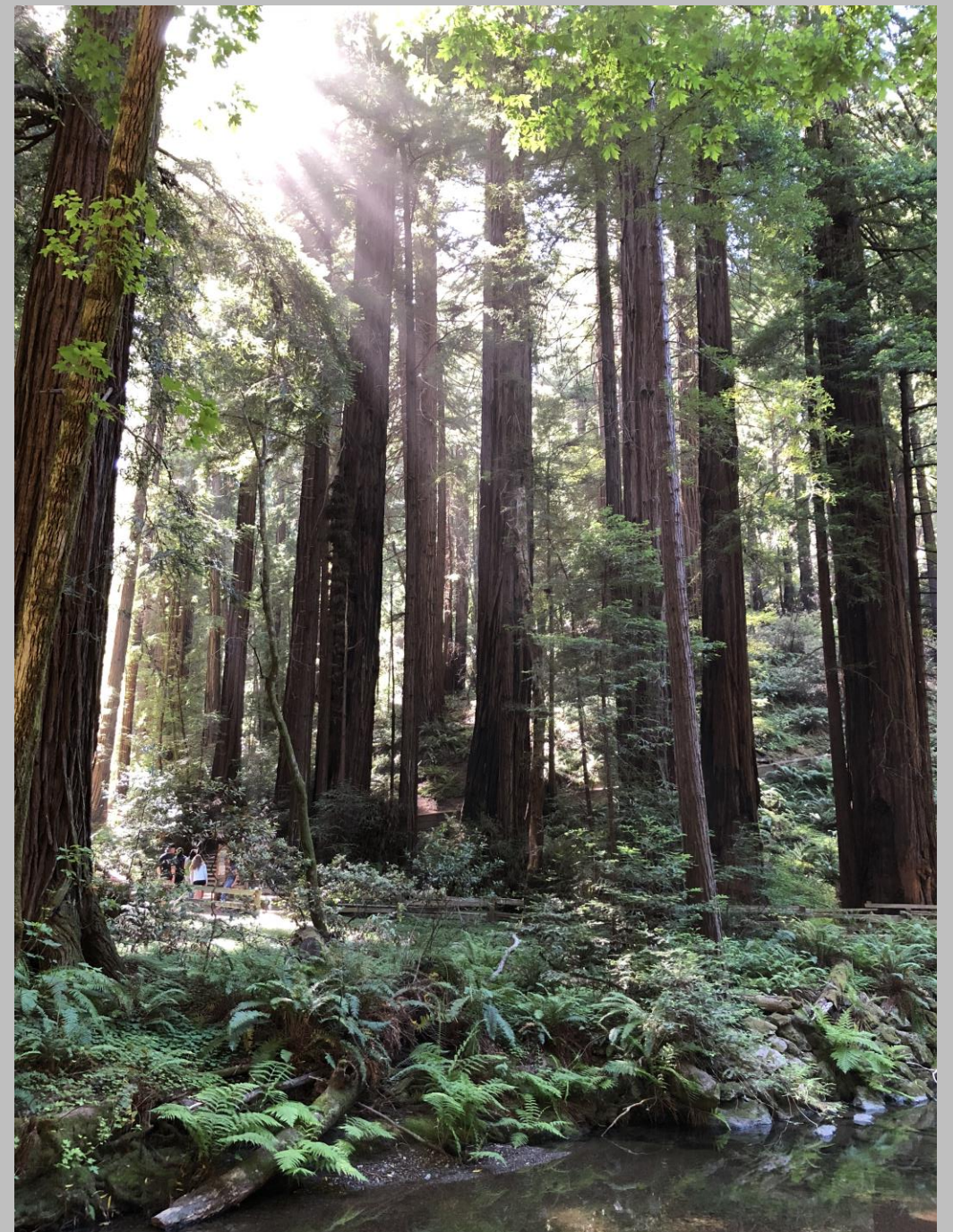


Muir Woods MOU Update

County of Marin & National Park Service

December 10, 2019





MOU Summary

Goal: Manage peak visitation, reduce traffic congestion, and improve safety

- NPS develops reservation system for private vehicles and commercial carriers; expands shuttle
- County establishes parking management corridor protected by bollards
- Phased parking reduction plan to reduce road shoulder parking to 30 spaces within 7 years
- Parking enforcement authority extended to NPS staff
- Improved public messaging; twice annual public meetings; expanded website

