1034	292	Cx. quinquefasciatus	Fresno	41	GRVD	7/20/2016	WNV
Fresno	CNSL1165	286	Cx. quinquefasciatus	Fresno	34	GRVD	7/19/2016	WNV
Fresno	CNSL1335	284	Cx. quinquefasciatus	Fresno	50	GRVD	7/15/2016	WNV
Fresno	CNSL1862	289	Cx. quinquefasciatus	Clovis	24	GRVD	7/19/2016	WNV
Fresno	CNSL1929	291	Cx. quinquefasciatus	Clovis	50	GRVD	7/20/2016	WNV
Fresno	CNSL1999	290	Cx. quinquefasciatus	Clovis	50	GRVD	7/20/2016	WNV
Fresno	CNSL2230	285	Cx. quinquefasciatus	Sanger	32	GRVD	7/15/2016	WNV
Fresno	CNSL5133	273	Cx. quinquefasciatus	Kingsburg	50	GRVD	7/13/2016	WNV
Fresno	CNSL6116	280	Cx. quinquefasciatus	Laton	50	GRVD	7/14/2016	WNV
Fresno	CNSL9087	282	Cx. quinquefasciatus	Clovis	50	CO2	7/14/2016	WNV
Fresno	FRNO111	96	Cx. quinquefasciatus		34	GRVD	7/19/2016	WNV
Fresno	FRNO80	94	Cx. quinquefasciatus		50	GRVD	7/19/2016	WNV
Fresno	FRNO80	95	Cx. quinquefasciatus		26	GRVD	7/19/2016	WNV
Fresno	FRWS1202	124	Cx. tarsalis	Dos Palos	50	CO2	7/19/2016	WNV
Fresno	FRWS2105	125	Cx. tarsalis	Dos Palos	50	CO2	7/19/16	WNV
Fresno	FRWS300011	121	Cx. tarsalis	Firebaugh	38	OTHER	7/19/2016	WNV
Fresno	FRWS3104	122	Cx. quinquefasciatus	Firebaugh	26	GRVD	7/19/2016	WNV
Fresno	FRWS400031	111	Cx. tarsalis		50	CO2	7/14/2016	WNV
Fresno	FRWS400037	113	Cx. tarsalis		50	CO2	7/14/2016	WNV
Fresno	FRWS500003	119	Cx. tarsalis	Mendota	50	CO2	7/15/2016	WNV
Fresno	FRWS60010	108	Cx. tarsalis		50	CO2	7/14/2016	WNV
Fresno	FRWS60010	109	Cx. tarsalis		50	CO2	7/14/2016	WNV
Glenn	GLEN822	24	Cx. tarsalis	Orland	50	CO2	7/20/16	WNV
Glenn	GLEN825	26	Cx. tarsalis	Hamilton City	50	CO2	7/20/2016	WNV
Glenn	GLEN825	27	Cx. tarsalis	Hamilton City	50	CO2	7/20/16	WNV
Glenn	GLEN825	29	Cx. tarsalis	Hamilton City	50	CO2	7/20/16	WNV
Glenn	GLEN827	36	Cx. tarsalis	Glenn	50	CO2	7/20/16	WNV
Glenn	GLEN827	37	Cx. tarsalis	Glenn	50	CO2	7/20/2016	WNV
Glenn	GLEN828	20	Cx. tarsalis	Butte City	50	CO2	7/20/2016	WNV
Glenn	GLEN828	22	Cx. tarsalis	Butte City	50	CO2	7/20/16	WNV
Glenn	GLEN9703	4	Cx. tarsalis	Willows	50	CO2	7/20/16	WNV
Glenn	GLEN9705	10	Cx. tarsalis	Sacramento Wildlife	50	CO2	7/20/16	WNV
Glenn	GLEN9706	7	Cx. tarsalis	Willows	50	CO2	7/20/16	WNV
Kern	DLNO55	99	Cx. quinquefasciatus	McFarland	50	GRVD	7/15/2016	WNV
Kern	KERN118	338	Cx. tarsalis	Buttonwillow	50	CO2	7/13/2016	SLEV
Kern	KERN118	338	Cx. tarsalis	Buttonwillow	50	CO2	7/13/16	WNV
Kern	KERN2016	337	Cx. quinquefasciatus	Bakersfield	38	GRVD	7/13/2016	SLEV
Kern	KERN2040	327	Cx. quinquefasciatus	Arvin	33	GRVD	7/12/16	WNV
Kern	KERN3031	342	Cx. quinquefasciatus	Shafter	50	CO2	7/14/2016	WNV
Kern	KERN3041	344	Cx. quinquefasciatus	Bakersfield	25	CO2	7/15/2016	SLEV
Kern	KERN3043	343	Cx. tarsalis	Bakersfield	25	CO2	7/15/2016	SLEV
Kern	KERN3043	343	Cx. tarsalis	Bakersfield	25	CO2	7/15/2016	WNV
Kern	KERN32	345	Cx. quinquefasciatus	Arvin	50	CO2	7/15/2016	SLEV
Kern	KERN83	330	Cx. tarsalis	Arvin	38	CO2	7/12/2016	WNV
Kern	WEST6228	12	Cx. tarsalis	Bakersfield	50	CO2	7/20/2016	SLEV
Kern	WEST6228	13	Cx. tarsalis	Bakersfield	50	CO2	7/20/2016	SLEV
Kern	WEST6228	14	Cx. tarsalis	Bakersfield	50	CO2	7/20/2016	SLEV
Kern	WEST6230	7	Cx. tarsalis	Bakersfield	50	CO2	7/20/2016	SLEV
Kern	WEST6247	17	Cx. tarsalis	Bakersfield	50	CO2	7/20/2016	SLEV

