County of Santa Clara
Consumer and Environmental Protection Agency

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Tick Surveillance Report 2022-23
Foothills

The Tick Surveillance Program is a District surveillance program that focuses on collecting and testing ticks that are potential vectors for tick borne diseases, such as Lyme disease, tick-borne relapsing fever (TBRF), Rocky Mountain spotted fever, Rickettsia 364D, and tularemia.

The Tick Surveillance program is board mandated through the benefit assessment collected specifically to provide this service and other vector control programs. Vector Control District tick surveillance is required annually, corresponding to the seasons that ticks are most prevalent.

Foothills was visited on 11/30/22, 02/15/23, 04/17/23, 06/16/23, and 07/14/23. A total of 18 *Dermacentor occidentalis* (commonly called the Pacific Coast tick) tick, 1 *Dermacentor variabilis* (commonly called the American dog tick) ticks, and 142 *Ixodes pacificus* (commonly called the western blacklegged tick) ticks were collected.

All *Ixodes pacificus* were tested for the presence of *Borrelia burgdorferi* s.l (causative agent of Lyme disease), and *Borrelia miyamotoi* (causative agent of Hard Tick Relapsing Fever). Testing results can be found on page 3.

Table 1. Tick collection by trail

Trail	D. occidentalis	D. variabilis	Ix. pacificus	Total
Panorama Trail	12		36	**48**
Panorama Trail to Coyote	2			**2**
Woodrat Trail	4	1	106	**111**
Total	**18**	**1**	**142**	**161**

