Ebike Community Advisory Committee

Meeting #6



February 11, 2020

Marin Municipal Water District Watershed Lands

MMWD's enacting legislation under <u>Municipal</u> <u>Water District Law of 1911</u> provides the district with authority to provide water services to Marin County residence.

Watershed Lands:

- 21,000 acres
- 7 Water storage reservoirs
- 79,566 acre-feet of storage

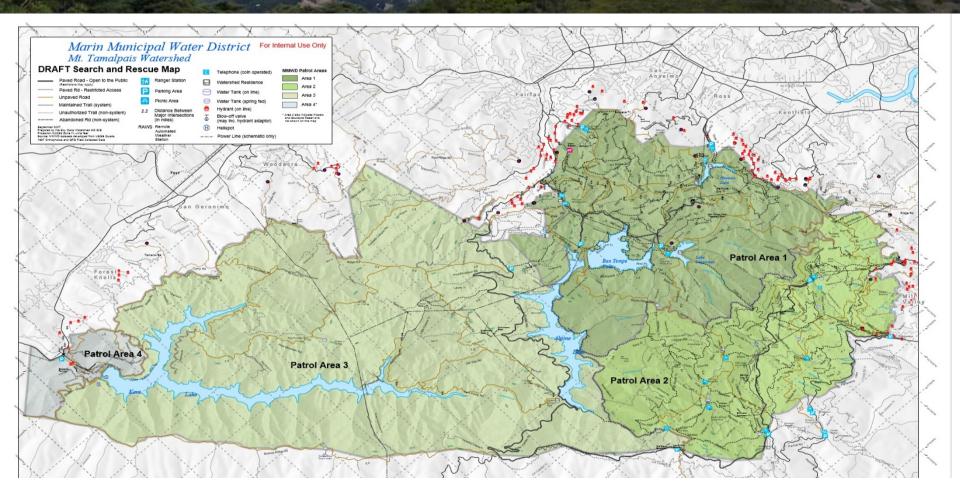
Watershed Facilities:

- 92 miles of service roads
- 60 miles of trails
- 8 picnic grounds





Watershed Patrol Zone Map





Mt. Tamalpais Elevation 2,572

Bikes on Service Roads







Impacts of Bikes on Service Roads







Impacts of Bikes on Service Roads





System & Non-System Trails

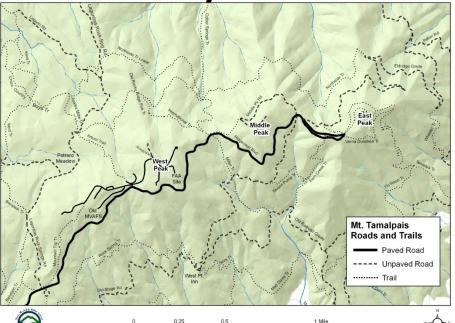
System Trail

A trail recognized by MMWD as legitimate and maintained by MMWD staff taking into account the ecological ramifications for continued use in the area

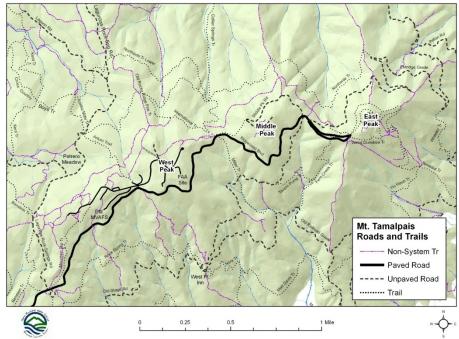
Non-System Trail

An unsanctioned "social" trail that was created through continued use and/or trailbuilding tools

60 miles of system trails



70 miles non-system trails



Bicyclist Illegal Trail Usage

System and Non-System Trails

WDO 9.04.02(a): Bicycles

 No person shall possess or operate any bicycle or similar vehicle on district lands except upon public roads, parking lots, or protection roads not signed against such use; Use may be restricted or prohibited on any or all roads at the district's discretion.









Bicyclist Illegal Usage of System Trails





Bicyclist Illegal Usage of Non-System Trails





Bicyclist Illegal Usage of Non-System Trails





Impacts of Bikes on the Watershed

- Habitat Fragmentation
- Trampling of native plants and sensitive habitats
- Compaction of Soils
- Trail erosion and incision
- Water quality impacts due to sedimentation that can impact aquatic habitat (routes through streams)
- Disturbances to wildlife through ongoing usage
- Pathway for invasive plants
- As non-system trails become more visible there is an increase in usage and impacts





Impacts of Bikes on the Watershed

- Off hour usage of watershed by cyclist
- Large unsanctioned group rides
- Excessive speed by cyclist on services roads, trails and nonsystem trails
- Vandalism of enforcement signs (not bike signs removed or damaged)
- User conflicts associated with illegal trail usage





Project Restore

Project Restore

Is an effort by MMWD to restore natural habitat by removing environmentally damaging trails on the Mt. Tamalpais Watershed.