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Kings	KNGS4001	220	Cx. tarsalis	Hanford	18	CO2	7/15/16	WNV
Kings	KNGS4001	221	Cx. pipiens	Hanford	23	CO2	7/15/16	WNV
Kings	KNGS4408	190	Cx. tarsalis	Lemoore	15	BGSENT	7/12/16	WNV
Kings	KNGS55012	217	Cx. pipiens	Hanford	18	BGSENT	7/15/16	WNV
Kings	KNGS55091	215	Cx. pipiens	Hanford	12	BGSENT	7/14/16	WNV
Kings	KNGS5511	216	Cx. pipiens	Hanford	20	BGSENT	7/15/16	WNV
Los Angeles	GRLA2023	5479	Cx. quinquefasciatus	Reseda	43	GRVD	7/14/16	WNV
Los Angeles	GRLA2031	5481	Cx. quinquefasciatus	Northridge	50	GRVD	7/14/2016	WNV
Los Angeles	GRLA2032	5480	Cx. quinquefasciatus	Northridge	50	GRVD	7/14/2016	WNV
Los Angeles	GRLA2194	478	Cx. quinquefasciatus	South El Monte	50	GRVD	7/13/16	WNV
Los Angeles	GRLA2228	484	Cx. quinquefasciatus	Diamond Bar	41	GRVD	7/13/2016	WNV
Los Angeles	GRLA2270	501	Cx. quinquefasciatus	Bellflower	17	GRVD	7/14/16	WNV
Los Angeles	GRLA2312	505	Cx. quinquefasciatus	San Pedro	22	GRVD	7/15/16	WNV
Los Angeles	GRLA2476	5487	Cx. quinquefasciatus	Sunland	23	GRVD	7/15/16	WNV
Los Angeles	GRLA2478	5491	Cx. quinquefasciatus	Sunland	50	GRVD	7/15/16	WNV
Los Angeles	GRLA2539	5483	Cx. quinquefasciatus	Northridge	32	GRVD	7/14/16	WNV
Los Angeles	GRLA2540	5482	Cx. quinquefasciatus	Porter Ranch	50	GRVD	7/14/16	WNV
Los Angeles	GRLA2547	5486	Cx. quinquefasciatus	Sylmar	36	GRVD	7/15/16	WNV
Los Angeles	GRLA2550	5492	Cx. quinquefasciatus	Mission Hills	50	GRVD	7/15/16	WNV
Los Angeles	GRLA2555	5475	Cx. quinquefasciatus	Encino	50	GRVD	7/14/2016	WNV
Los Angeles	GRLA2592	5456	Cx. quinquefasciatus	San Marino	38	GRVD	7/13/2016	WNV
Los Angeles	GRLA2635	5474	Cx. quinquefasciatus	Van Nuys	50	GRVD	7/14/16	WNV
Los Angeles	GRLA2636	5473	Cx. quinquefasciatus	Van Nuys	50	GRVD	7/14/16	WNV
Los Angeles	GRLA2889	515	Cx. quinquefasciatus	Lakewood	50	GRVD	7/15/16	WNV
Los Angeles	GRLA2950	5489	Cx. quinquefasciatus	Sunland	50	GRVD	7/15/16	WNV
Los Angeles	GRLA3000	5490	Cx. quinquefasciatus	Sun Valley	50	GRVD	7/15/16	WNV