Goal: Protect, preserve, and enhance the health of Redwood Creek watershed

- Redwood Renewal includes a suite of projects to improve conditions in Redwood Creek
- Best management practices guide location and timing of work
- Projects include work in surrounding areas of watershed in Frank Valley corridor and in state park lands

Reservation System Highlights

- **January 2018:** Private vehicle reservation system and expanded shuttle service launched
- **May 2018:** Commercial carrier reservation system (Recreation.gov) launched
- **Ongoing:** Adaptive management, system improvements, ongoing marketing and outreach
- **Upcoming:** Two reservation system integrated into one managed through concession contract

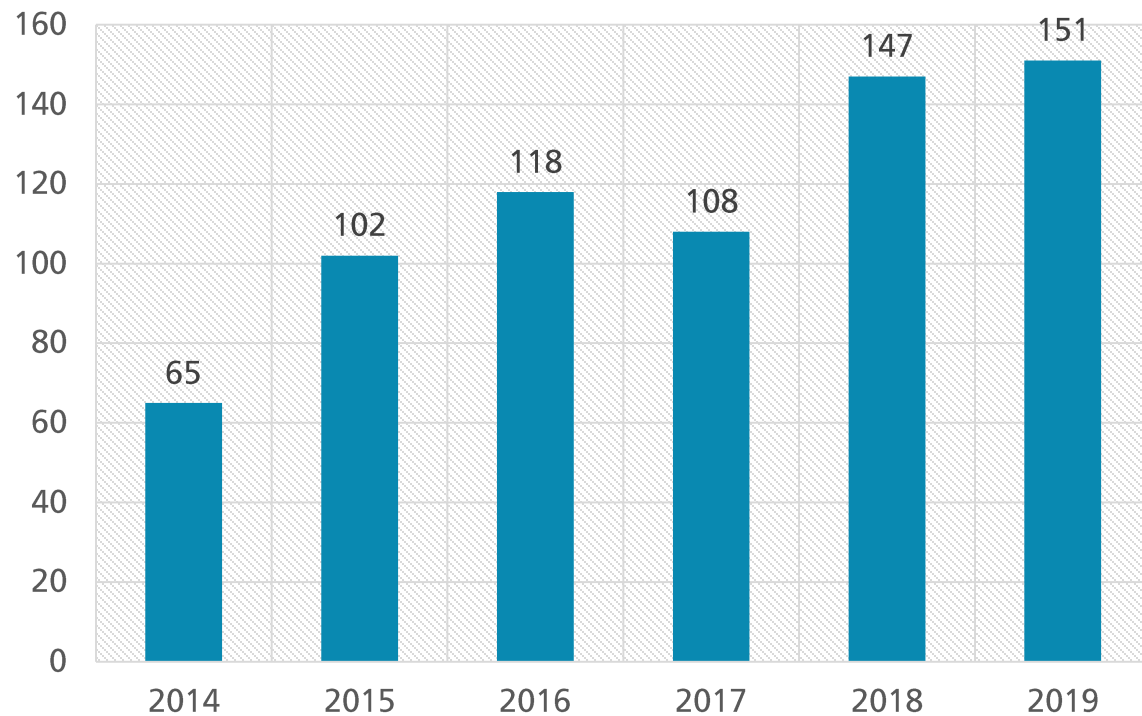


RESERVATIONS MADE TO DATE (JAN 2018 – NOV 2019)

Privately-owned Vehicle Parking	340,000
Commercial Carrier Parking	12,700
Muir Woods Shuttle	175,000

