



**ONE  
TAM**

**ROY'S REDWOODS OPEN SPACE PRESERVE  
SITE ANALYSIS TECHNICAL MEMO  
DRAFT NOVEMBER 9, 2018**



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## **1.0 BACKGROUND AND OBJECTIVES**

Roy's Redwoods Open Space Preserve (Preserve) is a 293-acre Marin County Open Space Preserve located within the San Geronimo Creek Watershed, a tributary to Lagunitas Creek that flows in Tomales Bay. The Preserve supports an abundance of wildlife and plant species, including the federally endangered northern spotted owl. The upper Larsen Creek alluvial valley, on the west side of the Preserve, is home to an old growth redwood forest with dozens of individual trees boasting diameters between 95 and 145 inches. The Preserve also provides easy access for families, hikers, and other visitors to experience the wonders of the redwood forest up close. As a result of unmanaged visitor use within the terrace redwood grove, a sprawling network of social trails has developed through the alluvial valley of Roy's Redwoods and has resulted in habitat degradation and impaired hydrologic function. The Marin County Parks (MCP) seeks to protect the diverse biological resources that the area offers, improve hydrologic function, preserve the rich history of the landscape, and provide sustainable infrastructure for visitors to enjoy the Roy's Redwoods into the future.

In 2014 a Memorandum of Understanding was signed by the four land management agencies charged with stewarding Mt. Tamalpais. In partnership with the Golden Gate National Parks Conservancy (Parks Conservancy), these agencies created the innovative Tamalpais Lands Collaborative (TLC). In 2016, planning and design for resource enhancement and protection as well as a sustainable visitor experience at the Preserve was identified as a priority project for the TLC work plan, thereby creating a multi-agency team charged with investigating opportunities for the site. In the Spring of 2017, the Parks Conservancy and MCP began work on a site inventory and visitor use survey to support future planning and design efforts.

This Site Analysis Technical Memo is intended to support future planning and design efforts at the Preserve, and it documents the work undertaken from May 2017 through May 2018; key site analysis findings; and recommendations for further study and planning. The analysis included a visitor use survey, a literature review, a series of technical workshops, site inventory and mapping, and community engagement.

A plan is needed to protect the diverse biological resources that the area offers, improve hydrologic function, preserve the rich history of the landscape, and provide access and amenities for visitors to enjoy the Roy's Redwoods into the future. A critical element to this plan is the design of a landscape and trail circulation system that achieves multiple benefits of habitat restoration, hydrologic restoration, and an immersive and sustainable visitor experience.

## **2.0 WORKSHOPS SUMMARY**

### **2.1 WORKSHOP 1: SUBJECT MATTER EXPERTS**

This first workshop (Tuesday, May 9, 10a.m. – 2p.m. at the Fairfax Community Church) brought MCP Parks and Parks Conservancy staff together with subject matter experts to develop an initial site inventory, identify opportunities and constraints, and to provide guidance to the project team on areas to focus further study. Workshop participants consisted of representatives from:

- Marin County Parks
- Marin Resource Conservation District

- Parks Conservancy
- San Geronimo Valley Planning Group
- Point Blue Conservation Science
- CA Department of Fish and Wildlife
- Wildlife Ecology and Consulting
- A consulting botanist
- US Geologic Survey
- Save the Redwoods League
- SF Regional Water Quality Control Board
- National Park Service
- Kamman Hydrology

The workshop was organized into small focus groups that shared their local knowledge and expertise about the Preserve and surrounding areas regarding the sites hydrology, biological resources, history, public access and visitor use. The focus groups resulted in guiding questions and suggestions to lead the refinement of the site inventory and analysis, potential data gaps to research, as well as data sources identified for additional information. The workshop established that the appropriate area of focus was the meadow, the redwood grove and alluvial valley area of Larsen Creek. It is also important to consider this area of focus in the larger context of the San Geronimo Creek and Lagunitas Creek watersheds. A critical need identified early on was a study of the hydrology of upper Larsen Creek, its relationship to important habitat downstream, and opportunities for hydrologic restoration. It was also identified that a better assessment of the species and habitat composition, particularly within the redwood grove and the meadow, would help inform resource protection and restoration priorities. Another critical area of further study was identified as understanding visitor use patterns, points of interest, and types of visitor experiences. The Workshop 1 notes are provided in the appendix and provide a complete list of attendees, site inventory notes, and opportunities and constraints.

## 2.2 WORKSHOP 2: STAKEHOLDERS

This second workshop (Wednesday, August 2, 4p.m. – 7p.m. on-site and at the Lagunitas School) brought MCP and Parks Conservancy staff together with community stakeholders to introduce the project and goals, share work completed to-date, and gather additional knowledge of the site. Workshop participants consisted of representatives from:

- Marin County Parks
- Marin County Board of Supervisors
- Marin Audubon Society
- Dougherty Ranch
- Marin Conservation League
- Prunuske Chatham, Inc.
- SPAWN/Turtle Island Restoration Network
- Foot People
- Parks Conservancy
- Sierra Club Marin Group
- San Geronimo Valley Planning Group
- California Native Plant Society
- Lagunitas School District
- Marin Horse Council
- Environmental Action Committee of West Marin
- Local residents

The workshop was organized into an on-site field visit to walk the project area, introduce the project, and informally hear about participant’s site-based knowledge. After the site visit, the workshop reconvened for a presentation of work to-date then participants were asked to contribute knowledge and ideas regarding biological resources, visitor circulation, visitor experience, and visitor uses. This workshop confirmed that resource protection, habitat restoration, and an improved visitor experience was desired by stakeholders. Along with identifying key visitor destinations, the workshop established that the lack of a formal trail system is understood to be detrimental to biological resources but also degrades the visitor experience. It is important to provide a visitor experience that preserves a sense of



discovery and exploration, is universally accessible, and does not impact sensitive resources. The importance of retaining access to Roy's Redwoods for local school and environmental education programs was also emphasized.

### **3.0 COMMUNITY ENGAGEMENT SUMMARY**

The following is a summary of the various public events that One Tam hosted as part of a community engagement strategy to gather community input and build community support specifically for a project at Roy's Redwoods and more generally for projects throughout the TLC managed lands.

#### **3.1 BIOBLITZ**

On March 25, 2017, 23 volunteers of all ages came to the Preserve for the first Marin County Parks/One Tam Bioblitz of 2017. Along with staff and interns from MCP, One Tam, the Parks Conservancy, and the Marin Municipal Water District, the group divided into teams to survey four areas of the preserve, including grasslands, meadow, redwood forest, and mixed evergreen forest. Using a smartphone app called iNaturalist, the group took photos of plants, animals, lichen, and fungi, with the goal of documenting every living species in sight. In the afternoon, volunteers and staff reconvened at the San Geronimo Community Center for lunch, and to share photos and work on identifications. Novices and experts alike sat together and consulted field guides and the internet. Over the next few weeks, the iNaturalist community also contributed identifications.

[79 research grade observations](#) were made, which means that the iNaturalist community agrees on an identification. Among these were four plant species that were not on the California Native Plant Society list for the Preserve, nor on Calflora, the statewide plant database:

- Fairy slipper orchid (*Calypso bulbosa*): <https://www.inaturalist.org/observations/5456937>
- Sand pygmyweed (*Crassula connata*): <https://www.inaturalist.org/observations/5456825>
- Giant trillium (*Trillium chloropetalum*): <https://www.inaturalist.org/observations/5465383>
- Broadleaf glandweed (*Parentucellia latifolia*): <https://www.inaturalist.org/observations/5458588>

The species observations made during the Bioblitz have been added to the Preserve species list available in the appendix.

#### **3.2 ROY'S REDWOODS WALK & TALK WITH JEAN BERENSMEIER**

On November 4, 2017, staff from MCP and the Parks Conservancy teamed up with Jean Berensmeier to lead a site visit and short hike in the Preserve. On cold and drizzly morning, a dozen community members turned out for the event. The project team introduced the effort to study restoration and visitor experience improvement opportunities at Roy's Redwoods. Jean's talk focused on her environmental education work, the unique history of this old growth redwood forest, and the grass-roots conservationist movement she led which resulted in establishing Roy's Redwoods as the first Marin County Open Space Preserve.

### 3.3 ROY'S REDWOODS FIELD DAY

On May 12, 2018, staff from MCP and the Parks Conservancy hosted an on-site workshop which was advertised to the community. Approximately 30 community members attended the event. The project team discussed the project, presented the findings of the visitor use survey and site-analysis to date, and engaged the attendees in conversation about the project, knowledge of the site, and ideas for enhancement. The hydrologist from Prunuske Chatham, Inc. (PCI) also presented preliminary findings of the hydrology study and impacts to the hydrologic function from visitor use. Finally, an NPS interpretive ranger and naturalist led the group on a walk through a portion of the redwood grove identifying natural resources present and discussed challenges with balancing resource protection and visitor experience of the redwoods.

Feedback was solicited informally from the attendees by the project team throughout the day. A consensus was heard with support for a project that restored the hydrologic function of the site, improved protection of the biological resources of the Preserve, and enhanced the visitor experience of the redwood forest while minimizing visitor impacts.

### **4.0 VISITOR USE SURVEY**

The Roy's Redwoods visitor use survey was developed in consultation with Dr. Patrick Tierney, of San Francisco State University, who conducted the 2017 Marin County Parks Visitors Study which was much more focused on visitor use levels and the characteristics of those visitors throughout Marin County Parks and Open Space Preserves. In addition, the purpose of the Roy's Redwoods survey was to gather data on user patterns, values, interests, expectations and experiences. This data set is intended to develop and understanding of how and why the Preserve is used and to inform considerations for restoration and visitor experience improvements.

Between May 2017 and March 2018 a total of 15 onsite survey days were conducted across a range of days, times, and weather conditions. Surveyors engaged visitors during 5 weekend days, a holiday weekend day, 9 week days, and 2 days with flowing water in Larsen Creek. A total of 117 individual surveys were completed. The survey days were scheduled with the goal of capturing the breadth of users across various seasons and conditions.

Nearly half (46%) of visitors had come to the Preserve for the first time and that the majority (76%) had visited less than four times in the past year. A relatively small percentage of visitors use the Preserve on a more regular daily or weekly basis. People come to Roy's Redwoods primarily to experience the redwood trees and be in nature, typically with a hike through the terrace redwood grove and/or hiking on the Roy's Loop Trail which goes all the way around the Preserve. The Meadow Trail is also well used but only a small number of users indicated that being in and around the meadow was a reason for visiting Roy's Redwoods. Additional activities at the Preserve include walking the dog, picnicking, wildlife viewing, and botanizing. When asked about the health of the natural systems (habitat, plants, creek, etc.), most visitors perceive Roy's Redwoods to be in a good condition with some recognizing issues with erosion, visitor use impacts, invasive species, and water quality. When asked about how the redwood grove was accessed, visitors indicated that there was a preference (42%) for wandering through the grove without a formal trail versus a formal trail (31%) and some users (27%) did not have a preference. In review of some of the written feedback on the experience of Roy's Redwoods and

suggestions for improvement, it is clear that the Preserve is well loved by regulars and by new users in its existing condition, though there was a common thread for improved wayfinding.

The visitor survey results demonstrate that the primary attraction of Roy's Redwoods is the experience of the redwoods. Many users are discovering the social trail network and wandering through the grove which provides an immersive and exploratory experience. However, the impacts from this informal use, including the denuded vegetative understory, eroding creek channels, and highly compacted soils are not typically recognized as contributing negatively to the health of the ecosystem. A key finding of the survey is that most visitors are not regular users and that nearly half are there for the first time. This suggests that circulation patterns are not based on widely recognized routes. This provides an opportunity to develop a new visitor experience of the terrace redwoods that has a lighter footprint on ecosystem health by guiding users through less sensitive areas.

## **5.0 SITE INVENTORY**

The site inventory incorporated research on the entire Preserve and its context in the watershed but the main area of focus for the project and of this report is the alluvial valley area of Roy's Redwoods (see San Geronimo Valley Watershed and Location map). The alluvial valley was previously referred to as the terrace redwood stand in the 1989 Land Management Plan (LMP). The terrace is relatively flat and accessible via the Meadow Trail, the Roy's Loop Trail, and the spider-web of social trails all of which connect to the Nicasio Valley Road trailhead. The terrace is home to several charismatic old growth redwood trees and as indicated by the social trail development and visitor use survey, it is the primary area of interest at Roy's Redwoods (see Area of Focus map). Subsequently, it is also the most heavily impacted area within the Preserve.

The area of focus is approximately 8 acres and contains the meadow and the terrace redwood stand. It is bounded by Nicasio Valley Road on the west and to the east by the steep slope redwood stand that follows the alluvial valley from the point where the Roy's Loop Trail bridges Larsen Creek to the head of the valley in the northeast. California bay woodland slopes border the site on the north.

The site analysis section incorporates research gathered through a literature review of all known existing data, studies, reports, plans, and other sources pertaining to the Preserve and areas adjacent to the area of focus. The analysis also integrates staff knowledge and original studies conducted by staff and consultants including the visitor use survey, hydrology survey, and plant survey. The focus of the analysis is guided by the project goal and in part by guidance from the technical workshops and includes site-based study of the geologic setting, hydrology, biological resources, historical context and cultural resources, recreation and public access.

### **5.1 GEOLOGIC SETTING**

#### **Overview**

The 293-acre Preserve is located in the central portion of the Northern Coast Range of California. This region is geologically active and the Preserve approximately five miles to the northeast of the San Andreas Fault Zone. The underlain bedrock of Franciscan Mélange forms steep ridges with slopes of 30% to 70% interspersed with gently sloped alluvial valleys. The area of focus is mapped as Dipsea-Barnabe very gravelly loams in the area covered with redwood forest and Blucher-Cole Complex in the meadow.

The slopes surrounding the area of focus are very steep and soils are mapped as Tocaloma-Saurin Association (see Soils map).

#### Additional Resources

**Best, Timothy. 2014. DRAFT *Engineering Geologic and Geotechnical Review: Upgrade and Improvement of the Roy's Redwood Loop Trail*. Prepared for Marin County Parks. San Rafael, CA.**

This report provides a detailed summary of the geographic and regional geologic setting of the Preserve. It also provides a geologic and geotechnical analysis of the Roy's Redwoods Loop Trail improvements which were subsequently constructed in 2016-2017 with Measure A funds. This report discusses upgrades to segments of the Loop Trail located primarily to the south of the Grove but does include geologic and geotechnical review for two wet-water crossings installed near the Roy's Redwoods trailhead.

**Best, Timothy. 2016. DRAFT *Roy's Redwood Fire Road Erosion and Drainage Assessment*. Prepared for Marin County Parks. San Rafael, CA.**

Prepared to evaluate the condition of the Dickson Fire Road located within the Preserve and to develop recommendations for improved access and to reduce the risk for future erosion. Review of the road focuses on measures/upgrades that can be immediately implemented to improve road conditions and reduce the risk for road related erosion and associated impacts to water quality. These measures are primarily associated with controlling drainage along the existing road alignment. Implementing these measures would help control erosion on the road but would not address part of the underlying problem with the road; the very steep gradient of the existing alignment, which would result in the need for comparatively frequent maintenance and repair. Included in this report and accompanying plan sheets are short to intermediate term recommendations to improve the road and drainage.

## 5.2 HYDROLOGY

### Overview

The Preserve is located within the San Geronimo Creek Watershed, a tributary to Lagunitas Creek that flows in Tomales Bay. Larsen Creek is the predominant watercourse in the Preserve. The headwaters to Larsen Creek generally follow the bounds of the Dickson Ridge Fire Road on the north, the Dave Hansen Trail on the east, and the along the ridgeline to the west from the peak of the Dave Hansen Trail. Several tributaries intermittently drain these ridgelines and combine into a depositional alluvial fan in the valley. This type of alluvial valley with redwood dominated vegetation was historically common in the San Geronimo Valley but now is locally rare due to development. A braided stream network through the terrace redwood stand gradually forms into Larsen Creek which is captured by a culvert under Nicasio Valley Road and feeds the ponds at the adjacent golf course.

For a detailed discussion of hydrology, please refer to the "Roy's Redwoods Hydrology Study, 2018" which was conducted by Prununske Chatham, Inc. concurrently with the site analysis in 2017/2018. The study focuses on the terrace and provides the most detailed and complete analysis of the hydrology of Roy's Redwoods and Larsen Creek. This study provides the hydrologic setting within the San Geronimo Creek watershed and describes the stream channel network and geomorphology. The report also contextualizes the channel form and ecosystem value, sediment issues, fisheries resources, and redwood forest ecology as related to upper Larsen Creek. Finally, the study details current hydrologic conditions and identifies opportunities for ecological restoration.

### Additional Resources

**Brian Wittenkeller & Associates. 1989. *Land Management Plan for Roy's Redwoods and Maurice Thorne Memorial Open Space Preserves*. Prepared for Marin County Open Space District. San Rafael, California.**

The Management Plan describes Larsen Creek as an intermittent stream system that forms a braided channel network in the alluvial area under the redwood canopy before flowing through a culvert under Nicasio Valley Road and into the San Geronimo Golf Course storage ponds. The Plan shows Larsen Creek being piped from the storage ponds, under the golf course and then daylighted before reaching the confluence with San Geronimo Creek. The report notes the presence of one spring in the Preserve.

**Stetson Engineering. 2002. *San Geronimo Creek Watershed Sediment Source Sites Assessment and Evaluation*. Prepared for Marin Municipal Water District, Corte Madera, CA.**

The Stetson report examines all sediment sources impacting San Geronimo Creek. It does not list any significant sources of sediment coming from the Preserve. There is one sediment source noted along the Dickson Fire Road that is not considered a priority sediment source.

**Stillwater Sciences. 2007. *Middle Lagunitas Creek watershed sediment delivery analysis*. Prepared for the Department of Public Works, Marin County, CA.**

This sediment study was completed five years after the Stetson (2002) study and notes six hillslope sediment source sites on Larsen Creek and its tributaries within the Preserve. The sediment sources are due to the steepness (over 30%) and erosive soils (Franciscan Mélange) that comprise the Preserve. One of these sediment source sites is at the head of the alluvial valley and the remaining five are concentrated in one drainage in the northeastern corner of the Preserve far upstream of the Loop Trail.

## 5.3 BIOLOGICAL RESOURCES

### 5.3.1 Flora

The Preserve is made up of redwood forest, grassland, California bay and oak woodlands, mixed evergreen and coastal brush (see Vegetation Preserve Level map). The alluvial valley area of focus consists primarily of redwood / California bay forest (*Sequoia sempervirens* Alliance), which is adjacent to a meadow to the west and borders California bay (pure) forest to the north. On the east side of the terrace redwood stand is a steep forested slope, referred to as the slope redwood stand in the LMP, which is composed predominately of old growth redwood and Douglas fir. The northwest end of the terrace was the epicenter of a wildfire in 2014 which burned approximately 3.7 acres of the slope redwood stand and was put out by Marin County Fire just east of the Dave Hansen Trail at the ridgeline (see Wildlife Sightings & Potential Habitat map). The meadow is located just west of the terrace stand and is dominated by annual grassland but also contains a wetland (*Juncus phaeocephalus* Association) and a shrubland (*Rubus ursinus* Association) (see Project Area Vegetation map).

A species list was compiled for Roy's Redwoods based on a 2016 botanical survey of the meadow, review of iNaturalist.org data, and previous work done by Wilma Follette and Doreen Smith of Marin CNPS. Roy's Redwoods is home to at least 365 native plant species. Except for Shelly Benson's 2016 survey of the meadow area, detailed botanical surveys have not been completed for the entire Preserve. There is an extensive list of special status plant species likely to occur in the various habitat conditions at Preserve, though there no confirmed observations of any special status species other than historical observations of *Leptosiphon aciularis* and *Lessingia hololeuca*. See Benson's report for a detailed

discussion of historical records and special status species likely to occur. There are also approximately 60 non-native plant species present at Roy's Redwoods. However, native plants comprise the dominant vegetation communities except for in the meadow. Of the MCP high priority invasive plant species, eight species are known to occur at the Preserve scale and lands immediately adjacent.

The area of focus spans a Legacy Zone and a Sustainable Natural Systems Zone per the MCP Vegetation and Biodiversity Management Plan (see San Geronimo Valley Vegetation Zones map). Per the plan, these zones should be proactively managed to restore high-value habitat and prevent the spread of invasive species. Undertaking a detailed mapping effort for these local detection invasive species should be considered for integration into the MCP vegetation management plan. The MCP Vegetation and Biodiversity Management 2017-2018 Workplan currently has targeted broom species and harding grass for control with hand pulling. Of concern for the area of focus are populations of Himalayan blackberry that occur in the wetland area of the meadow and along sections of Larsen Creek. This species has the ability to spread rapidly and push-out native species. Additionally, though not a MCP high priority or Group 1 invasive species, velvet grass (*Holcus lanatus*) is growing in several areas of the meadow and can form dense monotypic stands.

Restoration of native grassland habitat in the meadow was one of the early considerations for a project goal. Benson's grassland assessment of the meadow notes that restoration efforts could be focused on improving the remnant California oat grass (*Danthonia californica*) grassland community but approximately 60% of the meadow is currently non-native grasses. Further discussion with subject matter experts suggests that if grassland restoration was to be undertaken at Roy's Redwoods, efforts should focus on the higher value resource areas such as the upland grasslands where rare species are more likely to occur and with less non-native species competition. With the absence of any rare species in the meadow and feedback from stakeholders, restoration of the meadow to a native grassland is no longer considered a high priority. Eradication of high priority invasive species in the meadow should be considered.

#### Rare, Threatened, and Endangered Species

- Old growth redwood forest is rare but does not have protective status.
- No special status plant species were observed in the Meadow. There are 74 special status plant species likely to occur in this meadow habitat based on habitat requirements found in coastal prairie, meadow/seep, valley and foothill grassland, and wetlands. Three rare vegetation communities exist in the meadow:
  - *Juncus phaeocephalus* Association (G3? S3?)
  - *Rubus ursinus* Association (G4 S3)
  - *Sequoia sempervirens* Alliance (G3 S3)
- bristly linanthus (*Leptosiphon acicularis*; CNPS 4.2)
- wooly headed lessingia (*Lessingia hololeuca*; CNPS 3)

#### High Priority Invasive Plant Species

- yellow star thistle (*Centaurea solstitialis*)
- tocalote (*Centaurea melitensis*)
- Scotch broom (*Cytisus scoparius*)
- blue gum eucalyptus (*Eucalyptus globulus*)
- fennel (*Foeniculum vulgare*)
- French broom (*Genista monspessulana*)

- harding grass (*Phalaris aquatica*)
- Himalayan blackberry (*Rubus armeniacus*)

#### Opportunities for further study

- Study the impacts of the fire on the redwood forest could provide valuable insights to restoration projects and wildlife management.
- A detailed analysis of the old growth forest has not been conducted to inventory the composition, age, structure, coverage of woody debris, tree cavities, and nesting structures. Documentation of the complexity of species composition and stand structure of the forest provides a metric of forest health. This documentation would also provide opportunities for comparative analysis with other old growth forests in the region.
- Opportunity for research and restoration of meadow with prescribed fire and/or mowing.
- Monitoring for climate change trends.
- Determine impact from the cessation of mowing in 2011 at the Meadow. How has it impacted the foraging habitat for raptors or terrestrial mammals or are there wildlife benefits?

#### Vegetation Mapping

- Completed
  - October 14, 2014 Fire extent. This fire occurred at Roy's Redwoods which burned approximately 3.7 acres before it was contained. The fire was reportedly human caused and started near the toe of slope at northeast head of alluvial valley and burned upslope to the David Hansen Trail.
  - Location and DBH of redwood trees larger than 12" DBH in the terrace redwood stand. The slope redwood stand has not been mapped.
  - Large downed redwood trees in valley floor.
- Data Gaps
  - Mapping of snags, fire scars, tree cavities, stand complexity & structure, nesting structures.
  - Mapping of Douglas Fir composition.
  - Sudden Oak Death has been documented on California bay trees on-site, but the extent of its presence has not been mapped.
  - Priority invasive species extents at Roy's and adjacent properties.

#### Additional Resources

##### **Voets, Stan. 1979. *Field Notes: Redwood Tree Heights*. Prepared for Marin County Department of Public Works. Corte Madera, CA.**

The handwritten forestry report documents the largest redwoods trees in the Preserve. The largest trees are located along the edge of the meadow with heights estimated at 190', 210', 224', 232' and 243'.

##### **May & Associates. April 2015. *Vegetation and Biodiversity Management Plan*. Prepared for Marin County Parks. San Rafael, CA.**

This management plan categorizes the Preserve as a high priority site for invasive plant mapping due to its percentage of legacy plant zones. The plan lists the conversion of the disturbed grassland habitat to native grassland as a potential restoration project for Roy's Redwoods. The following locally rare species are listed: *Leptosiphon acicularis* (bristly linanthus) and *Lessingia hololeuca* (wooly headed lessingia). The plan notes *Centaurea solstitialis* (yellow starthistle) and *Phalaris aquatica* (Harding grass) as important invasive plants to address.

**Benson, Shelly. 2016. *Roy's Meadow Grassland Community Assessment*. Prepared for Marin County Parks. San Rafael, CA.**

Field surveys of the meadow were conducted in May, July, and August 2016. The four vegetation communities observed were native shrubland, native wetland, non-native *Avena* spp.-*Bromus* spp dominated grassland, and non-native Alliance and *Cynosurus echinatus*-*Arrhenatherum elatius*/*Dichelostemma capitatum* Association grassland. The assessment estimated 60% of the meadow was non-native grasses. The survey noted the presence of the native perennial bunchgrass (*Danthonia californica*) as an indicator of the meadow's natural composition before land use disturbance.

**McBride, Joe and Jacobs, Diana. 1978. *Muir Woods: The History of the Vegetation of Muir Woods National Monument*. University of California. Berkeley, CA.**

**Evans, W.A. January 17, 1984. *Death of a tree*. Daily Independent Journal. San Rafael, CA.**

**Marin California Native Plants Society. 2015. *Roy's Redwoods and Maurice Thorne Preserves: A Plant Species Checklist*. Prepared for Marin County Parks. California Native Plant Society unpublished report.**

### 5.3.2 Fauna

San Geronimo Valley has maintained a protected network of open space and undeveloped rangelands through careful planning efforts that were adopted in the 1978 Community Plan and subsequent 1997 Community Plan. This network of protected lands includes the adjacent Maurice Thorne, Gary Giacomini, and French Ranch Open Space Preserves which provide nearly contiguous wildlife habitat within the San Geronimo Creek watershed (see San Geronimo Valley Watershed and Location map). Observations from the Wildlife Picture Index (WPI), a review of ebird.org, iNaturalist.org, staff observations, and citizen science has provided documentation of 14 mammals, 2 gastropods, 5 reptiles, 3 amphibians, 15 insects, and 67 bird species being sighted at Roy's Redwoods since 2011. A complete species list is provided in the appendix.

#### Coastal redwood forest dependent bird species

Of the 30 bird species historically present in the coastal redwood forest communities in Marin County, according to the Marin County Breeding Bird Atlas, 20 species have been recently sighted at Roy's Redwoods. The absence of the three heron and egret species typical of redwoods is not unusual given the inland location of the Preserve far away from coastal marshes. The presence of all but seven bird species dependent on redwood forest habitat at the Preserve is a positive indicator of the quality of the foraging and nesting habitat at Roy's Redwoods. Although the habitat provided at Roy's Redwoods is potentially suitable and within the range of the marbled murrelet (*Brachyramphus marmoratus*; G3G4 S1, Federally Endangered), it is not historically known to be present at Roy's Redwoods and is not documented in the Breeding Bird Atlas.



Scientific Name	Common Name	Special Status	Observed at Roy's	Redwood Forest Habitat Use
<i>Accipiter striatus</i>	sharp-shinned hawk	G5 S3, WL	No	Tertiary (N)
<i>Aegolius acadicus</i>	northern saw-whet owl	None	Yes	Primary
<i>Ardea alba</i>	great egret	G5 S4	No	Tertiary (N)
<i>Ardea herodias</i>	great blue heron	G5 S4	No	Tertiary (N)
<i>Cardellina pusilla</i>	wilson's warbler	None	Yes	Primary
<i>Cathartes aura</i>	turkey vulture	None	Yes	Tertiary (N)
<i>Catharus guttatus</i>	hermit thrush	None	Yes	Primary
<i>Certhia americana</i>	brown creeper	None	Yes	Primary
<i>Chaetura vauxi</i>	Vaux's swift	G5 S2S3, SSP	No	Secondary (N)
<i>Contopus cooperi</i>	olive-sided flycatcher	G4 S4, SSC	Yes	Secondary
<i>Cyanocitta stelleri</i>	Steller's jay	None	Yes	Primary
<i>Dryocopus pileatus</i>	Pileated woodpecker	None	Yes	Primary
<i>Egretta thula</i>	Snowy egret	G5 S4	No	Tertiary (N)
<i>Empidonax difficilis</i>	Pacific-slope flycatcher	None	Yes	Primary
<i>Haemorhous purpureus</i>	purple finch	None	Yes	Primary
<i>Junco hyemalis</i>	dark-eyed junco	None	Yes	Primary
<i>Leuconotopicus villosus</i>	hairy woodpecker	None	Yes	Primary
<i>Loxia curvirostra</i>	red crossbill	None	No	Tertiary (N)
<i>Pandion haliaetus</i>	osprey	G5 S4, WL	Yes	Tertiary (N)
<i>Patagioenas fasciata</i>	band-tailed pigeon	None	Yes	Secondary
<i>Poecile rufescens</i>	chestnut-backed chickadee	None	Yes	Primary
<i>Regulus satrapa</i>	golden-crowned kinglet	None	Yes	Primary
<i>Selasphorus sasin</i>	Allen's hummingbird	None	Yes	Primary
<i>Setophaga occidentalis</i>	hermit warbler	None	No	Tertiary (N)
<i>Sitta canadensis</i>	red-breasted nuthatch	None	No	Primary
<i>Sitta pygmaea</i>	pygmy nuthatch	None	Yes	Tertiary (N)
<i>Spinus pinus</i>	pine siskin	None	Yes	Primary
<i>Strix occidentalis caurina</i>	northern spotted owl	G4T4 S3S4, ST, FT	Yes	Primary
<i>Troglodytes hiemalis</i>	winter wren	None	No	Primary
<i>Turdus migratorius</i>	American robin	None	Yes	Secondary

(N) indicates that this habitat type is used only for nesting and not for foraging.

(CNDDDB Special Animals List rankings. G = Global Rank, S = State Rank, T = subspecies T-rank.

<https://www.wildlife.ca.gov/Data/CNDDDB/Plants-and-Animals>)

FT = Federally Listed - Threatened

ST = State Listed - Threatened

WL = CDFW Watch List

SCC = CDFW Species of Special Concern

### Rare, Threatened, and Endangered Species

- northern spotted owls (*Strix occidentalis caurina*; G3T3 S2S3, State and Federally Threatened).
  - Nesting behavior of northern spotted owls has been documented in the Coastal Redwood Forest at Roy's Redwoods for the past 14 years by Point Blue (formerly the Point Reyes Bird Observatory). Non-nesting pairs were observed between 2011 and 2015 and a successful nesting pair was observed in 2016. The old growth forest at Roy's Redwoods continues to be a viable and important nesting as well as foraging habitat. Field observations have noted the location of several woodrat nests, an important prey species, in the general vicinity of the redwood forest edge where it meets grasslands at the Loop Trail and David Hansen Trail junction.
- olive-sided flycatcher (*Contopus cooperi*; G4 S4 CDFW: Species of Special Concern). Documented onsite through ebird.org as recently as July 2017.
- oak titmouse (*Baeolophus inornatus*; G4 S4). Documented onsite through ebird.org 2017.
- osprey (*Pandion haliaetus*; G5 S4, CDFW Watch List) Documented onsite through ebird.org 2017.
- California giant salamander (*Dicamptodon ensatus*; G3 S2S3 CDFW: Species of Special Concern)
  - Anecdotal evidence suggests the species utilizes the area around the spring box. CA Roadkill Index has verified records of species killed during winter rainy day along Nicasio Valley Road north of Roy's Redwoods.
- American badger (*Taxidea taxus*; CDFW: Species of Special Concern). Documented by the WPI on adjacent public lands. Species is presumed to be present at Roy's Redwoods.
- pallid bat (*Antrozous pallidus*; G5 S3 CDFW: Species of Special Concern).

### Rare, Threatened, and Endangered Species on the adjacent properties and Preserves

- coho salmon (*Oncorhynchus kisutch*; G4T2Q S2?, State and Federally Endangered)
- steelhead trout (*Oncorhynchus mykiss*; G5T2T3Q S2S3, Federally Threatened)
- California freshwater shrimp (*Syncaris pacifica*; G2 S2, State and Federally Endangered)
- western pond turtle (*Emys marmorata*; G2G4 S3 CDFW: Species of Special Concern)
  - Anecdotally documented at golf course ponds across Nicasio Valley Road from Roy's Redwoods.
- California red-legged frog (*Rana draytonii*; G2G3 S2S3, Federally Threatened)
  - Suitable habitat?
  - No observation of species on site.
- Foothill yellow-legged frog (*Rana boylei*; G3 S3, State Candidate for Listing)
  - Suitable habitat?
  - No observation of species on site.
- Other aquatic species.
  - Many other species comprise the Lagunitas Creek aquatic community including native species such as the California roach, Sacramento sucker, Pacific lamprey, three-spine stickleback, prickly sculpin, riffle sculpin and Coast Range sculpin.
  - Presence in San Geronimo and Larsen Creek is unknown.

### Invasive Species

- Domestic cats, 4 detections from WPI.
- Bullfrogs in adjacent golf course ponds.
- Barred owls have not been documented at Roy's Redwoods.
- Wild turkey, 64 WPI detections (Not necessarily considered invasive).

The abundance of documented wildlife observations at Roy's Redwoods are indicative of the quality and diversity of habitat provided by the mix of grassland, woodland, old growth redwood forest, and aquatic environs protected at the Preserve. Though important to the aquatic species further down the watershed, the hydrologic study has confirmed that Preserve does not provide suitable habitat for fish species because freshwater flows of upper Larsen Creek are ephemeral in nature. Documentation of road kills along Nicasio Valley Road near the Preserve indicate that it is used by the California giant salamander.

The hydrologic study by PCI provides several recommendations for hydrologic restoration in the terrace redwood stand. These opportunities to improve the hydrologic function of the alluvial valley could potentially benefit aquatic species by slowing flow in the rainy season, improving groundwater recharge, and extending ephemeral flows longer into the dry season. Another recommendation to allow woody debris to accumulate naturally in the terrace redwood stand, without human disturbance, would also reduce erosion and create more complex habitat for wildlife. Restoration of the understory vegetation in the terrace would also have the multi-benefit of improving hydrologic function while providing more wildlife habitat complexity and diversity under the redwood canopy.

The wildlife habitat value of the meadow is still not well understood; however, it is not likely to be used by the northern spotted owl as foraging habitat (personal communication with Point Blue staff). Historically, the meadow was grazed by cattle and then designated a high visitor use area for activities such as weddings and social gatherings. The meadow was mowed to reduce the risk of wildfire and accommodate the high level of use in the meadow. This activity has all but ceased since MCP stopped mowing it in 2011.

### Opportunities for further study

- The hydrological benefits of realignment and/or decommission of the Meadow Trail.
- Study opportunities for wildlife passage across Nicasio Valley Road and Sir Francis Drake Blvd.
- Does the meadow provide an important wildlife habitat and/or food source? Could restoration improve habitat value?
- Is there suitable habitat for red-legged or yellow-legged frogs?

### Wildlife Mapping

- Completed
  - Several dusky-footed wood rat nests were documented when near trails in the Preserve. A comprehensive survey has not been completed.
- Data Sources
  - Point Blue / Point Reyes Bird Observatory northern spotted owl monitoring reports
  - E-bird <https://ebird.org/hotspot/L1153821>
  - WPI
  - iNaturalist
  - CA Roadkill Index

## Reference Documents

**Cormier, R.L. 2004 - 2016. *Northern Spotted Owl monitoring on Marin County Open Space District and Marin Municipal Water District Land in Marin County.* Prepared for Marin County Open Space District. San Rafael, California. 2005 to 2016 season summaries. Point Blue Bird Observatory unpublished reports.**

Point Blue Bird Observatory has conducted annual monitoring for Northern Spotted Owls at the Preserve since 2004. Nesting pairs have been documented as successfully fledging at least one young in 2005, 2006, 2009, 2010, 2011 and 2016. Northern Spotted Owls that were considered non-nesting or their nesting status was unknown were observed in the remaining seven years the survey was conducted between 2004 and 2016.

**Marin Wildlife Picture Index Project. September 2014 to present. *Wildlife Picture Index: Roy's Redwoods and French Ranch.* Prepared for One Tam Initiative. Petaluma, CA. Retrieved on April 21, 2017 from: <http://www.marincountyparks.org/depts/pk/our-work/os-main-projects/marin-wildlife>**  
One Tam installed eighteen cameras at the Roy's Redwoods and French Ranch Open Space Preserves. The species documented on the two Preserves between September 2014 and December 2015 included: coyote, bobcat, badger, black-tailed hare, Sonoma chipmunk, brush rabbit, striped skunk, grey fox, and many smaller rodents.

**iNaturalist. March 25, 2017. *One Tam Bioblitz on Roy's Redwoods.* Retrieved from <http://www.inaturalist.org/projects/one-tam-roy-s-redwoods-bioblitz>**

One Tam and Marin County Parks hosted Roy's Redwoods' first Bioblitz in March 2017. There were 25 volunteer participants and over 150 species observed.

**May & Associates. April 2015. *Vegetation and Biodiversity Management Plan.* Prepared for Marin County Parks. San Rafael, CA.**

Marin County Vegetation Management Plan cited wildlife surveys that observed the following special-status species found on the Preserve: northern spotted owl, olive-sided flycatcher, Cooper's hawk, pallid bat, and American badger.

*Note: The following literature resources pertain to Larsen Creek and the San Geronimo Creek Watershed and generally focus on fisheries issues downstream of the upper Larsen Creek reach in Roy's Redwoods.*

**The Watershed Stewards Project/AmeriCorp. 2005. *Stream Inventory Report: Larsen Creek.* Prepared for Marin Municipal Water District. Corte Madera, CA.**

**Stillwater Sciences. 2009. *San Geronimo Valley Existing Conditions Report.* Prepared for Marin County Department of Public Works, San Rafael, CA.**

**Ettlinger, E. L., et al. 2008. *Lagunitas Creek salmon spawner survey report 2006-2007.* Prepared for Marin Municipal Water District. Corte Madera, CA.**

**Prunuske Chatham, Inc., et al. February 9, 2010. *San Geronimo Valley Salmon Enhancement Plan: A Guidance Document.* Prepared for Marin County Department of Public Works. San Rafael, CA.**

This document details a plan to maintain and improve salmonid habitat throughout the San Geronimo Valley. The plan provides recommendations for the lower reaches of Larsen Creek but nothing specific to upper Larsen Creek in Roy's Redwoods.

Love, Michael. December 4, 2013. *Technical Memo: Basis of Design for Fish Passage Improvements at Larsen Creek Culvert, San Geronimo, CA*. Prepared for Marin County. San Rafael, CA.

Agha, Laith. July 29, 2014. *Habitat restoration at San Geronimo golf course to aid salmon*. Marin Independent Journal. Novato, CA.

#### 5.4 HISTORICAL CONTEXT AND CULTURAL RESOURCES

The first people of the San Geronimo Valley were speakers of the Coast Miwok language and were present until the arrival of Europeans in the late 18<sup>th</sup> century. The Preserve and the area of focus contains environmental features, such as foothill/valley interfaces and ephemeral creeks, that are commonly associated with prehistoric cultural resources. A small portion of Roy's Redwoods, on the south side of the Preserve, has been formally surveyed for archaeological resources and a prehistoric archaeological site has been identified. Areas with any potential visitor improvements planned, particularly those involving ground disturbing activity, should be subject to archaeological archival review and site survey.

Roy's Redwoods is named after the brothers James and Thomas Roy, who in 1877 owned the property that became the Preserve. The redwood grove in the Preserve was selectively logged in the late nineteenth century and several old-growth redwoods were left standing that are estimated to be around 500 years old. The property, as with the rest of the San Geronimo Valley, was primarily used for agricultural grazing from the time Europeans arrived in the mid-1850's until the mid-1950's. Cattle grazing was continued at the Preserve until 1978. In the 1960s this property was planned for development with single-family residences, and it was part of the vision for 20,000 new residents in the San Geronimo Valley according to the 1961 Master Plan. In reaction to the potential for greatly increased urban and commercial development in the valley, an ad hoc community group organized to develop the San Geronimo Valley Community Plan which was ultimately adopted in 1978. The Community Plan established the preservation of open space in the valley as a key element to the plan which led to the acquisition of Roy's Redwoods in 1977 and it's founding as the first County Open Space Preserve in the San Geronimo Valley.