Los Angeles	GRLA3038	5467	Cx. quinquefasciatus	Valley Village	49	GRVD	7/13/16	WNV
Los Angeles	GRLA3045	490	Cx. quinquefasciatus	Whittier	16	GRVD	7/13/16	WNV
Los Angeles	GRLA3046	502	Cx. quinquefasciatus	Bellflower	47	GRVD	7/14/16	WNV
Los Angeles	GRLA3053	488	Cx. quinquefasciatus	Hacienda Heights	38	GRVD	7/13/2016	WNV
Los Angeles	GRLA3056	497	Cx. quinquefasciatus	Cudahy	50	GRVD	7/14/16	WNV
Los Angeles	GRLA3069	5468	Cx. quinquefasciatus	Valley Village	50	GRVD	7/13/16	WNV
Los Angeles	GRLA3102	5466	Cx. quinquefasciatus	Studio City	50	GRVD	7/13/16	WNV
Los Angeles	GRLA3133	5485	Cx. quinquefasciatus	San Fernando	50	GRVD	7/15/16	WNV
Madera	MADR12	176	Cx. quinquefasciatus	Madera	39	CO2	7/13/2016	WNV
Madera	MADR195	177	Cx. quinquefasciatus	Madera	50	CO2	7/13/2016	WNV
Madera	MADR195	178	Cx. tarsalis	Madera	22	CO2	7/13/16	WNV
Madera	MADR204	180	Cx. quinquefasciatus	Madera	30	CO2	7/13/16	WNV
Madera	MADR208	181	Cx. quinquefasciatus	Madera	24	CO2	7/14/16	WNV
Madera	MADR299	182	Cx. quinquefasciatus	Chowchilla	50	CO2	7/19/16	WNV
Madera	MADR3334	179	Cx. quinquefasciatus	Madera	50	CO2	7/13/2016	WNV
Merced	MERC1104	194	Cx. tarsalis	Delhi	4	CO2	7/21/16	WNV
Napa	NAPA2833	39	Cx. pipiens	American Canyon	50	CO2	7/7/16	WNV
Napa	NAPA2833	48	Cx. pipiens	American Canyon	50	CO2	7/13/2016	WNV
Orange	ORCO1011	2008	Cx. quinquefasciatus	La Habra	30	GRVD	7/12/16	WNV
Orange	ORCO1011	2067	Cx. quinquefasciatus	La Habra	45	GRVD	7/13/2016	WNV
Orange	ORCO1011	2124	Cx. quinquefasciatus	La Habra	16	GRVD	7/19/2016	WNV
Orange	ORCO1011	2145	Cx. quinquefasciatus	La Habra	46	GRVD	7/19/16	WNV
Orange	ORCO1011	2169	Cx. quinquefasciatus	La Habra	30	GRVD	7/19/2016	WNV
Orange	ORCO1027	2151	Cx. quinquefasciatus	La Palma	50	GRVD	7/19/16	WNV
Orange	ORCO1033	2119	Cx. quinquefasciatus	Tustin	42	GRVD	7/19/16	WNV
Orange	ORCO1040	2149	Cx. quinquefasciatus	Orange	50	GRVD	7/19/2016	WNV
Orange	ORCO198	2157	Cx. quinquefasciatus	La Habra	50	GRVD	7/19/2016	WNV
Orange	ORCO198	2158	Cx. quinquefasciatus	La Habra	50	GRVD	7/19/16	WNV