Fig 1.Total ticks collected by sex

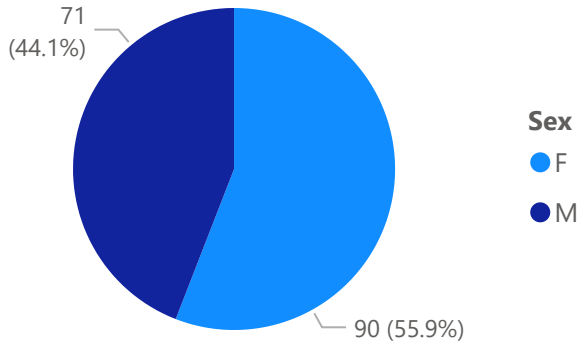


Fig 2. Total ticks collected by species

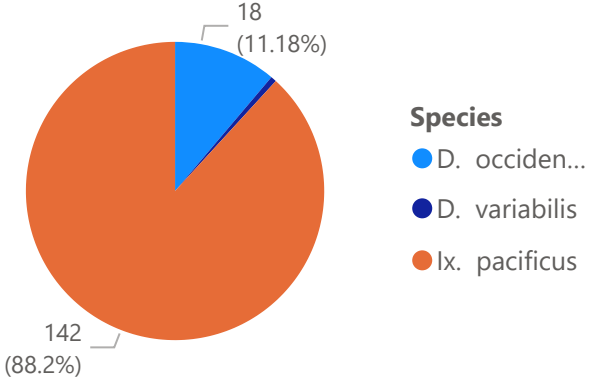
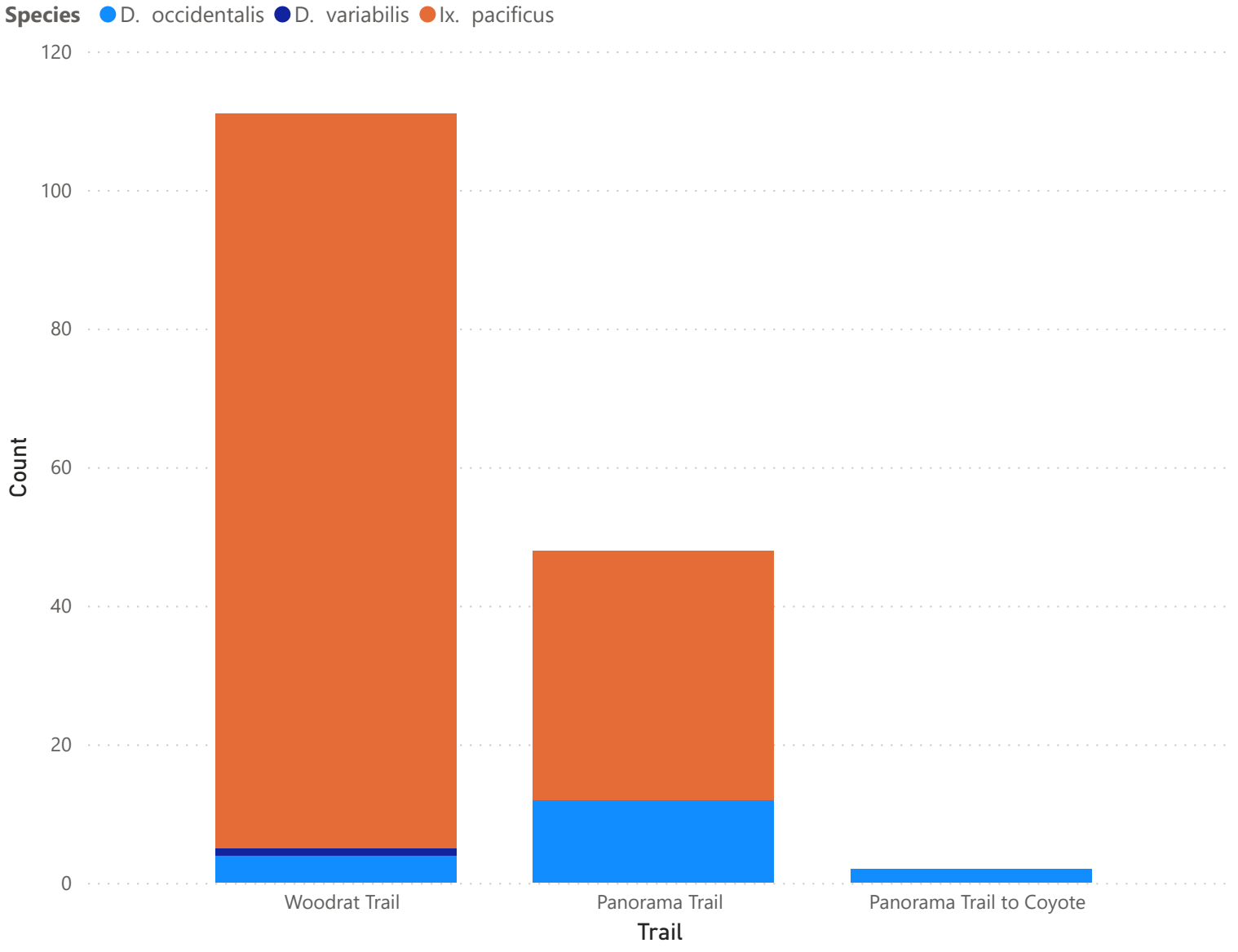


Fig 3. Tick species by trail



Figures 1-3. Tick abundance and composition by trail and park. Tick surveillance was conducted November 2022 to October 2023. Abundance shown by trail for park. Total sex and species composition is also shown.

Table 2. Lyme Disease Test Results

Trail	NEG	**Total**
Panorama Trail	13	**13**
Woodrat Trail	25	**25**
Total	**38**	**38**

Table 3. HTRF Test Results

Trail	NEG	**Total**
Panorama Trail	13	**13**
Woodrat Trail	25	**25**
Total	**38**	**38**