In conversations with Jean Berensmeier, who played a major role the Preserve status, within months of opening to the public the redwood understory was trampled due to the Preserves popularity and lack of formal trails. The Open Space District was also forced to provide trash receptacles and a toilet on-site. Though it is not clear if attributable to historical cattle grazing or to visitor use, the LMP for Roy's Redwoods, notes that within the terrace stand stream banks had been degraded, loss of native vegetation had occurred, and soils had been compacted. The LMP also focuses on the large impact of permitted and unpermitted use of the meadow area especially with issues of compaction and litter.

##### Opportunities

- Consider how to interpret the history of Roy's Redwoods, particularly the story of protecting Roy's Redwoods as the first open space preserve in the San Geronimo Valley.

##### Reference Documents

**San Geronimo Valley Board of Supervisors and Planning Committee. 1961. *San Geronimo Valley Master Plan*. Prepared for Marin County Planning Department, San Rafael, California.**

The 1961 Master Plan was adopted while the Roy's property was owned by the Lagunitas Development Company. The Plan anticipated a building boom in the Valley. It proposed protecting the redwood forest while developing the remaining property with single-family homes. The golf course was built on a portion of the Roy's property right before this plan was adopted.

**San Geronimo Valley Planning Group. 1978. *San Geronimo Valley Community Plan*. Prepared for Marin County Planning Department, San Rafael, California.**

The San Geronimo Planning Group was developed in response to the 1961 Master Plan. The new Community Plan that was adopted in 1978 would significantly decrease the amount of residential and commercial development proposed in 1961. The approval of this plan resulted in the County's acquisition of the Roy's Redwoods property in 1977. It was the first open space property protected in San Geronimo Valley.

**Brian Wittenkeller & Associates. 1989. *Land Management Plan for Roy's Redwoods and Maurice Thorne Memorial Open Space Preserves*. Prepared for Marin County Open Space District. San Rafael, California.**

This management plan is a very important reference document for a baseline understanding of the Preserve early in its years as a public open space. The management plan articulates some of the early visitor use and ecosystem management issues, many of which are still present. Many of the plans recommendations were implemented and have resulted in the existing visitor use framework that exists today.

**San Geronimo Valley Planning Group. 1997. *San Geronimo Valley Community Plan*. Prepared for Marin County Planning Department, San Rafael, California.**

The 1997 Community Plan describes two trail easements on the Spirit Rock property for a ridge trail connection to Loma Alta Open Space as well as a trail connection to Dickson Ranch. The trail and tunnel connection under Sir Francis Drake Blvd to Dickson Ranch has been constructed. The ridge trail connection to Loma Alta has not been completed because an easement has not been acquired across one of the three necessary properties.

**Marin County Community Development Agency. Adopted 2007. *Marin Countywide Plan*. San Rafael, California.**

The Marin Countywide Plan establishes a framework for the management of Marin County's Natural Systems, which includes biological resources, water resources, open space, and trails, as well as the County's Socioeconomics, which includes historic and archaeological resources in addition to parks and recreation. Resource management decisions at Roy's Redwoods must be consistent with the Countywide Plan.

**Dodd, Brian and Berensmeier, Jean. Retrieved on June 28, 2017. *History of the San Geronimo Valley*. Retrieved from <http://www.sgvcc.org/resources/valley-history/>**

Describes the rich history of the San Geronimo Valley and Roy's Redwoods. Provides the framework for how the San Geronimo Planning Group aligned the Community and County for the protection and funding of Roy's Redwoods and the three other Open Space Preserves in the Valley (Maurice Thorne OSP, Giacomini OSP and French Ranch OSP).

## 5.5 RECREATION AND PUBLIC ACCESS

The multi-use trail network on the Preserve connects to and across Maurice Thorner Open Space, French Ranch Open Space, Spirit Rock Retreat Center, Dickson Horse Ranch, and San Geronimo Golf Course (see Preserve map). There are approximately 3.8 miles of formal trails in the Preserve, of which 3.2 miles are open to equestrian use, and the 0.9 mile fire road portion is open to bicyclists. The trails allow on-leash dogs and allow off-leash while under strict voice command on the fire road. Existing trails consist of; Roy's Redwoods Loop Trail, Dickson Fire Road, David Hansen Trail, Meadow Trail and an unofficial series braided social trails through the terrace redwood stand and to other destinations of interest. Informal parking along Nicasio Valley Road serves as a trailhead which has existing wayfinding signage, a screened portable toilet, and trash receptacles.

### Existing Trails

The Roy's Redwoods Loop Trail was originally cut by Open Space District trail crew in the 1980's with a trail machine nicknamed "Freddy" (Roy's Redwood Stories, David Hansen). This trail is for hikers, equestrians and dogs on leash. The 2.3 mile trail loops around the southern half of the Preserve and users experience all of the different habitat types. The trail has moderate climbs with approximately 540 feet of elevation gains. The trail connects to all of the other trails in the Preserve as well as to adjacent open spaces via the Spirit Rock Trail, the Thorner Ridge Trail, and the Barnabe Mountain Fire Road. The visitor use survey and online descriptions of trails at Roy's Redwoods indicate that the loop is the most popular designated trail in the Preserve. Improvements to the to a large segment of this trail, primarily along the southern boundary of the Preserve, were implemented in 2016 with the Roy's Loop Trail Upgrade Project. The upgrade project included several wet-water crossings and tread treatments designed to improve visitor safety and reduce the potential for sediment loading to the San Geronimo Creek watershed.

The Meadow Trail is a quarter mile hiker only trail that begins at the Nicasio Valley Road trailhead and connects with the Roy's Redwoods Loop Trail just beyond the northeastern extent of the terrace slope stand. The Meadow Trail goes through the open meadow and offers views of old growth redwoods and leads to the popular "fairy ring" destination within the redwood and bay forest. This trail is typically at least 4 feet wide and has a gradual slope. The meadow was historically a popular destination but is now typically used as a route to the redwoods. The view of the redwood forest from the meadow gives a unique perspective of the full height of the redwoods.

The David Hansen Trail, named for the Open Space District planner who negotiated the purchase of Roy's Redwoods, is a short out-and-back trail that begins at the ridgeline saddle junction with the Roy's Redwoods Loop Trail. The 0.4 mile trail is hiker only and has elevation gains of approximately 280 feet. This trail goes through important habitat provided by old growth redwood forest and Douglas fir dominated forest and it roughly follows the eastern extent of the slope redwood stand. There are two well used spur social trails that originate near the David Hansen / Loop Trail junction. One leads uphill to a destination viewpoint and to the spring which feeds the main tributary to Larsen Creek. The other cuts off a forested segment of the Loop Trail with an open grassland shortcut.

The Dickson Ridge Fire Road, also called Dixon Ridge, is the only route open to bicyclists in the Preserve. It begins at a gated trailhead along Nicasio Valley Road near the Barnabe Mountain Fire Road. The fire-road has sustained grades up to 30% and an average grade of 22% over the 0.9 miles to the ridgeline where it meets the Preserve boundary. The 2016 Draft Roy's Redwood Fire Road Erosion and Drainage

Assessment by Timothy Best evaluates the current erosion and drainage conditions of the fire road. The study identifies two segments of the fire road. Segment 1, which extends 1,700 feet along the fall-line from Nicasio Valley Road to the ridge top, has concentrated runoff and a rutted surface. According to Timothy Best and the work of the PCI, many portions of this segment have eroded to bedrock and is not currently a source of sediment delivery to the watershed. However, maintaining this segment is likely unsustainable and Marin County Fire is amiable to abandoning this segment and utilizing the much more sustainable existing fire road through the adjoining private property. Decommission of Segment 1 and conversion to multi-use trail could provide a recreational benefit as well as prevent future potential erosion. Segment 2 of the fire road extends along the ridgeline for approximately 3,000 feet and is generally sustainable but requires drainage improvements and some slight alignment rerouting.

Within the terrace redwood stand there are at least 1300 feet of undesignated trails that form a braided network through grove (see Social Trail & Creek Crossings map). The social trail network connects to the Meadow and Loop Trails at approximately 10 distinct locations. In addition to these well-worn linear paths there are large areas of heavy compaction and denuded understory where visitors tend to gather. Many of these trails and large areas of disturbance are associated with key destinations or features such as the fairy ring trees, large or charismatic trees, or large downed trees. One prominent route generally follows the south side of braided alluvial floodplain of Larsen Creek along the hillside from the trailhead area to the northeast edge of the terrace stand. A second prominent unofficial trail follows the main tributary of Larsen Creek from the northeastern part of the terrace stand up to the Loop Trail, near its junction with the David Hansen Trail, and then continues on to the spring.

#### Circulation and Key Destinations

Besides the redwoods grove in general, within the terrace redwood stand there are several key destinations that were pointed out during the workshops and are indicated by visitor use patterns. These destinations include the two very large downed redwood, the two fairy, a grove of very charismatic redwoods along the hillside, and the redwoods that were burned by the 2014 fire (see Area of Focus map). Nearly all of these key destinations are located within the alluvial flood plain and braided channel system of Larsen Creek. There are at least 20 informal locations where visitors are crossing creek channels within the alluvial floodplain (see Social Trails & Creek Crossings map). Typically, any of the large diameter redwoods in the terrace stand have compacted soils and denuded vegetation surrounding them, the only exception being many of the very large redwoods bordering the meadow which are protected by dense poison oak. Visitor feedback from the workshops and survey indicate a strong preference for loop trail experiences. Potential visitor circulation improvements should consider opportunities to provide access to a range of the key destinations and experiences while limiting trail redundancies and protecting sensitive resources.

#### Inclusive Access

Providing universal access to an immersive experience of the old growth redwood trees is a fundamental goal of the visitor experience improvements under study at the Preserve. Existing barriers include eroded trails, downed logs, and a lack of clearly delineated trails all of which have a major impact on access for those with limited mobility. Any visitor experience or trail improvements should consider upgrading the meadow trail or a similar trail experience to meet outdoor accessibility standards. The MCP Inclusive Access Plan identified the Meadow Trail to be upgraded to an Access and Discovery Trail.

*“The Access and Discovery Trail system is an experience-based network of trails that will provide varied and immersive user experiences broadly representative of the array of outdoor settings available within the MCOSD preserves. These trails will meet or exceed*



*the technical standards for accessible recreational trails and incorporate the principles of Universal Design to accommodate the needs of users” (Marin County Parks, Inclusive Access Plan, July 2016)*

The MCP Access and Discovery Trail Improvement Plan identifies the fairy ring as an opportunity to interpret the ability of redwoods to regenerate from the established root system of a dead or logged parent tree. Several portions of the Meadow Trail are currently in poor condition with rilling and uneven surfaces caused by the erosive force of concentrated flows on the tread. The Trail Improvement Plan was written with the understanding that a future meadow restoration project was being considered and it leaves the possibility of an alternate alignment of the Access and Discovery Trail at the Preserve. The Trail Improvement Plan also proposed additional improvements to make the trailhead parking area and entry gate consistent with accessible recreational trail standards. These trailhead improvements were implemented during the Roy’s Loop Trail Upgrade Project in 2016.

### Nature Play

The experience of exploring the redwoods is also commonly sought by adult and young visitors alike. The Preserve is an easy hike from the San Geronimo Valley schools and the opportunities for education and play provided by the redwood grove are important to the children and educators. School groups are supervised by a teacher and/or teacher aid when visiting. Establishing a structured or guided experience that provides opportunity to play and explore while in balance with preserving habitat would be appreciated by the school district.

Woody debris is an important component of quality understory habitat and hydrologic function. The use of fallen branches for fort building and other play is very common in the terrace stand and is impactful to habitat. Areas of concentrated visitor play are also resulting in compaction and denuded vegetation. A potentially more appropriate or resilient play environment might be within the California Bay understory as the allelopathic nature of the bay duff makes the understory naturally less dense. The Fairy Ring Tree is adjacent to a bay dominated area and is a key trail and visitor destination which might warrant consideration a tolerated play area. Visitor experience improvements should consider a structured or guided experience that provides opportunity to play and explore while in balance with preserving habitat.

### Trailhead Parking

The current road shoulder along Nicasio Valley Road is approximately 10-12 feet wide and is used as informal parking at the trailhead. This informal parking can accommodate dozens of vehicles. The speed that cars travel and lack of passible space for visitors along Nicasio Valley Road is a safety concern. The noise generated by traffic is also disruptive to the experience of the redwood grove.

### Amenities

The trailhead at the Preserve is outfitted with a portable toilet as well as trash receptacles. A wayfinding and interpretive kiosk sign was installed at the trailhead in 2018. To accommodate equestrian use, hitching posts are installed at the trailhead as well as at the northwest corner of the meadow next to a stock water tank. The stock water tank was developed as a recommendation of the 1989 Land Management Plan and is fed by water piped from the spring on Larsen Creek.

### Opportunities for further study

- Study traffic calming measures and trailhead safety improvements along Nicasio Valley Road.
- Visitor use impacts to wildlife in sensitive habitat areas.

## Reference Documents

**Brian Wittenkeller & Associates. 1989. *Land Management Plan for Roy's Redwoods and Maurice Thorne Memorial Open Space Preserves*. Prepared for Marin County Open Space District. San Rafael, California.**

The Plan calls for five priority trail system improvements at the Preserve. All the improvements have been constructed except for the fire road trail connection to Loma Alta Open Space along the ridgeline. Trail easements have not been acquired for the length of the connection.

**Environmental Planning Partners, et al. 2014. *Marin County Open Space District Road and Trail Management Plan*. Prepared for Marin County Parks. San Rafael, CA.**

The Management Plan describes potential hydrologic issues on Roy's Redwoods trail and road system because of the steep terrain, erosive soils and numerous stream crossings. The Plan calls out gullying on Roy's Loop Trail and Dickson Fire Road.

**Best, Timothy. 2014. *DRAFT Engineering Geologic and Geotechnical Review: Upgrade and Improvement of the Roy's Redwood Loop Trail*. Prepared for Marin County Parks. San Rafael, CA.**

The Roy's Redwoods Loop trail was upgraded according to this plan in 2016-2017 with Measure A funds.

**Best, Timothy. 2016. *DRAFT Roy's Redwood Fire Road Erosion and Drainage Assessment*. Prepared for Marin County Parks. San Rafael, CA.**

Prepared to evaluate the condition of the Dickson Fire Road located within the Preserve and to develop recommendations for improved access and to reduce the risk for future erosion. Review of the fire road focuses on measures/upgrades that can be immediately implemented to improve road conditions and reduce the risk for road related erosion and associated impacts to water quality. Included in this report and accompanying plan sheets are short to intermediate term recommendations to improve the road (both the road bed and drainage).

**MIG. 2016. *Inclusive Access Plan*. Prepared for Marin County Parks. San Rafael, CA.**

The Marin County Inclusive Access Plan and the Access and Discovery Trail Improvement Plan calls for the Meadow Trail to be upgraded to outdoor accessible from the parking area to the fairy ring of old-growth redwoods. The parking area and trail connection would need to be upgraded to meet accessibility guidelines.

**Dodd, Brian and Berensmeier, Jean. Retrieved on June 28, 2017. *History of the San Geronimo Valley*. Retrieved from <http://www.sgvcc.org/resources/valley-history/>**

This historical description notes the old-growth redwood grove and adjacent meadow have been used for weddings, memorial services, picnics, summer camps, school groups, as well as commune encampments.

# **ROY'S REDWOODS OPEN SPACE PRESERVE**

## **SITE ANALYSIS TECHNICAL MEMO - APPENDICES**

**DRAFT NOVEMBER 9, 2018**



## **APPENDICES**

### **6.0 VISITOR USE SURVEY**

### **7.0 ROY'S REDWOODS SPECIES LIST**

### **8.0 MAP ATLAS**

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8.3 PRESERVE MAP

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### **9.0 WORKSHOP AND MEETING NOTES**

# ROY'S REDWOODS OPEN SPACE PRESERVE

## VISITOR USE SURVEY FINAL REPORT

June 12, 2018

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### SURVEY INTENT

The purpose of this survey was to gather data to enrich the Project Team's understanding of current users of Roy's Redwoods Open Space Preserve, including user patterns, values, interests, expectations and experiences. This information will be considered when developing future site enhancements, to ensure subsequent actions maintain or improve quality of both visitor experience and of the Preserve's natural resources.

### SURVEYS COMPLETED

- Between May 2017 and March 2018 a total of 15 onsite survey days were conducted across a range of days, times, and weather conditions. Surveyors engaged visitors during 5 weekend days, a holiday weekend day, 9 week days, and 2 days with flowing water in Larsen Creek.
- 117 individual surveys were completed.

### RESULTS SUMMARY

- 76% of visitors had visited Roy's Redwoods four times or less in the past year and 46% had come for the first time. There is a very small number of visitors that visit on a more daily or weekly basis.
- When asked what brings you to Roy's Redwoods Open Space Preserve today "Be in Nature" and "The Redwoods" were the top two responses with 72% and 71% respectively. However, when asked what the primary reason for visiting was, 38% of people come to Roy's Redwoods primarily for "the redwoods; being in and around the big redwood trees", while 18% of visitors come primarily to "be in nature".
- Typically, people experience the redwoods by hiking through the redwood grove;
  - 42% would prefer to hike without a formal trail;
  - 31% would prefer a formal trail; and
  - 27% have no preference.
- People have a very positive and safe experience while visiting Roy's Redwoods.
- The health of the natural systems at Roy's Redwoods is perceived as good (36%) or very good (43%). (Note: there are significant issues with the health of the ecosystem in the project area particularly with a denuded vegetative understory, eroding creek channels, and highly compacted soils. Many of these issues are directly associated with the lack of a formal trail network)

### REPORT CONTENTS

- Survey Methodology
- Roy's Redwoods Visitor Use Survey Results
- Surveyor Exit Data
- Roving Surveyor Observations Maps

## PURPOSE STATEMENT

The purpose of this survey is to gather data to enrich our understanding of current users of Roy's Redwoods Open Space Preserve, including user patterns, values, interests, expectations and experiences. This information will be considered when developing future site enhancements, to ensure subsequent actions maintain or improve quality of both visitor experience and of the Preserve's natural resources.

## RESEARCH OBJECTIVES

- Collect data during a total of 25 survey days between May and October 2017, using a mix of holidays (2), weekends and weekdays. Surveys will be conducted during a mix of morning and afternoon and evening hours.
- Data will be collected using both responses from a visitor intercept exit survey and passive observations of visitors made by surveyors.
- After the collection period, data will be aggregated, analyzed and subsequently compiled into a summary report.

## INTERCEPT SURVEY KEY DATA POINTS

- Prior visitation; frequency
- Length of visit
- Trip characteristics
- Activities undertaken in the Preserve
- Destination(s) within the Preserve
- Primary reason for visit
- Trails used
- What respondents like most about the site (Overall quality of the experience)
- What respondents like least about the site (Reasons felt unsafe or dissatisfied)
- Suggestions on how the Preserve can be improved to enhance visitor experience or improve health of natural resources
- Enhance understanding of visitor valuation of site ecological health
- Respondent residence/zip code

## PASSIVE OBSERVATION KEY DATA POINTS

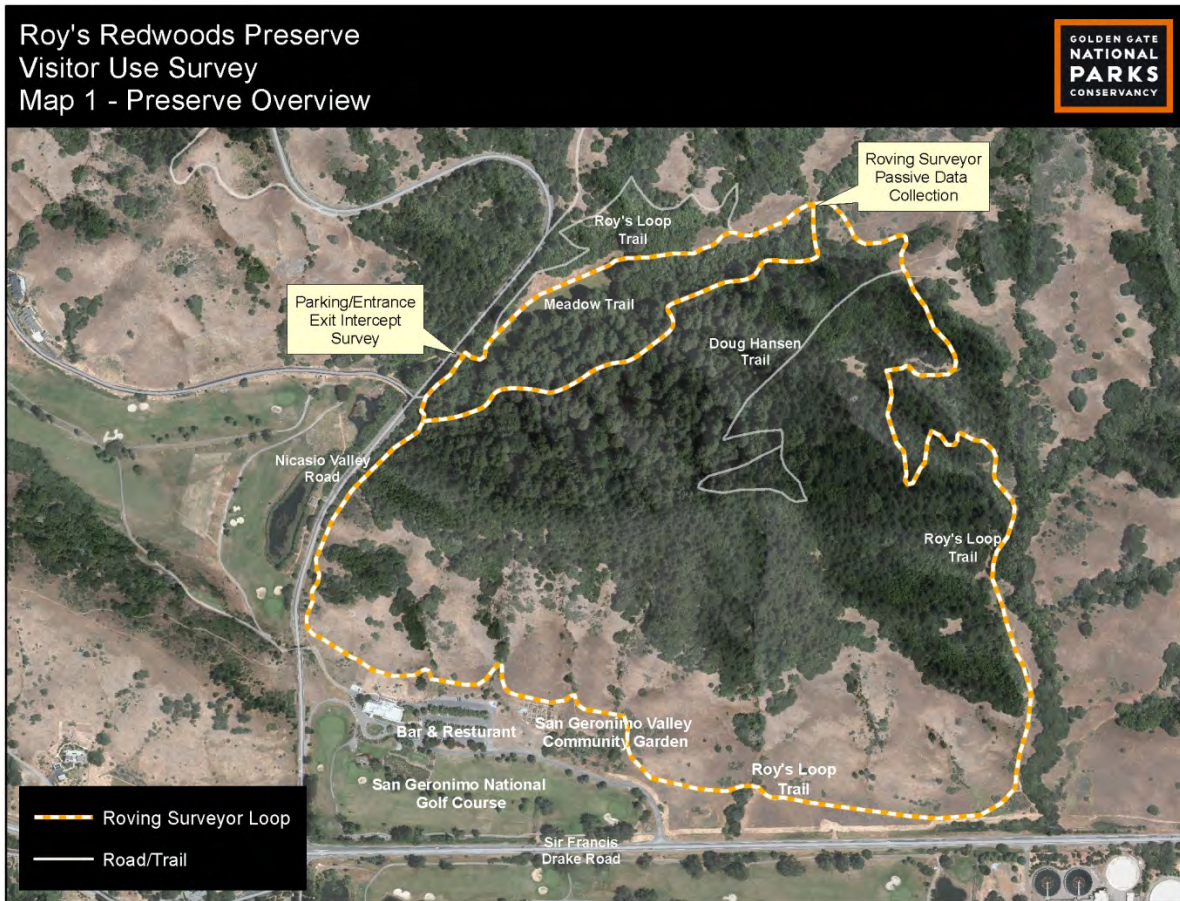
- Date, time of contact
- Weather conditions and impacts on use
- Group size, approximate age, gender
- Group activity – walk, dog-walk (on or off leash), horseback or jog
- Areas accessed by visitors, including the Meadow and Redwood Grove, and trails used (both designated and/or non-designated)

## DATA COLLECTION SITES<sup>1</sup>

<sup>1</sup> See Map 1 – Preserve Overview

Roy's Redwoods Open Space Preserve is located in the San Geronimo Valley in Marin County. The Preserve is primarily accessed from an entrance along Nicasio Valley road, approximately ½ mile north of the intersection with Sir Frances Drake road, where limited roadside parking currently exists.

- One visitor intercept exit surveyor will be placed at the Preserve entrance on Nicasio Valley road
- One roving observer will circulate the network of designated and non-designated trails in and around the Meadow, Redwood Grove and, twice daily, walk the Roy's Loop Trail to collect observational data on areas accessed, trails used, visitor characteristics, etc.



## OVERALL DESIGN

The visitor use survey design for Roy's Redwoods Open Space Preserve is based on previous efforts undertaken by Marin County Parks<sup>2</sup> and the Golden Gate National Recreation Area<sup>3</sup>. This survey is

<sup>2</sup>"Marin County Parks Visitors Study Report Part I", Patrick Tierney Ph.D., San Francisco State University, March 2016

<sup>3</sup>"Summer-Fall 2008 Phase 1 Visitor Survey and Counts, At Chrissy Field, Presidio and Ocean Beach Sites; Golden Gate National Recreation Area", Patrick Tierney Ph.D., November 2009

designed to balance the need for data specific only to the Preserve, while maintaining some level of formal scientific survey methods and procedures.

Because Roy's Redwoods Open Space Preserve is thought to be a site with comparatively low visitation numbers, every group to pass the survey location upon *exiting* the Preserve will be contacted by a trained surveyor. Visitors are surveyed upon exiting the Preserve to ensure that the information obtained by the survey relates to their present experience. The surveyor will read from a prepared script and ask for survey participation – visitors will be offered a free one-day Marin County Parks pass as incentive for participation. For each contact made the surveyor will complete an entry into a survey log. Even if the visitor declines to take the survey, the surveyor will complete an exit survey data sheet for each contact (see attached).

On select days a roving surveyor will also be used to collect passive observational data on areas accessed by Preserve visitors. The "rover" will circulate the network of designated and non-designated trails in and around the area of interest, which includes the Meadow and several adjacent redwood groves, and complete a data sheet (attached) for each visitor or group of visitors observed. The rover will also annotate a map accompanying the data sheet, indicating areas accessed and trails used. This information will be used to better understand the circulation patterns and preferred routes of access for various user groups of the Preserve.

Surveys days will alternate between morning-afternoon (7:30am – 4:00pm) and afternoon-evening (10:30am – 6:30pm) shifts. This will ensure that visitor use data collected does not bias towards one set of users over another. Data will be collected for a minimum of 25 survey days, including 2 holidays, over the survey period from May through October 2017, with the goal of obtaining approximately 300 unique exit surveys completed. Survey days will include an equal number of weekend and weekday surveys to eliminate sampling bias. A roving surveyor will be present to collect data on select survey days, alternating between morning-afternoon and afternoon-evening shifts. Roving survey shifts will be scheduled to ensure that an equal number of survey periods are conducted for both weekends and weekdays. Weekends are defined as beginning with the afternoon-evening collection period on Friday and ending with the afternoon-evening collection period on Sunday. As the rainy season begins, a minimum of 3 survey shifts will be scheduled on forecasted rain days to gather data on how weather may impact visitor use. Once surveying has begun and initial responses are collected, adaptations to the overall survey design and/or survey methodology may be undertaken in response to any difficulties or issues.

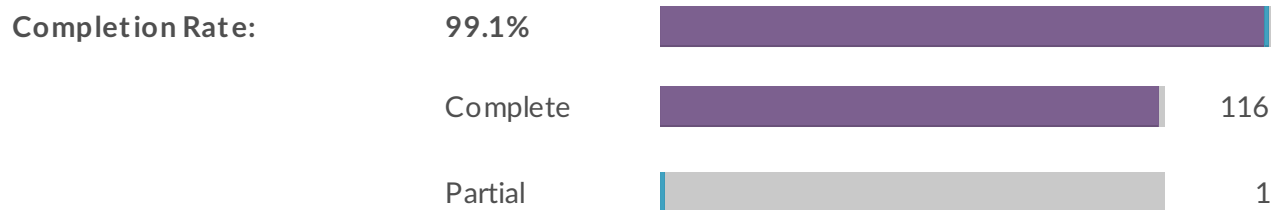


# Roy's Redwoods

## Visitor Use Survey Results

### June 12, 2018

#### Response Counts



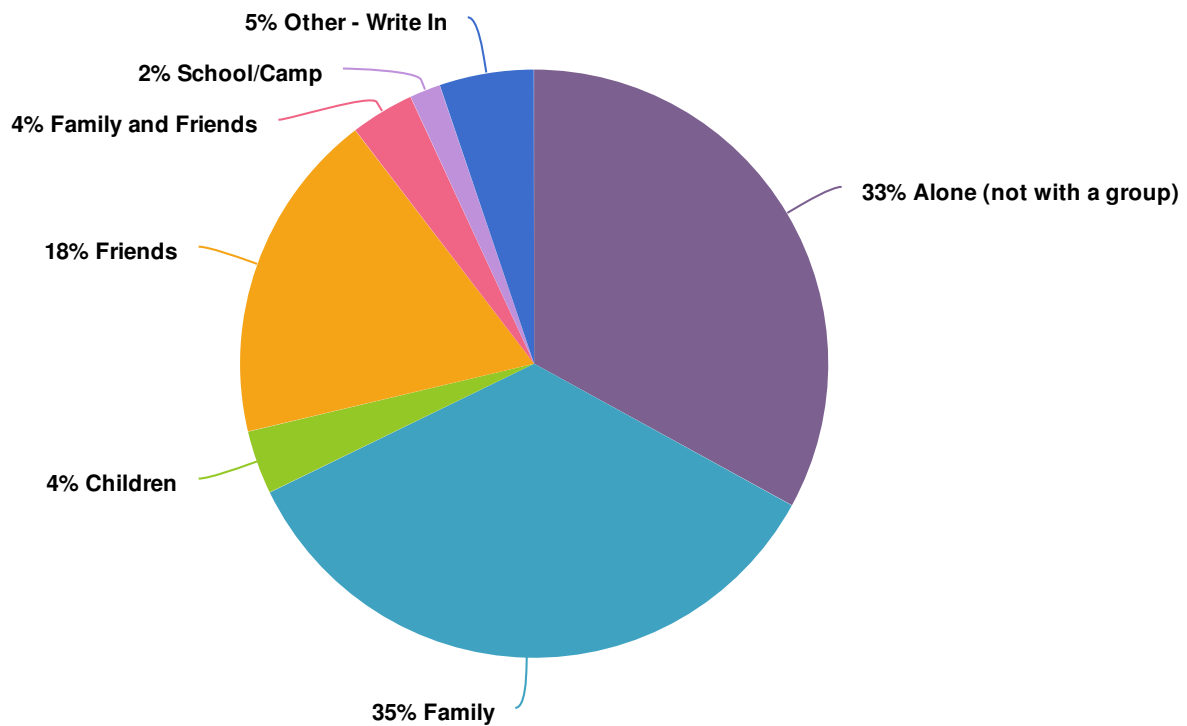
Totals: 117

1. Including today, approximately how many times have you visited Roy's Redwoods in the past 12 months?

Response	Count
1	48
2	12
3	12
4	7
5	6
6	3

Response	Count
8	1
10	2
12	3
13	1
15	1
16	1
24	1
30	1
40	1
45	1
50	1
100	1

2. What kind of group (if any) are you with today? (please select one)

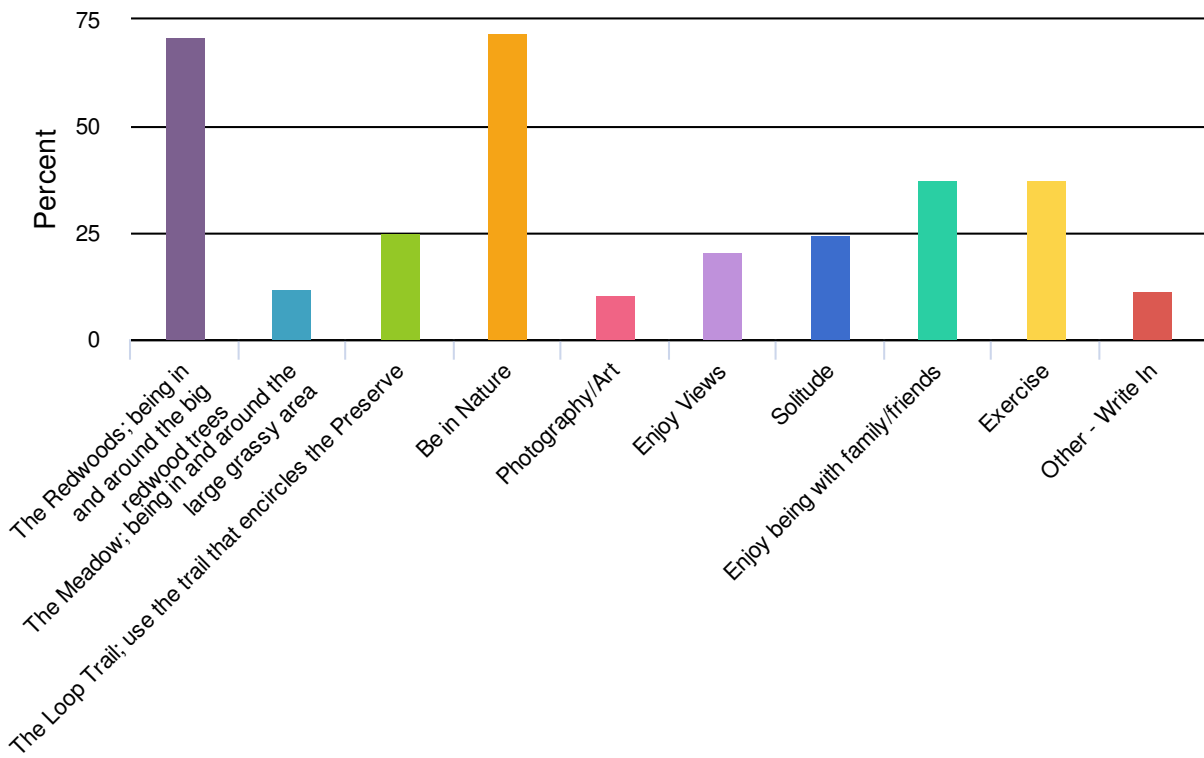












Value	Percent	Responses
Alone (not with a group)	33.0%	38
Family	34.8%	40
Children	3.5%	4
Friends	18.3%	21
Family and Friends	3.5%	4
School/Camp	1.7%	2
Other - Write In	5.2%	6

Totals: 115

Other - Write In	Count
Dog hike	1
Gf	1
I bring a special needs client here, and come here by myself or with friends	1
Jen Berensmeier sponsored group	1
Spirit Rock Teen Group	1
organized group	1
Totals	6

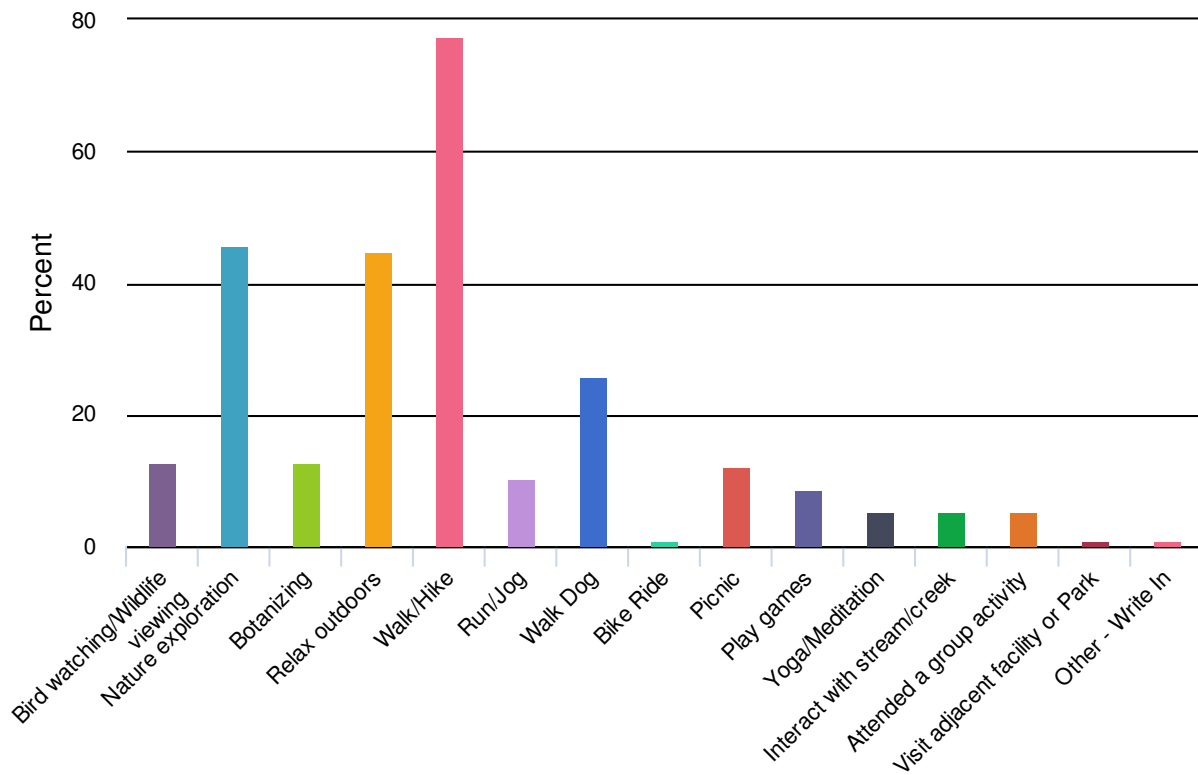
3. What brings you to Roy's Redwoods Open Space Preserve today? (mark all that apply)


















Value		Percent	Responses
The Redwoods; being in and around the big redwood trees		71.3%	82
The Meadow; being in and around the large grassy area		12.2%	14
The Loop Trail; use the trail that encircles the Preserve		25.2%	29
Be in Nature		72.2%	83
Photography/Art		10.4%	12
Enjoy Views		20.9%	24
Solitude		24.3%	28
Enjoy being with family/friends		37.4%	43
Exercise		37.4%	43
Other - Write In		11.3%	13

Other - Write In	Count
Dog walk	2
Bike ride	1
Dog	1
Dog friendly	1
Nature is a teacher in the Thai Forest Buddhist tradition. So we bring the teens to not only to engage in relational mindfulness practices, but also to imbue themselves in the peace, solitude, steadiness, and quiet of the redwoods and the land.	1
School decided I don't know why...	1
Test out new umbrellas	1
hear Jean's talk	1
learn about history of Roy's Redwoods	1
therapy	1
yoga and meditation	1
Totals	12

4. What kinds of activities did you participate in today at Roy's Redwoods?  
(mark all that apply)

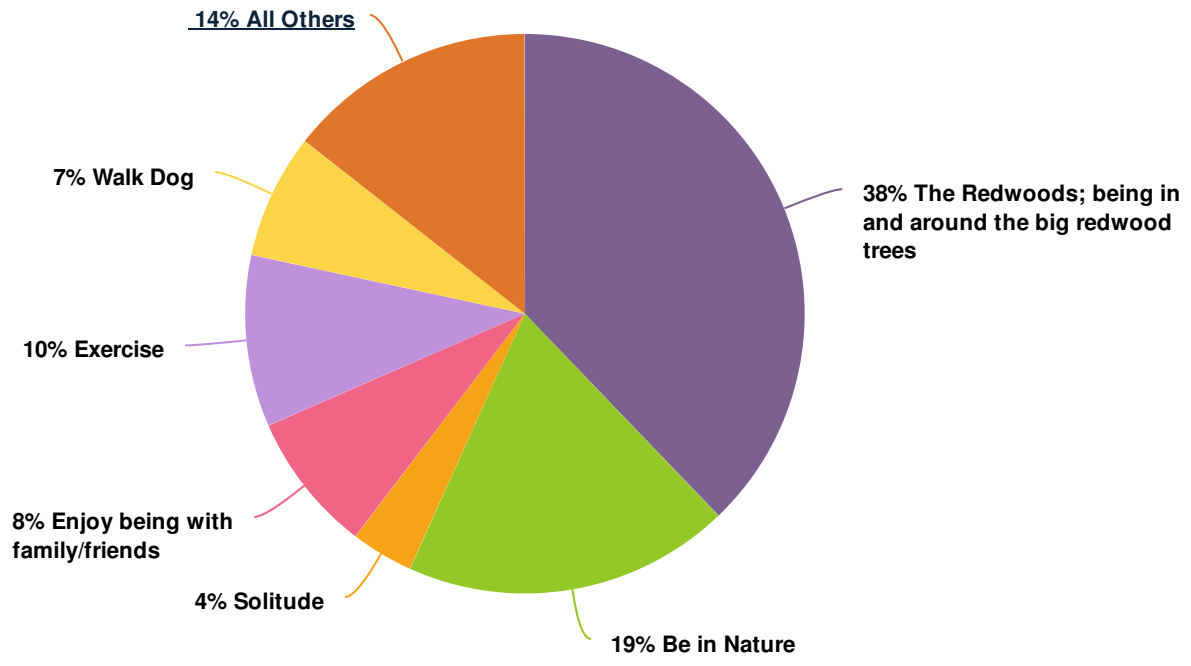






















Value		Percent	Responses
Bird watching/Wildlife viewing		12.9%	15
Nature exploration		45.7%	53
Botanizing		12.9%	15
Relax outdoors		44.8%	52
Walk/Hike		77.6%	90
Run/Jog		10.3%	12
Walk Dog		25.9%	30
Bike Ride		0.9%	1
Picnic		12.1%	14
Play games		8.6%	10
Yoga/Meditation		5.2%	6
Interact with stream/creek		5.2%	6
Attended a group activity		5.2%	6
Visit adjacent facility or Park		0.9%	1
Other - Write In		0.9%	1

Other - Write In	Count
Traditional mindfulness practices and mindful relational practices	1
Totals	1