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Orange	ORCO216	2036	Cx. quinquefasciatus	Orange	10	CO2	7/13/2016	WNV
Orange	ORCO236	2020	Cx. quinquefasciatus	Garden Grove	50	GRVD	7/13/16	WNV
Orange	ORCO55	2055	Cx. quinquefasciatus	Mission Viejo	31	GRVD	7/13/16	WNV
Placer	PLCR1113	1186	Cx. tarsalis	Pleasant Grove	50	CO2	7/19/16	WNV
Placer	PLCR17	1150	Cx. tarsalis	Sheridan	50	CO2	7/19/16	WNV
Placer	PLCR17	1151	Cx. tarsalis	Sheridan	50	CO2	7/19/16	WNV
Placer	PLCR668	1165	Cx. tarsalis	Elverta	50	CO2	7/19/16	WNV
Riverside	NWST43	133	Cx. tarsalis	Corona	50	CO2	7/13/16	WNV
Riverside	RIVR27	370	Cx. erythrothorax	San Jacinto	50	CO2	7/13/16	WNV
Sacramento	SAYO201009	3696	Cx. tarsalis	Sacramento	50	CO2	7/21/16	WNV
Sacramento	SAYO201009	3697	Cx. tarsalis	Sacramento	50	CO2	7/21/16	WNV
Sacramento	SAYO202006	3703	Cx. tarsalis	Sacramento	50	CO2	7/21/16	WNV
Sacramento	SAYO202006	3704	Cx. tarsalis	Sacramento	50	CO2	7/21/16	WNV
Sacramento	SAYO202006	3705	Cx. tarsalis	Sacramento	50	CO2	7/21/16	WNV
Sacramento	SAYO202006	3706	Cx. tarsalis	Sacramento	50	CO2	7/21/16	WNV
Sacramento	SAYO202006	3708	Cx. pipiens	Sacramento	9	GRVD	7/21/16	WNV
Sacramento	SAYO203008	3710	Cx. tarsalis	Elverta	3	GRVD	7/21/16	WNV
Sacramento	SAYO205029	3761	Cx. pipiens	Orangevale	18	GRVD	7/21/16	WNV
Sacramento	SAYO213046	3729	Cx. tarsalis	Sacramento	3	CO2	7/21/16	WNV
Sacramento	SAYO213048	3728	Cx. pipiens	Sacramento	5	GRVD	7/21/16	WNV
Sacramento	SAYO214013	3739	Cx. pipiens	Carmichael	12	GRVD	7/21/16	WNV
Sacramento	SAYO214020	3764	Cx. pipiens	Rancho Cordova	25	GRVD	7/21/16	WNV
Sacramento	SAYO223006	3612	Cx. tarsalis	South Watt Avenue	7	CO2	7/19/16	WNV
Sacramento	SAYO223023	3772	Cx. pipiens	Rancho Cordova	14	CO2	7/21/16	WNV
Sacramento	SAYO223044	3770	Cx. pipiens		12	GRVD	7/21/16	WNV
Sacramento	SAYO226002	3659	Cx. pipiens	Rancho Murieta	1	GRVD	7/19/16	WNV
Sacramento	SAYO233070	3615	Cx. tarsalis	Sacramento	50	CO2	7/19/16	WNV
Sacramento	SAYO234006	3609	Cx. tarsalis	Sacramento	2	CO2	7/19/16	WNV
Sacramento	SAYO234011	3624	Cx. pipiens	Sacramento	4	CO2	7/19/16	WNV
Sacramento	SAYO235004	3656	Cx. pipiens	Wilton	4	GRVD	7/19/16	WNV
Sacramento	SAYO244006	3642	Cx. tarsalis	Wilton	50	CO2	7/19/16	WNV
Sacramento	SAYO244006	3645	Cx. pipiens	Wilton	50	CO2	7/19/16	WNV
Sacramento	SAYO244006	3647	Cx. pipiens	Wilton	16	GRVD	7/19/16	WNV
Sacramento	SAYO245002	3641	Cx. pipiens	Wilton	35	CO2	7/19/16	WNV
Sacramento	SAYO245026	3650	Cx. tarsalis	Wilton	50	CO2	7/19/2016	WNV
Sacramento	SAYO245026	3651	Cx. tarsalis	Wilton	37	CO2	7/19/16	WNV
Sacramento	SAYO253009	3632	Cx. tarsalis	Galt	1	GRVD	7/19/16	WNV
Sacramento	SAYO271007	3817	Cx. pipiens	Isleton	4	CO2	7/21/16	WNV
Sacramento	SAYO280001	3440	Cx. tarsalis	Rio Vista	50	CO2	7/14/16	WNV
San Bernardino	WVAL1010	1467	Cx. erythrothorax	Ontario	50	CO2	7/19/2016	WNV
San Bernardino	WVAL2003	1494	Cx. quinquefasciatus	Chino	8	GRVD	7/20/2016	WNV
San Bernardino	WVAL2019	1519	Cx. quinquefasciatus	Chino	11	GRVD	7/20/2016	WNV
San Bernardino	WVAL5004	1490	Cx. quinquefasciatus	Rancho Cucamonga	19	GRVD	7/20/2016	WNV
San Bernardino	WVAL5004	1492	Cx. quinquefasciatus	Rancho Cucamonga	30	GRVD	7/20/2016	WNV
San Bernardino	WVAL5004	1493	Cx. quinquefasciatus	Rancho Cucamonga	30	GRVD	7/20/2016	WNV
San Bernardino	WVAL6004	1536	Cx. quinquefasciatus	Ontario	23	GRVD	7/20/2016	WNV
San Bernardino	WVAL6014	1487	Cx. quinquefasciatus	Fwy CA 60	6	GRVD	7/20/2016	WNV
San Bernardino	WVAL6015	1544	Cx. quinquefasciatus	Ontario	25	GRVD	7/20/2016	WNV
San Bernardino	WVAL7002	1516	Cx. quinquefasciatus	Montclair	25	GRVD	7/20/2016	WNV
San Diego	SAND10598	624	Cx. quinquefasciatus	Escondido	42	GRVD	6/9/16	WNV
San Diego	SAND10599	625	Cx. quinquefasciatus	San Diego	11	GRVD	6/9/16	WNV