Shuttle Operations: 2014 - 2019

Total Shuttle Operating Days, 2014-2019



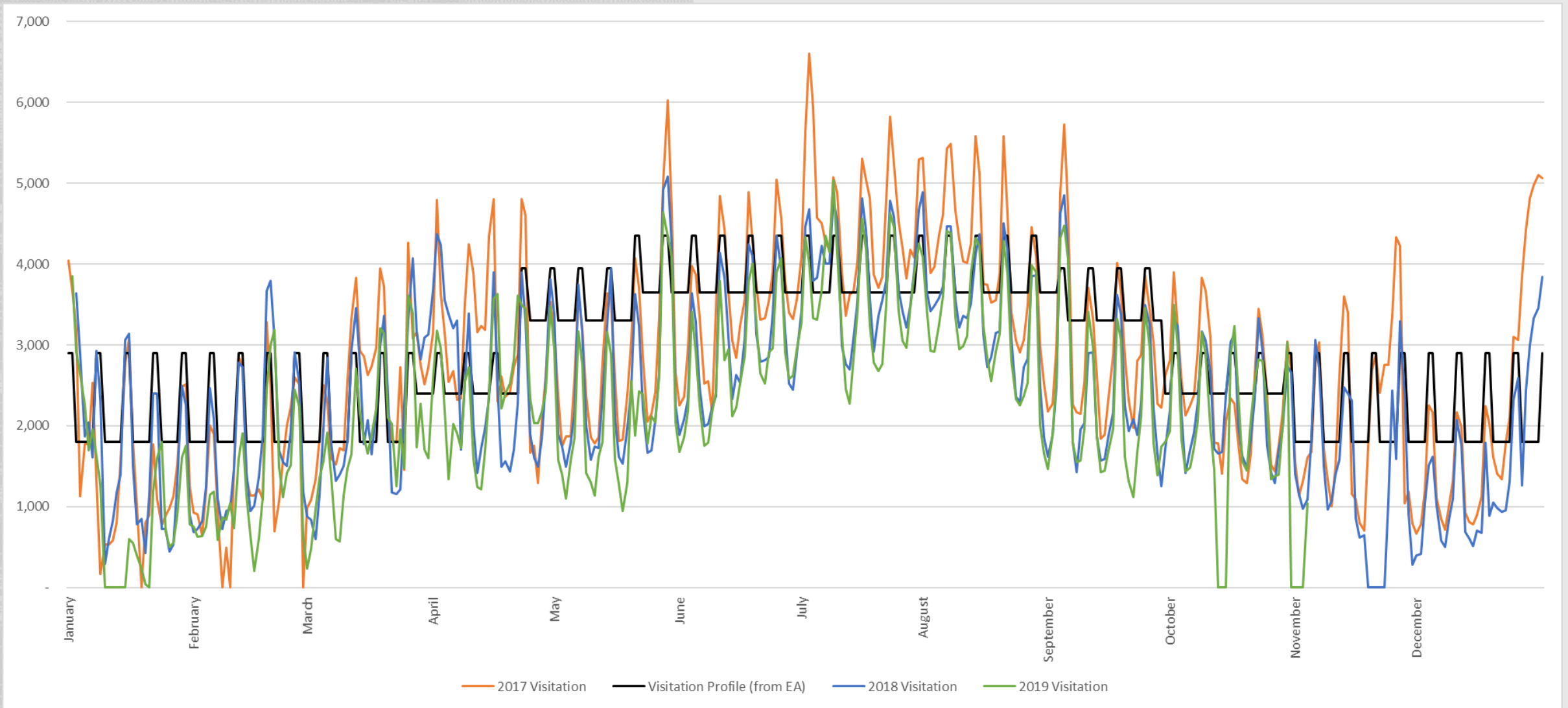
Shuttle Mode Share

Before reservation system = 5.5%

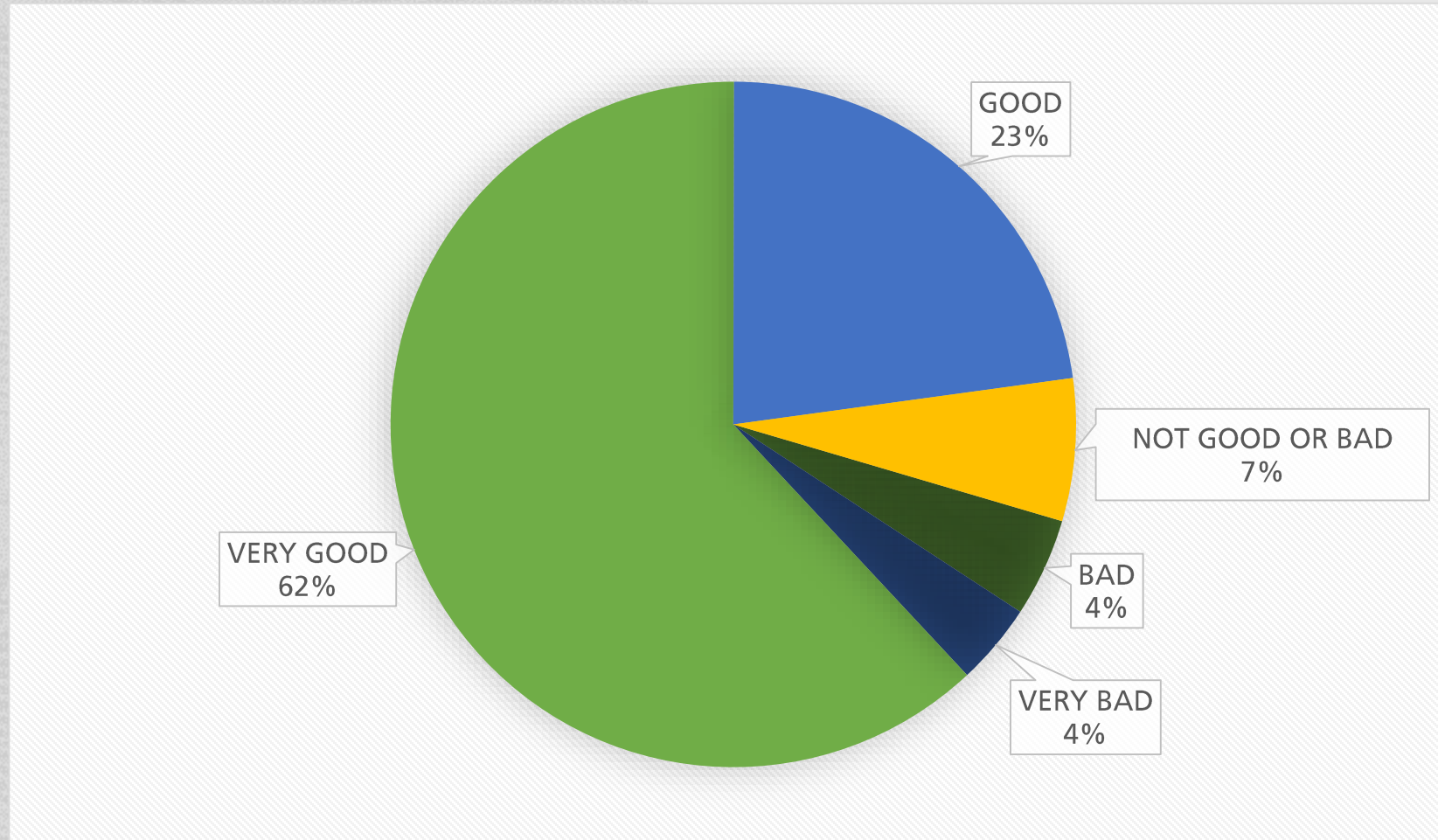
With reservation system = 9.3%



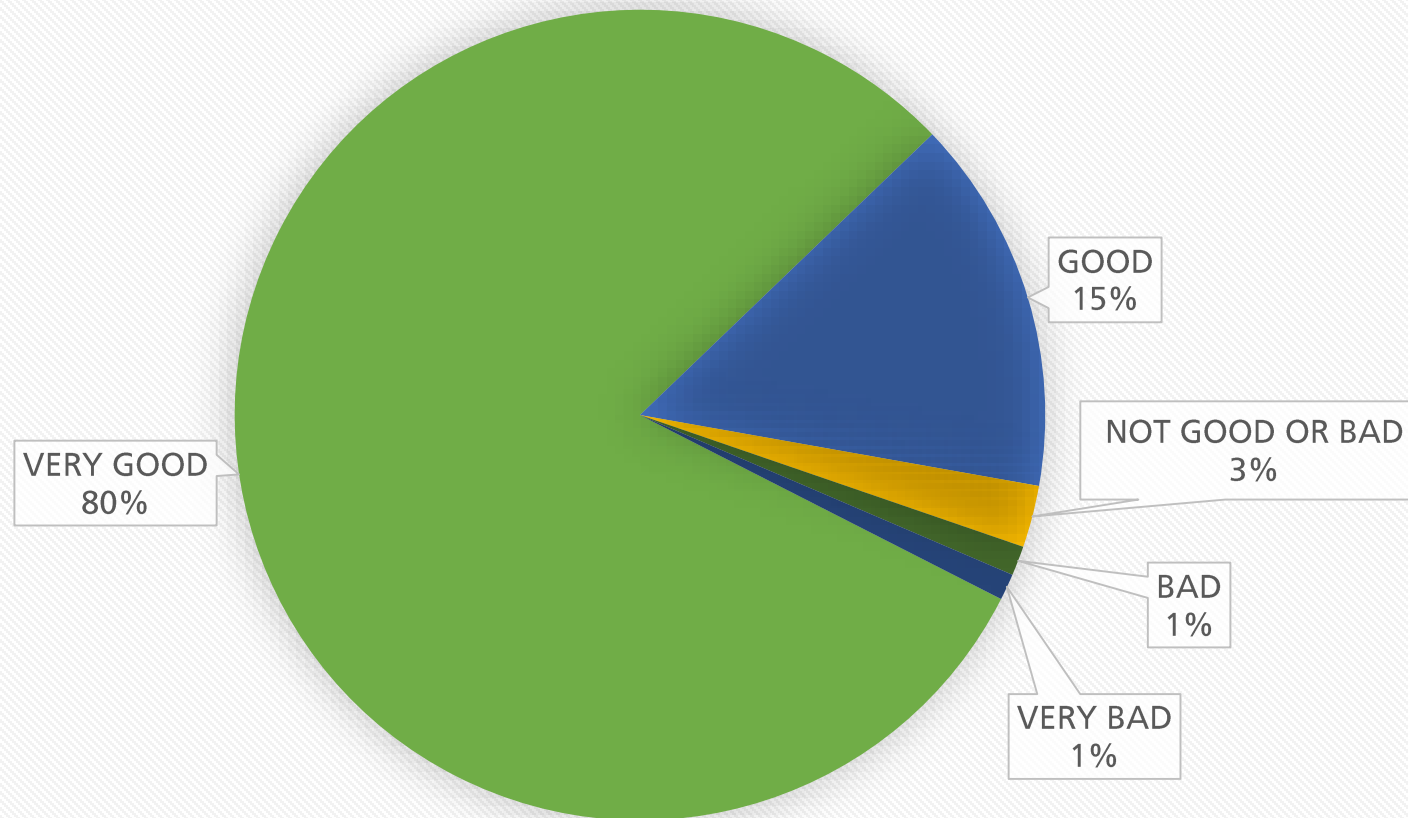
Visitation Analysis



Customer Survey: How was your experience parking at, or taking the shuttle to, Muir Woods?



Customer Survey: Overall, how was your visit to Muir Woods National Monument?



Visitor Comments

The parking assistants were very efficient, helpful and nice.

Staff is extremely professional. We had a handicapped person with us, and they were extremely accommodating, even though we had not booked an ADA reservation. Thank you so very much - on top of the incredible national monument, your kindness really made our day special. Kudos to your staff!

Had to park way too far away. Definitely further than the stated possible 1/4 mile.