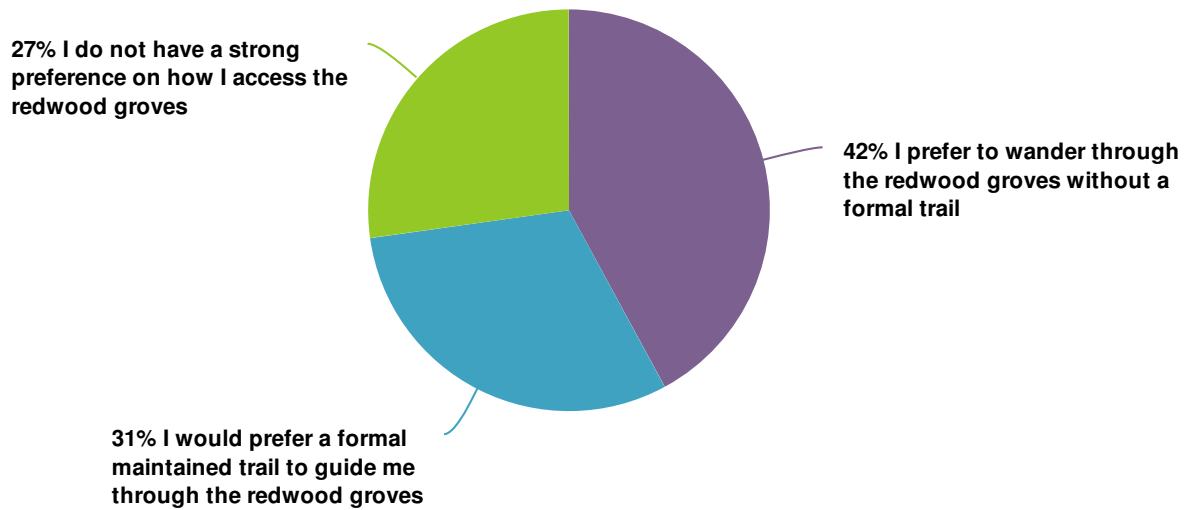
5. Which ONE activity of those you marked in questions 3 and 4 above would you say was your primary reason for visiting Roy's Redwoods today? (please select only one)



Value		Percent	Responses
The Redwoods; being in and around the big redwood trees		37.8%	42
Be in Nature		18.9%	21
Solitude		3.6%	4
Enjoy being with family/friends		8.1%	9
Exercise		9.9%	11
Walk Dog		7.2%	8
The Loop Trail; use the trail that encircles the Preserve		1.8%	2
Photography/Art		0.9%	1
Enjoy Views		1.8%	2
Nature exploration		0.9%	1
Relax outdoors		1.8%	2
Walk/Hike		1.8%	2
Run/Jog		0.9%	1
Picnic		0.9%	1
Yoga/Meditation		0.9%	1
Interact with stream/creek		0.9%	1
Attended a group activity		0.9%	1
Other (wrote-in on question 3 or 4)		0.9%	1

**Totals: 111**

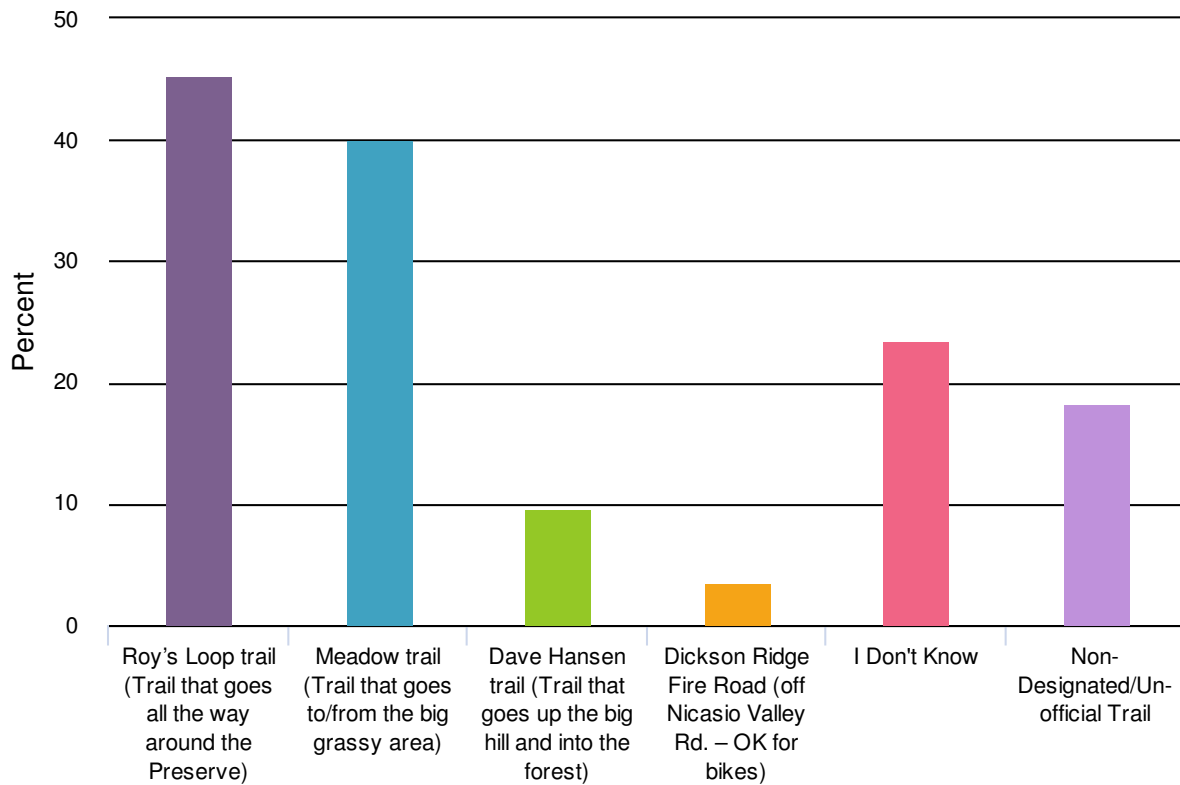
6. Tell us your preference for accessing the redwood trees in Roy’s Redwoods Open Space Preserve by selecting one of the following statements:



Value	Percent	Responses
I prefer to wander through the redwood groves without a formal trail	42.1%	48
I would prefer a formal maintained trail to guide me through the redwood groves	30.7%	35
I do not have a strong preference on how I access the redwood groves	27.2%	31

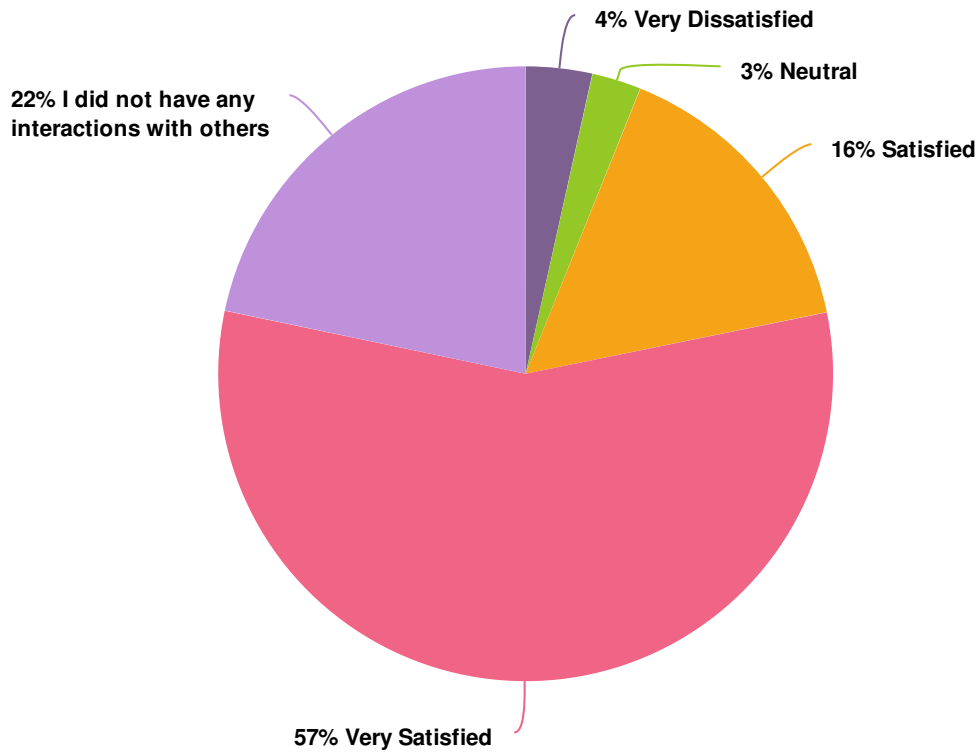
Totals: 114

## 7. What trails did you hike today at Roy's Redwoods?



Value	Percent	Responses
Roy's Loop trail (Trail that goes all the way around the Preserve)	45.2%	52
Meadow trail (Trail that goes to/from the big grassy area)	40.0%	46
Dave Hansen trail (Trail that goes up the big hill and into the forest)	9.6%	11
Dickson Ridge Fire Road (off Nicasio Valley Rd. – OK for bikes)	3.5%	4
I Don't Know	23.5%	27
Non-Designated/Un-official Trail	18.3%	21

8. Please rate your satisfaction with the interactions you had with other visitors at Roy's Redwoods today. (Please mark only one):



Value	Percent	Responses
Very Dissatisfied	3.5%	4
Neutral	2.6%	3
Satisfied	15.7%	18
Very Satisfied	56.5%	65
I did not have any interactions with others	21.7%	25

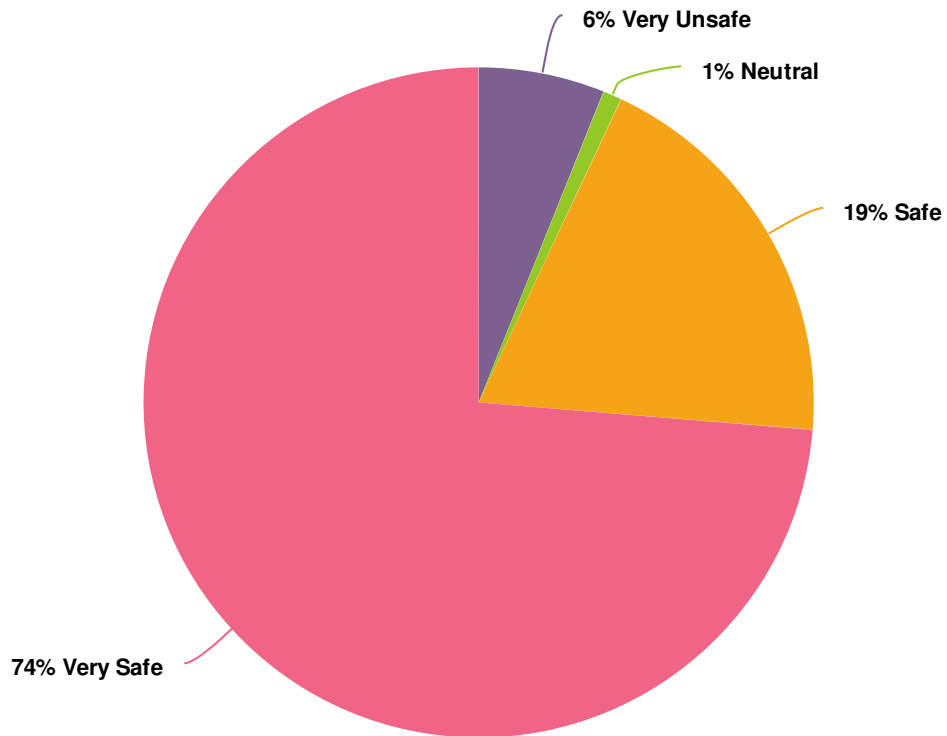
Totals: 115





9. If you felt very dissatisfied or dissatisfied with the interactions you had with other visitors today, please take a moment to describe what caused you to feel that way:



ResponseID	Response
1	Horse poop is annoying
21	Once in a while there's a homeless perason
27	Great time, looking forward to coming back!
50	Did not feel dissatisfied
55	Great so beautiful Came to show my family from denmark the redwoods and muir woods is impossible
81	Dont like how its getting so crowded here.
84	Didnt see anyone except the large group picnicing

10. Please indicate how personally safe you felt at Roy’s Redwoods today on a scale of Very Unsafe to Very Safe. (Please mark only one):

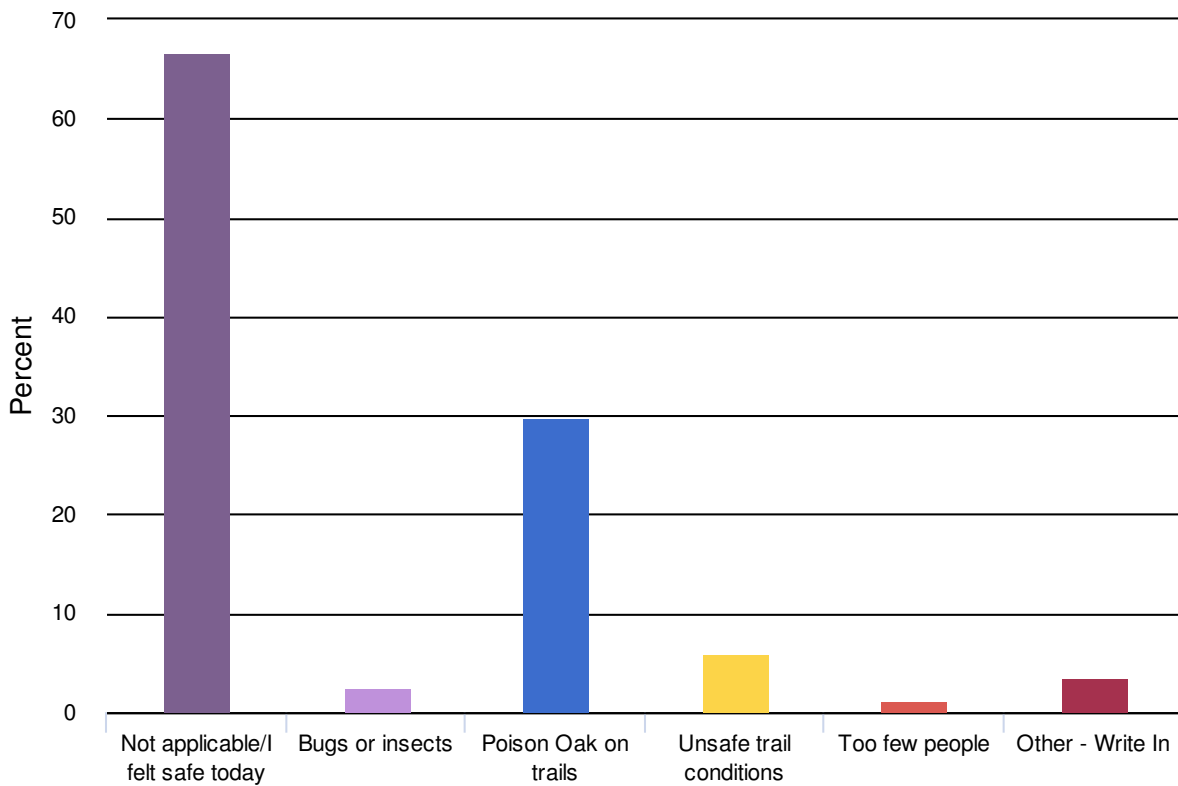


Value		Percent	Responses
Very Unsafe		6.1%	7
Neutral		0.9%	1
Safe		19.3%	22
Very Safe		73.7%	84

**Totals: 114**



11. Please let us know if any of the conditions below made you feel unsafe today (mark all that apply)



Value	Percent	Responses
Not applicable/I felt safe today	66.7%	56
Bugs or insects	2.4%	2
Poison Oak on trails	29.8%	25
Unsafe trail conditions	6.0%	5
Too few people	1.2%	1
Other - Write In	3.6%	3

**Other - Write In****Count**

All good

1

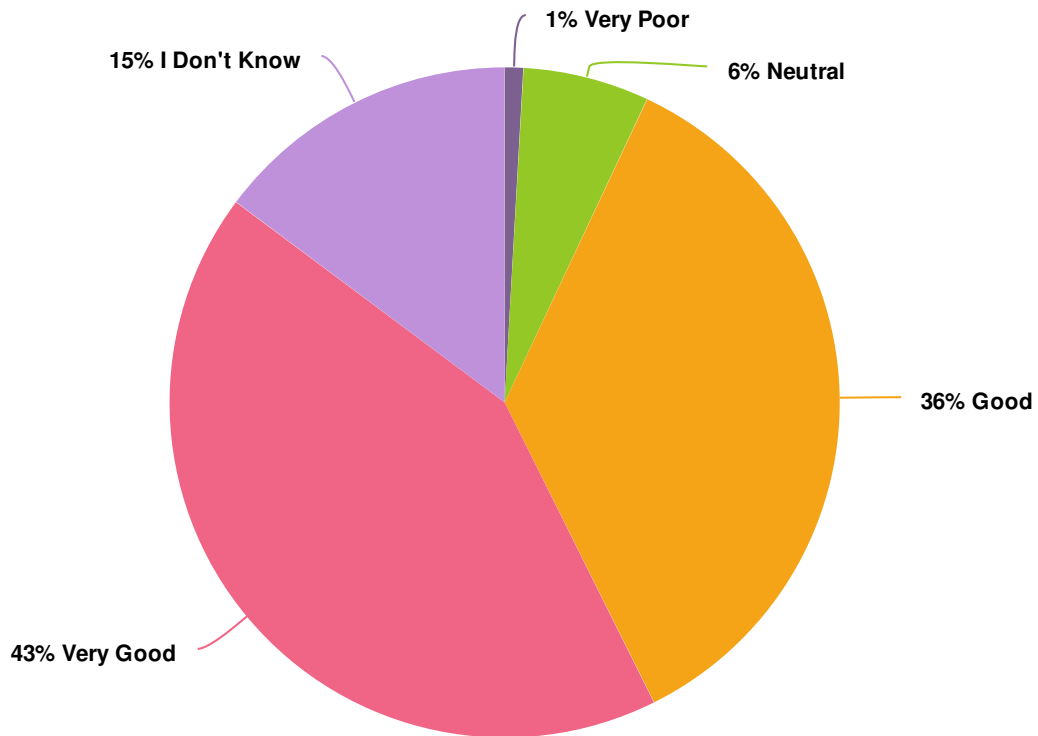
No clear guides identifying the trails

1

Totals

2

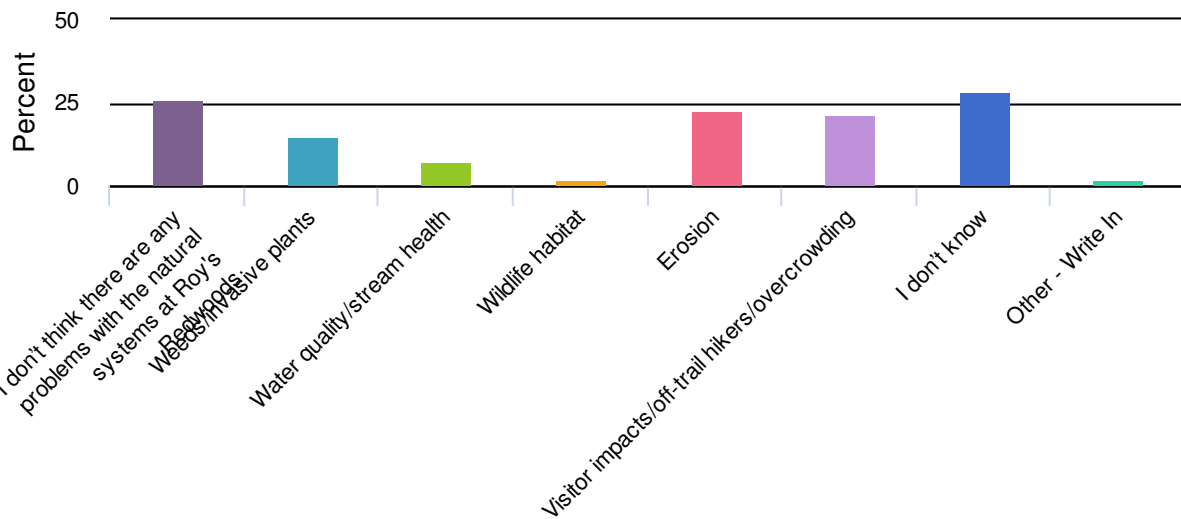
12. How would you rate the health of the natural systems (habitat, plants, creek, etc.) at Roy's Redwoods?



Value	Percent	Responses
Very Poor	0.9%	1
Neutral	6.1%	7
Good	35.7%	41
Very Good	42.6%	49
IDon't Know	14.8%	17

Totals: 115

13. Do you consider any of the following to be an issue for health of natural systems Roy's Redwoods? (Mark all that apply)



Value	Percent	Responses
I don't think there are any problems with the natural systems at Roy's Redwoods	25.9%	28
Weeds/invasive plants	14.8%	16
Water quality/stream health	7.4%	8
Wildlife habitat	1.9%	2
Erosion	23.1%	25
Visitor impacts/off-trail hikers/overcrowding	21.3%	23
I don't know	28.7%	31
Other - Write In	1.9%	2

**Other - Write In****Count**

Poison oak!

1

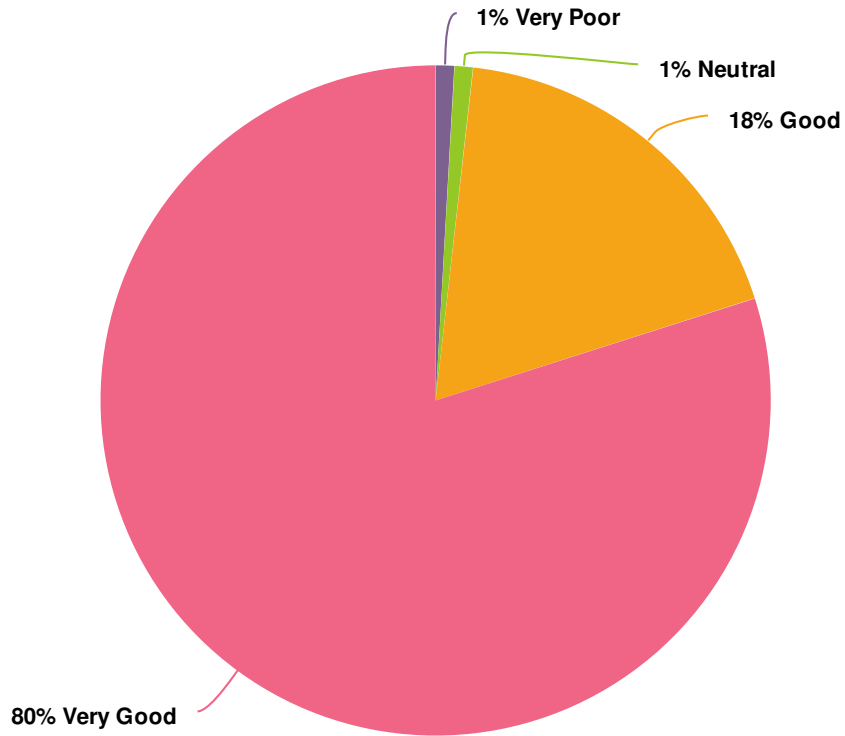
Ticks

1

Totals

2

14. Overall, how would you rate the quality of your experience at Roy's Redwoods during this visit? (Please mark only one):



Value		Percent	Responses
Very Poor		0.9%	1
Neutral		0.9%	1
Good		18.3%	21
Very Good		80.0%	92

Totals: 115

15. Please use the space below to provide general feedback regarding your experience at Roy's Redwoods today:



ResponseID	Response
1	This is a great park, im lucky to livehere
2	Great, uncrowded nature area
4	Too much poison oak. Had to turn back. T rail marking couldhave been better.
5	Come here 5 days a week, this place is special, keep it that way!
12	Brother took us on steep side trail that should have been marked as steep and dangerous. A sign could be there indicating 'Descend at own risk' as a warning.
19	Better markings on trails
23	The loop trail needs better signage. T hanks!
25	It was an awesome experience...
26	T he cars go by very fast and the noise is very loud which is disruptive to the peaceful nature. Speed limit should be 20-25 mph

**ResponseID    Response**

27	Some trails seemed unmarked but space is small enough to navigate.
29	All visits to protect this special place
32	Great time!
34	Get rid of POISON OAK
37	One of my favorite
38	First visit beautiful area we plan to return soon
39	Its a neighborhood gift
48	Better signage and maps. Forexample, name trait, distNce, nd difficulty level
50	Looking forward to comi g back!
52	We love Roys! I am so thankful that Open Space is keeping this amazing s Place safe and healthy.
53	Sign not too clear, nice to be in the shade. Would be nice if there was easy access picnic table area.
55	Rebecca was very kind and helpful
56	Dont over sterilize it.
57	Been coming here since i was a kid v special place wanted to show my friend visiting the area!
60	We love it
63	Its nice to bring a stroller on the trail
64	Please do not change a thing!
72	We love the hike up to the view



## ResponseID Response

78	We love Roy's Redwoods. It was been an integral part of how the our Family Retreat teen group return to what they inherently value, connect with how they're truly feeling, drop into a simpler, slower life pace, and connect with each other face to face (i.e free of digital devices and media).
79	I love coming here to run when i can! I enjoy the quiet solitude here.
81	Surveyor took notes on feedback
84	Surveyor recorded notes
87	Our son loves to play within the redwood trees.
89	I enjoy coming here to wander in the redwoods. The cars that druve by are really loud and fast and can be disrupting
90	On our way to pt reyes. We heard about roys as a great spot to see redwoods but avoid the crowds at muir woods
93	Roys was a great place to come to to picnic and be with family! We loved how open the forest felt.
95	We are so happy we discovered roys as a peaceful place to enjoy the redwoods.
98	Signage could be better on the larger loop because i always get lost. The middle area with the meadow and redwoods should be left alone.
101	I like how its not crowded here.
106	The redwoods were great for our kids to run around.
107	I apprciate how quiet and open it is here.
109	Loved it!
110	loved it! Love Jean and Paul!
114	This place is beautiful
116	What's really great is how few people come here!
117	Love this place! A little Haven away from busy life

**ResponseID    Response**

122	Love the awesomeness!!!!
123	Fun
124	Great to be away from crowds

16. Do you have any suggestions on how your experience at Roy's Redwoods could be improved? Please describe:



ResponseID	Response
3	Water.
4	T rail signage. Goat clearing poison oak.
10	Pkease Out clear markings
12	Level of strain of frequently used side trails. DIFFICULT , VERY DIFFICULT , MODERATE , EASY
22	It was magical
26	Confusing where horses are allowed - better signage needed
27	Signs for the city folks!
32	Not atthis time.
37	N/a
42	Clear the poison oak off the trails

## ResponseID Response

50	It would be great to have water at the trail head
52	Not at the moment!
62	Very pleasant!
72	Maybe put up clearer signs
78	No. Thank you so much for offering such a safe and peaceful space for our youth!
89	I suppose if the cars could slow down when driving past.
91	I don't think any changes need to be made at Roys. I like it how it is and wouldn't want it to become overcrowded with tourists.
93	No.
94	Because we biked here it would be nice to have drinking water here. Other than that we love it!
95	The cars are a bit disruptive.
96	No
103	The trails sometimes get overgrown with poison oak.
107	Better signage at the entrance
109	More group activities? For families and school groups?
110	Couldn't be better. let's have walks with Jean and Paul more often!
117	Habitat restoration
122	Remove the road

Date	Time of Preserve Entrance	Time of Presever Exit	Survey #	Weather Conditions	Group Size	Approx. Age and Gender of Each Group Member	Group Activity	Notes	Went off trail?	Take Survey?	Surveyor Shift	Survey Notes
5/26/17	12:40	1:40	15	Partly Cloudy		1 60/70 M	Jog / Run	He comes here 5 days a week to run! Always calls if there's a tree down, yellow jacket hive, etc.		Yes	7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	9:40	10:20		Overcast, cool		1 50s, M	Walk			No	7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	2:40	Unknown	20	Partly Cloudy		1 20s, M	Dog Walk - On Leash			No	7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	2:45	Unknown	21	Partly Cloudy		1 50s, F	Walk			No	7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	12:15	Unknown	12	Partly Cloudy		2 30s, F & 5 month baby	Walk			No	7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	2:00	Unknown	19	Partly Cloudy		2 30s, 2M	Walk			No	7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	1:05	2:00	16	Partly Cloudy		1 20s, F	Walk			Yes	7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	10:15	2:00	4	Partly Cloudy		18 6th graders, 4 instructors / chaperones in their 20s	Picnic / School / Camp			Yes - 2 6th graders filled out the survey	7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	12:25	1:45	14	Partly Cloudy		3 30s, 2F, 1M	Dog Walk - On Leash			Yes	7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	11:55	12:25	11	Partly Cloudy		1 20s, M	Walk	Had some sort of recording device? Her first time here - didn't want to go to Samuel P Taylor		No	7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	11:30	12:30	9	Partly Cloudy		1 50s, F	Walk			Yes	7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	11:45	12:25	10	Partly Cloudy		2 50s, M & F	Dog Walk - On Leash			Yes	7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	10:40	12:30	6	Partly Cloudy		2 20s / 30s, M & F	Walk			Yes	7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	10:50	11:20	7	Partly Cloudy		1 30s, F	Dog Walk - On Leash			No	7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	8:30	9:30	1	Overcast, cool		2 40s, 2F	Dog Walk - On Leash	These women live right across the street - Roy's is their backyard and they come here almost every day. They seem pretty protective over it and don't want it to change. They are scared that making improvements will bring too many people. They also told me Spirit Rock uses Roy's for silent retreats		Yes	7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	11:20	11:40	8	Overcast, cool		1 40s, F	Walk			Yes	7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	9:30	10:30	2	Overcast, cool		40s, M & F, 3 young boys about 5-7 yrs old	Walk	Travelling, from Ohio, googled where to see Redwoods and came to Roys. Kids played in creek behind bathroom, first time at Roys		Yes	7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	12:20	1:55	13	Overcast, cool		6 30s, 2F, & 4 kids 3-4 yrs old	Walk, Creek Play	Other: Collecting ticks for her job		No	7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	1:20	1:45	17	Partly Cloudy		1 30s, F				No	7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	1:25	1:45	18	Partly Cloudy		30s, M, & 2 boys age 6-7 & 4 1 girl age 7	Walk			No	7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	3:20	Unknown	21	Partly Cloudy		1 30s, F	Dog Walk - On Leash			Yes	7:30 AM - 3:30 PM	Survey number not entered in online survey
5/27/17	10:50	12:10	1	Mostly Sunny, 50-60 degrees		1 F	Dog Walk - On Leash			Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	10:40	3:50	2	Mostly Sunny, 50-60 degrees		4 All F, 2 in 20s, 2 in 50s	Dog Walk - On Leash			No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	11:20	1:10	3	Mostly Sunny, 50-60 degrees		4 50s, 2M & 2F	Walk	First time here, they came b/c "these are the tallest redwoods in the county"		No	10:30 AM - 6:30 PM	Survey number not entered in online survey

5/27/17	11:00	12:40	4 F Mostly Sunny, 50-60 degrees	1 60s, F	Dog Walk - On Leash		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	Unknown	11:10	5 F Mostly Sunny, 50-60 degrees	2 30s, F	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	11:20	11:30	6 F Mostly Sunny, 50-60 degrees	2 20s, 2F	Walk	Just wanted to look at redwoods for a second then leave	No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	11:40	1:10	9 F Mostly Sunny, 50-60 degrees	30s, 2M & 2F, 3 kids ages 4-7 6	Dog Walk - On Leash, Creek Play, Picnic	Brought towels, food, etc	No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	11:30	12:30	7 F Mostly Sunny, 50-60 degrees	3 50s, 2M & F	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	11:30	1:30	8 F Mostly Sunny, 50-60 degrees	40s, M & 1 boy age 6, 1 girl 3 age 7	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	Unknown	11:40	10 F Mostly Sunny, 50-60 degrees	40s, M&F, 2 boys age 6-7, 5 1 baby	Walk, Creek Play		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	11:45	12:40	11 F Mostly Sunny, 50-60 degrees	2 30s, M&F	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	11:55	Unknown	12 F Mostly Sunny, 50-60 degrees	2 20s, M&F	Dog Walk - On Leash		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	2:35	4:30	13 F Mostly Sunny, 50-60 degrees	1 30s, F	Dog Walk - On Leash		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	12:15	Unknown	14 F Mostly Sunny, 50-60 degrees	1 60s, M	Walk		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	12:10	3:40	15 F Mostly Sunny, 50-60 degrees	2 60s, M&F	Walk	Hiked several connecting trails to Roys	Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	12:45	1:30	16 F Mostly Sunny, 50-60 degrees	1 20s, F	Exercise	Completed survey on 6/2	No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	12:50	1:15	17 F Mostly Sunny, 50-60 degrees	2 20s, F	Walk		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	12:40	1:00	18 F Mostly Sunny, 50-60 degrees	1 20s, M	Horseback Riding	Said he comes to Roys a lot	No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	1:00	1:50	19 F Mostly Sunny, 50-60 degrees	1 50s, M	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	1:15	2:25	20 F Mostly Sunny, 50-60 degrees	3 20s, M	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	1:25	2:40	21 F Mostly Sunny, 50-60 degrees	3 20s, 2m & F	Dog Walk - On Leash		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	1:25	2:00	22 F Mostly Sunny, 50-60 degrees	2 20s, M&F	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	1:50	4:00	23 F Mostly Sunny, 50-60 degrees	1 70s, M	Exercise		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	2:00	4:25	24 F Mostly Sunny, 50-60 degrees	3 20s, 2m & F	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey

5/27/17	2:15	3:25	25 F Mostly Sunny, 50-60 degrees	1 60s, M	Walk	Not sure if his survey response was saved properly - He's been coming to Roys for years, at least once a week either for exercise or to be in the Redwood Grove for "spiritual reasons".		10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	2:20	3:45	26 F Mostly Sunny, 50-60 degrees	2 60s, M & teen F	Dog Walk - On Leash	Man was married at Roys	Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	2:25	2:45	27 F Mostly Sunny, 50-60 degrees	2 20s, M&F	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	2:25	2:50	28 F Mostly Sunny, 50-60 degrees	1 30s, M	Walk, Photography		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	2:35	3:05	29 F Mostly Sunny, 50-60 degrees	2 30s, 2M	Dog Walk - On Leash		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	2:35	3:05	30 F Mostly Sunny, 50-60 degrees	1 50s, F	Walk	Took survey on 5/26	No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	2:35	2:50	31 F Mostly Sunny, 50-60 degrees	3 30s, M	Walk	Dressed in suits, gathered in Redwoods and chatted then left	No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	3:00	Unknown	32 F Mostly Sunny, 50-60 degrees	2 40s, M&F	Dog Walk - On Leash		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	3:25	5:00	33 F Mostly Sunny, 50-60 degrees	4 40s, M&F, Girl - 10, Boy - 8	Dog Walk - On Leash		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	3:50	5:40	34 F Mostly Sunny, 50-60 degrees	2 40s, M&F	Dog Walk - On Leash		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	3:50	5:15	35 F Mostly Sunny, 50-60 degrees	4 20s, 2M & 2F	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	4:05	Unknown	36 F Mostly Sunny, 50-60 degrees	4 60s, M&F, 20s, M&F	Walk		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	4:25	4:40	37 F Mostly Sunny, 50-60 degrees	2 20s, M&F	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	4:55	Unknown	38 F Mostly Sunny, 50-60 degrees	4 50, M&F, 2 boys around 10	Walk		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	4:55	5:30	39 F Mostly Sunny, 50-60 degrees	1 20s, M	Walk		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	4:55	6:15	40 F Mostly Sunny, 50-60 degrees	60s, F, 30s, M&F, 3 girls 6 age 2,6,9	Walk		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	5:40	Unknown	41 F Mostly Sunny, 50-60 degrees	1 50s, F	Walk		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	6:15	Unknown	42 F Mostly Sunny, 50-60 degrees	3 30s, M&F, baby	Walk		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
6/1/17	8:00	9:15	Clear Skies, 1 cool	50s, F, 20s, F and little 3 baby	Walk	Woman in her 50s took survey on 5/26. The other woman said she comes about once a week and usually walks her dog there off-leash.	No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/1/17	9:30	10:30	Clear Skies, 2 cool	3 30s, F	Dog Walk - On Leash	Carrying nice camera for photography	Yes	7:30 AM - 3:30 PM	Walked along social trail in Redwoods parallel to meadow trail Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail

6/1/17	9:55	Unknown	Clear Skies, 3 cool	1 30s, F	Running	Seemed like she came from a different side of the park		No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/1/17	10:35	11:00	Clear Skies, 4 cool	1 20s, M	Dog Walk - Off Leash	2 dogs off leash	Walked along social trail in Redwoods parallel to meadow trail	Yes	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/1/17	11:00	12:20	Clear Skies, 5 cool	2 70s, F	Picnic	Had camping chairs & other supplies - both live in Fairfax, first time at Roys	Sat in Redwood Grove with camping chairs at the end of Meadow Trail	Yes	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/1/17	11:50	12:15	Clear Skies, 6 cool	2 50s, F, 20s M	Dog Walk - On Leash	Lives in the area		No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/1/17	11:55	1:00	Clear Skies, 7 cool	2 60s, M&F	Dog Walk - On Leash	Lives in the area		Yes	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/1/17	12:20	Unknown	Clear Skies, 8 cool	1 60s, M	Walk			No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/1/17	12:35	1:10	Clear Skies, 9 cool	2 20s, M&F	Walk	Her father is superintendent of Marin County Parks	Yes Redwood Loop Socail Trail	Yes	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/1/17	1:35	1:45	Clear Skies, 10 cool	2 60s, M&F	Walk	Left b/c she didn't have proper shoes for poison oak		Yes	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/1/17	2:55	Unknown	Clear Skies, 11 cool	1 40s, M	Running			No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/2/17	1:00	1:20	Clear, 70s, 1 Warm	2 40s, M&F	Walk	Were confused where the trail started		No	10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:00
6/2/17	1:20	2:05	Clear, 70s, 2 Warm	1 30s, F	Dog Walk - On Leash	She said she has seen spotted owls here. Came before and already took survey	Yes Redwood Loop Socail Trail	No	10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:01
6/2/17	1:30	1:50	Clear, 70s, 3 Warm	1 30s, M	Running w/ Dog on Leash	Loves this place except for Poison Oak		Yes	10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:02
6/2/17	1:40	2:05	Clear, 70s, 4 Warm	2 20s, M&F	Dog Walk - On Leash			No	10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:03
6/2/17	3:10	Unknown	Clear, 70s, 5 Warm	2 20s, M&F	Walk	Had A LOT of supplies with them - easle, art supplies	Yes redwood grove	No	10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:04
6/2/17	3:10	Unknown	Clear, 70s, 6 Warm	2 20s, M&F			Yes - creek behind restrooms	No	10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:05



6/2/17	3:30	Unknown	Clear, 70s, 7 Warm	2 30s, 2M	Walk, Photography		No	10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:06	
6/2/17	Unknown	3:30	Clear, 70s, 8 Warm	1 30s, M	Passed by mountain biking		No	10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:07	
6/2/17	3:50	4:35	Clear, 70s, 9 Warm	1 20s, F	Exercise	Came last week also but didn't take survey	Yes	10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:08	
6/2/17	4:15	Unknown	Clear, 70s, 10 Warm	1 60s, M	Horseback Riding	Observed passing by entrance	No	10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:09	
6/2/17	4:30	Unknown	Clear, 70s, 11 Warm	2 50s, F & 20s, F	Dog Walk - On Leash	Lives nearby, comes pretty often, used to have bday parties for her kids in the Redwood Grove	No	10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:10	
6/16/17	7:40	Unknown	1 Sunny, 60s	1 30s, M	Running	Observed running past entrance	No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/16/17	9:10	12:45	2 Sunny, 60s	2 30s, 2F	Collecting Ticks - from Marin Sonoma Mosquito Vector Center?		No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/16/17	9:30	10:00	3 Sunny, 60s	3 60s, 2F, M	Walk		No	Yes	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/16/17	10:45	Unknown	4 Sunny, 70s	2 30s, F	Horseback Riding	Came down Meadow trail, turned around at entrance and went back down meadow trail	No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/16/17	11:00	11:35	5 Sunny, 70s	1 50s, F	Walk		No	No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/16/17	11:15	11:35	6 Sunny, 70s	1 60s, F	Walk		Yes		7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/16/17	11:15	12:45	7 Sunny, 70s	4 70s, 2M, 2F	Walk		No	Yes	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/16/17	11:30	Unknown	8 Sunny, 70s	2 20s, M&F	Walk	Ran around redwoods and in creek behind bathroom	Yes	No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/16/17	11:30	11:45	9 Sunny, 70s	1 30s, F	Dog Walk - On Leash	Thinks that having drinking water would be nice	Yes		7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/16/17	12:55	1:35	10 Sunny, 70s	2 50s, M & teen, M	Walk / picnic		Yes - redwood grove	Yes	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/16/17	12:55	1:10	11 Sunny, 70s	1 30s, M	Dog Walk - On Leash		Yes Redwood Loop Socal Trail	No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/16/17	12:55	Unknown	12 Sunny, 70s	1 20s, F	Horseback Riding	Observed riding past entrance	No	No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail