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San Diego	SAND404	637	Cx. tarsalis	San Diego	28	CO2	6/8/16	WNV
San Diego	SAND433	641	Cx. tarsalis		50	CO2	6/8/16	WNV
San Joaquin	SJCM7028	1614	Cx. pipiens	Lodi	5	GRVD	7/21/2016	WNV
San Joaquin	SJCM8004	1515	Cx. tarsalis	Lodi	36	CO2	7/19/16	WNV
San Joaquin	SJCM8010	1489	Cx. tarsalis	Ripon	50	CO2	7/19/2016	WNV
San Joaquin	SJCM8010	1490	Cx. tarsalis	Ripon	41	CO2	7/19/2016	WNV
San Joaquin	SJCM8010	1491	Cx. pipiens	Ripon	17	CO2	7/19/2016	WNV
San Joaquin	SJCM8026	1539	Cx. tarsalis	Stockton	50	CO2	7/19/16	WNV
San Joaquin	SJCM8026	1541	Cx. tarsalis	Stockton	46	CO2	7/19/2016	WNV
San Joaquin	SJCM8041	1544	Cx. pipiens	Lodi	5	CO2	7/19/2016	WNV
San Joaquin	SJCM8049	1510	Cx. pipiens	Stockton	24	CO2	7/19/2016	WNV
San Joaquin	SJCM8077	1511	Cx. tarsalis	Stockton	5	CO2	7/19/2016	WNV
San Joaquin	SJCM8109	1480	Cx. tarsalis	Escalon	50	CO2	7/19/2016	WNV
San Joaquin	SJCM8109	1481	Cx. tarsalis	Escalon	18	CO2	7/19/2016	WNV
San Joaquin	SJCM8109	1482	Cx. pipiens	Escalon	7	CO2	7/19/2016	WNV
San Joaquin	SJCM8111	1526	Cx. pipiens	Stockton	50	CO2	7/19/2016	WNV
San Joaquin	SJCM8111	1527	Cx. pipiens	Stockton	40	CO2	7/19/2016	WNV
San Joaquin	SJCM8111	1528	Cx. tarsalis	Stockton	33	CO2	7/19/2016	WNV
San Joaquin	SJCM8143	1545	Cx. tarsalis	Stockton	50	CO2	7/19/2016	WNV
San Joaquin	SJCM8160	1519	Cx. tarsalis	Lodi	50	CO2	7/19/2016	WNV
San Joaquin	SJCM8160	1520	Cx. tarsalis	Lodi	50	CO2	7/19/2016	WNV
San Joaquin	SJCM8160	1521	Cx. tarsalis	Lodi	50	CO2	7/19/2016	WNV
San Joaquin	SJCM8160	1522	Cx. tarsalis	Lodi	54	CO2	7/19/2016	WNV
Santa Cruz	SCRZ4035	140	Cx. tarsalis	Santa Cruz	1	GRVD	7/15/2016	WNV
Stanislaus	TRLK1225	508	Cx. tarsalis	Turlock	50	CO2	7/19/2016	WNV
Stanislaus	TRLK1301	521	Cx. tarsalis	Denair	24	CO2	7/19/2016	WNV
Stanislaus	TRLK1678	489	Cx. pipiens	Turlock	50	CO2	7/14/2016	WNV
Stanislaus	TRLK1679	494	Cx. pipiens	Turlock	43	CO2	7/14/2016	WNV
Stanislaus	TRLK1680	495	Cx. pipiens	Turlock	50	CO2	7/14/16	WNV
Stanislaus	TRLK1681	497	Cx. pipiens	Turlock	42	CO2	7/14/2016	WNV
Stanislaus	TRLK432	511	Cx. tarsalis	Turlock	50	CO2	7/19/2016	WNV
Stanislaus	TRLK432	515	Cx. tarsalis	Turlock	50	CO2	7/19/2016	WNV
Stanislaus	TRLK516	523	Cx. pipiens	Denair	50	CO2	7/19/16	WNV
Stanislaus	TRLK516	524	Cx. pipiens	Denair	50	CO2	7/19/2016	WNV
Stanislaus	TRLK516	525	Cx. pipiens	Denair	50	CO2	7/19/2016	WNV
Stanislaus	TRLK516	526	Cx. tarsalis	Denair	50	CO2	7/19/16	WNV
Stanislaus	TRLK536	504	Cx. pipiens	Turlock	50	CO2	7/19/2016	WNV
Sutter	SUYA107	253	Cx. tarsalis	Live Oak	47	REST	7/18/2016	WNV
Sutter	SUYA15	270	Cx. tarsalis	Robbins	30	REST	7/19/2016	WNV
Sutter	SUYA24	241	Cx. tarsalis	Yuba City	50	REST	7/18/2016	WNV
Sutter	SUYA30	249	Cx. tarsalis	Live Oak	50	REST	7/18/2016	WNV
Sutter	SUYA30	250	Cx. tarsalis	Live Oak	50	REST	7/18/2016	WNV
Sutter	SUYA63	244	Cx. tarsalis	Live Oak	50	REST	7/18/2016	WNV
Sutter	SUYA63	246	Cx. tarsalis	Live Oak	42	REST	7/18/2016	WNV
Tulare	DLNO19	104	Cx. quinquefasciatus	Ducor	50	GRVD	7/19/2016	WNV
Tulare	DLNO76	106	Cx. quinquefasciatus	Richgrove	50	GRVD	7/19/2016	WNV
Tulare	DLTA6407	1993	Cx. quinquefasciatus	Dinuba	20	GRVD	7/15/2016	WNV
Tulare	DLTA6407	2072	Cx. quinquefasciatus	Dinuba	50	GRVD	7/21/2016	WNV
Tulare	DLTA6408	1986	Cx. quinquefasciatus	Dinuba	50	GRVD	7/15/2016	WNV
Tulare	DLTA6408	1987	Cx. quinquefasciatus	Dinuba	23	GRVD	7/15/2016	WNV
Tulare	DLTA6408	2047	Cx. quinquefasciatus	Dinuba	50	GRVD	7/20/2016	WNV
Tulare	DLTA6408	2071	Cx. quinquefasciatus	Dinuba	50	GRVD	7/21/2016	WNV
Tulare	DLTA6416	2049	Cx. quinquefasciatus	Dinuba	50	GRVD	7/20/2016	WNV
Tulare	DLTA6416	2050	Cx. quinquefasciatus	Dinuba	50	GRVD	7/20/2016	WNV