Fig 4. Lyme Disease Test Results by Sex

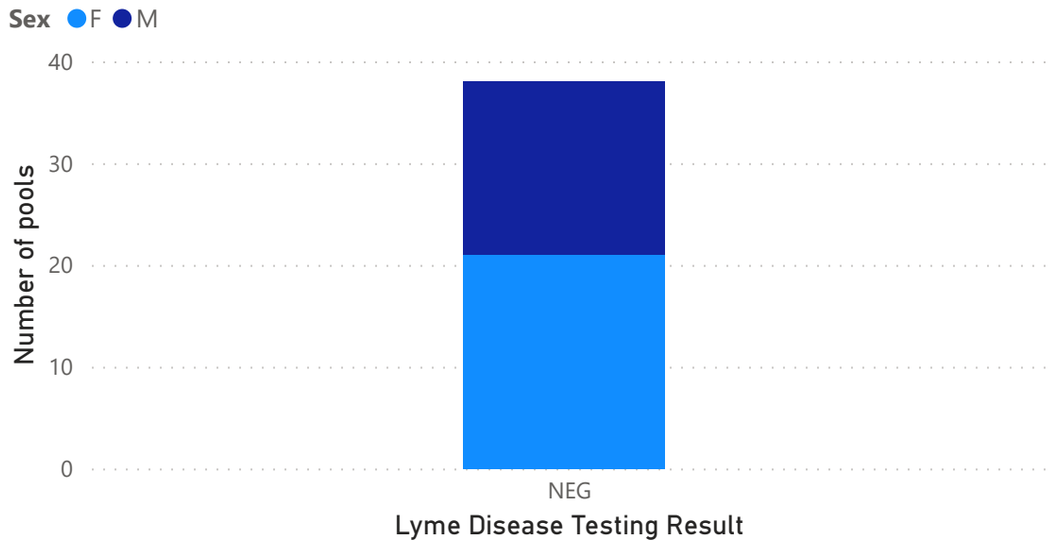
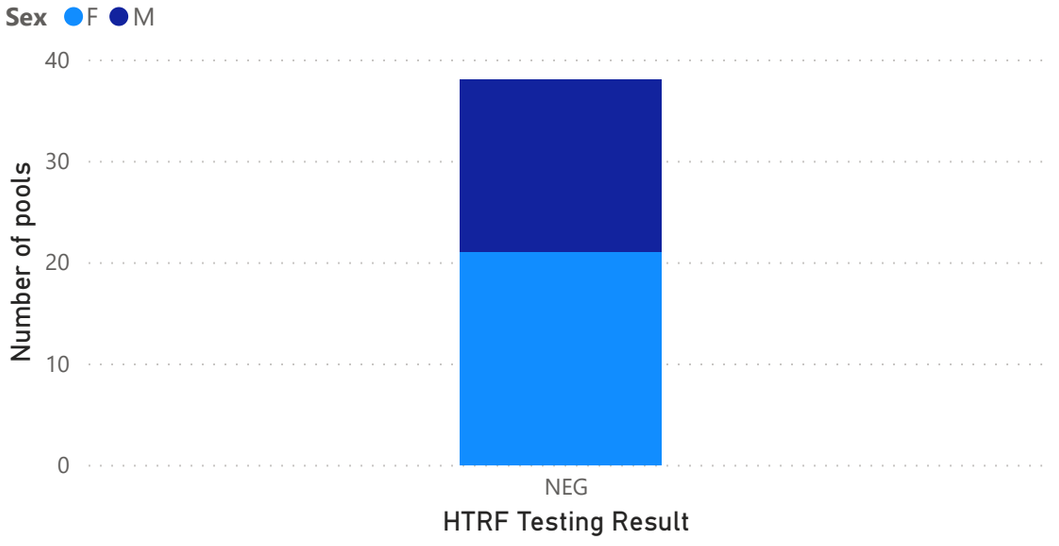


Fig 5. HTRF Test Results by Sex



Tickborne disease testing by trail and park. 38 pools (135 ticks) of *Ixodes pacificus* were tested for the presence of *Borrelia burgdorferi* s.l (causative agent of Lyme disease), and *Borrelia miyamotoi* (causative agent of Hard Tick Relapsing Fever). NEG is a negative test result, POS is a positive test result.