6/16/17	1:15	Unknown	13	Sunny, 70s	2	20s, M&F	Walk		Yes - redwood grove	No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/16/17	1:40	Unknown	14	Sunny, 70s	2	60s, M&F	Walk		No	No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/16/17	2:15	Unknown	15	Sunny, 70s	1	60s, M	Dog Walk - On Leash			No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/22/17	Unknown	10:35	1	Really warm - 80s	2	F, 60s	Walk	Didn't have time to take the survey but one woman lives here, comes here all the time with her family and used to horseback ride here - really appreciates all the trail improvements that have already been made - bridges over stream, more accessibility, appreciates water source		No	10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/22/17	10:40	didn't write down - survey should say	2	Really warm - 80s	2	40s, M&F	Dog Walk - On Leash	First time here, read about Roys in the SF chronicle - chronicle said Roys is a good picnic spot. They came with picnic supplies and picniced in redwood grove close to bay trees at end of meadow trail.	Yes - creek behind restrooms	Yes	10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/22/17	11:40	12:10	3	Really warm - 80s	1	20s, F	Dog Walk - On Leash		Yes - Redwood loop connecting to meadow trail	No	10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/22/17	12:00	12:20	4	Really warm - 80s	1	20s, M	Walk	First time at Roys, works at spirit rock	Yes - redwood loop	Yes	10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/22/17	Unknown	12:10	5	Really warm - 80s	1	70s, M	Running Art class / camp posted behind Redwoods near bathroom and loop trail bridge	Man who calls in about problems and runs here every day		Already took survey	Woman who runs camp already took survey	10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/22/17	Unknown (before 10:30)	1:15	6	Really warm - 80s	10	8 kids, 2 F 40s			Yes			10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/22/17	1:20	2:35	7	Really warm - 80s	2	40, F	Walk		Yes - redwood loop	No	10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/22/17	1:40	1:50	8	Really warm - 80s	1	60s, M	Dog walk - on leash	No time for survey - comes often to let the dog run	Yes - creek behind restrooms	No	10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/22/17	2:10	2:35	9	Really warm - 80s	2	70s, F	Walk	Came here instead of Muir Woods	Yes	Yes	10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/22/17	3:00	3:49	10	Really warm - 80s	4	40s -2M, 70s M, 60s F	Walk	Seemed unsure where to go	Yes - redwood grove	Yes	10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/22/17	4:00	4:30	11	Really warm - 80s	1	60s, M	Run			No	10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	

6/22/17	4:50	Unknown	Really warm - 12 80s	2 20s, M&F	Dog Walk - On Leash	First time at Roys	Yes - wandered through redwood grove and up and around bay trees	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	Unknown	1:45	Partly Cloudy, 1 60s	12 1 F, 50s, 11 kids	Summer Camp program / Forest Preschool. Tendertracks.com. Hiking off trail in redwoods, each kid had walking stick, they build a bridge across dry river and walked across it.		Yes	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	11:15	12:00	Partly Cloudy, 2 60s	2 40s, M, daughter 10	Dog Walk - On Leash			Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	Unknown	11:15	Partly Cloudy, 3 60s	1 40s, F	Dog Walk - On Leash			Already took survey	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	Unknown	11:20	Partly Cloudy, 4 60s	2 Teens, F	Walk		Yes	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	Unknown	11:50	Partly Cloudy, 5 60s	1 50s, M		Came to Roy's to take photos of a wooden watch for an advertisement	Yes	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	12:10	1:35	Partly Cloudy, 6 60s	30s, F	Dog Walk - On Leash		Yes - full loop around Redwoods and meadow trail	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	1:35	2:40	Partly Cloudy, 7 60s	2 60s, F	Walk		Yes	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	1:45	3:30	Partly Cloudy, 8 60s	4 60s, 2m & 2F	Picnic		Yes	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	1:45	2:20	9 Sunny, 60s	4 2M, 40s, 2 boys	Walk		Yes	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	2:15	3:10	10 Sunny, 60s	2 M/F Teens	Picnic		Yes	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	2:45	4:45	11 Sunny, 60s	5 30s, 2F & 2 girls, baby	Dog Walk - On Leash	Rolled stroller on trail		Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	2:55 ?		12 Sunny, 60s	2 60s, M&F	Walk	First time at Roys Used to come here as a camp counselor - would play capture the flag with kids throughout the Redwoods		Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	4:20	5:00	13 Sunny, 60s	2 30, M & 60s M	Dog Walk - On Leash			Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	4:25	4:50	14 Sunny, 60s	1 30s, M	Running	Grew up in Marin and used to come to Roys all the time		Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail

6/27/17	5:00	6:15	15 Sunny, 60s	1 40s, F	Walk		Yes	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	6:05	Unknown	16 Sunny, 60s	1 30s, M	Dog Walk - On Leash		Yes	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	Unknown	3:30	1 Sunny, 70s	12 20s, M&F, 10 kids	Summer Camp	Group set up mats and lunches in redwood grove behind bathrooms, left stuff and went on hike on social trails in redwoods and then the Redwood loop trail.	Yes	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	10:40	12:00	2 Sunny, 70s	1 M 70s	Run	Man who runs here every day	No	Already took survey	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	Unknown	11:30	3 Sunny, 70s	4 Baby, 2 girls, F 30s	Walk	Collecting blackberries In redwoods / bay trees where meadow trail goes through - covered themselves in charcoal from burnt trees, one of the kids came to Roys as part of a summer camp and built fort	No	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	11:30	12:30	4 Sunny, 70s	20s, M 2 kids (middle school)	Walk / picnic		Yes	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	12:00	12:50	5 Sunny, 70s	1 80s, F	Walk			Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	12:10	12:40	6 Sunny, 70s	3 20s, F	Dog Walk - On Leash			Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	12:30	Unknown	7 Sunny, 70s	1 40s, M	Horseback Riding	passing through entrance area	Yes - set up picnic in Redwoods across from meadow trail	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	1:00	2:00	8 Sunny, 70s	4 40s M&F, 2 kids	Walk / picnic			No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	12:50	2:10	9 Sunny, 70s	1 40s, F	Walk	She was on a spirit rock retreat - also said she is a painter and wants to paint huge canvases of redwood trees	No	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	3:20	4:30	10 Sunny, 70s	2 20s, M&F	walk		Yes - full loop around Redwoods and meadow trail	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	4:45	5:10	11 Sunny, 70s	3 30s M&F	Dog Walk - On Leash			Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	5:50	6:25	12 Sunny, 70s	2 20s, M			Yes - wandered in redwoods behind bathroom	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	6:10	Unknown	13 Sunny, 70s	2 30s M&F	Walk			No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail

7/22/17	Unknown	7:40	1 Sunny, 60s	1 30s, F	Run		Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	Unknown	7:55	2 Sunny, 60s	1 50s, M	Run		No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	9:00	9:40	3 Sunny, 60s	1 40s, M	Dog Walk - On Leash		Yes - full loop around Redwoods and meadow trail	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	9:20	9:30	4 Sunny, 60s	3 30s, M&F, baby	Walk	wandered around redwoods behind bathroom then left	yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	9:30	Unknown	5 Sunny, 60s	10 male and female 30s - 50s	Spiritual retreat?	Very eclectic group of people whereing costumes (capas), had instruments, yoga mats, they started with a prayer circle in the parking lot	Yes - I didn't see them gathered in the redwood grove - must have gone up the trails and spent the day elsewhere.	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	9:30	10:00	6 Sunny, 60s	1 50s, F	Dog Walk - Off Leash	Comes here all the time and loves Roys	No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	9:30	10:50	7 Sunny, 60s	2 60s, M&F	Walk		Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	9:35	10:50	8 Sunny, 60s	1 30s, M	Dog Walk - On Leash		Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	8:30	9:30	9 Sunny, 60s	1 60s, M	Run	Ran to viewpoint and down - VERY ANGRY about how popular trails in Marin are getting including Roys. Lived in Marin his whole life, doesn't support any new signs, road improvements, trail improvements, anything that brings more people here and makes the outdoor spaces feel less open and wild. He said whoever is promoting Roys and trying to bring more people here should stop.	Yes - to viewpoint	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	10:00	10:55	10 Sunny, 60s	1 80s, F	Walk	Founder of Marin LINK - would like more access for disadvantaged groups and seniors - likes wandering through the redwoods without a trail. Would like interpretive signage about plants, trees, history. She also recently donated to the GGNRA.	Yes - also didn't want to type so I filled it in for her.	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	10:50	12:00	11 Sunny, 60s	5 50s, 2F, M 2 kids	Dog Walk - On Leash	Family walk - were dissappointed the trail was so sunny and not in the Redwoods	Yes - Redwoods behind bathroom	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail

7/22/17	11:10		12 Sunny, 60s	2 30s, F	Horseback Riding	Used the meadow trail - passed by entrance		No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	11:10	12:30	13 Sunny, 60s	3 30s, M&F, baby	Walk	Come here a lot and love Roys (especially compared to Muir Woods)	Yes - redwood loop	Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	11:20	11:50	14 Sunny, 60s	2 30s, M&F	Walk			Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	11:20	12:00	15 Sunny, 60s	2 20s, M	Walk			Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	11:50	12:40	16 Sunny, 60s	2 40s, M	Walk			Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	2:15	3:20	17 Sunny, 60s	3 30s M&F, girl	Dog Walk - On Leash		Yes - redwood loop to meadow trail	Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	3:10	Unknown	18 Sunny, 60s	4 20s, 2M&2F	Walk / Picnic		Wandered in redwoods behind bathroom	No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
8/13/17	7:40	9:30	Breezy Sunny 1 60s	1 50s, M	Walk	Comes here to meditate		Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
8/13/17	7:45	9:40AM	Breezy Sunny 2 60s	2 30s, F	Walk	Comes here a lot	Yes loop	Already took survey	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
8/13/17	9:00	11:00	Breezy Sunny 3 60s	2 40s, M&F	Dog walk -on leash			No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
8/13/17	9:10	10:35	Breezy Sunny 4 60s	2 30s, M&F	Walk			Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
8/13/17	11:00	12:30	Breezy Sunny 5 60s	1 70s, M	Dog Walk - on leash	Came as an alternative to muir woods		Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
8/13/17	11:20	1:00	Breezy Sunny 6 60s	1 30s, F	Walk	Brought yoga mat & art supplies	Yes - loop and hung out in bay tree area	No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
8/13/17	12:00	12:50	Breezy Sunny 7 60s	4 30s, M&F, two boys	Picnic supplies, through a ball around	First time at Roys	Area behind bathroom	Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
8/13/17	1:15	2:30	Breezy Sunny 8 60s	2 40s, 2M	biked to Roys, then hiked around / ate			Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
8/13/17	1:25	3:15	Breezy Sunny 9 60s	2 40s, M, 10 yr old	walk	has come to roys before`		Already took survey	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
8/13/17	2:00	3:20	Breezy Sunny 10 60s	1 50s, F	Dog walk on leash	Also has been to roys before	Yes - loop	Already took survey	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail

9/26/17	Unknown	2:30	1	Clear skies, 60s / 70s, breezy	5 preschoolers, 2 female instructors	Preschool	She didn't have time to take the survey but said her preschool is 3x a week, she comes to Roys when it's not too cold, or she goes to lagunitas lake. She said feel free to email her the website is tendertracks.com	Based in grove behind redwoods, went to bay tree area, all throughout off trail redwood area.	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
9/26/17	Unknown	11:15	2	Clear skies, 60s / 70s, breezy	1 50s, M	Walk				10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
9/26/17	10:30	11:30	3	Clear skies, 60s / 70s, breezy	2 60s, M&F	Walk			Yes - loop	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	Unknown	11:45	4	Clear skies, 60s / 70s, breezy	2 60s, M&F	Walk	Claire Mooney's parents!			Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	11:45	1:00	5	Clear skies, 60s / 70s, breezy	2 30s, M&F	Walk				No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	Unknown	12:10	6	Clear skies, 60s / 70s, breezy	2 20s, M&F	Dog walk on leash	Noted in person they don't want a formal trail built through Redwoods, appreciate how clean the porta potty is		Yes	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	10:35	12:25	7	Clear skies, 60s / 70s, breezy	2 20s, F	Dog walk on leash	They want better signage once you're out of the Redwoods, but don't want more signage in the redwood grove		Yes	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	Unknown	12:36	8	Clear skies, 60s / 70s, breezy	1 50s, M	Walk	lives in fairfax, has been here 4 times just this week, does the entire loop. Loves coming here for the solitude and rejuvenation		Yes (loop)	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	12:45	1:15	9	Clear skies, 60s / 70s, breezy	1 30s, F	Dog walk on leash	has been here before - ive seen her several times		Yes (loop)	Already took survey	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	1:30	2:50	10	Clear skies, 60s / 70s, breezy	2 60s, M&F	Dog Walk on leash			Yes - loop	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	3:00	4:15	11	Clear skies, 60s / 70s, breezy	3 20s, 2M&F		Wandered around redwoods / bay grove				10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	3:00	4:10	12	Clear skies, 60s / 70s, breezy	1 60s, M	Running	Comes almost every day			Already took survey	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	4:15	Unknown	13	Clear skies, 60s / 70s, breezy	2 30s, F	Walk			No	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	4:20	5:15	1	Clear skies, 60s / 70s, breezy	1 50s, M	Dog walk on leash			Redwood loop	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/27/17	Unknown	7:40	1	Sunny, 60s/70s	1 30s, M	Dog walk on leash	comes here to run			Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail

9/27/17	Unknown	7:50	2 Sunny, 60s/70s	1 60s, F	Walk			No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
9/27/17	Unknown	8:10	3 Sunny, 60s/70s	2 40s, F	Dog Walk on leash		Yes - loop	Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
9/27/17	Unknown	9:05	4 Sunny, 60s/70s	2 30s, F	Walking for exercise - they were continuing onto trail on the other side of the street - didn't want to stop for the survey			No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
9/27/17		8:40	5 Sunny, 60s/70s	2 40s, M	Horsebackriding	Rode past entrance at 8:40		No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
9/27/17		9:00	10:40	6 Sunny, 60s/70s	1 30s, M	Walking and photography	carried a big camera with him, took a lot of photos	Yes	Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/27/17		9:15	10:20	7 Sunny, 60s/70s	1 20s, F	Running			No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/27/17		9:30	2:30	8 Sunny, 60s/70s	5 preschoolers, 2 female instructors	Preschool	Forest preschool again	Yes	No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/27/17		10:15	11:35	9 Sunny, 60s/70s	3 F, 40s, 2 kids	Walk / picnic	sat in redwood grove behind bathroom to eat		Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/27/17		10:30	10:50	10 Sunny, 60s/70s	1 M, 40s	Walk	Wandered around redwoods then left	Yes - loop	No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/27/17		11:00	11:30	11 Sunny, 60s/70s	2 F, 20s	Dog walk on leash		Yes loop	No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/27/17		12:20	1:10	12 Sunny, 60s/70s	1 M, 60s	Dog Walk on leash		Yes loop	Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/27/17		1:00	3:00	13 Sunny, 60s/70s	1 F, 40s	Picnic	sat in redwood grove behind bathroom - ate and read	Yes	No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/27/17		1:00	Unknown	14 Sunny, 60s/70s	1 M, 50s	Horsebackriding			No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/27/17		1:30	2:30	15 Sunny, 60s/70s	4 30s, M&F, 2 toddlers	Walk and picnic		Yes	Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
11/7/17	No Notes	9:36	Rainy	1 40s	walk	meadow trail - bay tree area				
3/3/18		9:42	Rainy	2 20s	walk	meadow trail - fairy ring grove - north meadow grove				Very few visitors were observed crossing the creek channel. It appeared that visitors were deterred from crossing the creek by high water.

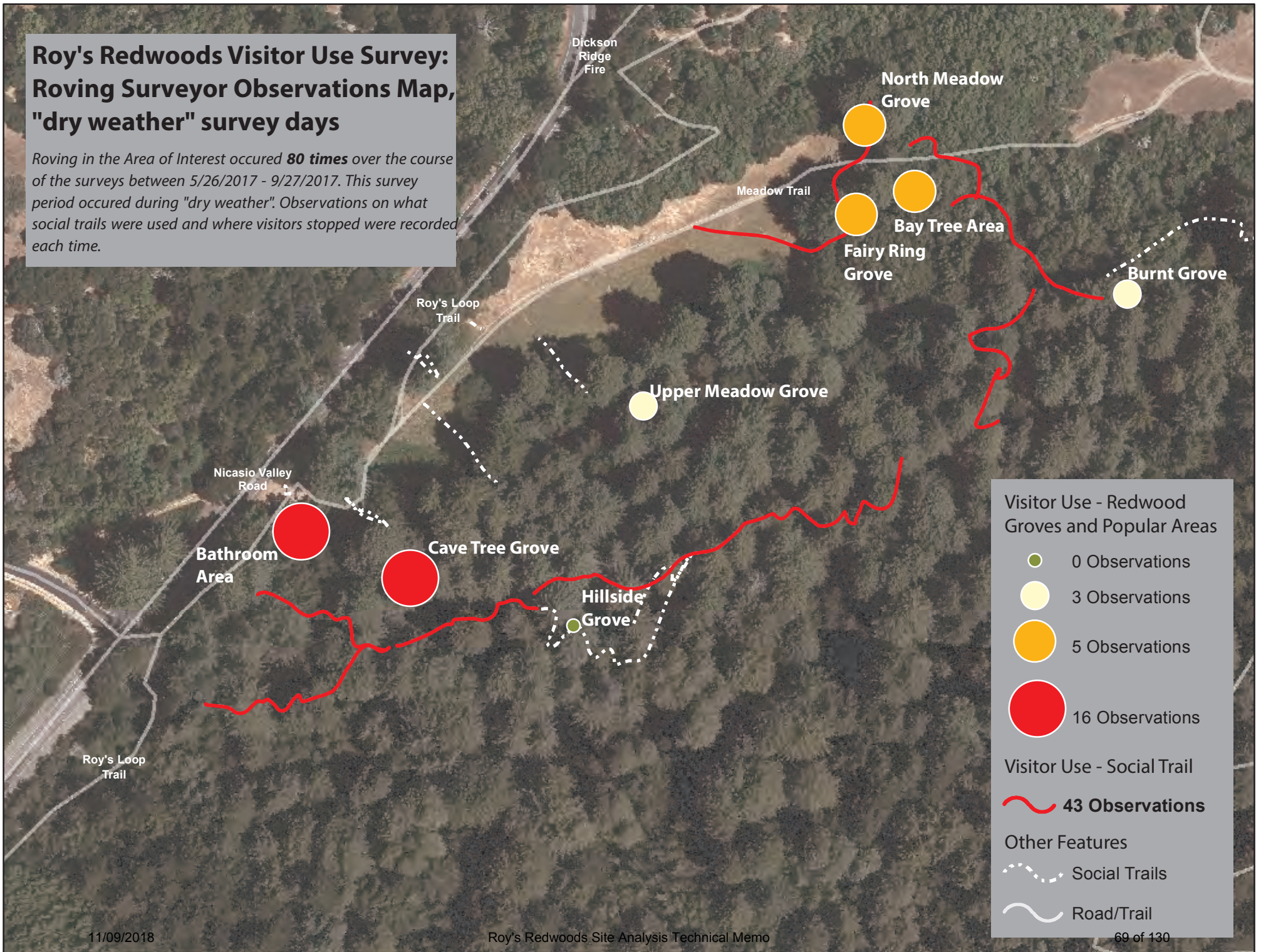


Parents and young children visited specifically to play in the creek. This group stayed in and around the section of creek near the bathroom area.

3/3/18	10:14	Rainy	5 3 <18 2 in 40s	interact w/ creek	in creek/bathroom area
3/3/18	11:06	Rainy	3 1<18, 2 in 50s	walk	meadow trail - fairy ring grove
3/3/18	11:53	Rainy	1 50s	walk	exit via meadow trail
3/3/18	12:08	Rainy	1 60s	walk	meadow trail - fairy ring grove - bay tree - meadow trail out
3/3/18	12:21	Rainy	4 3 <18, 1 in 40s	dog walk off leash & walk	meadow trail - fairy ring grove - north meadow grove - bay tree area
3/3/18	12:50	Rainy	1 20s	photography	bay tree area - burnt grove - waterfall - hillside grove - stoner grove
3/3/18	13:02	Rainy	3 1<18, 1 in 30s	walk	meadow trail - fairy ring grove
3/3/18	13:47	Rainy	1 50s	walk	meadow trail - fairy ring grove - north meadow grove
3/3/18	14:12	Rainy	2 20s	walk	fairy ring grove - upper meadow grove - stoner grove
3/3/18	14:33	Rainy	1 50s	dog walk on leash	meadow trail - bay tree area - north meadow grove
3/3/18	14:51	Rainy	2 40s	walk	meadow trail - fairy ring grove
3/3/18	15:00	Rainy	1 30s	walk	meadow trail - fairy ring grove - bay tree area - burnt grove - upper meadow grove - stoner grove
3/3/18	15:39	Rainy	2 60s	walk	meadow trail - north meadow grove
3/10/18	11:16	Light morning rain	1 40s	walk	fairy ring grove - meadow trail
3/10/18	11:57	Light morning rain	2 30s	dog walk on leash	fairy ring - north meadow grove - meadow trail
3/10/18	12:12	Light morning rain	4 2<18, 2 in 40s	walk	fairy ring - meadow trail
3/10/18	14:00	Light morning rain	4 2<18, 2 in 50s	walk	meadow trail
3/10/18	14:30	Light morning rain	1 50s	dog walk on leash	meadow trail - bay tree area
3/10/18	14:39	Light morning rain	2 20s	walk	stoner grove - upper meadow grove - fairy ring grove - meadow trail
3/10/18	15:14	Light morning rain	2 20s	walk	meadow trail - north meadow grove - bay tree area - fairy ring grove
3/10/18	15:33	Light morning rain	1 50s	dog walk on leash	meadow trail - north meadow grove
3/10/18	16:05	Light morning rain	3 30s	walk	meadow trail - fairy ring grove - upper meadow grove - stoner grove
3/10/18	16:22	Light morning rain	1 60s	walk	meadow trail - fairy ring grove - bay tree area
3/10/18	16:47	Light morning rain	1 40s	walk	meadow trail

# Roy's Redwoods Visitor Use Survey: Roving Surveyor Observations Map, "dry weather" survey days

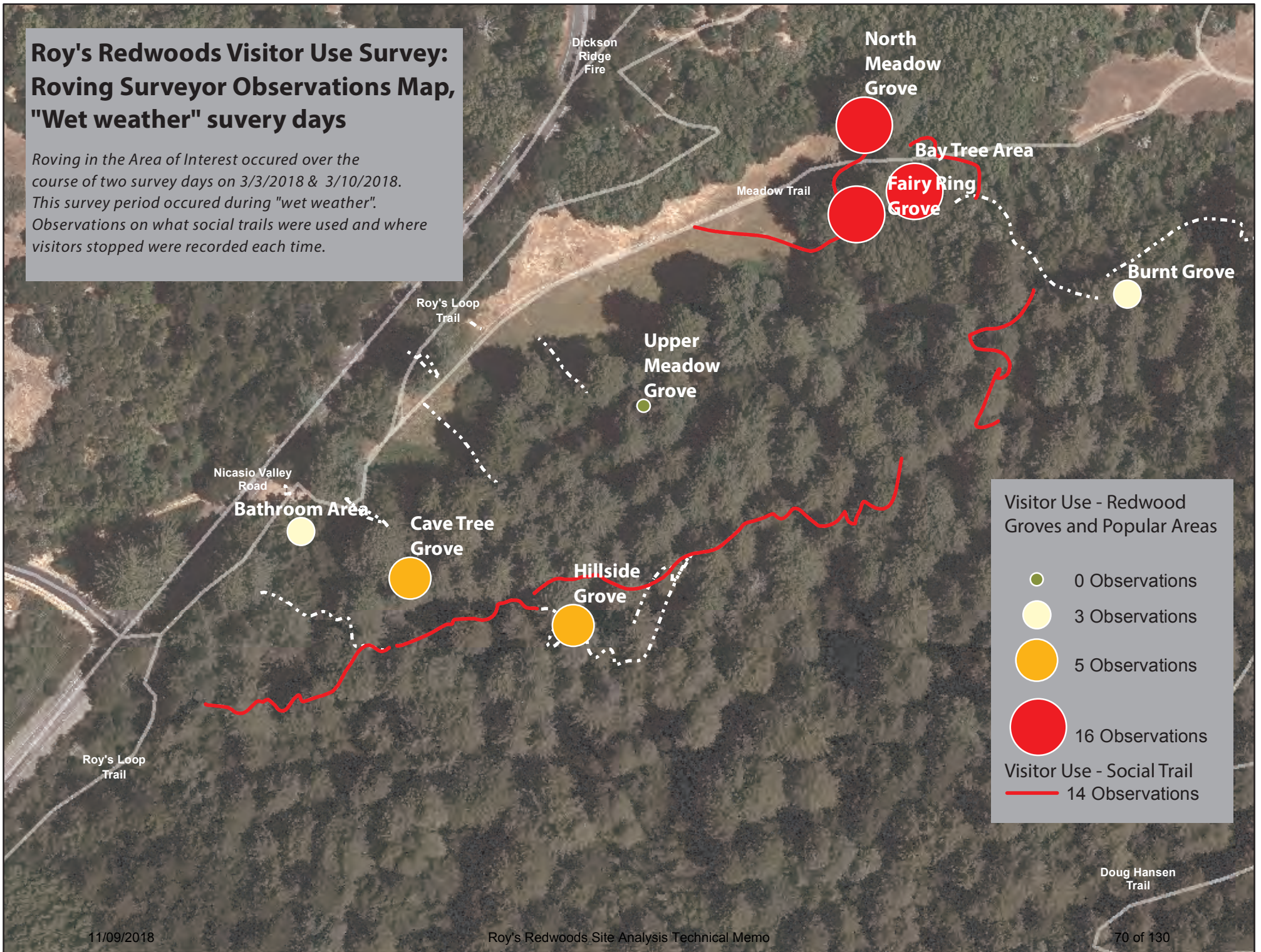
Roving in the Area of Interest occurred **80 times** over the course of the surveys between 5/26/2017 - 9/27/2017. This survey period occurred during "dry weather". Observations on what social trails were used and where visitors stopped were recorded each time.





# Roy's Redwoods Visitor Use Survey: Roving Surveyor Observations Map, "Wet weather" survey days

Roving in the Area of Interest occurred over the course of two survey days on 3/3/2018 & 3/10/2018. This survey period occurred during "wet weather". Observations on what social trails were used and where visitors stopped were recorded each time.



**Visitor Use - Redwood Groves and Popular Areas**

- 0 Observations (Green circle)
- 3 Observations (Light yellow circle)
- 5 Observations (Yellow circle)
- 16 Observations (Red circle)

**Visitor Use - Social Trail**

- 14 Observations (Red line)

Date	Time of Preserve Entrance	Time of Presever Exit	Survey #	Weather Conditions	Group Size	Approx. Age and Gender of Each Group Member	Group Activity	Notes	Went off trail?	Take Survey?	Surveyor Shift	Survey Notes
5/26/17	12:40	1:40	15	Partly Cloudy	1	60/70 M	Jog / Run	He comes here 5 days a week to run! Always calls if there's a tree down, yellow jacket hive, etc.	Yes		7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	9:40	10:20	3	Overcast, cool	1	50s, M	Walk		No		7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	2:40	Unknown	20	Partly Cloudy	1	20s, M	Dog Walk - On Leash		No		7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	2:45	Unknown	21	Partly Cloudy	1	50s, F	Walk		No		7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	12:15	Unknown	12	Partly Cloudy	2	30s, F & 5 month baby	Walk		No		7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	2:00	Unknown	19	Partly Cloudy	2	30s, 2M	Walk		No		7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	1:05	2:00	16	Partly Cloudy	1	20s, F	Walk		Yes		7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	10:15	2:00	4	Partly Cloudy	22	18 6th graders, 4 instructors / chaperones in their 20s	Picnic / School / Camp		Yes - 2 6th graders filled out the survey		7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	12:25	1:45	14	Partly Cloudy	3	30s, 2F, 1M	Dog Walk - On Leash		Yes		7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	11:55	12:25	11	Partly Cloudy	1	20s, M	Walk	Had some sort of recording device? Her first time here - didn't want to go to Samuel P Taylor	No		7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	11:30	12:30	9	Partly Cloudy	1	50s, F	Walk		Yes		7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	11:45	12:25	10	Partly Cloudy	2	50s, M & F	Dog Walk - On Leash		Yes		7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	10:40	12:30	6	Partly Cloudy	2	20s / 30s, M & F	Walk		Yes		7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	10:50	11:20	7	Partly Cloudy	1	30s, F	Dog Walk - On Leash		No		7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	8:30	9:30	1	Overcast, cool	2	40s, 2F	Dog Walk - On Leash	These women live right across the street - Roy's is their backyard and they come here almost every day. They seem pretty protective over it and don't want it to change. They are scared that making improvements will bring too many people. They also told me Spirit Rock uses Roy's for silent retreats	Yes		7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	11:20	11:40	8	Overcast, cool	1	40s, F	Walk		Yes		7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	9:30	10:30	2	Overcast, cool	5	40s, M & F, 3 young boys about 5-7 yrs old	Walk	Travelling, from Ohio, googled where to see Redwoods and came to Roys. Kids played in creek behind bathroom, first time at Roys	Yes		7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	12:20	1:55	13	Overcast, cool	6	30s, 2F, & 4 kids 3-4 yrs old	Walk, Creek Play	Other: Collecting ticks for her job	No		7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	1:20	1:45	17	Partly Cloudy	1	30s, F	Walk		No		7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	1:25	1:45	18	Partly Cloudy	4	30s, M, & 2 boys age 6-7 & 1 girl age 7	Walk		No		7:30 AM - 3:30 PM	Survey number not entered in online survey
5/26/17	3:20	Unknown	21	Partly Cloudy	1	30s, F	Dog Walk - On Leash		Yes		7:30 AM - 3:30 PM	Survey number not entered in online survey
5/27/17	10:50	12:10	1	Mostly Sunny, 50-60 degrees	1	60s, M	Dog Walk - On Leash		Yes		10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	10:40	3:50	2	Mostly Sunny, 50-60 degrees	4	All F, 2 in 20s, 2 in 50s	Dog Walk - On Leash		No		10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	11:20	1:10	3	Mostly Sunny, 50-60 degrees	4	50s, 2M & 2F	Walk	First time here, they came b/c "these are the tallest redwoods in the county"	No		10:30 AM - 6:30 PM	Survey number not entered in online survey



5/27/17	11:00	12:40	4 F Mostly Sunny, 50-60 degrees	1 60s, F	Dog Walk - On Leash		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	Unknown	11:10	5 F Mostly Sunny, 50-60 degrees	2 30s, F	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	11:20	11:30	6 F Mostly Sunny, 50-60 degrees	2 20s, 2F	Walk	Just wanted to look at redwoods for a second then leave	No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	11:40	1:10	9 F Mostly Sunny, 50-60 degrees	30s, 2M & 2F, 3 kids ages 4-7 6	Dog Walk - On Leash, Creek Play, Picnic	Brought towels, food, etc	No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	11:30	12:30	7 F Mostly Sunny, 50-60 degrees	3 50s, 2M & F	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	11:30	1:30	8 F Mostly Sunny, 50-60 degrees	40s, M & 1 boy age 6, 1 girl 3 age 7	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	Unknown	11:40	10 F Mostly Sunny, 50-60 degrees	40s, M&F, 2 boys age 6-7, 5 1 baby	Walk, Creek Play		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	11:45	12:40	11 F Mostly Sunny, 50-60 degrees	2 30s, M&F	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	11:55	Unknown	12 F Mostly Sunny, 50-60 degrees	2 20s, M&F	Dog Walk - On Leash		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	2:35	4:30	13 F Mostly Sunny, 50-60 degrees	1 30s, F	Dog Walk - On Leash		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	12:15	Unknown	14 F Mostly Sunny, 50-60 degrees	1 60s, M	Walk		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	12:10	3:40	15 F Mostly Sunny, 50-60 degrees	2 60s, M&F	Walk	Hiked several connecting trails to Roys	Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	12:45	1:30	16 F Mostly Sunny, 50-60 degrees	1 20s, F	Exercise	Completed survey on 6/2	No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	12:50	1:15	17 F Mostly Sunny, 50-60 degrees	2 20s, F	Walk		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	12:40	1:00	18 F Mostly Sunny, 50-60 degrees	1 20s, M	Horseback Riding	Said he comes to Roys a lot	No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	1:00	1:50	19 F Mostly Sunny, 50-60 degrees	1 50s, M	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	1:15	2:25	20 F Mostly Sunny, 50-60 degrees	3 20s, M	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	1:25	2:40	21 F Mostly Sunny, 50-60 degrees	3 20s, 2m & F	Dog Walk - On Leash		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	1:25	2:00	22 F Mostly Sunny, 50-60 degrees	2 20s, M&F	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	1:50	4:00	23 F Mostly Sunny, 50-60 degrees	1 70s, M	Exercise		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	2:00	4:25	24 F Mostly Sunny, 50-60 degrees	3 20s, 2m & F	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey

5/27/17	2:15	3:25	25 F Mostly Sunny, 50-60 degrees	1 60s, M	Walk	Not sure if his survey response was saved properly - He's been coming to Roys for years, at least once a week either for exercise or to be in the Redwood Grove for "spiritual reasons".		10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	2:20	3:45	26 F Mostly Sunny, 50-60 degrees	2 60s, M & teen F	Dog Walk - On Leash	Man was married at Roys	Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	2:25	2:45	27 F Mostly Sunny, 50-60 degrees	2 20s, M&F	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	2:25	2:50	28 F Mostly Sunny, 50-60 degrees	1 30s, M	Walk, Photography		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	2:35	3:05	29 F Mostly Sunny, 50-60 degrees	2 30s, 2M	Dog Walk - On Leash		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	2:35	3:05	30 F Mostly Sunny, 50-60 degrees	1 50s, F	Walk	Took survey on 5/26	No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	2:35	2:50	31 F Mostly Sunny, 50-60 degrees	3 30s, M	Walk	Dressed in suits, gathered in Redwoods and chatted then left	No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	3:00	Unknown	32 F Mostly Sunny, 50-60 degrees	2 40s, M&F	Dog Walk - On Leash		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	3:25	5:00	33 F Mostly Sunny, 50-60 degrees	4 40s, M&F, Girl - 10, Boy - 8	Dog Walk - On Leash		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	3:50	5:40	34 F Mostly Sunny, 50-60 degrees	2 40s, M&F	Dog Walk - On Leash		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	3:50	5:15	35 F Mostly Sunny, 50-60 degrees	4 20s, 2M & 2F	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	4:05	Unknown	36 F Mostly Sunny, 50-60 degrees	4 60s, M&F, 20s, M&F	Walk		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	4:25	4:40	37 F Mostly Sunny, 50-60 degrees	2 20s, M&F	Walk		Yes	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	4:55	Unknown	38 F Mostly Sunny, 50-60 degrees	4 50, M&F, 2 boys around 10	Walk		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	4:55	5:30	39 F Mostly Sunny, 50-60 degrees	1 20s, M	Walk		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	4:55	6:15	40 F Mostly Sunny, 50-60 degrees	60s, F, 30s, M&F, 3 girls 6 age 2,6,9	Walk		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	5:40	Unknown	41 F Mostly Sunny, 50-60 degrees	1 50s, F	Walk		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
5/27/17	6:15	Unknown	42 F Mostly Sunny, 50-60 degrees	3 30s, M&F, baby	Walk		No	10:30 AM - 6:30 PM	Survey number not entered in online survey
6/1/17	8:00	9:15	Clear Skies, 1 cool	50s, F, 20s, F and little 3 baby	Walk	Woman in her 50s took survey on 5/26. The other woman said she comes about once a week and usually walks her dog there off-leash.	No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/1/17	9:30	10:30	Clear Skies, 2 cool	3 30s, F	Dog Walk - On Leash	Carrying nice camera for photography	Yes	7:30 AM - 3:30 PM	Walked along social trail in Redwoods parallel to meadow trail Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail

6/1/17	9:55	Unknown	Clear Skies, 3 cool	1 30s, F	Running	Seemed like she came from a different side of the park		No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/1/17	10:35	11:00	Clear Skies, 4 cool	1 20s, M	Dog Walk - Off Leash	2 dogs off leash	Walked along social trail in Redwoods parallel to meadow trail	Yes	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/1/17	11:00	12:20	Clear Skies, 5 cool	2 70s, F	Picnic	Had camping chairs & other supplies - both live in Fairfax, first time at Roys	Sat in Redwood Grove with camping chairs at the end of Meadow Trail	Yes	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/1/17	11:50	12:15	Clear Skies, 6 cool	2 50s, F, 20s M	Dog Walk - On Leash	Lives in the area		Yes	No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/1/17	11:55	1:00	Clear Skies, 7 cool	2 60s, M&F	Dog Walk - On Leash	Lives in the area		Yes		7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/1/17	12:20	Unknown	Clear Skies, 8 cool	1 60s, M	Walk				No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/1/17	12:35	1:10	Clear Skies, 9 cool	2 20s, M&F	Walk	Her father is superintendent of Marin County Parks	Yes Redwood Loop Socail Trail	Yes		7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/1/17	1:35	1:45	Clear Skies, 10 cool	2 60s, M&F	Walk	Left b/c she didn't have proper shoes for poison oak		Yes	No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/1/17	2:55	Unknown	Clear Skies, 11 cool	1 40s, M	Running				No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/2/17	1:00	1:20	Clear, 70s, 1 Warm	2 40s, M&F	Walk	Were confused where the trail started			No	10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:00
6/2/17	1:20	2:05	Clear, 70s, 2 Warm	1 30s, F	Dog Walk - On Leash	She said she has seen spotted owls here. Came before and already took survey	Yes Redwood Loop Socail Trail	No		10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:01
6/2/17	1:30	1:50	Clear, 70s, 3 Warm	1 30s, M	Running w/ Dog on Leash	Loves this place except for Poison Oak		Yes		10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:02
6/2/17	1:40	2:05	Clear, 70s, 4 Warm	2 20s, M&F	Dog Walk - On Leash				No	10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:03
6/2/17	3:10	Unknown	Clear, 70s, 5 Warm	2 20s, M&F	Walk	Had A LOT of supplies with them - easle, art supplies	Yes redwood grove	No		10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:04
6/2/17	3:10	Unknown	Clear, 70s, 6 Warm	2 20s, M&F			Yes - creek behind restrooms	No		10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:05

6/2/17	3:30	Unknown	Clear, 70s, 7 Warm	2 30s, 2M	Walk, Photography		No		10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:06
6/2/17	Unknown	3:30	Clear, 70s, 8 Warm	1 30s, M	Passed by mountain biking		No		10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:07
6/2/17	3:50	4:35	Clear, 70s, 9 Warm	1 20s, F	Exercise	Came last week also but didn't take survey	Yes		10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:08
6/2/17	4:15	Unknown	Clear, 70s, 10 Warm	1 60s, M	Horseback Riding	Observed passing by entrance	No		10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:09
6/2/17	4:30	Unknown	Clear, 70s, 11 Warm	2 50s, F & 20s, F	Dog Walk - On Leash	Lives nearby, comes pretty often, used to have bday parties for her kids in the Redwood Grove	No		10:30 AM - 6:30 PM	Roving between 10:30 - 1:00 and 5:00 - 6:30, Surveying between 1:00 and 5:10
6/16/17	7:40	Unknown	1 Sunny, 60s	1 30s, M	Running	Observed running past entrance	No		7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/16/17	9:10	12:45	2 Sunny, 60s	2 30s, 2F	Collecting Ticks - from Marin Sonoma Mosquito Vector Center?		No		7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/16/17	9:30	10:00	3 Sunny, 60s	3 60s, 2F, M	Walk		No	Yes	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/16/17	10:45	Unknown	4 Sunny, 70s	2 30s, F	Horseback Riding	Came down Meadow trail, turned around at entrance and went back down meadow trail	No		7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/16/17	11:00	11:35	5 Sunny, 70s	1 50s, F	Walk		No	No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/16/17	11:15	11:35	6 Sunny, 70s	1 60s, F	Walk		Yes		7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/16/17	11:15	12:45	7 Sunny, 70s	4 70s, 2M, 2F	Walk		No	Yes	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/16/17	11:30	Unknown	8 Sunny, 70s	2 20s, M&F	Walk	Ran around redwoods and in creek behind bathroom	Yes	No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/16/17	11:30	11:45	9 Sunny, 70s	1 30s, F	Dog Walk - On Leash	Thinks that having drinking water would be nice	Yes		7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/16/17	12:55	1:35	10 Sunny, 70s	2 50s, M & teen, M	Walk / picnic		Yes - redwood grove	Yes	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/16/17	12:55	1:10	11 Sunny, 70s	1 30s, M	Dog Walk - On Leash		Yes Redwood Loop Socal Trail	No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/16/17	12:55	Unknown	12 Sunny, 70s	1 20s, F	Horseback Riding	Observed riding past entrance	No	No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail



6/16/17	1:15	Unknown	13	Sunny, 70s	2	20s, M&F	Walk		Yes - redwood grove	No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/16/17	1:40	Unknown	14	Sunny, 70s	2	60s, M&F	Walk		No	No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/16/17	2:15	Unknown	15	Sunny, 70s	1	60s, M	Dog Walk - On Leash			No	7:30 AM - 3:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/22/17	Unknown	10:35	1	Really warm - 80s	2	F, 60s	Walk	Didn't have time to take the survey but one woman lives here, comes here all the time with her family and used to horseback ride here - really appreciates all the trail improvements that have already been made - bridges over stream, more accessibility, appreciates water source		No	10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/22/17	10:40	didn't write down - survey should say	2	Really warm - 80s	2	40s, M&F	Dog Walk - On Leash	First time here, read about Roys in the SF chronicle - chronicle said Roys is a good picnic spot. They came with picnic supplies and picniced in redwood grove close to bay trees at end of meadow trail.	Yes - creek behind restrooms	Yes	10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/22/17	11:40	12:10	3	Really warm - 80s	1	20s, F	Dog Walk - On Leash		Yes - Redwood loop connecting to meadow trail	No	10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/22/17	12:00	12:20	4	Really warm - 80s	1	20s, M	Walk	First time at Roys, works at spirit rock	Yes - redwood loop	Yes	10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/22/17	Unknown	12:10	5	Really warm - 80s	1	70s, M	Running Art class / camp posted behind Redwoods near bathroom and loop trail bridge	Man who calls in about problems and runs here every day		Already took survey	Woman who runs camp already took survey	10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/22/17	Unknown (before 10:30)	1:15	6	Really warm - 80s	10	8 kids, 2 F 40s			Yes			10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/22/17	1:20	2:35	7	Really warm - 80s	2	40, F	Walk		Yes - redwood loop	No	10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/22/17	1:40	1:50	8	Really warm - 80s	1	60s, M	Dog walk - on leash	No time for survey - comes often to let the dog run	Yes - creek behind restrooms	No	10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/22/17	2:10	2:35	9	Really warm - 80s	2	70s, F	Walk	Came here instead of Muir Woods	Yes	Yes	10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/22/17	3:00	3:49	10	Really warm - 80s	4	40s -2M, 70s M, 60s F	Walk	Seemed unsure where to go	Yes - redwood grove	Yes	10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
6/22/17	4:00	4:30	11	Really warm - 80s	1	60s, M	Run			No	10:30 AM - 6:30 PM	Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	

6/22/17	4:50	Unknown	Really warm - 12 80s	2 20s, M&F	Dog Walk - On Leash	First time at Roys	Yes - wandered through redwood grove and up and around bay trees	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	Unknown	1:45	Partly Cloudy, 1 60s	12 1 F, 50s, 11 kids	Summer Camp program / Forest Preschool. Tendertracks.com. Hiking off trail in redwoods, each kid had walking stick, they build a bridge across dry river and walked across it.		Yes	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	11:15	12:00	Partly Cloudy, 2 60s	2 40s, M, daughter 10	Dog Walk - On Leash			Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	Unknown	11:15	Partly Cloudy, 3 60s	1 40s, F	Dog Walk - On Leash			Already took survey	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	Unknown	11:20	Partly Cloudy, 4 60s	2 Teens, F	Walk		Yes	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	Unknown	11:50	Partly Cloudy, 5 60s	1 50s, M		Came to Roy's to take photos of a wooden watch for an advertisement	Yes	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	12:10	1:35	Partly Cloudy, 6 60s	30s, F	Dog Walk - On Leash		Yes - full loop around Redwoods and meadow trail	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	1:35	2:40	Partly Cloudy, 7 60s	2 60s, F	Walk		Yes	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	1:45	3:30	Partly Cloudy, 8 60s	4 60s, 2m & 2F	Picnic		Yes	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	1:45	2:20	9 Sunny, 60s	4 2M, 40s, 2 boys	Walk		Yes	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	2:15	3:10	10 Sunny, 60s	2 M/F Teens	Picnic		Yes	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	2:45	4:45	11 Sunny, 60s	5 30s, 2F & 2 girls, baby	Dog Walk - On Leash	Rolled stroller on trail		Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	2:55 ?		12 Sunny, 60s	2 60s, M&F	Walk	First time at Roys Used to come here as a camp counselor - would play capture the flag with kids throughout the Redwoods		Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	4:20	5:00	13 Sunny, 60s	2 30, M & 60s M	Dog Walk - On Leash			Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	4:25	4:50	14 Sunny, 60s	1 30s, M	Running	Grew up in Marin and used to come to Roys all the time		Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail

6/27/17	5:00	6:15	15 Sunny, 60s	1 40s, F	Walk		Yes	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
6/27/17	6:05	Unknown	16 Sunny, 60s	1 30s, M	Dog Walk - On Leash		Yes	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	Unknown	3:30	1 Sunny, 70s	12 20s, M&F, 10 kids	Summer Camp	Group set up mats and lunches in redwood grove behind bathrooms, left stuff and went on hike on social trails in redwoods and then the Redwood loop trail.	Yes	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	10:40	12:00	2 Sunny, 70s	1 M 70s	Run	Man who runs here every day	No	Already took survey	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	Unknown	11:30	3 Sunny, 70s	4 Baby, 2 girls, F 30s	Walk	Collecting blackberries In redwoods / bay trees where meadow trail goes through - covered themselves in charcoal from burnt trees, one of the kids came to Roys as part of a summer camp and built fort	No	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	11:30	12:30	4 Sunny, 70s	20s, M 2 kids (middle school)	Walk / picnic		Yes	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	12:00	12:50	5 Sunny, 70s	1 80s, F	Walk			Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	12:10	12:40	6 Sunny, 70s	3 20s, F	Dog Walk - On Leash			Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	12:30	Unknown	7 Sunny, 70s	1 40s, M	Horseback Riding	passing through entrance area	Yes - set up picnic in Redwoods across from meadow trail	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	1:00	2:00	8 Sunny, 70s	4 40s M&F, 2 kids	Walk / picnic			No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	12:50	2:10	9 Sunny, 70s	1 40s, F	Walk	She was on a spirit rock retreat - also said she is a painter and wants to paint huge canvases of redwood trees	No	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	3:20	4:30	10 Sunny, 70s	2 20s, M&F	walk		Yes - full loop around Redwoods and meadow trail	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	4:45	5:10	11 Sunny, 70s	3 30s M&F	Dog Walk - On Leash			Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	5:50	6:25	12 Sunny, 70s	2 20s, M			Yes - wandered in redwoods behind bathroom	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/18/17	6:10	Unknown	13 Sunny, 70s	2 30s M&F	Walk			No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail

7/22/17	Unknown	7:40	1 Sunny, 60s	1 30s, F	Run		Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	Unknown	7:55	2 Sunny, 60s	1 50s, M	Run		No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	9:00	9:40	3 Sunny, 60s	1 40s, M	Dog Walk - On Leash		Yes - full loop around Redwoods and meadow trail	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	9:20	9:30	4 Sunny, 60s	3 30s, M&F, baby	Walk	wandered around redwoods behind bathroom then left	yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	9:30	Unknown	5 Sunny, 60s	10 male and female 30s - 50s	Spiritual retreat?	Very eclectic group of people whereing costumes (capas), had instruments, yoga mats, they started with a prayer circle in the parking lot	Yes - I didn't see them gathered in the redwood grove - must have gone up the trails and spent the day elsewhere.	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	9:30	10:00	6 Sunny, 60s	1 50s, F	Dog Walk - Off Leash	Comes here all the time and loves Roys	No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	9:30	10:50	7 Sunny, 60s	2 60s, M&F	Walk		Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	9:35	10:50	8 Sunny, 60s	1 30s, M	Dog Walk - On Leash		Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	8:30	9:30	9 Sunny, 60s	1 60s, M	Run	Ran to viewpoint and down - VERY ANGRY about how popular trails in Marin are getting including Roys. Lived in Marin his whole life, doesn't support any new signs, road improvements, trail improvements, anything that brings more people here and makes the outdoor spaces feel less open and wild. He said whoever is promoting Roys and trying to bring more people here should stop.	Yes - to viewpoint	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	10:00	10:55	10 Sunny, 60s	1 80s, F	Walk	Founder of Marin LINK - would like more access for disadvantaged groups and seniors - likes wandering through the redwoods without a trail. Would like interpretive signage about plants, trees, history. She also recently donated to the GGNRA.	Yes - also didn't want to type so I filled it in for her.	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	10:50	12:00	11 Sunny, 60s	5 50s, 2F, M 2 kids	Dog Walk - On Leash	Family walk - were dissappointed the trail was so sunny and not in the Redwoods	Yes - Redwoods behind bathroom	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail

7/22/17	11:10		12 Sunny, 60s	2 30s, F	Horseback Riding	Used the meadow trail - passed by entrance		No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	11:10	12:30	13 Sunny, 60s	3 30s, M&F, baby	Walk	Come here a lot and love Roys (especially compared to Muir Woods)	Yes - redwood loop	Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	11:20	11:50	14 Sunny, 60s	2 30s, M&F	Walk			Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	11:20	12:00	15 Sunny, 60s	2 20s, M	Walk			Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	11:50	12:40	16 Sunny, 60s	2 40s, M	Walk			Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	2:15	3:20	17 Sunny, 60s	3 30s M&F, girl	Dog Walk - On Leash		Yes - redwood loop to meadow trail	Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
7/22/17	3:10	Unknown	18 Sunny, 60s	4 20s, 2M&2F	Walk / Picnic		Wandered in redwoods behind bathroom	No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
8/13/17	7:40	9:30	Breezy Sunny 1 60s	1 50s, M	Walk	Comes here to meditate		Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
8/13/17	7:45	9:40AM	Breezy Sunny 2 60s	2 30s, F	Walk	Comes here a lot	Yes loop	Already took survey	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
8/13/17	9:00	11:00	Breezy Sunny 3 60s	2 40s, M&F	Dog walk -on leash			No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
8/13/17	9:10	10:35	Breezy Sunny 4 60s	2 30s, M&F	Walk			Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
8/13/17	11:00	12:30	Breezy Sunny 5 60s	1 70s, M	Dog Walk - on leash	Came as an alternative to muir woods		Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
8/13/17	11:20	1:00	Breezy Sunny 6 60s	1 30s, F	Walk	Brought yoga mat & art supplies	Yes - loop and hung out in bay tree area	No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
8/13/17	12:00	12:50	Breezy Sunny 7 60s	4 30s, M&F, two boys	Picnic supplies, through a ball around	First time at Roys	Area behind bathroom	Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
8/13/17	1:15	2:30	Breezy Sunny 8 60s	2 40s, 2M	biked to Roys, then hiked around / ate			Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
8/13/17	1:25	3:15	Breezy Sunny 9 60s	2 40s, M, 10 yr old	walk	has come to roys before`		Already took survey	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
8/13/17	2:00	3:20	Breezy Sunny 10 60s	1 50s, F	Dog walk on leash	Also has been to roys before	Yes - loop	Already took survey	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail

9/26/17	Unknown	2:30	1 Clear skies, 60s / 70s, breezy	5 preschoolers, 2 female 7 instructors	Preschool	She didn't have time to take the survey but said her preschool is 3x a week, she comes to Roys when it's not too cold, or she goes to lagunitas lake. She said feel free to email her the website is tendertracks.com	Based in grove behind redwoods, went to bay tree area, all throughout off trail redwood area.	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
9/26/17	Unknown	11:15	2 Clear skies, 60s / 70s, breezy	1 50s, M	Walk				10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
9/26/17	10:30	11:30	3 Clear skies, 60s / 70s, breezy	2 60s, M&F	Walk			Yes - loop	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	Unknown	11:45	4 Clear skies, 60s / 70s, breezy	2 60s, M&F	Walk	Claire Mooney's parents!			Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	11:45	1:00	5 Clear skies, 60s / 70s, breezy	2 30s, M&F	Walk				No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	Unknown	12:10	6 Clear skies, 60s / 70s, breezy	2 20s, M&F	Dog walk on leash	Noted in person they don't want a formal trail built through Redwoods, appreciate how clean the porta potty is		Yes	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	10:35	12:25	7 Clear skies, 60s / 70s, breezy	2 20s, F	Dog walk on leash	They want better signage once you're out of the Redwoods, but don't want more signage in the redwood grove		Yes	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	Unknown	12:36	8 Clear skies, 60s / 70s, breezy	1 50s, M	Walk	lives in fairfax, has been here 4 times just this week, does the entire loop. Loves coming here for the solitude and rejuvenation		Yes (loop)	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	12:45	1:15	9 Clear skies, 60s / 70s, breezy	1 30s, F	Dog walk on leash	has been here before - ive seen her several times		Yes (loop)	Already took survey	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	1:30	2:50	10 Clear skies, 60s / 70s, breezy	2 60s, M&F	Dog Walk on leash			Yes - loop	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	3:00	4:15	11 Clear skies, 60s / 70s, breezy	3 20s, 2M&F		Wandered around redwoods / bay grove				10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	3:00	4:10	12 Clear skies, 60s / 70s, breezy	1 60s, M	Running	Comes almost every day			Already took survey	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	4:15	Unknown	13 Clear skies, 60s / 70s, breezy	2 30s, F	Walk			No	No	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/26/17	4:20	5:15	1 Clear skies, 60s / 70s, breezy	1 50s, M	Dog walk on leash			Redwood loop	Yes	10:30 AM - 6:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/27/17	Unknown	7:40	1 Sunny, 60s/70s	1 30s, M	Dog walk on leash	comes here to run			Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail

9/27/17	Unknown	7:50	2 Sunny, 60s/70s	1 60s, F	Walk			No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
9/27/17	Unknown	8:10	3 Sunny, 60s/70s	2 40s, F	Dog Walk on leash		Yes - loop	Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
9/27/17	Unknown	9:05	4 Sunny, 60s/70s	2 30s, F	Walking for exercise - they were continuing onto trail on the other side of the street - didn't want to stop for the survey			No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
9/27/17		8:40	5 Sunny, 60s/70s	2 40s, M	Horsebackriding	Rode past entrance at 8:40		No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail	
9/27/17		9:00	10:40	6 Sunny, 60s/70s	1 30s, M	Walking and photography	carried a big camera with him, took a lot of photos	Yes	Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/27/17		9:15	10:20	7 Sunny, 60s/70s	1 20s, F	Running			No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/27/17		9:30	2:30	8 Sunny, 60s/70s	5 preschoolers, 2 female instructors	Preschool	Forest preschool again	Yes	No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/27/17		10:15	11:35	9 Sunny, 60s/70s	3 F, 40s, 2 kids	Walk / picnic	sat in redwood grove behind bathroom to eat		Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/27/17		10:30	10:50	10 Sunny, 60s/70s	1 M, 40s	Walk	Wandered around redwoods then left	Yes - loop	No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/27/17		11:00	11:30	11 Sunny, 60s/70s	2 F, 20s	Dog walk on leash		Yes loop	No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/27/17		12:20	1:10	12 Sunny, 60s/70s	1 M, 60s	Dog Walk on leash		Yes loop	Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/27/17		1:00	3:00	13 Sunny, 60s/70s	1 F, 40s	Picnic	sat in redwood grove behind bathroom - ate and read	Yes	No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/27/17		1:00	Unknown	14 Sunny, 60s/70s	1 M, 50s	Horsebackriding			No	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
9/27/17		1:30	2:30	15 Sunny, 60s/70s	4 30s, M&F, 2 toddlers	Walk and picnic		Yes	Yes	7:30 AM - 3:30 PM, Walked around Redwood Grove about every hour, noted on exit survey sheet if groups were off trail
11/7/17	No Notes	3/3/18	9:36	Rainy	1 40s	walk	meadow trail - bay tree area			
3/3/18		9:42		Rainy	2 20s	walk	meadow trail - fairy ring grove - north meadow grove			Very few visitors were observed crossing the creek channel. It appeared that visitors were deterred from crossing the creek by high water.

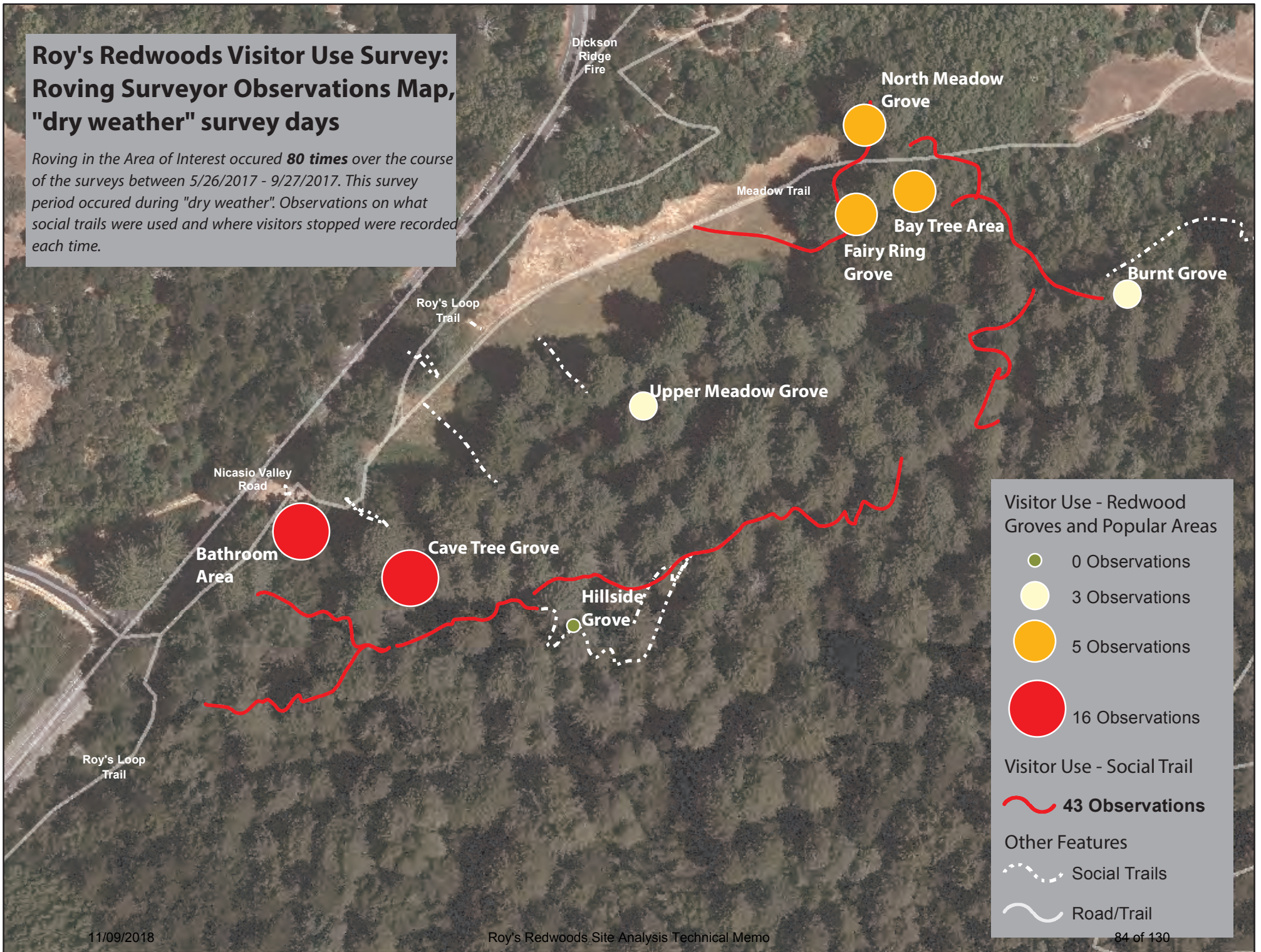
Parents and young children visited specifically to play in the creek. This group stayed in and around the section of creek near the bathroom area.

3/3/18	10:14	Rainy	5 3 <18 2 in 40s	interact w/ creek	in creek/bathroom area
3/3/18	11:06	Rainy	3 1<18, 2 in 50s	walk	meadow trail - fairy ring grove
3/3/18	11:53	Rainy	1 50s	walk	exit via meadow trail
3/3/18	12:08	Rainy	1 60s	walk	meadow trail - fairy ring grove - bay tree - meadow trail out
3/3/18	12:21	Rainy	4 3 <18, 1 in 40s	dog walk off leash & walk	meadow trail - fairy ring grove - north meadow grove - bay tree area
3/3/18	12:50	Rainy	1 20s	photography	bay tree area - burnt grove - waterfall - hillside grove - stoner grove
3/3/18	13:02	Rainy	3 1<18, 1 in 30s	walk	meadow trail - fairy ring grove
3/3/18	13:47	Rainy	1 50s	walk	meadow trail - fairy ring grove - north meadow grove
3/3/18	14:12	Rainy	2 20s	walk	fairy ring grove - upper meadow grove - stoner grove
3/3/18	14:33	Rainy	1 50s	dog walk on leash	meadow trail - bay tree area - north meadow grove
3/3/18	14:51	Rainy	2 40s	walk	meadow trail - fairy ring grove
3/3/18	15:00	Rainy	1 30s	walk	meadow trail - fairy ring grove - bay tree area - burnt grove - upper meadow grove - stoner grove
3/3/18	15:39	Rainy	2 60s	walk	meadow trail - north meadow grove
3/10/18	11:16	Light morning rain	1 40s	walk	fairy ring grove - meadow trail
3/10/18	11:57	Light morning rain	2 30s	dog walk on leash	fairy ring - north meadow grove - meadow trail
3/10/18	12:12	Light morning rain	4 2<18, 2 in 40s	walk	fairy ring - meadow trail
3/10/18	14:00	Light morning rain	4 2<18, 2 in 50s	walk	meadow trail
3/10/18	14:30	Light morning rain	1 50s	dog walk on leash	meadow trail - bay tree area
3/10/18	14:39	Light morning rain	2 20s	walk	stoner grove - upper meadow grove - fairy ring grove - meadow trail
3/10/18	15:14	Light morning rain	2 20s	walk	meadow trail - north meadow grove - bay tree area - fairy ring grove
3/10/18	15:33	Light morning rain	1 50s	dog walk on leash	meadow trail - north meadow grove
3/10/18	16:05	Light morning rain	3 30s	walk	meadow trail - fairy ring grove - upper meadow grove - stoner grove
3/10/18	16:22	Light morning rain	1 60s	walk	meadow trail - fairy ring grove - bay tree area
3/10/18	16:47	Light morning rain	1 40s	walk	meadow trail



# Roy's Redwoods Visitor Use Survey: Roving Surveyor Observations Map, "dry weather" survey days

Roving in the Area of Interest occurred **80 times** over the course of the surveys between 5/26/2017 - 9/27/2017. This survey period occurred during "dry weather". Observations on what social trails were used and where visitors stopped were recorded each time.



**Visitor Use - Redwood Groves and Popular Areas**

- 0 Observations
- 3 Observations
- 5 Observations
- 16 Observations

**Visitor Use - Social Trail**

- ~ 43 Observations

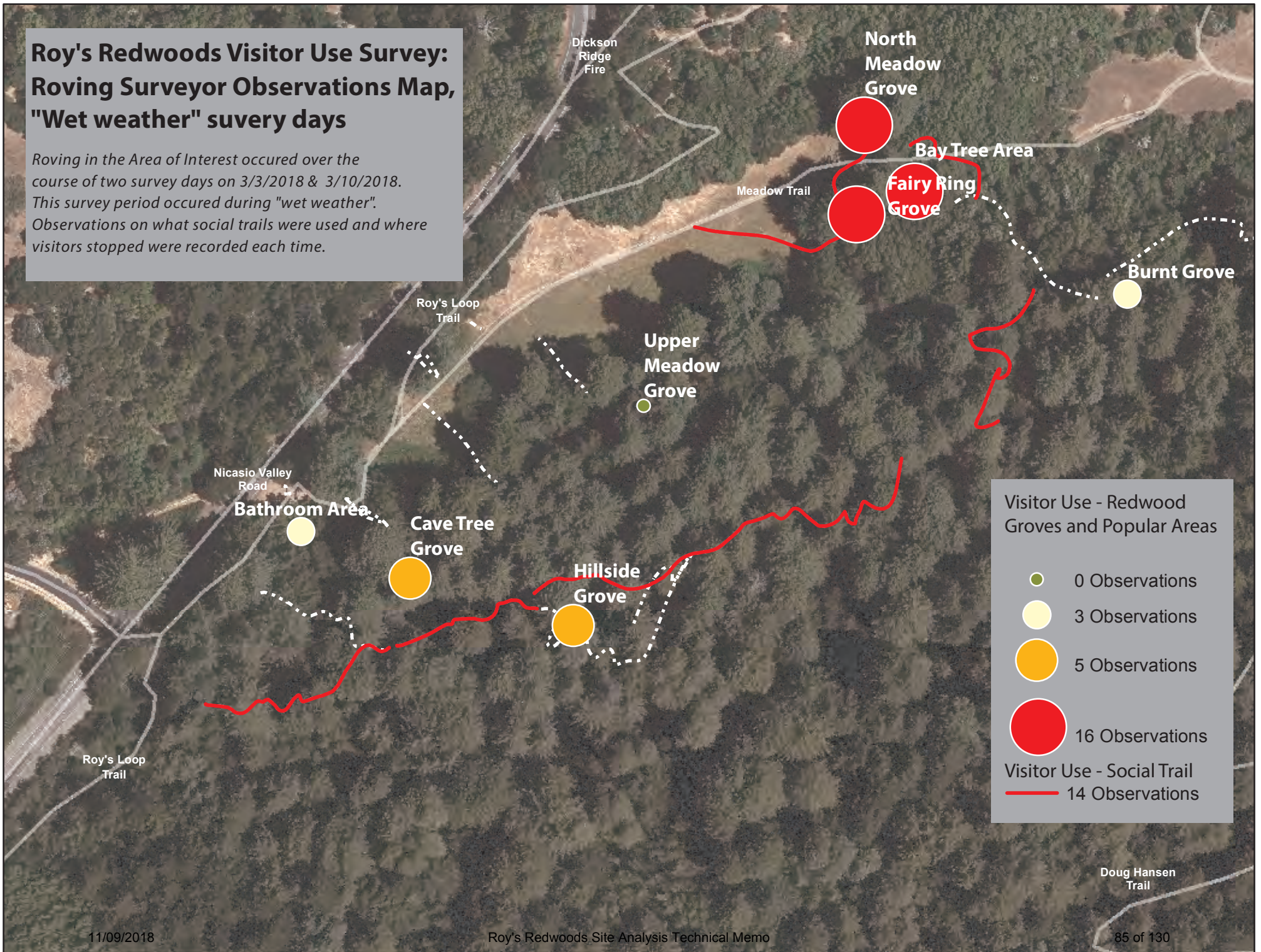
**Other Features**

- - - Social Trails
- ~ Road/Trail



# Roy's Redwoods Visitor Use Survey: Roving Surveyor Observations Map, "Wet weather" survey days

Roving in the Area of Interest occurred over the course of two survey days on 3/3/2018 & 3/10/2018. This survey period occurred during "wet weather". Observations on what social trails were used and where visitors stopped were recorded each time.



	A	B	C	D	E	F	G	H	I
1	Family (Scientific)	Scientific Name	Single Common Name	Non-Native	Special Status	Observed at Roy's	Coast Redwood Dependant	Observation Note	Source
2	<b>PLANTS</b>								
3	Rosaceae	<i>Acaena pinnatifida var. californica</i>	California sheepburr	Native	None	Yes			
4	Aceraceae	<i>Acer macrophyllum</i>	big-leaf maple	Native	None	Yes			iNaturalist
5	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Native	None	Yes			
6	Fabaceae	<i>Acmispon americanus</i>	pink lotus-pea	Native	None	Yes			
7	Fabaceae	<i>Acmispon brachycarpus</i>	short-pod hill lotus-pea	Native	None	Yes			
8	Fabaceae	<i>Acmispon glaber var. glaber</i>	deerweed	Native	None	Yes			
9	Fabaceae	<i>Acmispon parviflorus</i>	tiny-flowered lotus-pea	Native	None	Yes			
10	Fabaceae	<i>Acmispon wrangelianus</i>	yellow lotus-pea	Native	None	Yes			
11	Asteraceae	<i>Adenocaulon bicolor</i>	trail plant	Native	None	Yes			
12	Rosaceae	<i>Adenostoma fasciculatum</i>	chamise	Native	None	Yes			
13	Pteridaceae	<i>Adiantum jordanii</i>	California maiden-hair fern	Native	None	Yes			
14	Hippocastanaceae	<i>Aesculus californica</i>	California buckeye	Native	None	Yes			
15	Asteraceae	<i>Agoseris apargioides var. eastwoodiae</i>	coast dandelion	Native	None	Yes			
16	Asteraceae	<i>Agoseris grandiflora</i>	California dandelion	Native	None	Yes			
17	Asteraceae	<i>Agoseris heterophylla</i>	annual mountain dandelion	Native	None	Yes			
18	Asteraceae	<i>Agoseris hirsuta</i>	grassland dandelion	Native	None	Yes			
19	Poaceae	<i>Agrostis sp.</i>	bentgrass	Invasive	None	Yes			
20	Poaceae	<i>Aira caryophyllea</i>	silver European hairgrass	Invasive	None	Yes			
21	Boraginaceae	<i>Amsinckia menziesii var. intermedia</i>	common fiddleneck	Native	None	Yes			
22	Boraginaceae	<i>Amsinckia intermedia</i>	common fiddleneck	Native	None	Yes			
23	Primulaceae	<i>Anagallis arvensis</i>	scarlet pimpernel	Non-Native	None	Yes			iNaturalist
24	Asteraceae	<i>Anaphalis margaritacea</i>	pearly everlasting	Native	None	Yes			
25	Apiaceae	<i>Angelica tomentosa</i>	woolly angelica	Native	None	Yes			
26	Apiaceae	<i>Angelica californica</i>	woodland angelica	Native	None	Yes			
27	Asteraceae	<i>Anisocarpus madioides</i>	forest/woodland tarweed	Native	None	Yes			
28	Asteraceae	<i>Anthemis cotula</i>	dog fennel	Invasive	None	Yes			
29	Poaceae	<i>Anthoxanthum occidentale</i>	California sweet grass	Native	None	Yes			
30	Rosaceae	<i>Aphanes occidentalis</i>	Western lady's mantel	Native	None	Yes			
31	Ranunculaceae	<i>Aquilegia formosa</i>	crimson columbine	Native	None	Yes			
32	Ericaceae	<i>Arbutus menziesii</i>	Pacific madrone	Native	None	Yes			iNaturalist
33	Ericaceae	<i>Arctostaphylos glandulosa</i>	eastwood manzanita	Native	None	Yes			
34	Ericaceae	<i>Arctostaphylos glandulosa ssp. Glandulosa</i>	eastwood manzanita	Native	None	Yes			
35	Aristolochiaceae	<i>Aristolochia californica</i>	California pipevine	Native	None	Yes			
36	Asteraceae	<i>Artemisia californica</i>	California sagebrush	Native	None	Yes			
37	Asteraceae	<i>Artemisia douglasiana</i>	mugwort	Native	None	Yes			
38	Pteridaceae	<i>Aspidotis californica</i>	California lace fern	Native	None	Yes			
39	Pteridaceae	<i>Aspidotis densa</i>	serpentine fern	Native	None	Yes			
40	Fabaceae	<i>Astragalus gambelianus var. elmeri</i>	dwarf loco weed	Native	None	Yes			
41	Fabaceae	<i>Astragalus gambelianus var. gambelianus</i>	dwarf loco weed	Native	None	Yes			



	A	B	C	D	E	F	G	H	I
42	Brassicaceae	<i>Athysanus pusillus</i>	dwarf athysanus	Native	None	Yes			
43	Poaceae	<i>Avena barbata</i>	slender wild oat	Invasive	None	Yes			
44	Poaceae	<i>Avena fatua</i>	wild oat	Invasive	None	Yes			
45	Poaceae	<i>Avena sativa</i>	cultivated oat	Invasive	None	Yes			
46	Asteraceae	<i>Baccharis pilularis</i>	coyote brush	Native	None	Yes			
47	Asteraceae	<i>Bellis perennis</i>	english daisy	Invasive	None	Yes			
48	Boraginaceae	<i>Borago officinalis</i>	borage	Invasive	None	Yes			
49	Poaceae	<i>Brachypodium distachyon</i>	silica grass	Invasive	None	Yes			
50	Brassicaceae	<i>Brassica rapa</i>	common mustard	Invasive	None	Yes			
51	Poaceae	<i>Briza maxima</i>	rattlesnake grass	Invasive	None	Yes			iNaturalist
52	Poaceae	<i>Briza minor</i>	little rattlesnake grass	Non-Native	None	Yes			
53	Liliaceae	<i>Brodiaea elegans ssp. elegans</i>	harvest/elegant brodiaea	Native	None	Yes			
54	Poaceae	<i>Bromus carinatus var. carinatus</i>	California/mountain brome	Native	None	Yes			
55	Poaceae	<i>Bromus diandrus</i>	rippgut grass	Invasive	None	Yes			
56	Poaceae	<i>Bromus hordeaceus</i>	soft brome, soft chess	Invasive	None	Yes			
57	Poaceae	<i>Bromus madritensis ssp. rubens</i>	foxtail brome, foxtail chess	Invasive	None	Yes			
58	Montiaceae	<i>Calandrinia ciliata</i>	redmaids	Native	None	Yes			
59	Liliaceae	<i>Calochortus luteus</i>	yellow mariposa lily	Native	None	Yes			
60	Asteraceae	<i>Calycadenia multiglandulosa</i>	sticky rosin weed	Native	None	Yes			
61	Orchidaceae	<i>Calypso bulbosa</i>	fairy slipper orchid	Native	None	Yes			
62	Convolvulaceae	<i>Calystegia purpurata</i>	smooth western morning glory	Native	None	Yes			
63	Convolvulaceae	<i>Calystegia purpurata ssp. purpurata</i>	western/chapparral morning glory	Native	None	Yes			
64	Convolvulaceae	<i>Calystegia subacaulis ssp. Subacaulis</i>	Cambria morning glory	Native	None	Yes			
65	Onagraceae	<i>Camissonia ovata</i>	sun cup	Native	None	Yes			
66	Brassicaceae	<i>Cardamine californica</i>	milk maids	Native	None	Yes			iNaturalist
67	Brassicaceae	<i>Cardamine oligosperma</i>	bitter/few-seeded cress	Native	None	Yes			
68	Asteraceae	<i>Carduus pycnocephalus</i>	Italian thistle	Invasive	None	Yes			iNaturalist
69	Asteraceae	<i>Carduus tenuiflorus</i>	slender-spine thistle	Invasive	None	Yes			
70	Cyperaceae	<i>Carex densa</i>	dense sedge	Native	None	Yes			
71	Cyperaceae	<i>Carex globosa</i>	roundfruit sedge	Native	None	Yes			
72	Cyperaceae	<i>Carex utriculata</i>	woodland sedge	Native	None	Yes			
73	Cyperaceae	<i>Carex tumulicola</i>	foothill sedge	Native	None	Yes			
74	Orobanchaceae	<i>Castilleja densiflora spp. Densiflora</i>	common owl's clover	Native	None	Yes			
75	Orobanchaceae	<i>Castilleja foliolosa</i>	woolly Indian paintbrush	Native	None	Yes			
76	Orobanchaceae	<i>Castilleja subinclusa ssp. franciscana</i>	Franciscan painbrush	Native	None	Yes			
77	Rhamnaceae	<i>Ceanothus cuneatus var. cuneatus</i>	buch brush	Native	None	Yes			
78	Rhamnaceae	<i>Ceanothus thryrsiflorus</i>	blueblossom	Native	None	Yes			
79	Asteraceae	<i>Centaurea melitensis</i>	Napa/Tocalote thistle	Invasive	None	Yes			
80	Asteraceae	<i>Centaurea solstitialis</i>	yellow star thistle	Invasive	None	Yes			
81	Gentianaceae	<i>Centaurium tenuiflorum</i>	European slender centauray	Non-Native	None	Yes			
82	Caryophyllaceae	<i>Cerastium glomeratum</i>	mouse-ear chickweed	Non-Native	None	Yes			
83	Liliaceae	<i>Chlorogalum pomeridianum var. pomeridianum</i>	soap plant var. pomeridianum	Native	None	Yes			iNaturalist

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84	Onagraceae	<i>Circaea alpina ssp. pacifica</i>	enchanter's nightshade	Native	None	Yes			
85	Asteraceae	<i>Cirsium occidentale var. occidentale</i>	cobweb thistle	Native	None	Yes			
86	Asteraceae	<i>Cirsium occidentale var. venustum</i>	Coulter's thistle	Native	None	Yes			
87	Asteraceae	<i>Cirsium remotifolium</i>	few-leaved thistle	Native	None	Yes			
88	Asteraceae	<i>Cirsium vulgare</i>	bull thistle	Invasive	None	Yes			
89	Onagraceae	<i>Clarkia amoena</i>	farewell-to-sprin	Native	None	Yes			
90	Onagraceae	<i>Clarkia gracilis ssp. gracilis</i>	summer's-darling clarkia	Native	None	Yes			
91	Onagraceae	<i>Clarkia purpurea ssp. Purpurea</i>	purple clarkia	Native	None	Yes			
92	Onagraceae	<i>Clarkia purpurea ssp. quadrivulnera</i>	winecup/four-spot clarki	Native	None	Yes			
93	Onagraceae	<i>Clarkia purpurea ssp. Viminea</i>	large godetia	Native	None	Yes			
94	Portulacaceae	<i>Claytonia perfoliata ssp. perfoliata</i>	miner's lettuce ssp. perfoliata	Native	None	Yes			
95	Lamiaceae	<i>Clinopodium douglasii</i>	yerba buena	Native	None	Yes			iNaturalist
96	Liliaceae	<i>Clintonia andrewsiana</i>	Andrews' clintonia	Native	None	Yes			iNaturalist
97	Plantaginaceae	<i>Collinsia heterophylla var. heterophylla</i>	Chinese houses	Native	None	Yes			
98	Plantaginaceae	<i>Collinsia sparsiflora var. collina</i>	hillside/blue-eyed Mary collinsia	Native	None	Yes			
99	Polemoniaceae	<i>Collomia heterophylla</i>	variableleaf collomia	Native	None	Yes			
100	Apiaceae	<i>Conium maculatum</i>	poison hemlock	Invasive	None	Yes			
101	Convolvulaceae	<i>Convolvulus arvensis</i>	field bindweed	Invasive	None	Yes			
102	Orchidaceae	<i>Corallorhiza maculata</i>	summer coral root	Native	None	Yes			
103	Orchidaceae	<i>Corallorhiza striata</i>	California/wood strawberry	Native	None	Yes			
104	Betulaceae	<i>Corylus cornuta var. californica</i>	California hazelnut	Native	None	Yes			iNaturalist
105	Rosaceae	<i>Cotoneaster sp.</i>	cotoneaster sp.	Invasive	None	Yes			
106	Crassulaceae	<i>Crassula connata</i>	sand pygmyweed	Native	None	Yes			iNaturalist
107	Euphorbiaceae	<i>Croton setiger</i>	turkey mullein	Native	None	Yes			
108	Boraginaceae	<i>Cynoglossum grande</i>	Pacific/Western hound's tongue	Native	None	Yes			iNaturalist
109	Poaceae	<i>Cynosurus echinatus</i>	hedgehog dogtail grass	Invasive	None	Yes			
110	Cyperaceae	<i>Cyperus eragrostis</i>	tall nutsedge/cyperus	Native	None	Yes			
111	Fabaceae	<i>Cytisus scoparius</i>	scotch broom	Invasive	None	Yes			
112	Poaceae	<i>Danthonia californica var. californica</i>	California oatgrass	Native	None	Yes			
113	Apiaceae	<i>Daucus pusillus</i>	American wild carrot	Native	None	Yes			
114	Ranunculaceae	<i>Delphinium hesperium ssp. hesperium</i>	Western/coast/foothill larkspur	Native	None	Yes			
115	Ranunculaceae	<i>Delphinium patens ssp. Patens</i>	woodland larkspur	Native	None	Yes			
116	Liliaceae	<i>Dichelostemma capitatum ssp. capitatum</i>	blue dicks	Native	None	Yes			iNaturalist
117	Liliaceae	<i>Dichelostemma congestum</i>	ookow	Native	None	Yes			
118	Phrymaceae	<i>Diplacus aurantiacus ssp. Aurantiacus</i>	orange bush monkeyflower	Native	None	Yes			
119	Dipsacaceae	<i>Dipsacus fullonum</i>	wild teasel	Invasive	None	Yes			
120	Dipsacaceae	<i>Dipsacus sativus</i>	white-flowered teasel	Invasive	None	Yes			
121	Primulaceae	<i>Dodecatheon hendersonii</i>	shooting star/mosquito bills	Native	None	Yes			
122	Rosaceae	<i>Drymocallis glandulosa var. wrangeliana</i>	sticky cinquefoil	Native	None	Yes			
123	Dryopteridaceae	<i>Dryopteris arguta</i>	California/coastal wood fern	Native	None	Yes			