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Tulare	DLTA6417	1980	Cx. quinquefasciatus	Dinuba	50	GRVD	7/15/2016	WNV
Tulare	DLTA6417	1981	Cx. quinquefasciatus	Dinuba	29	GRVD	7/15/2016	WNV
Tulare	DLTA7625	2006	Cx. quinquefasciatus	Woodlake	30	GRVD	7/19/2016	WNV
Tulare	DLTA7636	2061	Cx. quinquefasciatus	Woodlake	50	GRVD	7/21/2016	WNV
Tulare	DLTA8422	2057	Cx. quinquefasciatus	Goshen	29	GRVD	7/21/2016	WNV
Tulare	DLTA8424	1963	Cx. quinquefasciatus	Visalia	18	GRVD	7/15/2016	WNV
Tulare	DLTA8425	1997	Cx. quinquefasciatus	Visalia	25	GRVD	7/19/2016	WNV
Tulare	DLTA8426	2058	Cx. quinquefasciatus	Visalia	34	GRVD	7/21/2016	WNV
Tulare	DLTA8427	1996	Cx. quinquefasciatus	Visalia	13	GRVD	7/19/2016	WNV
Tulare	DLTA8427	2041	Cx. quinquefasciatus	Visalia	50	GRVD	7/20/2016	WNV
Tulare	DLTA8434	1978	Cx. quinquefasciatus	Visalia	39	GRVD	7/15/2016	WNV
Tulare	DLTA8436	2046	Cx. quinquefasciatus	Visalia	20	GRVD	7/20/2016	WNV
Tulare	DLTA8520	1984	Cx. quinquefasciatus	Visalia	50	GRVD	7/15/2016	WNV
Tulare	DLTA8521	1988	Cx. quinquefasciatus	Visalia	39	GRVD	7/15/2016	WNV
Tulare	DLTA8527	2005	Cx. quinquefasciatus	Visalia	43	GRVD	7/19/2016	WNV
Tulare	DLTA8527	2026	Cx. quinquefasciatus	Visalia	50	GRVD	7/20/2016	WNV
Tulare	DLTA8528	2025	Cx. quinquefasciatus	Visalia	44	GRVD	7/20/2016	WNV
Tulare	DLTA8532	1967	Cx. quinquefasciatus	Visalia	20	GRVD	7/15/2016	WNV
Tulare	DLTA9401	2043	Cx. quinquefasciatus	Visalia	14	GRVD	7/20/2016	WNV
Tulare	DLTA9402	2055	Cx. quinquefasciatus	Visalia	21	GRVD	7/21/16	WNV
Tulare	DLTA9501	2037	Cx. quinquefasciatus	Farmersville	50	GRVD	7/20/2016	WNV
Tulare	DLTA9503	2027	Cx. quinquefasciatus	Visalia	39	GRVD	7/20/2016	WNV
Tulare	DLTA9504	1974	Cx. quinquefasciatus	Visalia	35	GRVD	7/15/2016	WNV
Tulare	DLTA9505	1965	Cx. quinquefasciatus	Visalia	38	GRVD	7/15/2016	WNV
Tulare	DLTA9512	2000	Cx. quinquefasciatus	Farmersville	50	GRVD	7/19/2016	WNV
