

Analysis of Sacramento County WNV Human Case Data with Onset of Illness

During Time Periods Relative to the Aerial Spraying Conducted in 2005

Analysis done by the California Department of Health Services

		humans (w/ onset) - NUMBER				humans (w/ onset) - PERCENTAGES			
		up to 8/10	8/11 to 8/25	after 8/25	TOTAL	up to 8/10	8/11 to 8/25	after 8/25	TOTAL
CA	all	421	159	185	765	55%	21%	24%	765
	CA (minus Sac Co.)	324	121	166	611	53%	20%	27%	611
Sac Co.	Sac Co., all	97	38	19	154	63%	25%	12%	154
	North spray	25	4	0	29	86%	14%	0%	29
	Control areas (combined)	33	15	12	60	55%	25%	20%	60
	[North control]	16	7	5	28				
	[Central control]	17	8	7	32				
		up to 8/22	8/23 to 9/6	after 9/6	TOTAL	up to 8/22	8/23 to 9/6	after 9/6	TOTAL
	South spray	20	1	0	21	95%	5%	0%	21

Note that 0% of the total cases in the north spray zone occurred >2 weeks post spray relative to 27% for the rest of the state (minus Sac county). All the numbers indicate that the spraying was effective in reducing WNV cases. The incubation time of West Nile Virus can be as long as two weeks, this is why the time period of two weeks was used to determine the number of new cases in the spray zones.