Having to drive back up the mountain in the fog to find signal to make a parking reservation was slightly inconvenient. However, the park was beautiful and worth it.

Reservation System Integration: 2020

- All reservations will be managed by Ace Parking through GoMuirWoods.com
- Reservations based on vehicle size, not user type
- Oversized personal vehicles (i.e. RVs) will be allowed
- More on-site, efficient parking management



Successes: 2018

- Positive visitor feedback
- Reduced traffic and congestion
- Reduced impact on resource
- Managing peak visitation
- Reduced parking on road
- Increased shuttle use
- Fewer incidents (e.g. vehicle break ins)
- Opportunity for staff to return to intent of their position
- Provisions for school and outreach groups – continued access for these target populations

Additional Successes: 2019

- Ability to communicate with visitors during closures, weather incidents
- Continued and improved public messaging
- No illegal parking on road
- Fewer people arriving without reservation
- Visitors spend more time inside the woods, enjoying the resource
- Reservations aren't sold out far in advance, leaving opportunity for last-minute and day-of reservations
- In case of emergency, fewer people on site, easier access for emergency vehicles, better traffic flow, better communication tools

Reservation System & MOU Goals



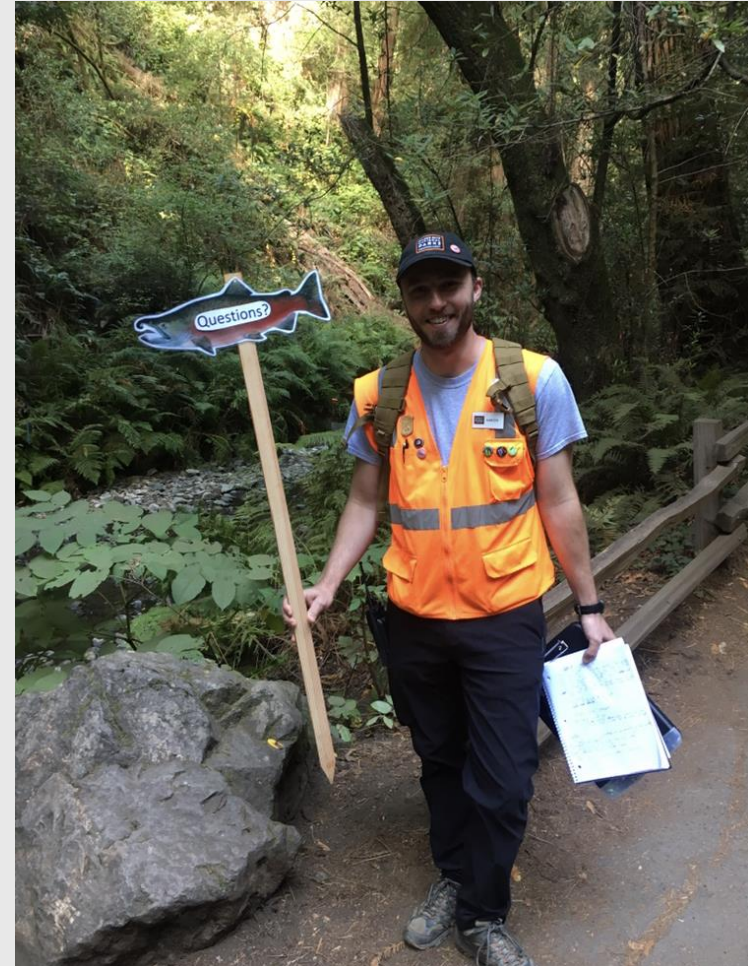
- ✓ Manage peak visitation periods
- ✓ Improve visitor experience
- ✓ Reduce safety hazards
- ✓ Reduce impact on natural resources
- ✓ Reduce impact on local community

Redwood Renewal: Salmon Habitat Enhancement

Summer-Fall 2019:
Phase 1 complete



Redwood Renewal: Salmon Habitat Enhancement



Redwood Renewal: Water / Wastewater



Redwood Renewal: Bridge Replacement



Summer 2020:
Construct Bridges 2 & 3

Summer 2021:
Construct Bridges 1 & 4

Federal Lands Access Program (FLAP)



- Grant to reconstruct 2.48 miles of Frank Valley Road from the Muir Woods National Monument entrance to State Route 1 managed by the Federal Highway Administration
- Environmental review analysis until Fall 2020
- Project is at 30% Design
- Construction expected in 2022

Muir Woods National Monument is world renowned for its old-growth coastal redwoods, attracting over one million visitors per year. With the park's popularity come pressures on a fragile ecosystem that is home to more than 380 different plants and animals.