Tulare	DLTA9512	2001	Cx. quinquefasciatus	Farmersville	50	GRVD	7/19/2016	WNV
Tulare	DLTA9603	2007	Cx. quinquefasciatus	Exeter	45	GRVD	7/19/2016	WNV
Tulare	DLTA9603	2066	Cx. quinquefasciatus	Exeter	31	GRVD	7/21/2016	WNV
Tulare	DLTA9606	1973	Cx. quinquefasciatus	Farmersville	28	GRVD	7/15/2016	WNV
Tulare	DLTA9610	2010	Cx. quinquefasciatus	Exeter	10	GRVD	7/19/2016	WNV
Tulare	DLTA9610	2062	Cx. quinquefasciatus	Exeter	50	GRVD	7/21/2016	WNV
Tulare	DLTA9610	2063	Cx. quinquefasciatus	Exeter	35	GRVD	7/21/2016	WNV
Tulare	DLTA9610	2067	Cx. quinquefasciatus	Exeter	13	GRVD	7/21/2016	WNV
Tulare	TLRE57	64	Cx. quinquefasciatus	Tulare	50	CO2	7/20/2016	WNV
Yolo	SAYO103007	3668	Cx. tarsalis	Dunnigan	50	CO2	7/19/16	WNV
Yolo	SAYO103007	3670	Cx. tarsalis	Dunnigan	50	CO2	7/19/16	WNV
Yolo	SAYO103007	3672	Cx. tarsalis	Dunnigan	50	CO2	7/19/16	WNV
Yolo	SAYO114001	3683	Cx. tarsalis	Zamora	50	CO2	7/19/16	WNV
Yolo	SAYO124007	3664	Cx. tarsalis	Woodland	50	CO2	7/19/16	WNV
Yolo	SAYO124007	3667	Cx. tarsalis	Woodland	50	CO2	7/19/16	WNV
Yolo	SAYO125005	3528	Cx. tarsalis	Woodland	50	CO2	7/19/16	WNV
Yolo	SAYO125016	3510	Cx. tarsalis	Woodland	50	CO2	7/19/16	WNV
Yolo	SAYO125016	3511	Cx. tarsalis	Woodland	50	CO2	7/19/16	WNV
Yolo	SAYO125016	3513	Cx. tarsalis	Woodland	50	CO2	7/19/16	WNV
Yolo	SAYO125016	3517	Cx. pipiens	Woodland	14	GRVD	7/19/16	WNV
Yolo	SAYO125017	3507	Cx. tarsalis	Woodland	50	CO2	7/19/16	WNV
Yolo	SAYO125029	3554	Cx. tarsalis	woodland	50	CO2	7/19/16	WNV
Yolo	SAYO135005	3520	Cx. tarsalis	Woodland	50	CO2	7/19/16	WNV
Yolo	SAYO135005	3521	Cx. tarsalis	Woodland	50	CO2	7/19/16	WNV
Yolo	SAYO135006	3826	Cx. tarsalis	Woodland	50	CO2	7/21/16	WNV
Yolo	SAYO135016	3543	Cx. tarsalis	Woodland	50	CO2	7/19/16	WNV
Yolo	SAYO135020	3496	Cx. tarsalis	woodland	50	CO2	7/19/16	WNV
Yolo	SAYO136010	3795	Cx. tarsalis	Woodland	50	CO2	7/21/16	WNV
Yolo	SAYO143002	3778	Cx. tarsalis	Winters	50	CO2	7/21/16	WNV