- 1. Area is closed
- 2. Trail decommission and restoration of area
- 3. Monitoring and Patrol







MAKING HABITATS WHOLE AGAIN

This year "Project Restore" will be near Eldridge Grade and Tucker Trail (see map). The main objectives are to:

- 1) decommission non-system trails through sensitive habitats:
- 2) eliminate hazardous trails,
- 3) minimize erosion.

You can help by respecting the closures so the restored areas will be able to flourish. Please make use of the 150 miles of roads and trails on the Watershed designated and maintained for your use.

For more information, please contact Sky Oaks Watershed Headquarters at (415) 945-1190 or watershed@marinwater.org

Project Restore - Mt. Tamalpais Watershed set the Mr. Tamalpais Watershed Road and Trail Management Plan



HOW TRAILS CAN DAMAGE THE WATERSHED

The Mount Tamalpais Road and Trail Plan identified over 50 miles of unofficial trails on Watershed lands. Unauthorized trails have continued to expand, which Project Restore aims to control. These trails are undesirable for many reasons:

- •Fragmentation of native habitat and disruption of wildlife populations
- Increased erosion
 Negative impacts on sensitive habitats such as
- wetlands and creek corridors
- Provides pathways for invasive weeds to penetrate
 native wildlands
- ·Damages scenic beauty

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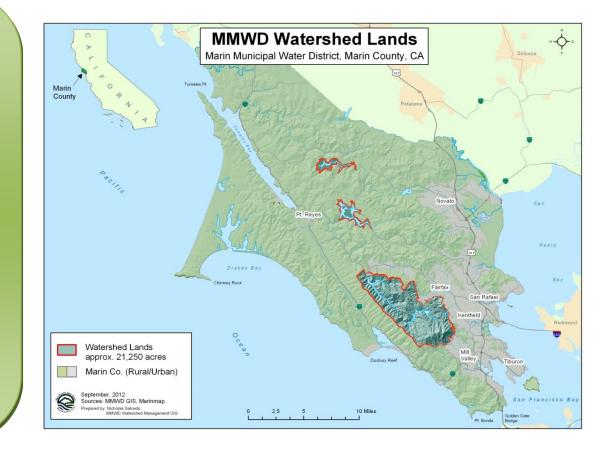
- •Increase risk of trail users getting lost because of unclear trail routes
- For more information, please see the Road and Trail plan on the web: www.marinwater.org



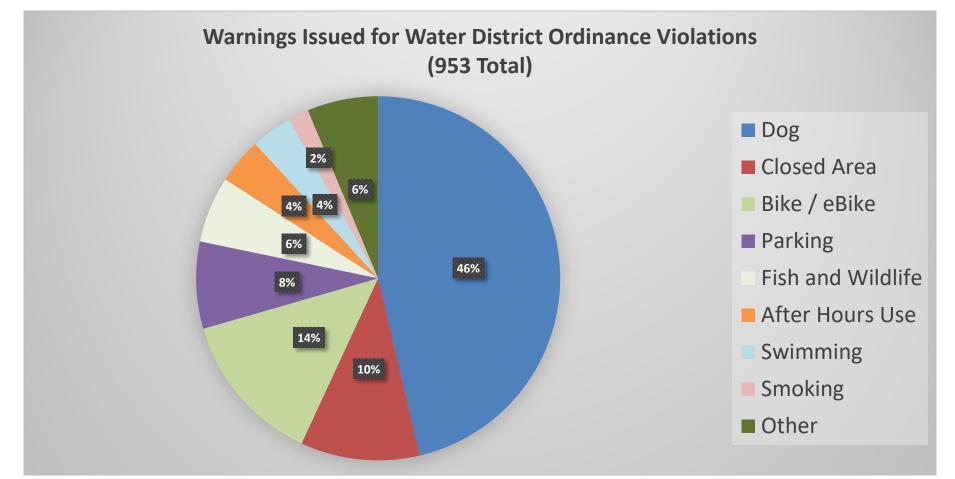
Watershed Protection Staff & District Watershed Lands

Patrol Staff:

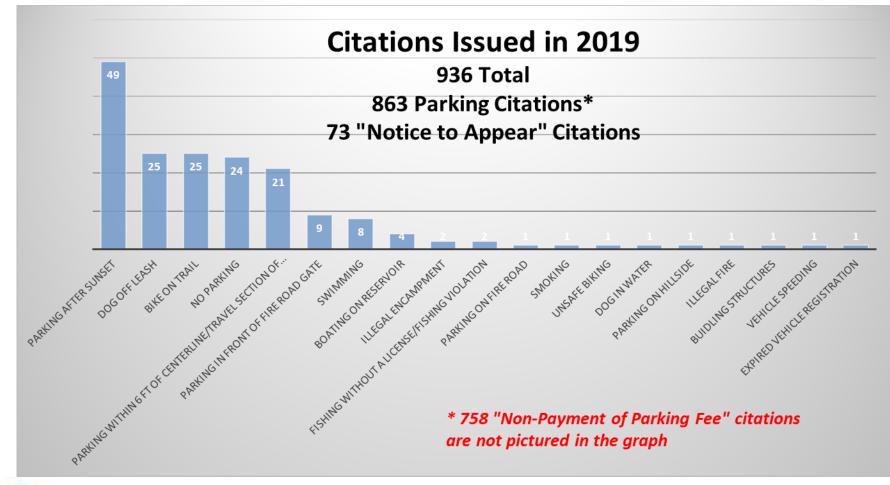
- Seven Rangers (6 rangers & 1 deputy)
- Operational periods (sunrise to sunset) varies from 11 hours in the winter to 15 hours in the summer
- Average of 4 Ranger staff on duty during operational hours









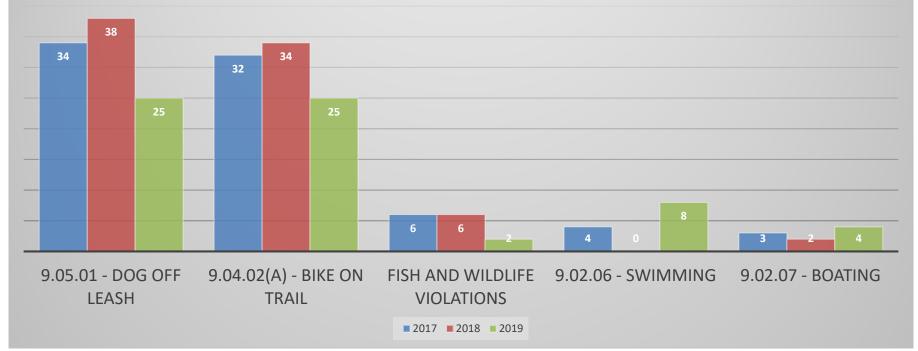




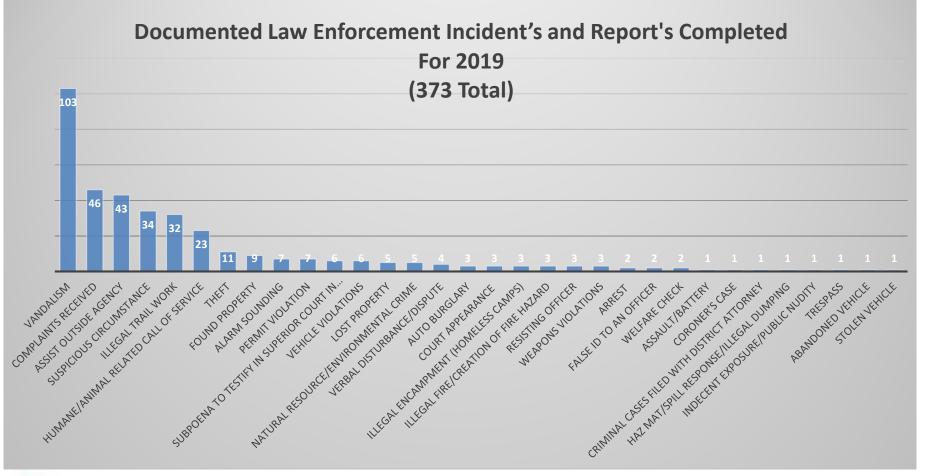
Violation	Fine
Dog Off Leash	\$158
Bike On Trail	\$158
2nd Violation (Bike on Trail & Dog Off Leash)	\$773
Closed Area	\$158
Swimming	\$158
Fishing Without a License	\$485
Boating	\$158
Revocation of Privileges	\$773
Parking After Sunset	\$50
Parking Prohibited 6' of Center	\$100
Park within Posted "No Parking" Areas	\$53





