

**Marin/Sonoma Mosquito & Vector Control District  
2008 - 2016 *Ixodes pacificus* tested for *Borrelia burgdorferi* by Real-Time PCR**

**Sonoma County:**

	Annadel	Crane Creek	Foothill	Helen Putnam	Jack London	N. Sonoma Mtn	Shiloh Ranch	Sonoma Valley	Spring Lake	Sugarloaf
No. of Nymphs Tested † (Pools)	392 (52)	n/a	n/a	n/a	251 (46)	85 (85)	97 (44)	n/a	59 (8)	521 (69)
No. of Nymphal Pools Positive (MIR)*	28 (7.1%)	n/a	n/a	n/a	3 (1.2%)	10 (11.8%)	3 (3.1%)	n/a	2 (3.4%)	27 (5.2%)
No. of Adults Tested (Pools)	1415 (305)	281 (71)	473 (114)	298 (64)	678 (152)	273 (59)	881 (184)	457 (98)	560 (122)	898 (194)
No. of Adult Pools Positive (MIR)	36 (2.5%)	0 (0%)	6 (1.3%)	0 (0%)	29 (4.3%)	13 (4.8%)	4 (0.5%)	7 (1.5%)	6 (1.1%)	8 (0.9%)

**Marin County:**

	China Camp	MMWD	Mt. Tamalpais	Olompali
No. of Nymphs Tested (Pools)	435 (78)	800 (143)	77 (25)	330 (94)
No. of Nymphal Pools Positive (MIR)	12 (2.8%)	38 (4.8%)	1 (1.3%)	21 (6.4%)
No. of Adults Tested (Pools)	2256 (475)	1719 (384)	692 (158)	427 (91)
No. of Adult Pools Positive (MIR)	42 (1.9%)	41 (2.4%)	14 (2.0%)	10 (2.3%)

**Marin & Sonoma Counties:**

	Marin	Sonoma
No. of Nymphs Tested (Pools)	1642 (340)	1959 (400)
No. of Nymphal Pools Positive (MIR)	72 (4.4%)	86 (4.4%)
No. of Adults Tested (Pools)	5097 (1109)	6360 (1401)
No. of Adult Pools Positive (MIR)	107 (2.1%)	114 (1.8%)

† Results from total collections of less than 50 nymphal or 200 adult ticks have been omitted from tables due to insufficient sample size

\***Minimum Infection Rate (MIR):** the minimum percentage of infected ticks in a sample set. This percentage is calculated by [(number of positive pools / total ticks tested) x 100].

The MIR uses the assumption that a positive pool contains only one infected tick.