

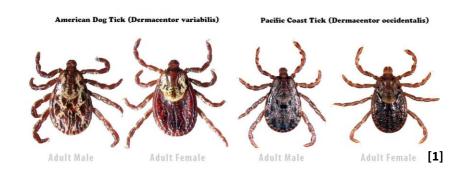
Tick Species at the Preserve

Pacific Coast (*Dermacentor occidentalis*), American Dog Tick (*Dermacentor variabilis*)

Rocky Mountain Spotted Fever (11%)

Western blacklegged (*Ixodes pacificus*)

Lyme Disease (<5%)





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Female

Male

Female

Male

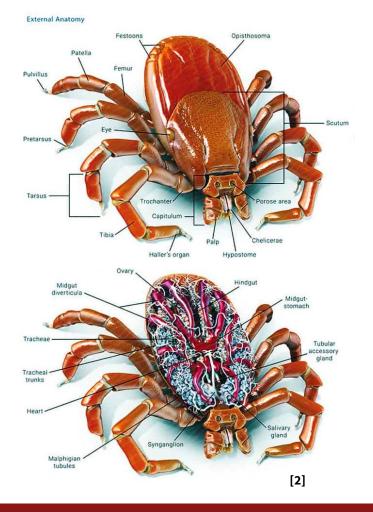
Anatomy of a Tick









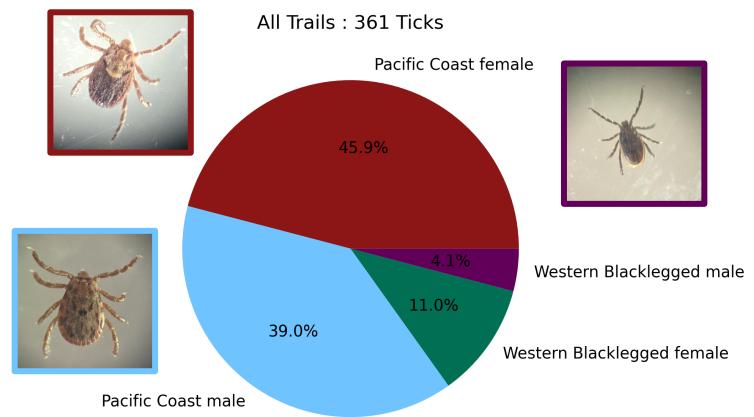


Where Do Ticks Hide?

Often on the ends of vegetation leaning into the trail



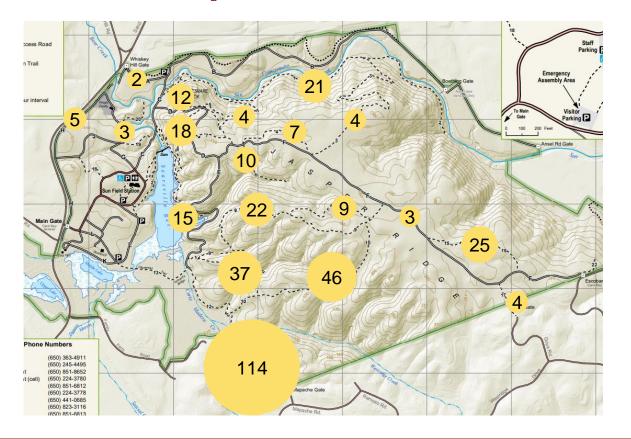
Tick Types Found while Cycling Trails





What Trails are Tick Hotspots?

| Trail | # of ticks |
|-------|------------|
| 12 | 114 |
| 10 | 46 |
| 11 | 37 |
| 15 | 25 |
| 9 | 22 |
| 1 | 21 |
| 8 | 18 |
| 14 | 15 |
| а | 12 |
| b | 10 |
| С | 9 |



What Trails are Tick Hotspots?