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124	Crassulaceae	<i>Dudleya cymosa</i>	rock lettuce	Native	None	Yes			
125	Crassulaceae	<i>Dudleya cymosa</i> ssp. <i>cymosa</i>	canyon/spreading dudleya	Native	None	Yes			iNaturalist
126	Poaceae	<i>Elymus glaucus</i> x <i>E. multisetus</i>	hybrid squirreltail grass	Native	None	Yes			
127	Poaceae	<i>Elymus glaucus</i>	blue wildrye	Native	None				
128	Poaceae	<i>Elymus multisetus</i>	big squirreltail grass	Native	None	Yes			
129	Onagraceae	<i>Epilobium brachycarpum</i>	tall annual willowherb	Native	None	Yes			
130	Onagraceae	<i>Epilobium canum</i> ssp. <i>Canum</i>	California fuchsia	Native	None	Yes			
131	Onagraceae	<i>Epilobium cilatum</i>	common willowherb	Native	None	Yes			
132	Onagraceae	<i>Epilobium densiflorum</i>	boisduvalia	Native	None	Yes			
133	Asteraceae	<i>Erechtites minima</i>	Australian fireweed	Invasive	None	Yes			
134	Onagraceae	<i>Epilobium minutum</i>	minute willowherb	Native	None	Yes			
135	Boraginaceae	<i>Eriodictyon californicum</i>	yerba santa	Native	None	Yes			
136	Polygonaceae	<i>Eriogonum nudum</i> var. <i>nudum</i>	nude buckwheat	Native	None	Yes			
137	Asteraceae	<i>Erigeron reductus</i> var. <i>angustatus</i>	pine erigeron	Native	None	Yes			
138	Asteraceae	<i>Eriophyllum confertiflorum</i> var. <i>confertiflorum</i>	golden yarrow	Native	None	Yes			
139	Asteraceae	<i>Eriophyllum lanatum</i> var. <i>arachnoideum</i>	common woolly sunflower	Native	None	Yes			
140	Geraniaceae	<i>Erodium botrys</i>	long-beaked storksbill/filaree	Non-Native	None	Yes			iNaturalist
141	Geraniaceae	<i>Erodium brachycarpum</i>	white-stemmed filaree	Invasive	None	Yes			
142	Geraniaceae	<i>Erodium cicutarium</i>	red-stemmed filaree	Invasive	None	Yes			
143	Phrymaceae	<i>Erythranthe guttata</i>	perennial yellow monkeyflower	Native	None	Yes			
144	Papaveraceae	<i>Eschscholzia californica</i>	California poppy	Native	None	Yes			iNaturalist
145	Myrtaceae	<i>Eucalyptus globulus</i>	blue gum eucalyptus	Invasive	None	Yes			
146	Euphorbiaceae	<i>Euphorbia oblongata</i>	egglea spurge	Invasive	None	Yes			
147	Euphorbiaceae	<i>Euphorbia spathulata</i>	spoon-leaved spurge	Native	None	Yes			
148	Asteraceae	<i>Eurybia radulina</i>	rough-leaved aster	Native	None	Yes			
149	Poaceae	<i>Festuca bromoides</i>	brome-like annual fescue	Invasive	None	Yes			
150	Poaceae	<i>Festuca californica</i>	California fescue	Native	None	Yes			
151	Poaceae	<i>Festuca idahoensis</i>	Idaho/blue fescue	Native	None	Yes			
152	Poaceae	<i>Festuca microstachys</i>	native annual "semaphore" fescue	Native	None	Yes			
153	Poaceae	<i>Festuca myuros</i>	mouse-tail fescue	Invasive	None	Yes			
154	Poaceae	<i>Festuca perennis</i>	annual and perennial ryegrass	Invasive	None	Yes			
155	Poaceae	<i>Festuca rubra</i>	red fescue	Native	None	Yes			
156	Apiaceae	<i>Foeniculum vulgare</i>	fennel	Invasive	None	Yes			
157	Rosaceae	<i>Fragaria vesca</i>	California/wood strawberry	Native	None	Yes			
158	Rhamnaceae	<i>Frangula californica</i> spp. <i>Californica</i>	coffeeberry	Native	None	Yes			
159	Oleaceae	<i>Fraxinus latifolia</i>	Oregon ash	Native	None	Yes			
160	Liliaceae	<i>Fritillaria affinis</i> var. <i>affinis</i>	checker lily	Native	None	Yes			
161	Rubiaceae	<i>Galium aparine</i>	common bedstraw	Native	None	Yes			
162	Rubiaceae	<i>Galium californicum</i> ssp. <i>californicum</i>	California bedstraw	Native	None	Yes			
163	Rubiaceae	<i>Galium murale</i>	tiny bedstraw	Non-Native	None	Yes			
164	Rubiaceae	<i>Galium parisiense</i>	wall bedstraw	Invasive	None	Yes			
165	Rubiaceae	<i>Galium porrigens</i> var. <i>porrigens</i>	climbing/graceful bedstraw	Native	None	Yes			
166	Rubiaceae	<i>Galium triflorum</i>	redwood vanilla-scented bedstraw	Native	None	Yes			
167	Asteraceae	<i>Gamochaeta ustulata</i>	silver-leaf cudweed	Native	None	Yes			

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168	Poaceae	<i>Gastridium phleoides</i>	nitgrass	Non-Native	None	Yes			
169	Ericaceae	<i>Gaultheria shallon</i>	salal	Native	None	Yes			
170	Fabaceae	<i>Genista monspessulana</i>	french broom	Invasive	None	Yes			
171	Geraniaceae	<i>Geranium dissectum</i>	cut-leaved geranium	Invasive	None	Yes			
172	Polemoniaceae	<i>Gilia capitata ssp. Capitata</i>	blue field gilia	Native	None	Yes			
173	Geraniaceae	<i>Geranium molle</i>	crane's bill/dove's-foot geranium	Invasive	None	Yes			
174	Asteraceae	<i>Gnaphalium californicum</i>	California cudweed	Native	None	Yes			
175	Asteraceae	<i>Gnaphalium palustre</i>	lowland cudweed	Native	None	Yes			
176	Asteraceae	<i>Gnaphalium purpureum</i>	purple cudweed	Native	None	Yes			
177	Asteraceae	<i>Grindelia camporum</i>	gumweed	Native	None	Yes			
178	Asteraceae	<i>Grindelia hirsutula var. hirsutula</i>	hairy gumweed	Native	None	Yes			
179	Asteraceae	<i>Helenium puberulum</i>	sneezeweed	Native	None	Yes			
180	Cistaceae	<i>Helianthemum scoparium</i>	broom rose	Native	None	Yes			
181	Asteraceae	<i>Helminthotheca echioides</i>	Bristly Ox-tongue	Invasive	None	Yes			
182	Asteraceae	<i>Hemizonia congesta ssp. congesta</i>	yellow hayfield tarweed	Native	CNPS 1B.2	No		1971-07-01 Vanbianchi, S side of San Geronimo Valley, between Woodacre and San Geronimo	
183	Asteraceae	<i>Hemizonia congesta ssp. Lutescens</i>	yellow hayfield tarweed	Native	None	Yes			
184	Apiaceae	<i>Heracleum lanatum</i>	cowparsnip	Native	None	Yes			
185	Apiaceae	<i>Heracleum maximum</i>	cowparsnip	Native	None	Yes			
186	Asteraceae	<i>Hesperevax sparsiflora var. sparsiflora</i>	erect/few-flowered evax	Native	None	Yes			
187	Linaceae	<i>Hesperolinon micranthum</i>	small flower western flax	Native	None				
188	Rosaceae	<i>Heteromeles arbutifolia</i>	toyon	Native	None	Yes			
189	Asteraceae	<i>Heterotheca sessiliflora ssp. bolanderi</i>	bolander's goldenaster	Native	None	Yes			
190	Saxifragaceae	<i>Heuchera micrantha</i>	crevice alumroot	Native	None	Yes			
191	Asteraceae	<i>Hieracium albiflorum</i>	white-flowered hawkweed	Native	None	Yes			
192	Poaceae	<i>Hierochloa occidentalis</i>	California vanilla grass	Native	None	Yes			
193	Brassicaceae	<i>Hirschfeldia incana</i>	mustard	Invasive	None	Yes			
194	Poaceae	<i>Holcus lanatus</i>	common velvet grass	Invasive	None	Yes			
195	Rosaceae	<i>Holodiscus discolor</i>	oceanspray	Native	None	Yes			
196	Poaceae	<i>Hordeum brachyantherum</i>	meadow barley	Native	None	Yes			
197	Poaceae	<i>Hordeum marinum ssp. gussoneanum</i>	mediterranean barley	Non-Native	None	Yes			
198	Poaceae	<i>Hordeum murinum ssp. leporinum</i>	farmer's/mouse barley/foxtail	Non-Native	None	Yes			
199	Rosaceae	<i>Horkelia californica var. elata</i>	California woodland horkelia	Native	None	Yes			
200	Asteraceae	<i>Hypochaeris glabra</i>	smooth cat's-ear	Invasive	None	Yes			
201	Asteraceae	<i>Hypochaeris radicata</i>	rough/hairy cat's-ear	Invasive	None	Yes			
202	Iridaceae	<i>Iris douglasiana</i>	Douglas' iris	Native	None	Yes			
203	Iridaceae	<i>Iris macrosiphon</i>	ground/bowtube iris	Native	None	Yes			iNaturalist
204	Juncaceae	<i>Juncus bufonius var. bufonius</i>	toad rush	Native	None	Yes			
205	Juncaceae	<i>Juncus effusus var. pacificus</i>	Pacific common/bog rush	Native	None	Yes			
206	Juncaceae	<i>Juncus patens</i>	spreading/common rush	Native	None	Yes			
207	Juncaceae	<i>Juncus occidentalis</i>	western grass-leaved rush	Native	None	Yes			
208	Juncaceae	<i>Juncus xiphioides</i>	iris-leaved rush	Native	None	Yes			
209	Poaceae	<i>Koeleria macrantha</i>	june/prarie grass	Native	None	Yes			

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210	Asteraceae	<i>Lactuca saligna</i>	willow lettuce	Non-Native	None				
211	Asteraceae	<i>Lactuca serriola</i>	wild bristly lettuce	Invasive	None	Yes			
212	Fabaceae	<i>Lathyrus angulatus</i>	angled pea vine	Non-Native	None	Yes			
213	Fabaceae	<i>Lathyrus jepsonii</i>	Jepson's pead	Native	None	Yes			
214	Fabaceae	<i>Lathyrus latifolius</i>	sweet pea	Non-Native	None	Yes			
215	Fabaceae	<i>Lathyrus torreyi</i>	hillside pea	Native	None	Yes			
216	Fabaceae	<i>Lathyrus tingitanus</i>	Tangier Pea	Non-Native	None				
217	Fabaceae	<i>Lathyrus vestitus</i> var. <i>vestitus</i>	hillside/common Pacific pea	Native	None	Yes			
218	Asteraceae	<i>Layia gaillardiodies</i>	yellow woodland layia	Native	None	Yes			
219	Lamiaceae	<i>Lepechinia calycina</i>	pircher sage	Native	None	Yes			
220	Polemoniaceae	<i>Leptosiphon acicularis</i>	bristly linanthus	Native	CNPS 4.2	Not Confirmed		Wilma Follette CNPS 1986 & 1994	
221	Polemoniaceae	<i>Leptosiphon androsaceus</i>	common/showy linanthus	Native		Yes			
222	Asteraceae	<i>Lessingia hololeuca</i>	woolly pink lessingia	Native	CNPS 3	Not Confirmed		Wilma Follette CNPS 1986 & 1994	
223	Asteraceae	<i>Lessingia micradenia</i> var. <i>micradenia</i>	Tamalpais lessingia	Native	CNPS 1B.2	No			
224	Linaceae	<i>Linum bienne</i>	narrow-leaved/small-flowered/pale flax	Non-Native	None	Yes			
225	Fagaceae	<i>Lithocarpus densiflorus</i> var. <i>densiflorus</i>	tan oak	Native	None	Yes			
226	Saxifragaceae	<i>Lithophragma affine</i>	woodland/common star	Native	None	Yes			iNaturalist
227	Saxifragaceae	<i>Lithophragma heterophyllum</i>	hillside star	Native	None	Yes			
228	Asteraceae	<i>Logfia gallica</i>	narrow-leaved filago/cottonrose	Invasive	None	Yes			
229	Poaceae	<i>Lolium multiflorum</i>	Italian ryegrass	Invasive	None	Yes			
230	Poaceae	<i>Lolium perenne</i>	perennial ryegrass	Invasive	None	Yes			
231	Apiaceae	<i>Lomatium californicum</i>	tall hog fennel	Native	None	Yes			
232	Apiaceae	<i>Lomatium dasycarpum</i> ssp. <i>dasycarpum</i>	hairy-petal hog fennel	Native	None	Yes			
233	Apiaceae	<i>Lomatium utriculatum</i>	spring gold parsley	Native	None	Yes			
234	Caprifoliaceae	<i>Lonicera hispidula</i> var. <i>vacillans</i>	California/hairy honeysuckle	Native	None	Yes			
235	Fabaceae	<i>Lotus humistratus</i>	short-podded/hill trefoil/lotus	Native	None	Yes			
236	Fabaceae	<i>Lotus micranthus</i>	small-flowered/hill trefoil/lotus	Native	None	Yes			
237	Fabaceae	<i>Lotus purshianus</i> var. <i>purshianus</i>	Spanish lotus/clover	Native	None	Yes			
238	Fabaceae	<i>Lotus wrangelianus</i>	Chile trefoil/lotus	Native	None	Yes			
239	Fabaceae	<i>Lupinus albifrons</i> var. <i>collinus</i>	silver/hilly bush lupine	Native	None	Yes			
240	Fabaceae	<i>Lupinus bicolor</i>	annual/bicolored/miniature lupine	Native	None	Yes			
241	Fabaceae	<i>Lupinus formosus</i> var. <i>formosus</i>	summer/western lupine	Native	None	Yes			
242	Fabaceae	<i>Lupinus microcarpus</i> var. <i>densiflorus</i>	chick lupine	Native	None	Yes			
243	Fabaceae	<i>Lupinus nanus</i>	sky lupine	Native	None	Yes			iNaturalist
244	Juncaceae	<i>Luzula comosa</i>	common/pacific/hairy wood rush	Native	None	Yes			
245	Myrsinaceae	<i>Lysimachia arvensis</i>	scarlet pimpernel	Non-Native	None	Yes			
246	Primulaceae	<i>Lysimachia latifolia</i>	Western star flower	Native	None	Yes			
247	Lythraceae	<i>Lythrum hyssopifolia</i>	hyssop loosestrife	Invasive	None	Yes			
248	Asteraceae	<i>Madia elegans</i>	common madia/tarweed	Native	None	Yes			
249	Asteraceae	<i>Madia exigua</i>	threadstem/small madia/tarweed	Native	None	Yes			
250	Asteraceae	<i>Madia gracilis</i>	gumweed/slender madia/tarweed	Native	None	Yes			
251	Asteraceae	<i>Madia sativa</i>	sticky ill-scented madia/tarweed	Native	None	Yes			
252	Ruscaceae	<i>Maianthemum racemosum</i>	false Solomon's seal	Native	None	Yes			iNaturalist
253	Ruscaceae	<i>Maianthemum stellatum</i>	star-flowered lily-of-the-valley	Native	None	Yes			



	A	B	C	D	E	F	G	H	I
254	Cucurbitaceae	<i>Marah fabacea</i>	California man-root	Native	None	Yes			
255	Cucurbitaceae	<i>Marah oregana</i>	coast man-root	Native	None	Yes			
256	Asteraceae	<i>Matricaria discoidea</i>	Pineapple weed	Native	None	Yes			
257	Fabaceae	<i>Medicago polymorpha</i>	California burclover	Invasive	None	Yes			
258	Poaceae	<i>Melica californica</i>	California melic	Native	None	Yes			
259	Poaceae	<i>Melica torreyana</i>	Torrey's melic	Native	None	Yes			
260	Fabaceae	<i>Melilotus indicus</i>	annual yellow sweetclover	Non-Native	None				
261	Lamiaceae	<i>Melissa officinalis</i>	lemon balm	Invasive	None	Yes			
262	Lamiaceae	<i>Mentha pulegium</i>	pennyroyal	Invasive	None	Yes			
263	Saxifragaceae	<i>Micranthes californica</i>	California saxifrage	Native	None	Yes			
264	Asteraceae	<i>Micropus californicus</i> var. <i>californicus</i>	slender/hairy Cottonweed	Native	None	Yes			
265	Asteraceae	<i>Microseris douglasii</i> ssp. <i>douglasii</i>	Douglas's microseris	Native	None	Yes			
266	Phrymaceae	<i>Mimulus aurantiacus</i>	sticky/bush/island monkeyflower	Native	None	Yes			iNaturalist
267	Phrymaceae	<i>Mimulus congdonii</i>	Congdon's monkeyflower	Native	None				
268	Phrymaceae	<i>Mimulus guttatus</i>	large/yellow/seep monkeyflower	Native	None	Yes			
269	Caryophyllaceae	<i>Minuartia douglasii</i>	Douglas' sandwort	Native	None				
270	Lamiaceae	<i>Monardella purpurea</i>	Siskiyou monardella	Native	None	Yes			
271	Lamiaceae	<i>Monardella villosa</i>	coyote-mint	Native	None	Yes			
272	Lamiaceae	<i>Monardella villosa</i> ssp. <i>villosa</i>	coyote-mint	Native	None	Yes			
273	Portulacaceae	<i>Montia fontana</i>	water chickweed	Native	None	Yes			
274	Boraginaceae	<i>Myosotis latifolia</i>	forget-me not	Invasive	None	Yes			
275	Poaceae	<i>Nassella lepida</i>	foothill needlegrass	Native	None	Yes			
276	Poaceae	<i>Nassella pulchra</i>	purple needlegrass	Native	None	Yes			
277	Brassicaceae	<i>Nasturtium officinale</i>	water cress	Native	None	Yes			
278	Polemoniaceae	<i>Navarretia heterodoxa</i>	Calistoga navarretia	Native	None				
279	Polemoniaceae	<i>Navarretia squarrosa</i>	skunkweed	Native	None	Yes			
280	Hydrophyllaceae	<i>Nemophila heterophylla</i>	canyon/white/variable-leaved nemophila	Native	None	Yes			
281	Hydrophyllaceae	<i>Nemophila menziesii</i> var. <i>menziesii</i>	baby blue-eyes	Native	None	Yes			
282	Hydrophyllaceae	<i>Nemophila parviflora</i> var. <i>parviflora</i>	woodland nemophila	Native	None	Yes			
283	Fagaceae	<i>Notholithocarpus densiflorus</i> var. <i>densiflorus</i>	tanbark oak	Native	None	Yes			
284	Apiaceae	<i>Oenanthe sarmentosa</i>	water parsley	Native	None	Yes			
285	Apiaceae	<i>Osmorhiza berteroi</i>	wood sweet cicely	Native	None	Yes			iNaturalist
286	Oxalidaceae	<i>Oxalis pes-caprae</i>	Bermuda buttercup	Invasive	None	Yes			
287	Oxalidaceae	<i>Oxalis oregana</i>	redwood-sorrel	Native	None	Yes			
288	Scrophulariaceae	<i>Parentucellia latifolia</i>	broadleaf glandweed	Invasive	None	Yes			iNaturalist
289	Orobanchaceae	<i>Pedicularis densiflora</i>	Indian warrior	Native	None	Yes			
290	Pteridaceae	<i>Pellaea andromedifolia</i>	coffee fern	Native	None	Yes			
291	Pteridaceae	<i>Pellaea mucronata</i> var. <i>muronata</i>	bird's foot fern	Native	None	Yes			
292	Pteridaceae	<i>Pentagramma triangularis</i>	gold-back fern	Native	None	Yes			
293	Apiaceae	<i>Perideridia kelloggii</i>	Kellogg's yampah	Native	None	Yes			
294	Hydrophyllaceae	<i>Phacelia distans</i>	common phacelia	Native	None	Yes			
295	Hydrophyllaceae	<i>Phacelia imbricata</i> ssp. <i>imbricata</i>	imbricate phacelia	Native	None	Yes			
296	Poaceae	<i>Phalaris aquatica</i>	Harding grass	Invasive	None	Yes			
297	Asteraceae	<i>Picris echioides</i>	bristly ox-tongue	Invasive	None	Yes			

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298	Pinaceae	<i>Pinus radiata</i>	Monterey pine	Invasive	None	Yes			
299	Orchidaceae	<i>Piperia elongata</i>	long-spur rein orchid	Native	None	Yes			
300	Orchidaceae	<i>Piperia transversa</i>	transverse-spur rein orchid	Native	None	Yes			
301	Boraginaceae	<i>Plagiobothrys nothofulvus</i>	popcornflower	Native	None	Yes			
302	Plantaginaceae	<i>Plantago erecta</i>	California plantain	Native	None	Yes			
303	Plantaginaceae	<i>Plantago lanceolata</i>	English plantain	Invasive	None	Yes			
304	Papaveraceae	<i>Platystemon californicus</i>	cream cups	Native	None	Yes			
305	Valerianaceae	<i>Plectritis macrocera</i>	white/long-horn plectritis	Native	None	Yes			
306	Poaceae	<i>Poa annua</i>	annual bluegrass	Invasive	None	Yes			
307	Poaceae	<i>Poa secunda</i> ssp. <i>secunda</i>	one-sided bluegrass	Native	None	Yes			
308	Caryophyllaceae	<i>Polycarpon tetraphyllum</i>	allseed	Invasive	None	Yes			
309	Polygalaceae	<i>Polygala californica</i>	California milkwort	Native	None	Yes			
310	Polygonaceae	<i>Polygonum aviculare</i>	knotweed	Invasive	None	Yes			
311	Polypodiaceae	<i>Polypodium calirhiza</i>	California polypody fern	Native	None	Yes			
312	Poaceae	<i>Polypogon monspeliensis</i>	annual/rabbitfoot beard grass	Invasive	None	Yes			
313	Dryopteridaceae	<i>Polystichum munitum</i>	western sword fern	Native	None	Yes			iNaturalist
314	Rosaceae	<i>Potentilla glandulosa</i> ssp. <i>glandulosa</i>	sticky cinquefoil	Native	None	Yes			
315	Liliaceae	<i>Prosartes hookeri</i>	Hooker's fairy bell	Native	None	Yes			
316	Primulaceae	<i>Primula hendersonii</i>	Henderson's shooting star	Native	None	Yes			
317	Asteraceae	<i>Pseudognaphalium californicum</i>	California everlasting	Native	None	Yes			
318	Asteraceae	<i>Pseudognaphalium luteoalbum</i>	weedy cudweed	Invasive	None	Yes			
319	Pinaceae	<i>Pseudotsuga menziesii</i>	douglas fir	Native	None	Yes			
320	Pinaceae	<i>Pseudotsuga menziesii</i> var. <i>menziesii</i>	douglas fir	Native	None	Yes			
321	Asteraceae	<i>Psilocarphus tenellus</i> var. <i>tenellus</i>	slender woolly-heads/marbles	Native	None	Yes			
322	Dennstaedtiaceae	<i>Pteridium aquilinum</i> var. <i>pubescens</i>	bracken fern	Native	None	Yes			iNaturalist
323	Fagaceae	<i>Quercus agrifolia</i>	coast live oak	Native	None	Yes			iNaturalist
324	Fagaceae	<i>Quercus agrifolia</i> var. <i>agrifolia</i>	coast live oak	Native	None	Yes			
325	Fagaceae	<i>Quercus garryana</i> var. <i>garryana</i>	Oregon oak	Native	None	Yes			
326	Fagaceae	<i>Quercus kelloggii</i>	California black oak	Native	None	Yes			
327	Fagaceae	<i>Quercus lobata</i>	valley oak	Native	None	Yes			
328	Fagaceae	<i>Quercus wislizeni</i> var. <i>frutescens</i>	interior live oak	Native	None	Yes			
329	Fagaceae	<i>Quercus x chasei</i>	black live hybrid oak	Native	None	Yes			
330	Ranunculaceae	<i>Ranunculus californicus</i> var. <i>californicus</i>	California buttercup	Native	None	Yes			
331	Ranunculaceae	<i>Ranunculus californicus</i> var. <i>cuneatus</i>	Common buttercup	Native	None	Yes			
332	Ranunculaceae	<i>Ranunculus muricatus</i>	picklefruit buttercup	Invasive	None	Yes			
333	Ranunculaceae	<i>Ranunculus orthorhynchus</i> var. <i>bloomeri</i>	big marsh buttercup	Native	None	Yes			
334	Brassicaceae	<i>Raphanus raphanistrum</i>	jointed charlock	Non-Native	None	Yes			
335	Rhamnaceae	<i>Rhamnus californica</i> ssp. <i>californica</i>	California coffeeberry	Native	None	Yes			
336	Grossulariaceae	<i>Ribes californicum</i> var. <i>californicum</i>	hillside gooseberry	Native	None	Yes			
337	Grossulariaceae	<i>Ribes menziesii</i>	canyon gooseberry	Native	None	Yes			

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338	Rosaceae	<i>Rosa californica</i>	California rose	Native	None	Yes			iNaturalist
339	Rosaceae	<i>Rosa gymnocarpa</i> var. <i>gymnocarpa</i>	woodland rose	Native	None	Yes			iNaturalist
340	Rosaceae	<i>Rosa spithamea</i>	Sonoma rose	Native	None	Yes			
341	Rosaceae	<i>Rubus armeniacus</i>	Himalayan blackberry	Invasive	None	Yes			
342	Rosaceae	<i>Rubus laciniatus</i>	cut-leaf blackberry	Invasive	None	Yes			
343	Rosaceae	<i>Rubus parviflorus</i>	western thimbleberry	Native	None	Yes			iNaturalist
344	Rosaceae	<i>Rubus ursinus</i>	California blackberry	Native	None	Yes			iNaturalist
345	Polygonaceae	<i>Rumex acetosella</i>	common sheep sorrel	Invasive	None	Yes			
346	Polygonaceae	<i>Rumex conglomeratus</i>	branching dock	Invasive	None	Yes			
347	Polygonaceae	<i>Rumex crispus</i>	curly dock	Invasive	None	Yes			
348	Polygonaceae	<i>Rumex pulcher</i>	fiddle dock	Non-Native	None	Yes			
349	Polygonaceae	<i>Rumex salicifolius</i>	willow-leaved dock	Native	None	Yes			
350	Fabaceae	<i>Rupertia physodes</i>	California tea	Native	None	Yes			
351	Salicaceae	<i>Salix lasiolepis</i>	arroyo willow	Native	None	Yes			
352	Caprifoliaceae	<i>Sambucus mexicana</i>	blue elderberry	Native	None	Yes			
353	Caprifoliaceae	<i>Sambucus nigra</i> ssp. <i>caerulea</i>	blue elderberry	Native	None	Yes			
354	Apiaceae	<i>Sanicula bipinnatifida</i>	purple sanicle	Native	None	Yes			iNaturalist
355	Apiaceae	<i>Sanicula crassicaulis</i>	Pacific/snake-root sanicle	Native	None	Yes			iNaturalist
356	Apiaceae	<i>Sanicula laciniata</i>	coast sanicle	Native	None	Yes			
357	Lamiaceae	<i>Satureja douglasii</i>	yerba buena	Native	None	Yes			
358	Saxifragaceae	<i>Saxifraga californica</i>	California saxifrage	Native	None	Yes			
359	Caryophyllaceae	<i>Scleranthus annuus</i> ssp. <i>annuus</i>	German knotgrass	Non-Native	None				
360	Liliaceae	<i>Scoliopus bigelovii</i>	fetid adder's tongue	Native	None	Yes			iNaturalist
361	Scrophulariaceae	<i>Scrophularia californica</i> ssp. <i>californica</i>	California bee-plant	Native	None	Yes			
362	Selaginellaceae	<i>Selaginella wallacei</i>	Wallace's spike moss	Native	None	Yes			
363	Asteraceae	<i>Senecio minimus</i>	Australian fireweed	Invasive	None	Yes			
364	Asteraceae	<i>Senecio vulgaris</i>	common groundsel/old man of spring	Invasive	None	Yes			
365	Taxodiaceae	<i>Sequoia sempervirens</i>	coast redwood	Native	None	Yes			iNaturalist
366	Rubiaceae	<i>Sherardia arvensis</i>	blue field madder	Invasive	None	Yes			
367	Malvaceae	<i>Sidalcea malviflora</i> ssp. <i>malviflora</i>	checker mallow	Native	None	Yes			
368	Malvaceae	<i>Sidalcea malviflora</i> ssp. <i>Laciniata</i>	upright checkerbloom	Native	None	Yes			
369	Caryophyllaceae	<i>Silene gallica</i>	windmill pink	Non-Native	None	Yes			
370	Asteraceae	<i>Silybum marianum</i>	milk thistle	Invasive	None	Yes			
371	Iridaceae	<i>Sisyrinchium bellum</i>	blue-eyed grass	Native	None	Yes			
372	Liliaceae	<i>Smilacina racemosa</i>	false/fat/branched Solomon's seal	Native	None	Yes			
373	Liliaceae	<i>Smilacina stellata</i>	false/slim Solomon's seal	Native	None	Yes			
374	Solanaceae	<i>Solanum americanum</i>	white nightshade	Native	None	Yes			
375	Asteraceae	<i>Solidago velutina</i> ssp. <i>californica</i>	California goldenrodd	Native	None	Yes			
376	Asteraceae	<i>Soliva sessilis</i>	common solvia	Non-Native	None	Yes			
377	Asteraceae	<i>Sonchus asper</i> ssp. <i>asper</i>	prickly sow thistle	Invasive	None	Yes			
378	Asteraceae	<i>Sonchus oleraceus</i>	common sow thistle	Non-Native	None	Yes			
379	Caryophyllaceae	<i>Spergularia rubra</i>	purple sand-sourrey	Non-Native	None	Yes			
380	Lamiaceae	<i>Stachys ajugoides</i> var. <i>rigida</i>	rigid hedge nettle	Native	None	Yes			
381	Lamiaceae	<i>Stachys rigida</i> ar. <i>Quercetorum</i>	woodland hedge nettle	Native	None	Yes			
382	Caryophyllaceae	<i>Stellaria media</i>	common chickweed	Invasive	None	Yes			
383	Caryophyllaceae	<i>Stellaria nitens</i>	shining chickweed	Native	None	Yes			

	A	B	C	D	E	F	G	H	I
384	Poaceae	<i>Stipa lepida</i>	slender needlegrass	Native	None	Yes			
385	Poaceae	<i>Stipa pulchra</i>	purple needlegrass	Native	None	Yes			
386	Brassicaceae	<i>Streptanthus glandulosus</i> ssp. <i>secundus</i>	one sided jewelflower	Native	None				
387	Caprifoliaceae	<i>Symphoricarpos albus</i> var. <i>laevigatus</i>	common/upright snowberry	Native	None	Yes			
388	Asteraceae	<i>Taraxacum officinale</i>	common dandelion	Invasive	None	Yes			
389	Onagraceae	<i>Taraxia ovata</i>	sun cup	Native	None	Yes			iNaturalist
390	Ranunculaceae	<i>Thalictrum fendleri</i> var. <i>polycarpum</i>	Fendler's meadow-rue	Native	None	Yes			
391	Apiaceae	<i>Torilis arvensis</i>	field/spreading hedge parsley	Invasive	None	Yes			
392	Apiaceae	<i>Torilis nodosa</i>	knotted hedge parsley	Non-Native	None	Yes			
393	Anacardiaceae	<i>Toxicodendron diversilobum</i>	western poison oak	Native	None	Yes			
394	Melanthiaceae	<i>Toxicoscordion fontanum</i>	marsh zigadenus	Native	CNPS 4.2	No	Forest Knolls observation		
395	Melanthiaceae	<i>Toxicoscordion fremontii</i>	Fremont's star lily	Native	None	No	South of Sir Francis Drake along E Sylverstris Fire Rd		
396	Asteraceae	<i>Tragopogon porrifolius</i>	salsify	Non-Native	None	Yes			
397	Primulaceae	<i>Trientalis latifolia</i>	Pacific/western star lily	Native	None	Yes			
398	Lamiaceae	<i>Trichostema lanceolatum</i>	blue curls	Native	None	Yes			
399	Fabaceae	<i>Trifolium albopurpureum</i> var. <i>albopurpureum</i>	common Indian clover	Native	None	Yes			
400	Fabaceae	<i>Trifolium bifidum</i> var. <i>bifidum</i>	Pinole clover	Native	None	Yes			
401	Fabaceae	<i>Trifolium depauperatum</i> var. <i>amplectens</i>	fusedbract/pale sack clover	Native	None	Yes			
402	Fabaceae	<i>Trifolium dubium</i>	little hop/shamrock clover	Non-Native	None	Yes			
403	Fabaceae	<i>Trifolium fucatum</i>	blu clover	Native	None				
404	Fabaceae	<i>Trifolium glomeratum</i>	clustered clover	Non-Native	None				
405	Fabaceae	<i>Trifolium hirtum</i>	rose clover	Invasive	None	Yes			
406	Fabaceae	<i>Trifolium incarnatum</i>	crimson clover	Non-Native	None				
407	Fabaceae	<i>Trifolium microcephalum</i>	small-headed/hairy/maiden clover	Native	None	Yes			
408	Fabaceae	<i>Trifolium repens</i>	white clover	Non-Native	None	Yes			
409	Fabaceae	<i>Trifolium subterraneum</i>	subterranean clover	Non-Native	None	Yes			
410	Fabaceae	<i>Trifolium willdenovii</i>	tomcat clover	Native	None	Yes			
411	Liliaceae	<i>Trillium chloropetalum</i>	giant trillium	Native	None	Yes			iNaturalist
412	Liliaceae	<i>Trillium ovatum</i> ssp. <i>ovatum</i>	western/white trillium	Native	None	Yes			iNaturalist
413	Orobanchaceae	<i>Triphysaria pusilla</i>	dwarf/little owl's clover	Native	None	Yes			
414	Liliaceae	<i>Triteleia hyacinthina</i>	white brodiaea	Native	None	Yes			
415	Liliaceae	<i>Triteleia laxa</i>	Ithuriel's spear	Native	None	Yes			
416	Lauraceae	<i>Umbellularia californica</i>	California bay	Native	None	Yes			iNaturalist
417	Asteraceae	<i>Uropappus lindleyi</i>	silver puffs	Native	None	Yes			
418	Urticaceae	<i>Urtica dioica</i> ssp. <i>Gracilis</i>	slender stinging nettle	Native	None	Yes			
419	Verbenaceae	<i>Verbena lasiostachys</i> var. <i>lasiostachys</i>	vervain	Native	None	Yes			

	A	B	C	D	E	F	G	H	I
420	Plantaginaceae	<i>Veronica serpyllifolia</i> ssp. <i>Serpyllifolia</i>	lawn speedwell	Native	None	Yes			
421	Fabaceae	<i>Vicia americana</i> var. <i>americana</i>	American vetch	Invasive	None	Yes			
422	Fabaceae	<i>Vicia sativa</i> ssp. <i>nigra</i>	narrow-leaved vetch	Non-Native	None	Yes			
423	Fabaceae	<i>Vicia villosa</i> ssp. <i>varia</i>	thick-fruited vetch	Invasive	None	Yes			
424	Apocynaceae	<i>Vinca major</i>	vinca	Invasive	None	Yes			
425	Violaceae	<i>Viola adunca</i>	blue violet	Native	None	Yes			
426	Violaceae	<i>Viola glabella</i>	stream violet	Invasive	None	Yes			iNaturalist
427	Poaceae	<i>Vulpia bromoides</i>	European foxtail/six-weeks fescue	Invasive	None	Yes			
428	Poaceae	<i>Vulpia myuros</i> var. <i>myuros</i>	false foxtail/rattail fescue	Invasive	None	Yes			
429	Philadelphaceae	<i>Whipplea modesta</i>	modesty/yerba de selva	Native	None	Yes			
430	Asteraceae	<i>Wyethia angustifolia</i>	narrow-leaved mule ears	Native	None	Yes			iNaturalist
431	Asteraceae	<i>Wyethia glabra</i>	coast range/smooth mule ears	Native	None	Yes			
432		<i>Bryopsida</i> sp.	true moss	Native	None	Yes			
433									
434									
435	<b>INSECTS</b>								
436	Armadillidae	<i>Armadillidium vulgare</i>	common pill-bug	Non-native	None	Yes			iNaturalist
437	Bombyliidae	<i>Bombylius major</i>	greater bee fly	Native	None	Yes			iNaturalist
438	Cercopoidea	<i>Cercopoidea</i> sp.	spittlebug		None	Yes			iNaturalist
439	Acrididae	<i>Chimarocephala</i> sp.	grasshopper sp.		None	Yes			iNaturalist
440	Coccinellidae	<i>Coccinella septempunctata</i>	seven-spotted ladybird	Native	None	Yes			iNaturalist
441	Nymphalidae	<i>Coenonympha tullia</i>	common ringlet	Native	None	Yes			iNaturalist
442	Ixodida	<i>Dermacentor occidentalis</i>	Pacific coast tick	Native	None	Yes			iNaturalist
443	Lycaenidae	<i>Glaucopsyche lygdamus</i>	silvery blue	Native	None	Yes			iNaturalist
444	Lycaenidae	<i>Icaricia acmon</i>	acmon blue	Native	None	Yes			iNaturalist
445	Coenagrionidae	<i>Ischnura cervula</i>	Pacific forktail	Native	None	Yes			iNaturalist
446	Nymphalidae	<i>Junonia coenia</i>	common buckeye	Native	None	Yes			iNaturalist
447	Nymphalidae	<i>Phyciodes mylitta</i>	mylitta crescent	Native	None	Yes			iNaturalist
448	Crambidae	<i>Pyrausta volupialis</i>	volupial pyrausta moth	Native	None	Yes			iNaturalist
449	Noctuidae	<i>Schinia pulchripennis</i>	common flower moth	Native	None	Yes			iNaturalist
450	Stenopelmatidae	<i>Stenopelmatidae</i> sp.	Jerusalem cricket		None	Yes			iNaturalist
451									
452									
453	<b>FUNGI</b>								
454	Parmeliaceae	<i>Usnea</i> sp.	beard lichen		None	Yes			iNaturalist
455	Stereaceae	<i>Stereum hirsutum</i>	false turkey-tail / hairy curtain crust		None	Yes			iNaturalist
456	Cladoniaceae	<i>Cladonia</i> sp.	pixie cup lichen		None	Yes			iNaturalist
457	Fomitopsidaceae	<i>Fomitopsis pinicola</i>	red-banded polypore		None	Yes			iNaturalist
458	Physaraceae	<i>Fuligo septica</i>	dog vomit slime mold		None	Yes			iNaturalist
459	Strophariaceae	<i>Hypholoma fasciculare</i>	sulphur tuft		None	Yes			iNaturalist
460		<i>Letharia</i> sp.	wolf lichens		None	Yes			iNaturalist
461	Mycenaceae	<i>Mycena</i> sp.	bonnets		None	Yes			iNaturalist
462	Parmeliaceae	<i>Parmelia</i> sp.	shield lichens		None	Yes			iNaturalist
463	Physciaceae	<i>Physcia</i> sp.	rosette lichens		None	Yes			iNaturalist
464	Tremellaceae	<i>Tremella mesenterica</i>	witch's butter		None	Yes			iNaturalist
465	Teloschistales	<i>Xanthoria</i> sp.	sunburst lichens		None	Yes			iNaturalist
466									