The National Park Service has begun a family of projects to ensure the preservation and health of Muir Woods for generations to come. These projects put in place critical infrastructure to protect and restore park resources and improve the safety and enjoyment of those who visit.

Every effort has been made to schedule work to reduce impacts to visitors and residents. We thank you for your patience as we carry out these important projects.

Parking and Shuttle Reservation System



2018 REQUIRED STARTING JANUARY 2018

Goal:

To create a parking and shuttle reservation system that protects park resources, manages visitor numbers, and improves the experiences of those who come here.

Project Highlights:

- A year-round reservation system for all vehicles and shuttle passengers arriving to Muir Woods National Monument.
- Make your reservation on GoMuirWoods.com.



Sustainable Access and Trails Project



2021-2023

Goal:

To protect resources and improve the experience of visitors by restoring habitats and by redesigning public spaces, trails, parking areas, and stormwater infrastructure.

Project Highlights:

- Provide a safe and accessible pedestrian route from all parking areas to the Woods.
- Redesign of the Entry Plaza to reduce impervious surface and enhance visitor experience.
- Construct a new Dipsea Trail pedestrian bridge and improve trail alignment as it crosses Redwood Creek trail and Muir Woods Road.



And More!

Many wonderful things are happening in the Woods, thanks to you!

Combined with other funding, your entrance fees are helping:

- improve popular trails
- restore the creek
- control invasive weeds
- relocate parking lots and restrooms out of sensitive wildlands
- expand year-round, eco-friendly public transportation services

2019

2020

2021

2022

2023



▼ Dates subject to change. For updates visit nps.gov/muwo

Salmon Habitat Enhancement and Bridge Replacement

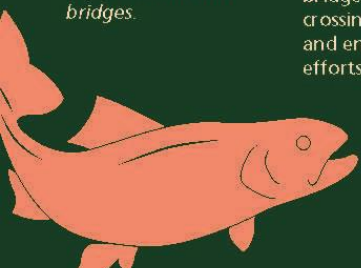
2019-2022

Goal:

To restore habitat for aquatic life, including the federally threatened coho salmon, and to improve trails and bridges.

Project Highlights:

- Remove engineered riprap (boulders) from the stream banks and reintroduce logs and other large woody debris to enhance aquatic habitat.
- Replace four aging pedestrian bridges to maintain accessible crossings, improve public safety, and enhance habitat restoration efforts.



Water/Wastewater Service Rehabilitation

2018-2020

Goal:

To rehabilitate aging service lines to increase the reliability of water and wastewater services for visitor and employee health and safety.

Project Highlights:

- Install new infrastructure to meet all modern code requirements for fire protection, flow demands, and potable water quality and storage.
- Replace and relocate a wastewater line out of the ecologically sensitive Redwood Creek corridor.



Muir Woods Road Improvements

2021

Goal:

To repair Muir Woods Road to enhance public safety and protect park resources.

Project Highlights:

- The Federal Highway Administration and County of Marin are working together to:
- Repair and repave the road between California Highway 1 and Muir Woods National Monument.
 - Upgrade drainage to better address storm water pollution.
 - Replace the Muir Woods Road Bridge over Redwood Creek.



What You'll Experience

- Repairs to the beloved Dipsea, Redwood Creek, and Canopy View trails.
- Infrastructure that better protects the redwood forest, creek, and wildlife.
- Less time fighting traffic and looking for parking: **more time in the woods!**
- Smaller crowds and a more personal forest experience.
- Opportunities to see restoration and science in action.