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Yolo	SAYO143002	3782	Cx. pipiens	Winters	2	CO2	7/21/16	WNV
Yolo	SAYO146002	3493	Cx. tarsalis	Davis	36	CO2	7/19/16	WNV
Yuba	SUYA108	265	Cx. tarsalis	Plumas Lake	50	CO2	7/18/2016	WNV
Yuba	SUYA108	267	Cx. tarsalis	Plumas Lake	42	CO2	7/18/2016	WNV

### Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03
Los Angeles	ANTV8656	Lancaster	7/13/2016	WNV	1007	1008	1009
Los Angeles	ANTV7263	Lancaster	7/13/2016	WNV	1057		
Los Angeles	LACW1001	Rolling Hills Estates	7/8/2016	WNV	2301	2304	
San Bernardino	SANB0003	Colton	7/11/2016	WNV	1725	1726	
San Diego	SAND0057	Sorrento Valley	7/11/2016	WNV	1320	1323	1326

### Test Protocols

#### Humans:

Specimens are tested by local laboratories with an IgM or IgG immunofluorescent assay (IFA) and/or an IgM enzyme immunoassay (EIA). Specimens with inconclusive results are forwarded to the California Department of Public Health Viral and Rickettsial Disease Laboratory (VRDL) for further testing or confirmation.

#### Dead Birds

Oral swab samples from corvids are collected onto RNA preservation cards and tested by the University of California, Davis Arbovirus Research and Training laboratory (DART) for West Nile virus by the singleplex RT-PCR Taqman assay and confirmed with a second primer set. Some local agencies test birds using the RAMP© test or conduct RT-PCR on tissue samples.

#### Sentinel Chickens:

Dried blood spot specimens from sentinel chickens are tested by the California Department of Public Health Vector-Borne Disease Laboratory for the presence of antibodies to West Nile, western equine encephalomyelitis, and St. Louis encephalitis viruses by an EIA. Positive samples are confirmed by an IFA, western-blot, or plaque reduction neutralization test.

#### Mosquito Pools:

Mosquito pools submitted to DART are tested for West Nile, western equine encephalomyelitis, and St. Louis encephalitis viral RNA using a Taqman multiplex RT-PCR. Invasive *Aedes* mosquitoes (*Ae. aegypti* and *Ae. albopictus*) are also tested for chikungunya, dengue, and Zika viral RNA.

Prepared by the Vector-Borne Disease Section (Infectious Diseases Branch), California Department of Public Health, 850 Marina Bay Parkway, Richmond, CA 94804. Questions concerning this bulletin should be addressed to Tina Feiszli by phone (510) 412-6253 or email: [tina.feiszli@cdph.ca.gov](mailto:tina.feiszli@cdph.ca.gov).

Website Information: For updated information on WNV in California, please visit the California WNV website, [www.westmile.ca.gov](http://www.westmile.ca.gov), or the California Vectorborne Disease Surveillance System website, [www.calsurv.org](http://www.calsurv.org). For national information on WNV and other arboviruses, please visit the CDC website, [www.cdc.gov](http://www.cdc.gov), and the USGS website, [www.westmilemaps.usgs.gov](http://www.westmilemaps.usgs.gov).