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467	<b>MAMMALS</b>								
468	<i>Canidae</i>	<i>Canis latrans</i>	coyote	Native	None	Yes			WPI
469	<i>Didelphidae</i>	<i>Didelphis virginiana</i>	opossum	Native	None	Yes			WPI
470	<i>Felidae</i>	<i>Felis catus</i>	domestic cat	Invasive	None	Yes			WPI
471	<i>Felidae</i>	<i>Lynx rufus</i>	bobcat	Native	None	Yes			WPI
472	<i>Mephitidae</i>	<i>Mephitis mephitis</i>	striped skunk	Native	None	Yes			WPI
473	<i>Cricetidae</i>	<i>Neotoma fuscipes</i>	dusky-footed woodrat	Native	None	Yes		primary NSO prey	WPI
474	<i>Cervidae</i>	<i>Odocoileus hemionus</i>	California mule deer	Native	None	Yes			WPI
475	<i>Procyonid</i>	<i>Procyon lotor</i>	raccoon	Native	None	Yes			WPI
476	<i>Sciuridae</i>	<i>Sciurus griseus</i>	western gray squirrel	Native	None	Yes			WPI
477	<i>Leporidae</i>	<i>Sylvilagus bachmani</i>	brush rabbit	Native	None	Yes			WPI
478	<i>Leporidae</i>	<i>Lepus californicus</i>	black tailed hare	Native	None	Yes			WPI
479	<i>Mustelidae</i>	<i>Taxidea taxus</i>	American badger	Native	SSC	Yes			WPI
480	<i>Canidae</i>	<i>Urocyon cinereoargenteus</i>	gray fox	Native	None	Yes			WPI
481	<i>Mustelidae</i>	<i>Pekania pennanti</i>	fisher	Native	None	NO			
482	<i>Mustelidae</i>	<i>Martes americana</i>	American marten	Native	None	NO			
483	<i>Mustelidae</i>	<i>Mustela erminea</i>	stoat	Native	None	NO			
484	<i>Mustelidae</i>	<i>Mustela frenata</i>	long-tailed weasel	Native	None	NO			
485	<i>Procyonidae</i>	<i>Bassariscus astutus</i>	ringtail	Native	None	NO			
486	<i>Ursidae</i>	<i>Ursus americanus</i>	black bear	Native	None	NO			
487	<i>Sciuridae</i>	<i>Glaucomys sabrinus</i>	northern flying squirrel	Native	None	NO			
488	<i>Vespertilionidae</i>	<i>Myotis evotis</i>	long-eared myotis	Native	G5 S3	NO			
489	<i>Vespertilionidae</i>	<i>Myotis lucifugus</i>	little brown bat	Native	None	NO			
490	<i>Vespertilionidae</i>	<i>Myotis thysanodes</i>	fringed myotis	Native	None	NO			
491	<i>Vespertilionidae</i>	<i>Eptesicus fuscus</i>	big brown bat	Native	None	NO			
492	<i>Vespertilionidae</i>	<i>Myotis californicus</i>	California myotis	Native	None	NO			
493	<i>Vespertilionidae</i>	<i>Myotis volans</i>	long-legged myotis	Native	None	NO			
494	<i>Soricidae</i>	<i>Sorex trowbridgii</i>	Trowbridge's shrew	Native	None	NO		barred owl and pacific giant salamander prey	
495	<i>Soricidae</i>	<i>Sorex sonomae</i>	fog shrew	Native	None	NO			
496	<i>Talpidae</i>	<i>Neurotrichus gibbsii</i>	American shrew mole	Native	None	NO			
497	<i>Sciuridae</i>	<i>Tamias ochrogenys</i>	redwood chipmunk	Native	None	NO			
498	<i>Cricetidae</i>	<i>Peromyscus maniculatus</i>	deer mouse	Native	None	NO			
499	<i>Cricetidae</i>	<i>Clethrionomys californicus</i>	western red-backed vole	Native	None	NO			
500	<i>Cricetidae</i>	<i>Arborimus pomo</i>	Sonoma vole	Native	None	NO			
501	<i>Sciuridae</i>	<i>Tamiasciurus douglasii</i>	Douglas' squirrel	Native	None	NO			
502	<i>Mephitidae</i>	<i>Mephitis gracilis</i>	spotted skunk	Native	None	NO			
503	<i>Sciuridae</i>	<i>Tamias sonomae</i>	Sonoma chipmonk	Native	None	Yes			WPI
504	<i>Vespertilionidae</i>	<i>Antrozous pallidus</i>	pallid bat	Native	G5 S3, SSC	Yes			
505									
506	<b>GASTROPODS</b>								
507	<i>Ariolimacidae</i>	<i>Ariolimax sp.</i>	banana slug	Native		Yes			iNaturalist
508		<i>Helicoidea sp.</i>	helicoed terrestrial snail	Native		Yes			iNaturalist
509									
510	<b>REPTILES</b>								
511	<i>Anguidae</i>	<i>Elgaria</i>	western alligator lizard	Native	None	Yes	No		iNaturalist
512	<i>Scincidae</i>	<i>Plestiodon skiltonianus</i>	western skink	Native	None	Yes	No		iNaturalist
513	<i>Iguanidae</i>	<i>Sceloporus occidentalis</i>	western fence lizard	Native	None	Yes	No		iNaturalist

	A	B	C	D	E	F	G	H	I
514	Iguanidae	<i>Sceloporus occidentalis bocourtii</i>	Coast Range fence lizard	Native	None	Yes			iNaturalist
515	Colubridae	<i>Lampropeltis getula</i>	common king snake	Native	None	Yes	No		iNaturalist
516									
517	<b>AMPHIBIANS</b>								
518	Dicamptodontidae	<i>Dicamptodon ensatus</i>	California giant salamander	Native	G3 S2S3, SSC	Yes	Yes		CA Roadkill Observation
519	Emydidae	<i>Emys marmorata</i>	western pond turtle	Native	G2G4 S3, SSC	Anecdotally	No		
520	Plethodontidae	<i>Batrachoseps attenuatus</i>	California slender salamander	Native	None	Yes	No		iNaturalist
521	Plethodontidae	<i>Ensatina eschscholtzii</i>	ensatina	Native	None	Yes	No		iNaturalist
522									
523	<b>BIRDS</b>								
524	Picidae	<i>Melanerpes formicivorus</i>	acorn woodpecker	Native	None	Yes			eBird
525	Trochilidae	<i>Selasphorus sasin</i>	Allen's hummingbird	Native	None	Yes	Primary Member		eBird
526	Corvidae	<i>Corvus brachyrhynchos</i>	American crow	Native	None	Yes			eBird
527	Fringillidae	<i>Spinus tristis</i>	American goldfinch	Native	None	Yes			eBird
528	Falconidae	<i>Falco sparverius</i>	American kestrel	Native	None	Yes			eBird
529	Turdidae	<i>Turdus migratorius</i>	American robin	Native	None	Yes	Secondary Member		WPI, eBird
530	Trochilidae	<i>Calypte anna</i>	Anna's hummingbird	Native	None	Yes			eBird
531	Tyrannidae	<i>Myiarchus cinerascens</i>	ash-throated flycatcher	Native	None	Yes			eBird
532	Columbidae	<i>Patagioenas fasciata</i>	band-tailed pigeon	Native	None	Yes	Secondary Member		eBird
533	Tytonidae	<i>Tyto alba</i>	barn owl	Native	None	Yes			eBird
534	Hirundinidae	<i>Hirundo rustica</i>	barn swallow	Native	None	Yes			eBird
535	Troglodytidae	<i>Thryomanes bewickii</i>	Bewick's wren	Native	None	Yes			eBird
536	Anatidae	<i>Sayornis nigricans</i>	black phoebe	Native	None	Yes			eBird
537	Certhiidae	<i>Certhia americana</i>	brown creeper	Native	None	Yes	Primary Member		eBird
538	Anatidae	<i>Bucephala albeola</i>	bufflehead	Native	None	Yes			eBird
539	Aegithalidae	<i>Psaltriparus minimus</i>	bushtit	Native	None	Yes			eBird
540	Odontophoridae	<i>Callipepla californica</i>	California quail	Native	None	Yes			WPI, eBird
541			California scrub-jay			Yes			eBird
542	Emberizidae	<i>Melospiza crissalis</i>	California towhee	Native	None	Yes			eBird
543	Anatidae	<i>Branta canadensis</i>	Canada goose	Native	None	Yes			eBird
544	Paridae	<i>Poecile rufescens</i>	chestnut-backed chickadee	Native	None	Yes	Primary Member		eBird
545	Passerellidae	<i>Spizella passerina</i>	chipping sparrow	Native	None	Yes			eBird
546	Hirundinidae	<i>Petrochelidon sp.</i>	cliff swallow	Native	None	Yes			eBird
547	Anatidae	<i>Mergus merganser</i>	common merganser	Native	None	Yes			eBird
548	Corvidae	<i>Corvus corax</i>	common raven	Native	None	Yes			eBird
549	Emberizidae	<i>Junco hyemalis</i>	dark-eyed junco	Native	None	Yes	Primary Member		eBird
550	Phalacrocoracidae	<i>Phalacrocorax auritus</i>	double-crested cormorant	Native	None	Yes			eBird
551	Picidae	<i>Dryobates pubescens</i>	downy woodpecker	Native	None	Yes			eBird
552	Sturnidae	<i>Sturnus vulgaris</i>	European starling	Non-Native	None	Yes			eBird
553	Emberizidae	<i>Passerella iliaca</i>	fox sparrow	Native	None	Yes			eBird

	A	B	C	D	E	F	G	H	I
554	Emberizidae	<i>Regulus satrapa</i>	golden-crowned kinglet	Native	None	Yes	Primary Member		eBird
555	Emberizidae	<i>Zonotrichia atricapilla</i>	golden-crowned sparrow	Native	None	Yes			eBird
556	Ardeidae	<i>Ardea herodias</i>	great blue heron	Native	None	NO	Tertiary Members (N)		
557	Ardeidae	<i>Ardea alba</i>	great egret	Native	None	NO	Tertiary Members (N)		
558	Picidae	<i>Leuconotopicus villosus</i>	hairy woodpecker	Native	None	Yes	Primary Member		eBird
559	Hirundinidae	<i>Catharus guttatus</i>	hermit thrush	Native	None	Yes	Primary Member		eBird
560	Aegithalidae	<i>Setophaga occidentalis</i>	hermit warbler	Native	None	NO	Tertiary Member (N)		
561	Anatidae	<i>Lophodytes cucullatus</i>	hooded merganser	Native	None	Yes			eBird
562	Fringillidae	<i>Haemorhous mexicanus</i>	house finch	Native	None	Yes			eBird
563	Vireonidae	<i>Vireo huttoni</i>	Hutton's vireo	Native	None	Yes			eBird
564	Charadriidae	<i>Charadrius vociferus</i>	killdeer	Native	None	Yes			eBird
565	Fringillidae	<i>Spinus psaltria</i>	lesser goldfinch	Native	None	Yes			eBird
566	Alcidae	<i>Brachyramphus marmoratus</i>	marbled murrelet	Native	G3G4 S1, ST, FT	NO	Yes		
567	Columbidae	<i>Zenaida macroura</i>	mourning dove	Native	None	Yes			eBird
568	Certhiidae	<i>Colaptes auratus</i>	northern flicker	Native	None	Yes			WPI, eBird
569	Strigidae	<i>Aegolius acadicus</i>	northern saw-whet owl	Native	None	Yes	Primary Member		eBird
570	Strigidae	<i>Strix occidentalis caurina</i>	northern spotted owl	Native	G3T3 S2S3, ST, FT	Yes	Primary Member		Point Blue
571	Picidae	<i>Dryobates nuttallii</i>	Nuttall's woodpecker	Native	None	Yes			eBird
572	Paridae	<i>Baeolophus inornatus</i>	oak titmouse	Native	G4 S4	Yes			eBird
573	Tryannidae	<i>Contopus cooperi</i>	olive-sided flycatcher	Native	G4 S4, SSC	Yes	Secondary Member	Special Status Species\32_BSSC_Olive-sided Flycatcher.pdf	eBird
574	Parulidae	<i>Oreothlypis celata</i>	orange-crowned warbler	Native	None	Yes			eBird
575	Accipitridae	<i>Pandion haliaetus</i>	osprey	Native	G5 S4, WL	Yes	Tertiary Member (N)		eBird
576	Troglodytidae	<i>Troglodytes pacificus</i>	pacific wren	Native	None	Yes			eBird
577	Tyrannidae	<i>Empidonax difficilis</i>	Pacific-slope flycatcher	Native	None	Yes	Primary Member		eBird
578	Falconidae	<i>Falco peregrinus</i>	peregrine falcon	Native	G4T4 S3S4, FDR, SDR	NO			
579	Picidae	<i>Dryocopus pileatus</i>	pileated woodpecker	Native	None	Yes	Primary Member		eBird
580	Fringillidae	<i>Spinus pinus</i>	pine siskin	Native	None	Yes	Primary Member		eBird
581	Fringillidae	<i>Haemorhous purpureus</i>	purple finch	Native	None	Yes	Primary Member		eBird
582	Sittidae	<i>Sitta pygmaea</i>	pygmy nuthatch	Native	None	Yes	Tertiary Members (N)		eBird
583	Fringillidae	<i>Loxia curvirostra</i>	red crossbill	Native	None	NO	Tertiary Members (N)		



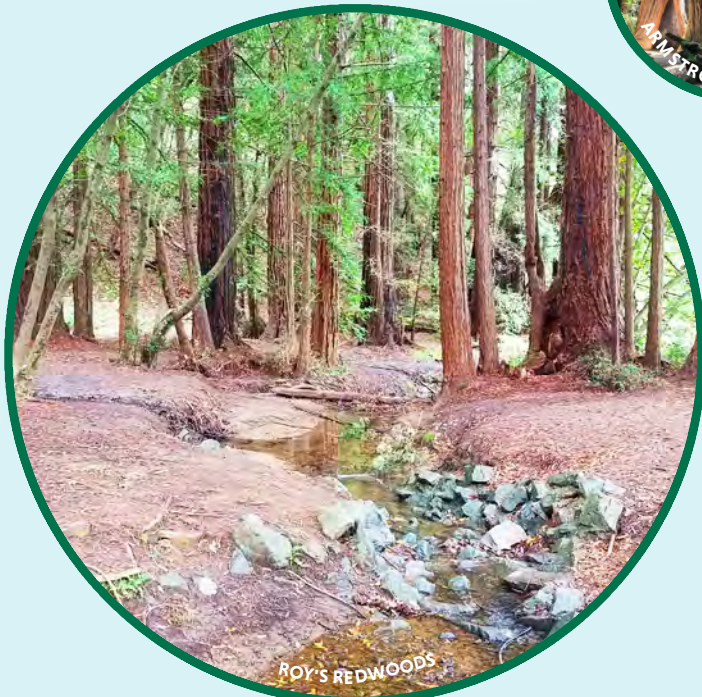
	A	B	C	D	E	F	G	H	I
584	<i>Sittidae</i>	<i>Sitta canadensis</i>	red-breasted nuthatch	Native	None	NO	Primary Member		
585	<i>Accipitridae</i>	<i>Buteo lineatus</i>	red-shouldered hawk	Native	None	Yes			eBird
586	<i>Accipitridae</i>	<i>Buteo jamaicensis</i>	red-tailed hawk	Native	None	Yes			eBird
587	<i>Icteridae</i>	<i>Agelaius phoeniceus</i>	red-winged blackbird			Yes			eBird
588	<i>Regulidae</i>	<i>Regulus calendula</i>	ruby-crowned kinglet	Native	None	Yes			eBird
589	<i>Emberizidae</i>	<i>Passerculus sandwichensis</i>	savannah sparrow	Native	None	Yes			eBird
590	<i>Accipitridae</i>	<i>Accipiter striatus</i>	sharp-shinned hawk	Native	G5 S3, WL	NO	Tertiary Member (N)		
591	<i>Ardeidae</i>	<i>Egretta thula</i>	snowy egret	Native	None	NO	Tertiary Members (N)		
592	<i>Emberizidae</i>	<i>Melospiza melodia</i>	song sparrow	Native	None	Yes			eBird
593	<i>Emberizidae</i>	<i>Pipilo maculatus</i>	spotted towhee	Native	None	Yes			eBird
594	<i>Corvidae</i>	<i>Cyanocitta stelleri</i>	Steller's jay	Native	None	Yes	Primary Member		eBird
595	<i>Hirundinidae</i>	<i>Catharus ustulatus</i>	Swainson's thrush	Native	None	Yes			eBird
596	<i>Parulidae</i>	<i>Setophaga townsendi</i>	Townsend's warbler	Native	None	Yes			eBird
597	<i>Hirundinidae</i>	<i>Tachycineta bicolor</i>	tree swallow	Native	None	Yes			eBird
598	<i>Cathartidae</i>	<i>Cathartes aura</i>	turkey vulture	Native	None	Yes	Tertiary Member (N)		WPI, eBird
599	<i>Odotophoridae</i>	<i>Ixoreus naevius</i>	varied thrush	Native	None	Yes			WPI, eBird
600	<i>Apodidae</i>	<i>Chaetura vauxi</i>	Vaux's swift	Native	G5 S2S3, SSC	NO	Secondary Member (N)		
601	<i>Hirundinidae</i>	<i>Tachycineta thalassina</i>	violet-green swallow	Native	None	Yes			eBird
602	<i>Vireonidae</i>	<i>Vireo gilvus</i>	warbling vireo	Native	None	Yes			eBird
603	<i>Pandionidae</i>	<i>Sialia mexicana</i>	western bluebird	Native	None	Yes			eBird
604	<i>Strigidae</i>	<i>Megascops kennicottii</i>	western screech owl	Native	None	Yes			eBird
605	<i>Corvidae</i>	<i>Aphelocoma californica</i>	western scrub jay	Native	None	Yes			WPI
606	<i>Sittidae</i>	<i>Sitta carolinensis</i>	white-breasted nuthatch	Native	None	Yes			eBird
607	<i>Emberizidae</i>	<i>Zonotrichia leucophrys</i>	white-crowned sparrow	Native	None	Yes			eBird
608	<i>Phasianidae</i>	<i>Meleagris gallopavo</i>	wild turkey	Yes/No	None	Yes			WPI
609	<i>Parulidae</i>	<i>Cardellina pusilla</i>	wilson's warbler	Native	None	Yes	Primary Member		eBird
610	<i>Troglodytidae</i>	<i>Troglodytes hiemalis</i>	winter wren	Native	None	NO	Primary Member		
611	<i>Sylviidae</i>	<i>Chamaea fasciata</i>	wrentit	Native	None	Yes			eBird
612	<i>Parulidae</i>	<i>Setophaga coronata</i>	yellow-rumped warbler	Native	None	Yes			eBird
613									
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	A	B	C	D	E	F	G	H	I
624					Special Status Species Key				
625					FE = Federally Listed - Endangered				
626					FT = Federally Listed - Threatened				
627					SE = State Listed - Endangered				
628					ST = State Listed - Threatened				
629					FDR = Federally Delisted - Recovered				
630					SDR = State Delisted - Recovered				
631					SCC = CDFW Species of Special Concern				
632					WL = CDFW Watch List				
633					CNPS 1A = Plants presumed extirpated in California and either rare or extinct elsewhere				
634					CNPS 1B = Plants rare, threatened, or endangered in California and elsewhere				
635					CNPS 2A = Plants presumed extirpated in California but common elsewhere				
636					CNPS 2B = Plants rare, threatened, or endangered in California but more common elsewhere				
637					CNPS 3 = Review List: Plants about which more information is needed				
638					CNPS 4 = Watch List: Plants of limited distribution				
639					CNPS 0.1 = Seriously threatened in California				
640					CNPS 0.2 = Moderately threatened in California				
641					CNPS 0.1 = Not very threatened in California				
642					CNDDDB Special Animals List rankings. G = Global Rank, S = State Rank, T = subspecies T-rank	<a href="https://www.wildlife.ca.gov/Data/CNDDDB/Plants-and-Animals">https://www.wildlife.ca.gov/Data/CNDDDB/Plants-and-Animals</a>			



# MARIN COUNTY & NEARBY REDWOOD GROVES

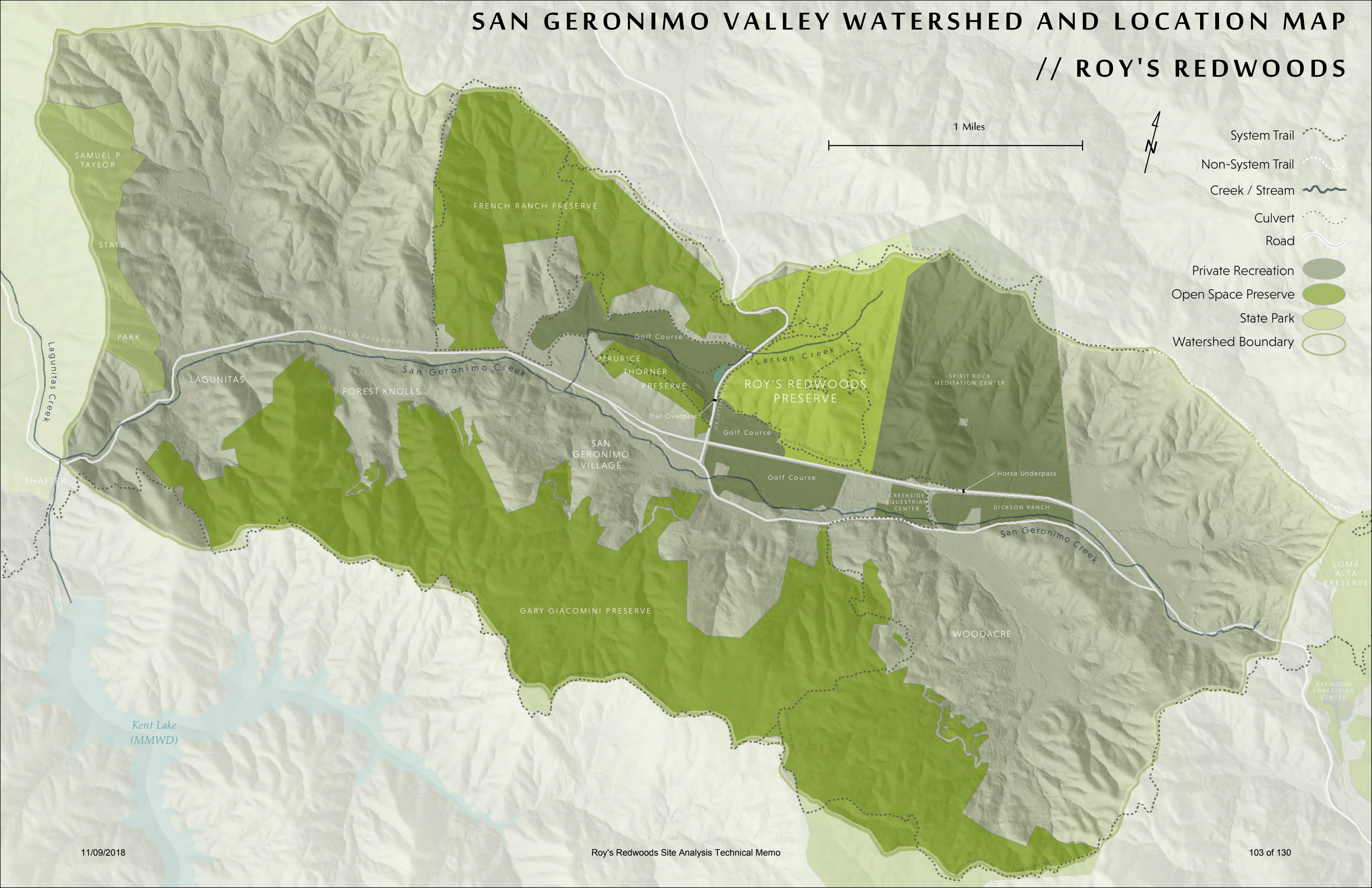
## // ROY'S REDWOODS





# SAN GERONIMO VALLEY WATERSHED AND LOCATION MAP

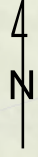
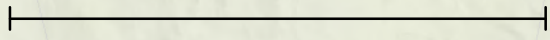
## // ROY'S REDWOODS



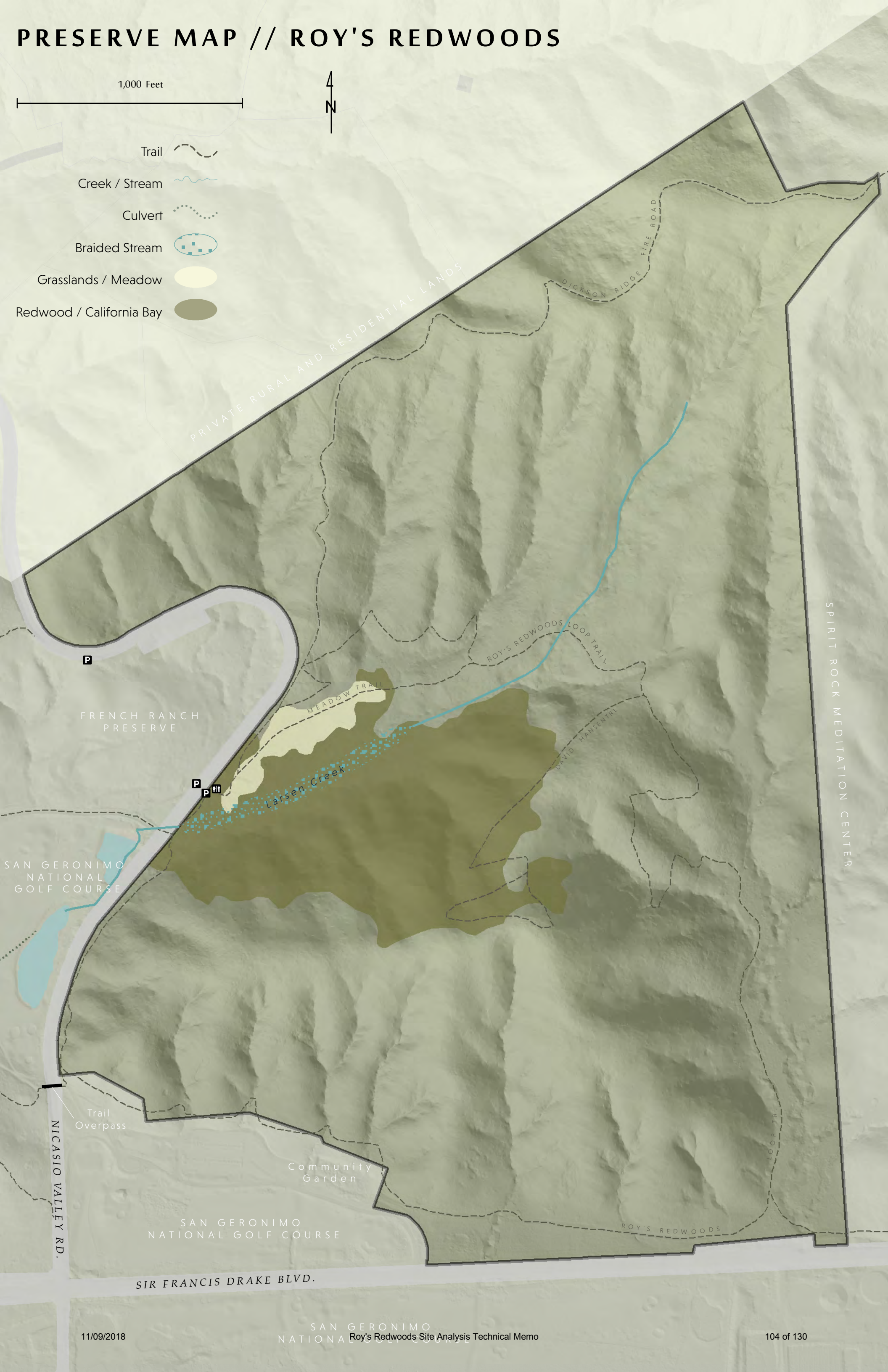


# PRESERVE MAP // ROY'S REDWOODS

1,000 Feet



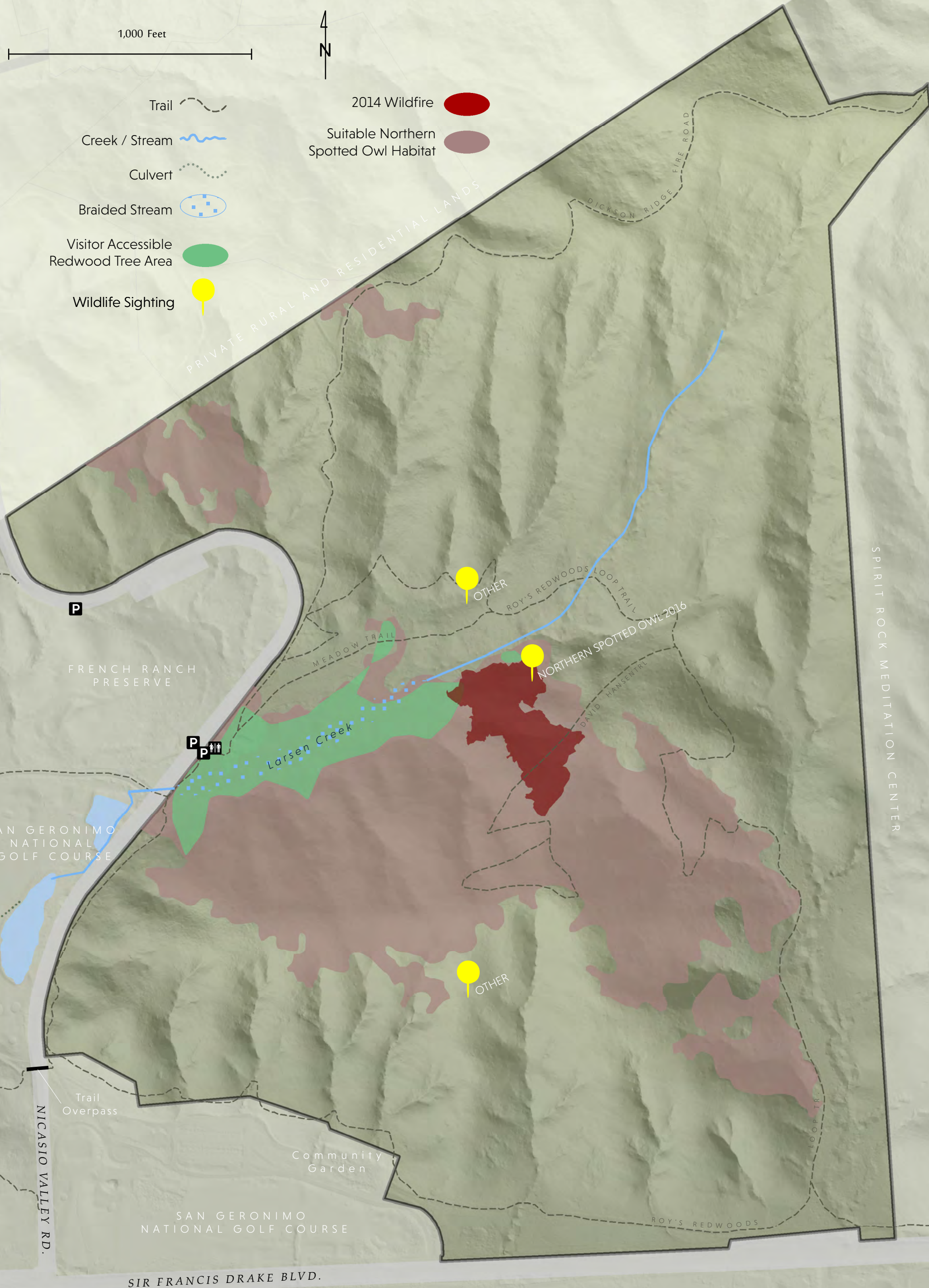
- Trail 
- Creek / Stream 
- Culvert 
- Braided Stream 
- Grasslands / Meadow 
- Redwood / California Bay 





# WILDLIFE SIGHTINGS & POTENTIAL HABITAT

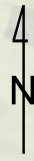
## // ROY'S REDWOODS



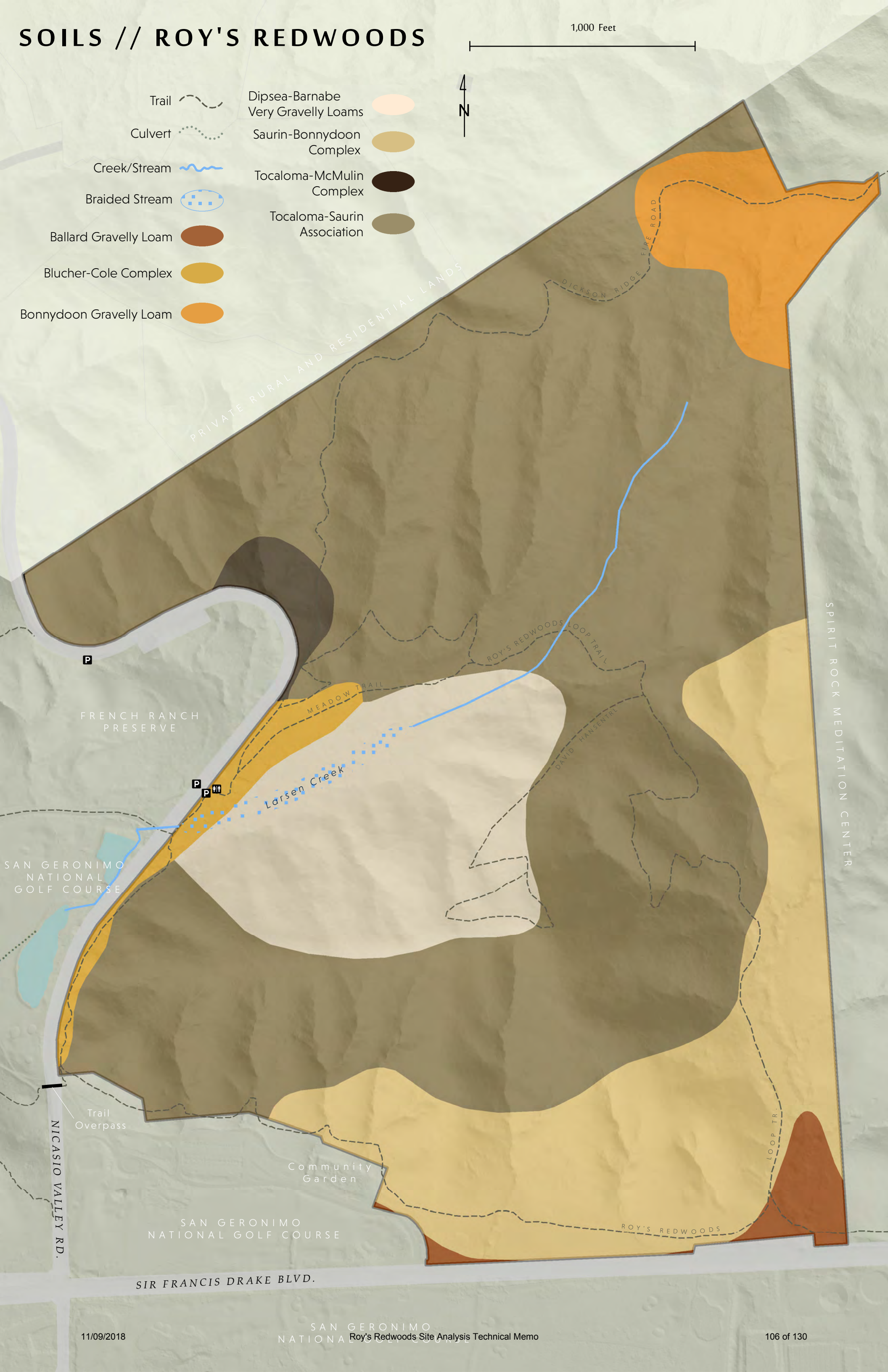


# SOILS // ROY'S REDWOODS

1,000 Feet



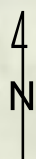
- |                         |  |                                    |  |
|-------------------------|--|------------------------------------|--|
| Trail                   |  | Dipsea-Barnabe Very Gravelly Loams |  |
| Culvert                 |  | Saurin-Bonnydoon Complex           |  |
| Creek/Stream            |  | Tocaloma-McMulin Complex           |  |
| Braided Stream          |  | Tocaloma-Saurin Association        |  |
| Ballard Gravelly Loam   |  |                                    |  |
| Blucher-Cole Complex    |  |                                    |  |
| Bonnydoon Gravelly Loam |  |                                    |  |





# VEGETATION // PRESERVE LEVEL // ROY'S REDWOODS

1,000 Feet



Trail



Creek / Stream



Culvert



Braided Stream



PRIVATE RURAL AND RESIDENTIAL LANDS

DICKSON RIDGE FIRE ROAD

ROY'S REDWOODS LOOP TRAIL

MEADOW TRAIL

DAVID HANSEN TRAIL

SPIRIT ROCK MEDITATION CENTER

FRENCH RANCH PRESERVE

Larsen Creek

SAN GERONIMO NATIONAL GOLF COURSE

Trail Overpass

Community Garden

SAN GERONIMO NATIONAL GOLF COURSE

ROY'S REDWOODS

NICASIO VALLEY RD.

SIR FRANCIS DRAKE BLVD.