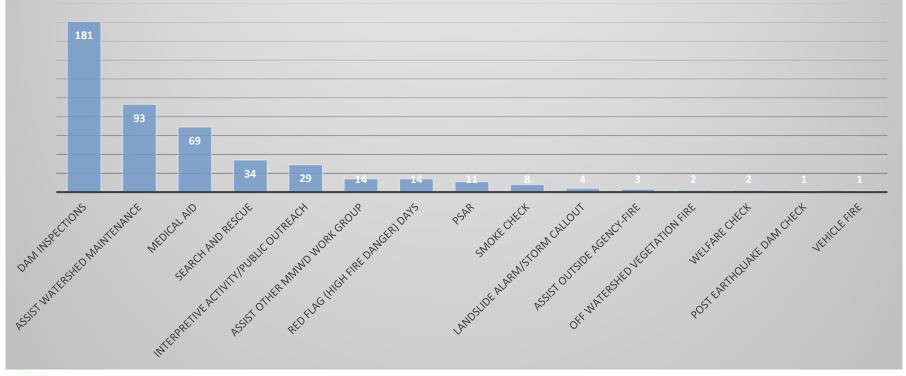






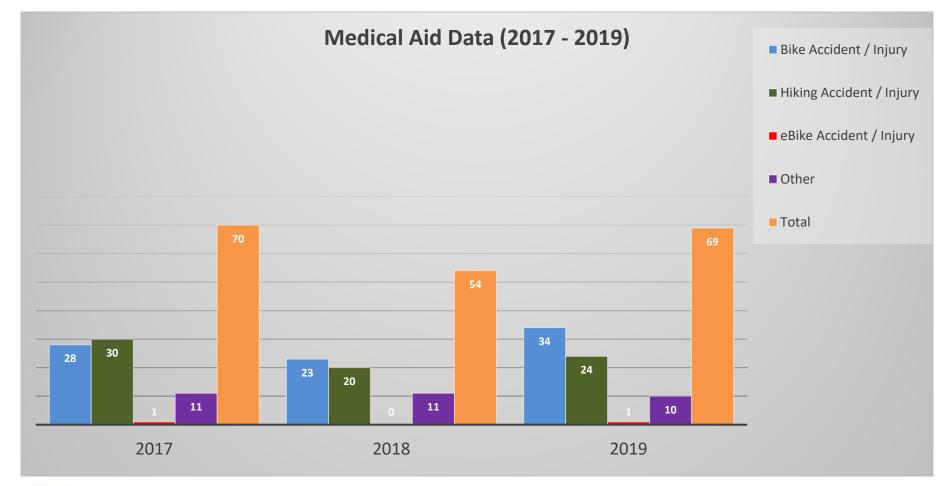


Additional Ranger "Call's For Service" 2019 (466 Total)





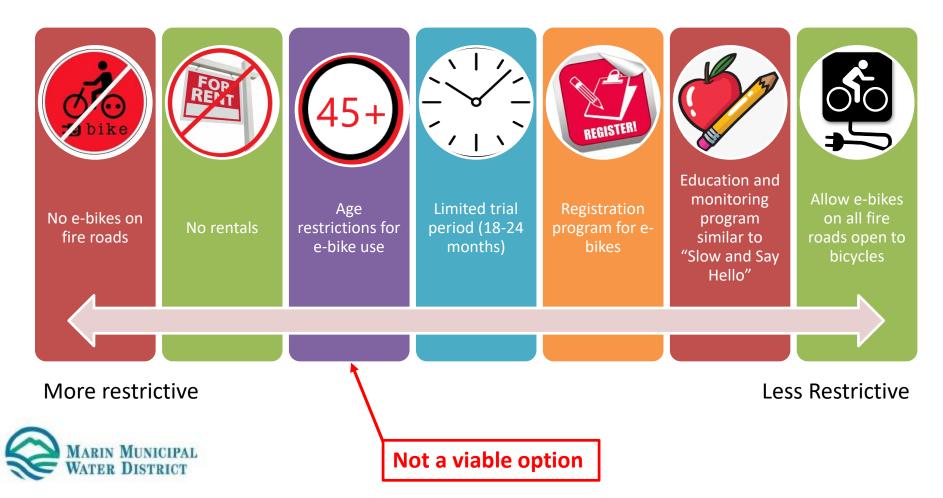
MMWD Ranger Response to Medical Aid Overview





CAC Member Recommendations

Summary of ideas suggested by E-Bike CAC representatives



CAC Member Recommendations (cont.)

- Other observations:
 - Support or opposition to E-bikes is equally divided among CAC members
 - Information on unique impacts to fire roads by E-bikes vs regular bikes is inconclusive. Responses highlight anecdotal information and personal observation
- Recommendations were generally similar to December 2018 MMWD public workshop input including:
 - Distance into watershed travelled by e-bikes
 - Fire danger
 - Concerns regarding rapidly expanding rental market



Potential Range of Alternatives

Stronger strategic enforcement	Education and etiquette outreach program	Allow e-bikes on all roads currently open to bicycles
Limit access to specific fire roads	Fee based registration for e-bikes	Monitoring for impacts
No e-bikes allowed on MMWD lands	Prohibit e-bike rentals	Fire risk reduction (sand buckets, water station, education)