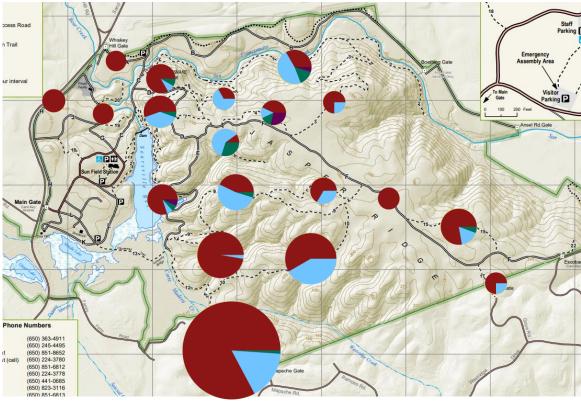


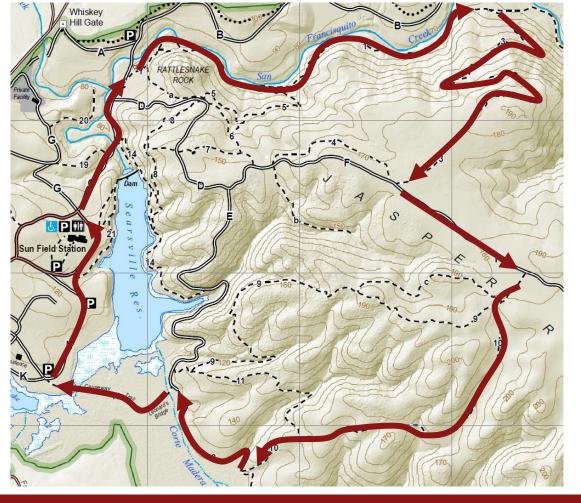


- Pacific Coast Female
- Pacific Coast Male
- Western Blacklegged Female
- Western Blacklegged Male

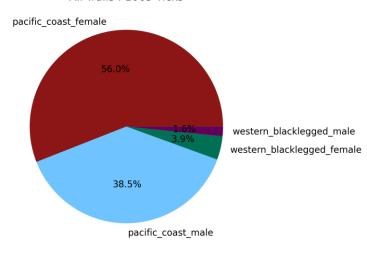


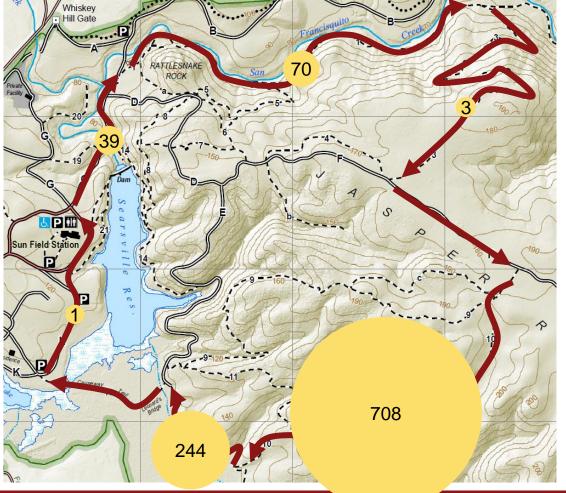






All Trails: 1065 Ticks





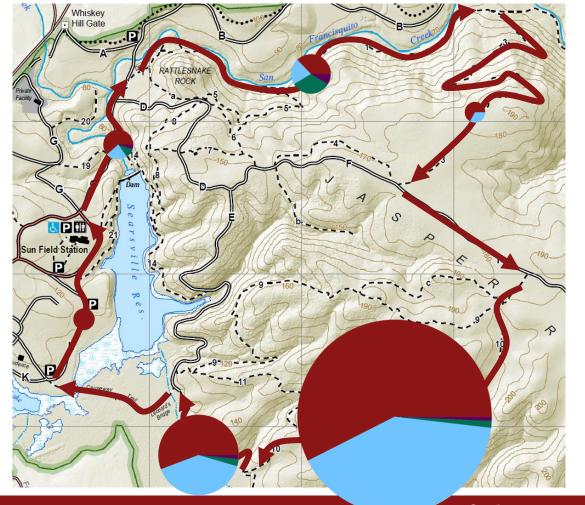




- Pacific Coast Female
- Pacific Coast Male
- Western Blacklegged Female
- Western Blacklegged Male











- **Pacific Coast Female**
- **Pacific Coast Male**
- **Western Blacklegged Female**
- **Western Blacklegged Male**











- **Pacific Coast Female**
- **Pacific Coast Male**
- **Western Blacklegged Female**
- **Western Blacklegged Male**



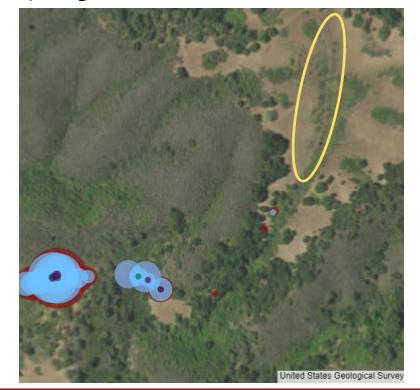




Ticks Seem to Prefer Shade

Preference for shade and avoidance of open grasslands.





Fabric Study

No clear preference. Either attached to the first/second or never.





Cycling Style Study





10 Stanford University

Habitat for Many!



More Questions than Answers

- Height at which ticks quest?
- Factors that affect questing?
 Humidity, temperature, clouds,
 weather patterns?
- Plants that ticks quest on? Plants affect predation? Camouflage?
- Tick prevalence before/after fire reduction from sheep/goats?





Ticks

Not Ticks

Tick Safety Measures

- Don't go outside
- Don't touch vegetation

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- Don't go outside
- Don't touch vegetation
- Wear long pants/sleeves and tuck in where possible
- Check for ticks after touching vegetation
- Ziploc clothes at home
- Ticks are killed with dry heat or soaked in alcohol for a while