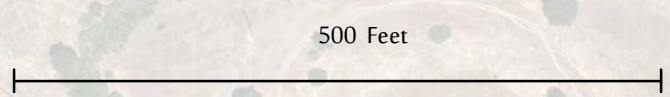
California Annual Grasslands Alliance		Harding Grass		Coast Live Oak		Grasslands on poorly developed soils		Teasal Alliance (Dipsacus)	
Cliffs - Rock Outcrops		(French) Broom Alliance (May include		Coyote Brush / Annual or Perennial		Grasslands on well-developed soils		Temperate Broadleaf Cold Season	
Coast Live Oak - Douglas-fir (A small component of conifer cover [ $<=$ or =		California Bay (pure)		Coyote Brush - California Sagebrush -		Madrone - California Bay - Tanoak		Valley Oak - Coast Live Oak Mapping	
Douglas-fir - Mixed Hardwoods in upland drier settings (Coast Live Oak,		California Bay - Coast Live Oak		Coyote Brush - Mixed Shrub / Grass (May include Poison Oak or California Blackberry with mixture of grass		Mixed Willow Mapping Unit (Arroyo Willow, Red Willow, and Yellow Willow			
Douglas-fir		Chamise ( Stands with a co-dominance of chamise with other shrub species such as Sticky Monkey-flower or		Douglas-fir Mixed Hardwoods in upland forest settings (California Bay,		Redwood / California Bay			
Grasslands with a fern on		Coast Live Oak / (Grass-Poison Oak)		Roy's Redwoods Site Analysis Technical Memo		Redwood - Douglas-fir - (Mixed			
				Douglas-fir - California Bay Mapping Unit (May include Coast Live Oak as an		Seasonally or Temporarily Flooded			

11/09/2018

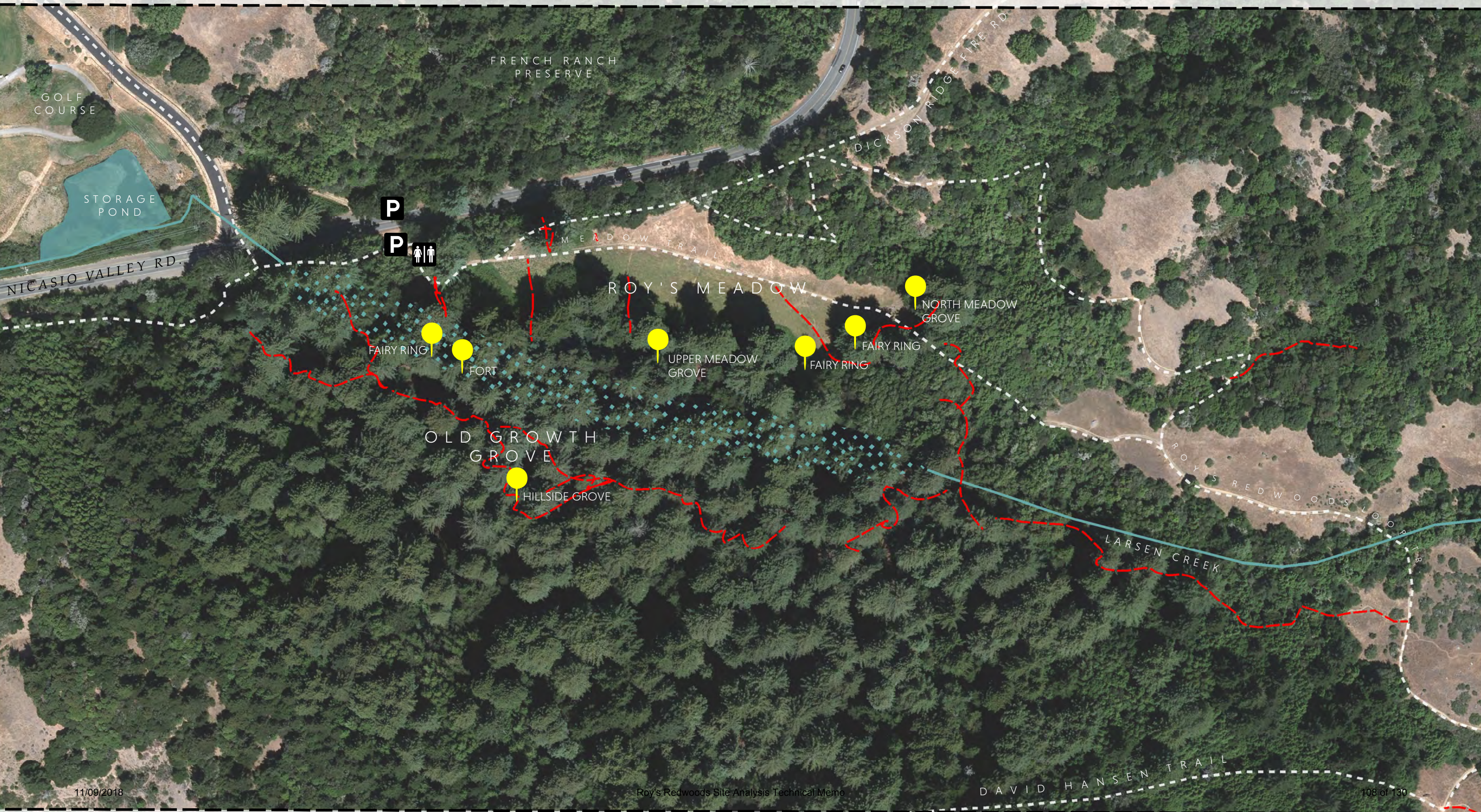
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# AREA OF FOCUS // ROY'S REDWOODS



- Trail
- Creek / Stream
- Point of Interest
- Social Trail
- Braided Stream





# PROJECT AREA VEGETATION // ROY'S REDWOODS



- Trail
- Creek / Stream
- Braided Stream

- Avena spp-Bromus spp
- Cynosurus echinatus-Arrhenatherum elatius/  
Dichelostemma capitatum
- Juncus phaeocephalus

- 
- 
- 

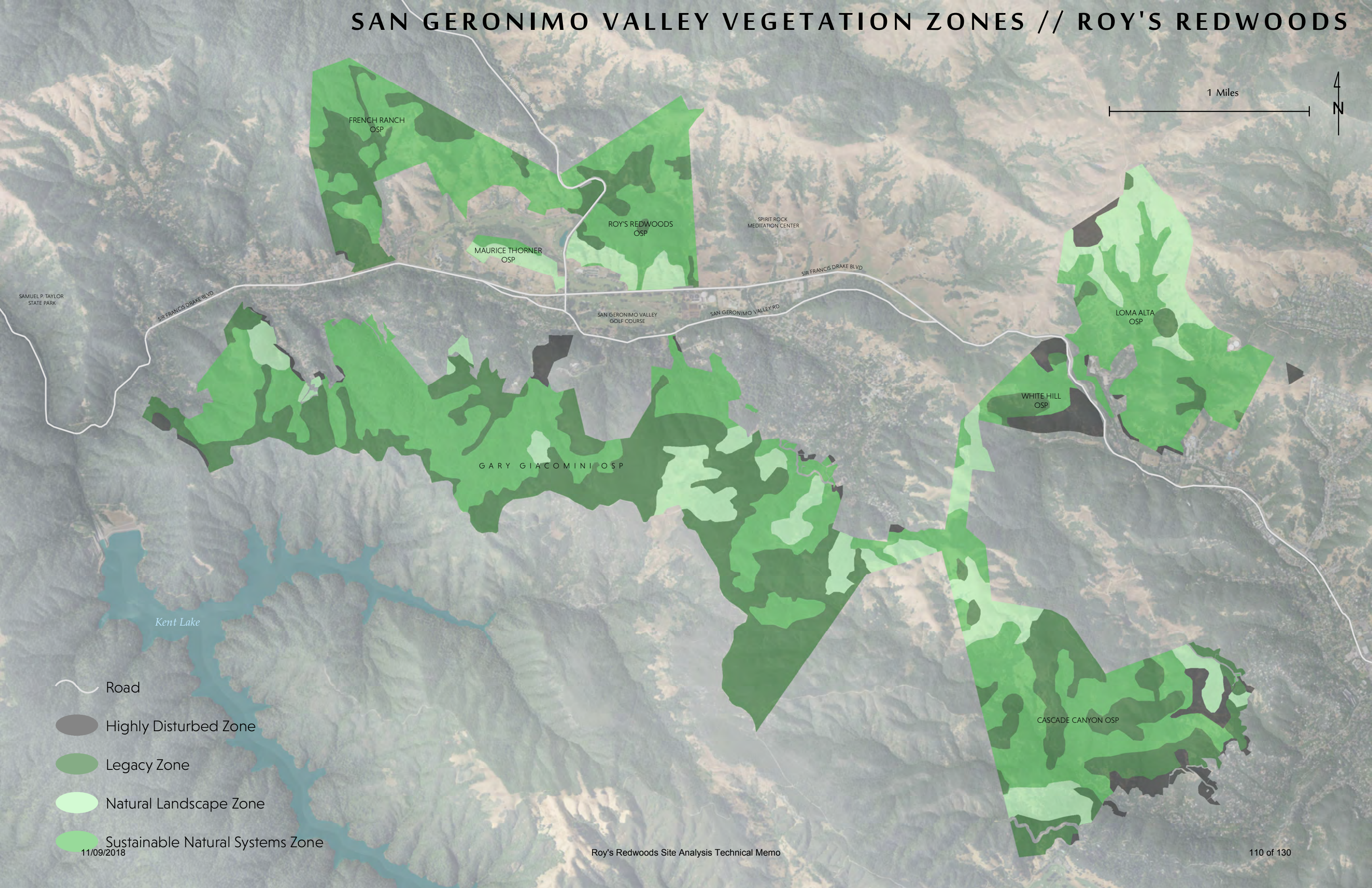
- Rubus ursinus
- Sequoia sempervirens-  
Umbellularia californica

Vegetation Data Source: Roy's Meadow Grassland Community Assessment, Benson, 2016.

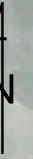




# SAN GERONIMO VALLEY VEGETATION ZONES // ROY'S REDWOODS



1 Miles



SAMUEL P. TAYLOR STATE PARK

SIR FRANCIS DRAKE BLVD

FRENCH RANCH OSP

MAURICE THORNER OSP

ROY'S REDWOODS OSP

SPIRIT ROCK MEDITATION CENTER

SIR FRANCIS DRAKE BLVD

SAN GERONIMO VALLEY GOLF COURSE

SAN GERONIMO VALLEY RD

LOMA ALTA OSP

WHITE HILL OSP

GARY GIACOMINI OSP

Kent Lake

CASCADE CANYON OSP

Road

Highly Disturbed Zone

Legacy Zone

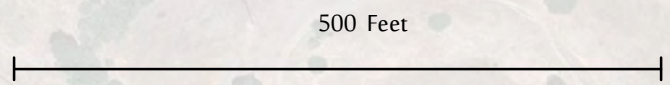
Natural Landscape Zone

Sustainable Natural Systems Zone

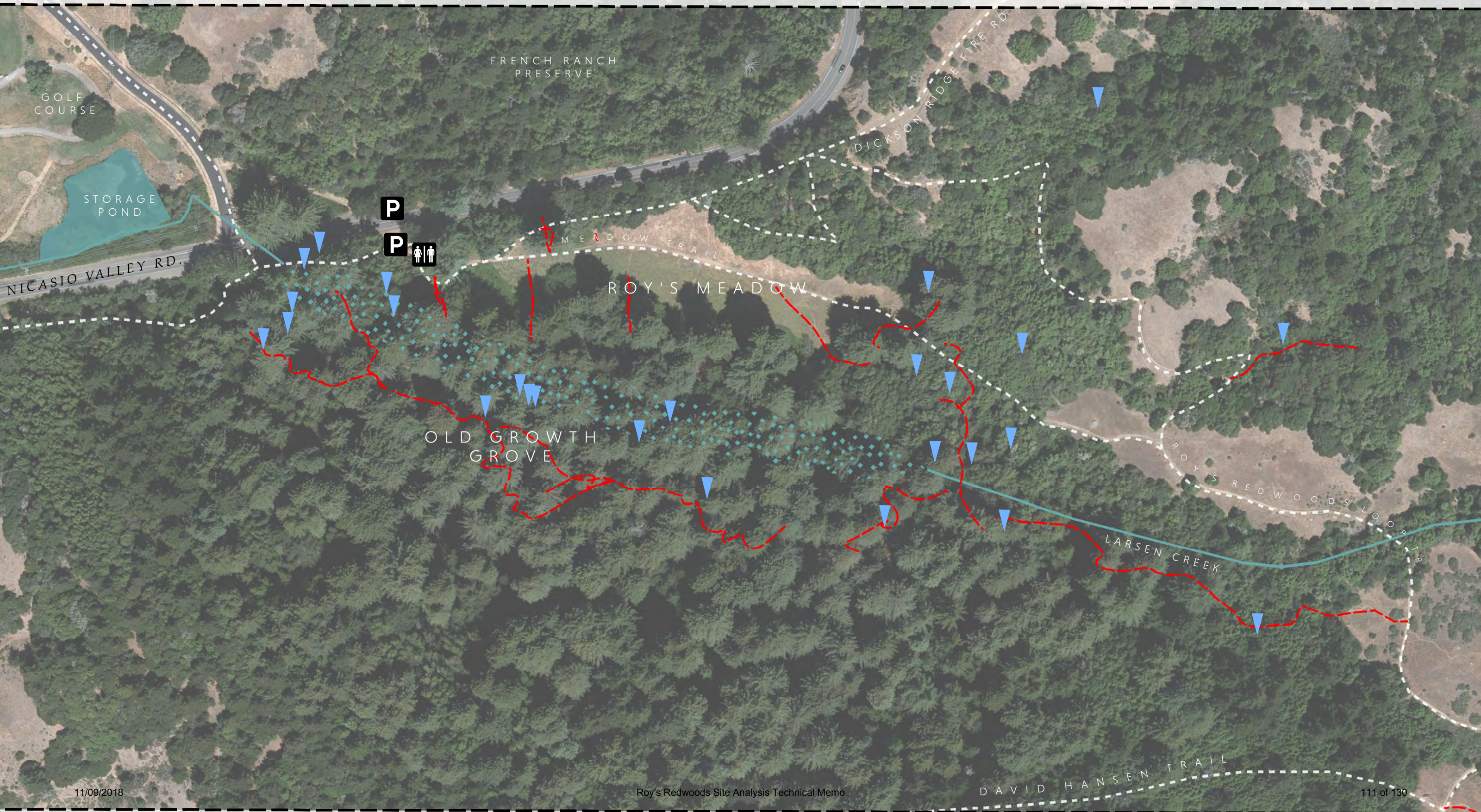
11/09/2018



# SOCIAL TRAILS & CREEK CROSSINGS // ROY'S REDWOODS



- Trail
- Creek / Stream
- Stream Crossing
- Social Trail
- Braided Stream





# REDWOOD TREES // ROY'S REDWOODS

500 Feet



REDWOOD TREES

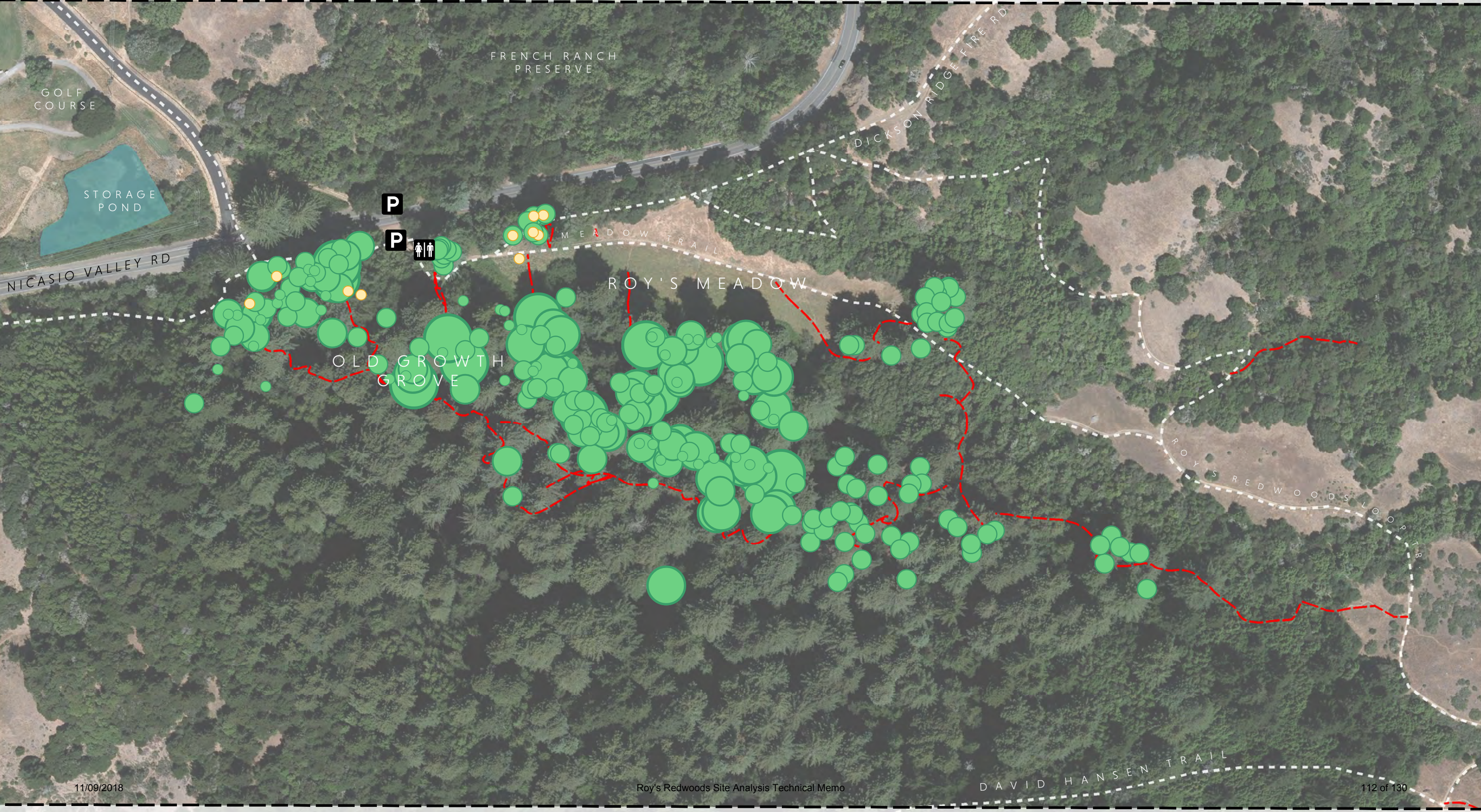
Diameter at Breast Height (cm)

- 20 - 38
- 39 - 53
- 54 - 70
- 71 - 94
- 95 - 145

Inaccessible

Social Trail

Trail





# 1971 AERIAL PHOTO // ROY'S REDWOODS

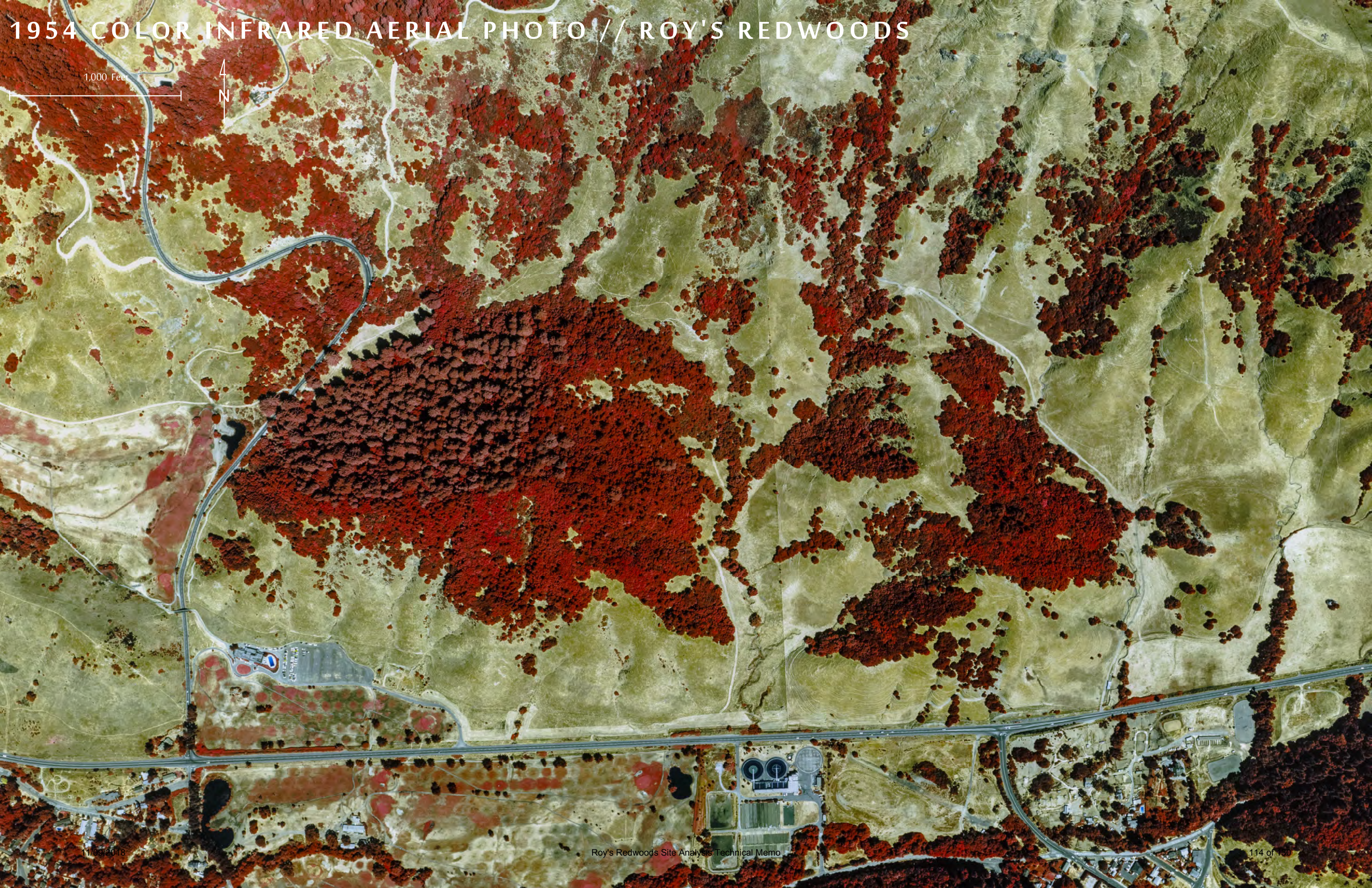
1,000 Feet





# 1954 COLOR INFRARED AERIAL PHOTO // ROY'S REDWOODS

1,000 Feet





# 1952 AERIAL PHOTO // ROY'S REDWOODS

1,000 Feet





## Workshop Agenda

- 10:00 Welcome (Tori)
- Welcome workshop participants
  - Introduce Tori and Claire
  - Describe impetus for the project
- 10:10 Project Goals & Timeline (Claire)
- Review Workshop Goals
  - Review Workshop Agenda
  - Project Schedule & Goals
    - First of three workshops
    - All three workshops will generate a site inventory & analysis to guide site and restoration planning
    - Focus of analysis will be the opportunities, constraints, and implications for planning
  - Hydrology consultant
- 10:15 Visitor Survey Overview (Danny)
- Copy of draft methodology and questions are on each table
- 10:20 Introductions
- 10:40 Roy's Redwoods Site Inventory & Analysis to Date
- 11:00 What background information and data is missing? (Breakout Groups)
- First part of the day will focus on inventory; plan to shift to analysis after lunch
  - Additional reports or work done we should review
  - Observations or site experience we should capture/correct
  - What site residence and users, human and otherwise, do we need to consider? What spatial patterns and ecological process and human use do we need to understand? For example, what site factors influence spotted owl presence and nesting? What might we need to understand about their food chain, like woodrats, to make best decisions?
- 12:00 Lunch
- 12:30 Opportunities & Constraints (Breakout Groups)
- What is the interplay between site conditions? What are the primary drivers?
  - How do changes in vegetation relate to other site factors? Wildlife? Hydrology? How? What vegetation types do we want to conserve and steward? What areas need to be actively managed?
  - How is current hydrology impacting site conditions? What do we need to know? What changes could we consider to improve water quality and reduce sediment?

- To what degree are social trails impacting hydro? Hydro impacting social? What goals associated with the creek might dramatically impact visitor circulation? To what degree has Larsen created circulation verses the other way around?
- What conditions are needed to preserve and foster special species habitat? Other habitat types or species we should consider? What current or proposed would impact positive/negative?
- What types of visitor experiences should Roy's offer? How can we best support those considering the above? What management actions would be needed?
- What sort of visitor infrastructure could we consider that preserves the immersive canopy experience while better protecting sensitive root systems and allowing for understory regeneration?
- What level of trail development appropriate for site conditions? For visitor experience?
- What educational opportunities does the site offer? What infrastructure is needed to best support? What impact might that have? Is Roys the right place? Why/why not?
- Are there conditions adjacent to the site we need to consider? Should planning efforts include a broader scope of analysis?

1:45

#### Next Steps

- What data is needed to further this investigation?
- Is there information we can gain from the visitor use study that is critical?
- What are important questions to pose in the second workshop?
- What is the best format for the third workshop - pubic verses reconvene?

2:00

#### Workshop Ends

If time allows, draft goals and vision for an improved Roy's Redwoods.

- What are your primary concerns given the information?
- What goals and objectives would you urge the MCP to consider?
- What should the vision for Roy's include? What should it not include?

## **Roy's Redwoods Site Inventory and Analysis Workshop: Breakout Sessions' Meeting Notes**

Tuesday, May 9th, 10:00 a.m. – 2:00 p.m.

Fairfax Community Church at 2398 Sir Francis Drake Blvd. Fairfax, CA 94930

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Table 1: Danny Franco, Facilitator, Associate Project Manager, Golden Gate National Parks Conservancy (Conservancy)  
David Herlocker, Naturalist, Marin County Parks  
Jean Berensmeier, Chairperson, San Geronimo Valley Planning Group  
Sarah Phillips, Urban Streams Coordinator, Marin RCD  
Shannon Burke, Naturalist, Marin County Parks

Table 2: Zac Stanley, Facilitator, GIS Specialist, Conservancy  
Renée Cormier, Avian Ecologist, Point Blue Conservation Science  
Mischon Martin, Chief of Natural Resources, Marin County Parks  
Karen Weiss, Senior Environmental Scientist, CA Department of Fish and Wildlife  
Mia Bianchi, Scientific Aid, CA Department of Fish and Wildlife

Table 3: Tori Bohlen, Facilitator, Resource Specialist, Marin County Parks  
Lisa Michl, Resource Specialist, Marin County Parks  
Sharon Farrell, VP Stewardship and Conservation, Conservancy  
Gabe Reyes, Bat Ecologist, USGS  
Caroline Christman, Senior Project Manager, Conservancy  
Deborah Zierten, Education and Interpretive Program Manager, Save the Redwoods League

Table 4: Liz Westbrook, Facilitator, Project Manager Consultant  
Christina Tom, Senior Environmental Scientist, SF Water Quality Control Board  
Mia Monroe, Marin Community Liaison, NPS  
Sue Townsend, Wildlife Ecologist, Wildlife Ecology and Consulting  
Ryan Watanabe, Marine Biologist, CA Department of Fish and Wildlife

Table 5: Jon Campo, Facilitator, Senior Natural Resource Planner, Marin County Parks  
Bill Merkle, Wildlife Ecologist, NPS  
James Hansen, Environmental Scientist, CA Department of Fish and Wildlife  
Rachel Kamman, Hydrologist, Kamman Hydrology  
Shelly Benson, Botanist, Biological Consultant

## Site Inventory: What are we missing?

### Site History and Background

Find other historic aerials to identify the historic extent of the redwood grove, grazing, and alignment of Larsen Creek

Jean Berensmeier's memories of the site:

- The redwood understory at Roy's was "intact" during the cattle/grazing period (before 1980)
- Within 2 months of Roy's being opened to the public in 1977 the understory of the redwood grove was trampled and County Parks was forced to put in a toilet and trashcans to reduce litter on the Preserve
- The locals simply love visiting Roy's
- The weeds and invasive plant populations exploded in the meadow when the mowing began

### Wildlife

Most tables discussed the need for increased understanding and analysis of wildlife on the site, in addition to Northern Spotted Owl. The following captures guiding questions developed to lead the refinement of the site inventory and analysis, as well as data sources identified for additional information.

What other raptor and old-growth dependent bird data is available for Roy's and adjacent properties?

- Data sets to review: NSO monitoring, E-bird, breeding bird survey, Christmas bird count
- NPS [list](#) of old-growth dependent bird species for indicator species
- Monitoring the dusty-footed wood rat as prey for other indicator species

What amphibian and reptile survey data is available?

- Data sources: anecdotal information from community, iNaturalist, other?
- Potential threatened species: yellow-legged frog, red-legged frog, giant salamander
- Would additional survey(s) be necessary?
- Map Spring box on Roy's where there are Giant CA Salamanders - located up the hill from the watering trough

What invertebrate survey data is available?

- Data source: iNaturalist

What other fish species exist on the adjacent properties and Preserves?

- Data sources: San Geronimo and Larsen Creek inventories, EIR from Larsen Creek and San Geronimo Creek projects

What is the impact from the cessation of mowing in 2011 at the Meadow?

- How has it impacted the foraging habitat for the Northern Spotted Owl, other raptors, or terrestrial mammals?
- What are the social and wildlife benefits to resuming mowing of the meadow?
- What are habitat benefits of the unmowed meadow?
- What species use the meadow to hunt?

Clarification of Northern Spotted Owl Habitat and Foraging (Renée Cormier, Point Blue)

- There has been a documented pair of spotted owls nesting in Roy's for at least 10 years
- Meadow is not used by NSOs for hunting – they typically hunt in nesting areas and habitat gap zones
- NSO's stopped nesting at Roy's between 2011 and 2016, successful nesting pair were observed again in 2016

Additional Wildlife Data to Include and Review to understand what role Roy's plays in the broader regional context

- Review analysis of the Wildlife Picture Index
- Review species found in open grassland versus the redwood forest (e.g. American Badger seen in redwood forest)
- Review Conservation Lands Network Critical Wildlife Linkages map
- Review Road kill data from the [California Roadkill Observation System](#)
- Anecdotal western pond turtle crossing of Nicasio Valley Road and Sir Francis Drake Blvd from Christina Tom

## Vegetation

Consider updating vegetation maps with the following information:

- Map location of large downed redwood trees and standing snags – play a significant role in circulation and wildlife value
- Map fire history (e.g. 2013 fire) and fire scars on redwoods (scars provide good habitat value)
- Map locations of other redwood groves in San Geronimo Valley – Roy's is the only old growth in the Valley
- Map Douglas Fir composition on-site

Consider an updated assessment of the redwood grove (previous assessment was conducted in 1979)

- Provide an updated documentation of tree height, diameter and age of trees
- Describe the density, logging history, structure, impact of grassland near forest, composition and health of the forest
- Assessment to determine what factors impact understory vegetation? Lots of nightshade and violet

Consider mapping or listing invasive species on golf course and adjacent properties

Review the Save the Redwoods League climate data and climate change models from Samuel P. Taylor redwood forest (within a couple miles of the site)

## **Hydrology**

Review water rights along Larsen Creek (e.g. golf course storage pond for irrigation)

Consider adding the following information to hydrology map(s):

- Larsen Creek alignment from the 1952 aerial
- Springs, seeps, and spring box location
- Roy's Pools and SPAWN restoration projects on the lower portions of Larsen Creek
- Fish passage barriers lower Larsen Creek

Hydrologic report should describe:

- Headwaters to Larsen Creek
  - Underground
  - Wildlife refuge
  - Some social trails but it is very steep and thick with poison oak (natural barrier to public access)
- Distance to groundwater
- Sediment deposits on hillside and in the valley

## **Public Access**

- Update public access maps with the following information:
  - Map trail conditions as it related to erosion (see Fire Road Study and Roy's Loop Study)
- Check County Records for traffic, bike and pedestrian incidents on Nicasio Valley Road
- Review MCP Group Permits for Roy's Redwoods (obtained from Jon Campo)

## **Visitor Survey**

Items to consider:

- What other redwood parks do they visit?
- Do they want better connections to adjacent Preserves?
- Has visitor use increased now that Muir Woods visitor accessibility has decreased?
- Document unpermitted commercial use/summer camps at Roy's

## **What is the right area of focus?**

- The meadow, redwood grove and alluvial area of Larsen Creek is the appropriate area of focus but it needs to be set into the larger context of the San Geronimo Creek and Lagunitas Creek watersheds

### Workshop 2 and 3

- The Workshop should include an overview of land use history as well as the hydrologic, wildlife, and vegetative significance of Roy's Redwoods
- It would be helpful to have more of the visitor and hydrologic data available by the third workshop
- Way to frame workshop:
  - What would you do if your priority was ONLY restoration?
  - What would you do if your priority was ONLY visitor access?
  - What would you do if your priority was to best accommodate both?

### Site Opportunities and Constraints

TOPIC AREA	OPPORTUNITY	CONSTRAINT	IMPLICATIONS, QUESTIONS, NOTES, ETC
Meadow Trail and Restoration	Trail through meadow offers opportunities for visitors to view the grove	Creates a challenge to restoration, as the trail bisects the meadow	NPS is moving away from constructing trails that pass through meadows
	Boardwalk construction for public access	Boardwalks are intensive and costly for the number of visitors, boardwalks reduce light to vegetation underneath	
	Native grassland restoration of the meadow area	Replacing the non-native grasses in the meadow would be a long-term undertaking, due to pressure from adjacent non-natives and high visitor traffic	Is this the right area to invest in grassland restoration? Are there other areas of higher resource value?
	Mowing or burning of the meadow to improve small mammal habitat		
Redwood Grove	Restore and protect understory vegetation to preserve the health of the old-growth forest		
	Restore and protect the most sensitive area of the old-growth redwoods		
	Consider existing California Bay understory as more appropriate/tolerant play area for the public use	Find a way to protect the fallen branches and trees that are currently used for fort building, which impacts their habitat value	The allelopathic nature of the Bay duff makes the understory naturally less dense

TOPIC AREA	OPPORTUNITY	CONSTRAINT	IMPLICATIONS, QUESTIONS, NOTES, ETC
	Identify favorite areas within the grove; ensure access to these and prioritize restoration elsewhere		Note that the “fairy ring” area is adjacent to a Bay-dominated area.
	Herlocker’s Redwood Loop Trail: Create spur trail at the new bridge over the creek at Roy’s Loop just south of the trash/toilets. The existing bridge already gets people on the south side of the creek. New trail could extend north thru the understory at the toe of slope. A second, channel spanning bridge, would get people back over the creek at the Fairy Ring area.	There is no designated trail to access the redwoods grove, likely creating the existing web of social trails	
Larsen Creek	Restoration projects that reduce sediment delivery and improve groundwater recharge		
	Flood bank restoration with vegetation could stabilize alluvial sediment		
	Construct system of elevated boardwalk and bridges through the braided channel area of the creek	The concept of an elevated trail/boardwalk in the redwood understory should consider the permitting implications of putting piers in “waters of the US”  This would be a dramatic change in visitor experience from current condition.  High construction and O&M cost from existing	Bridges should be channeling spanning to reduce impact on the creek
	Allowing creek play in a designated area to foster next generation of conservationist	What precedent does this set?	
		How to buttress the channel with stone or other methods to prevent degradation?	
		Would allowing creek play invite further channel exploration and degradation in the more sensitive areas?	



TOPIC AREA	OPPORTUNITY	CONSTRAINT	IMPLICATIONS, QUESTIONS, NOTES, ETC
	Improve Larsen Creek for fish habitat and spawning	Restoration for fish would require the creek to be daylighted through the golf course and fish barriers removed from storage ponds	
	Potential for the golf course to be a partner (already a partner with SPAWN on a Larsen Creek restoration project)	Herbicide, pesticide and rodenticide used by the golf course create water quality challenges	
		The presence of bull frogs in the golf course storage ponds could impact CA red-legged frog restoration projects on Roy's	
Public Access	Reduce the amount of social trails and trail redundancies, including the removal of the social trail that goes near NSO nesting sites or other sensitive wildlife hot spots	How to more evenly distribute public access?	
	All future trail work should address current trail erosion issues of sediment moving down the system and its potential to negatively impact stream health/fish habitat.		This could be accomplished by means of rolling dips, mulch/surfacing improvements and improved trail maintenance
	Create designated nature play area	How would nature play and creek play be regulated?	Examples of regional nature play: Joaquin Miller Park, Roberts Park, Henry Cowell Park, Berkeley's adventure playground
	Construct fencing as opposed to an elevated platform/boardwalk because it is a more "immersive" trail type	MCP has never designated or signed part of an open space/preserve as "OK to trample", wondering if the precedent would "raise eyebrows"	
	Closing areas to public access is an opportunity to educate the youth and the broader public about the value of the resource.	Embrace the teaching/learning opportunities provided by Roy's because children respond to "rules and role models", i.e. there is simply a need for clear boundaries	

	On-going visitor use monitoring at Roy's	How can MCP leverage ongoing programmatic/volunteer programs as the means to achieve the monitoring?	
	Opportunity for ADA compliant trails through the meadow and redwood understory		
	Opportunity for trails/ropes course through the canopy		
		Nicasio Valley Road is a connectivity barrier for pedestrian due to current parking configuration and speed that cars travel along that stretch of roadway	
	Design for the current demographics of Marin County: Older, exploring site with grandchildren, trails easily accessible to parking, educational waysides		
Wildlife	Increased wildlife monitoring beyond camera program, particularly for non-raptor species of bird, bats – focusing on specific indicator species, old-growth dependent species, terrestrial connections, collar data collection (eg culvert and roadway monitoring)	Nicasio Valley Road is a connectivity barrier for pedestrian and terrestrial wildlife	
		Presence of bullfrogs in ponds would hinder any effort at trying to restore CRLF population	

**DRAFT AGENDA – ROY’S REDWOODS WORKSHOP 2**  
**Wednesday August 2<sup>nd</sup>, 2017, 4-7 PM**

**4-5:00 PM - Roy’s Redwoods Preserve Site Walk**  
**Trailhead gate at Nicasio Valley Rd. (approximately 0.5 miles on right from Sir Francis Drake Blvd)**

**5:15-7 PM - Lagunitas School Multi-Purpose Room (h’ourdevers provided)**  
**1 Lagunitas School Road, San Geronimo, CA 94963**

4:00 - Project Overview, Workshop Agenda & Goals

- Introductions
- Introduce Project
- Brief on Workshop Agenda & Goals

4:10 - Site Walk

5- 5:15 - Break to reconvene at Lagunitas School and serve h’ourdevers (approximate 5 minute drive)

5:15 – Sign In

5:30 - Site Inventory & Analysis to Date

- Brief on Site Inventory & Analysis to Date
  - Technical Workshop
  - Site History & Literature Review
  - Public Access & Visitor Experience Study
  - Site Hydrology
  - Vegetation and Wildlife Inventory

5:40 - Stakeholder Site Knowledge

- Station 8 – What words describe Roy’s to you?
- Introduce stations and goals
  - Station 1 - Destination redwood groves in Marin
    - Where do you go to see and/or take people to see redwood trees in Marin?
    - Is there a particular redwood grove visited for ‘old growth’ trees?
    - Is Roy’s Redwoods a destination redwood grove?
  - Station 2 - Place-names and Points of Interest
    - What parts of Roy’s do you visit and what do you call them?
    - How do you access these points of interest?
  - Station 3 - Visitor experience at Roy’s
    - What do you do at Roy’s?

- What do you enjoy or experience?
  - What improvements would you like to see?
- Station 4 - Wildlife
- Do you have additional wildlife observations?
  - Are these common or rare wildlife sightings?
  - Does the meadow provide habitat for NSO prey?
- Station 5 - Vegetation
- Is restoration of the meadow important?
  - Do you know of additional rare species at Roy's?
- Station 6 – Historic Aerial Photos
- How has Roy's changed over time?"

6:35 - Recap and Open Discussion

7:00 – Workshop End

## Notes from Roy's Redwoods Workshop 2

Wednesday August 2<sup>nd</sup>, 2017, 4-7 PM

4-5:00 PM - Roy's Redwoods Preserve Site Walk, 5:15-7 PM - Lagunitas School Multi-Purpose Room

Name	Organization
Audrey Fusco	SPAWN/Turtle Island Restoration Network
Barbara Salzman	Marin Audubon Society
Claire Mooney	Golden Gate National Parks Conservancy
Dan McKenna	SGVPG
Danny Franco	Golden Gate National Parks Conservancy
David Herlocker	Marin County Parks
Denis Rodoni	Marin County Board of Supervisors
Diana Dougherty	Dougherty Ranch
Eva Buxton	California Native Plant Society
Greg Zitney	Marin Conservation League
Jean Berensmeier,	San Geronimo Valley Planning Group
Jon Campo	Marin County Parks
Laura Shain	Lagunitas School District
Lauren Hammack	Prunuske Chatham, Inc.
Linda Nave, Jane Seyer	San Geronimo Valley Planning Group
Linda Novy	Marin Horse Council & Marin Conservation League
Lisa Michl	Marin County Parks
Maryrose Kulick	Golden Gate National Parks Conservancy
Mickey Allison	Sierra Club Marin Group
Mischon Martin	Marin County Parks
Morgan Patton	EAC
Paul Berensmeier & Tina Whyte	Local residents and son of Jean
Rhanda Kutler	Marin County Board of Supervisors
Rob LaPorte	Golden Gate National Parks Conservancy
Robert Eichstaedt	Foot People
Sharon Farrell	Golden Gate National Parks Conservancy

### Circulation

- Loop trails are desired.
- Key destinations:
  - Fairy ring at the end of the meadow trail
  - View over Spirit Rock
  - The spring
  - The redwood grove
- Jean noted that since the new trail has been established at the trailhead she has observed its influence on the circulation pattern to direct visitors more through the redwoods rather than to the meadow trail.

- Equestrians use the loop and peripheral trails.
- Some illegal bike use occurs on preserve trails.

#### Biological Resources:

- Common wildlife sightings: bobcat, coyote, deer, great horned owl, red-tailed hawk, wilson's warbler, ravens, turkey vultures, yellow-jackets, northern spotted owl, fence lizard, newt, butterfly.
- Native habitat restoration is a priority however should be achieved in balance with visitor experience and opportunities to play and discover. Restoration should be focused on the most biologically important areas.

#### Visitor Experience:

- What one word best describes Roy's Redwoods?: Calm; Majestic; Sanctuary; Not crowded; Quiet; Ancient; Giants; Beauty; Scale; Magical; Nature's Playground; Peaceful; Meandering; Sanctuary; Cool Breeze; Peace!; Native; So Impressive; Roy's bottomland feels: Safe.
- Information kiosk at trailhead is desired. Signage within preserve should be limited to minimal wayfinding. Potential interpretive themes:
  - History of Roy's Redwoods. Particularly the story of protecting Roy's Redwoods as the first public open space preserve in the San Geronimo Valley.
  - Redwood trees.
- Balancing visitor impacts to biological resources with a sense of discovery and exploration is important.
- Speed of travel and lack of space along Nicasio Road is a safety concern at trailhead and the noise generated by traffic is disruptive to the experience.
- Universal access to the redwood grove is an important goal.
- Roy's is an easy hike from the schools and its use for children is a priority. School groups are always supervised by teacher and/or teacher aid when coming to Roy's. Roy's is a very valuable experience for the school children especially with the opportunity to explore. Establishing a structured or guided experience that provides opportunity to play and explore while in balance with preserving habitat would be appreciated.
- Eroded trails, downed logs, as well as lack of clear trails are primary concerns which have a major impact on access for those with limited mobility.
- Feedback suggests a blend between a Sensitive Resource Area and a Conservation Area experience is desired.
  - Sensitive Resource Area: "Visitors perceive and experience a relatively undisturbed, minimally developed natural environment, with few encounters with others, opportunities for solitude, and wildlife viewing" (RTMP).
  - Conservation Area: "Visitors experience easy access to a primarily natural landscape and good views. Opportunities for solitude and wildlife viewing may be more frequent in proximity to the Sensitive Resource Areas: but encounters with other visitors may be

frequent, and wildfire viewing may be compromised in proximate to Impacted Areas” (RTMP).

Visitor Purpose:

- Exercise: running and hiking.
- Recreation: hiking, dog walking, and horseback riding.
- Experience nature: wildlife viewing, discovery, education, relaxation, nature play, and meditation.
- Socialize: birthdays, storytelling, weddings, celebrations of life, and playing music.