

# Bootjack Lake

**Surface Area: 35.4 acres**

**Maximum Depth: 52 feet (15.8 meters)**

**Shoreline Length: 9,615 feet (1.82 miles)**

**Elevation: 3,198 feet (975 meters)**

## GENERAL INFORMATION

Bootjack Lake is located in Flathead County ten miles west of Whitefish. There is one primitive non-motorized public access site that requires a short walk to the lake. Access to the lake is open from April 1<sup>st</sup> - November 30<sup>th</sup>.

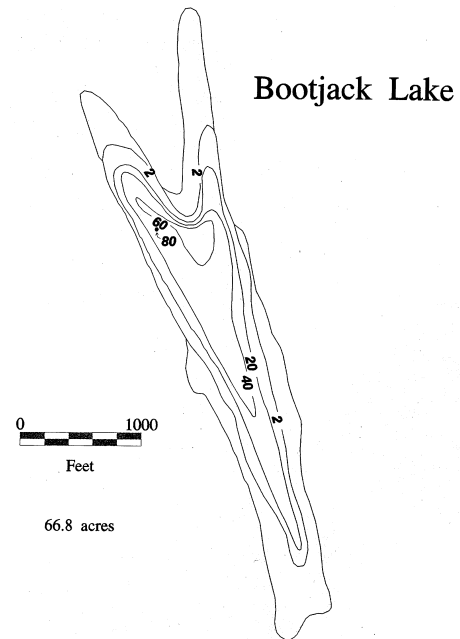


## FISHERIES INFORMATION

Fish stocking records indicate a presence of cutthroat trout, rainbow trout, and westslope cutthroat trout. The only native fish recorded is the redbside shiner. Bootjack Lake is stocked annually with rainbow trout. For more information see: <https://fwp.mt.gov/fish/stocking.html>

## ADDITIONAL INFORMATION

- Current NMLN citizen volunteers include: Joe Redinger



Location: 48.42409 N, 114.49809 W

## LAKE METRICS SUMMARY AND SCORES

| Metric                                      | Score              | Description   |
|---|--------------------|---|
| Cold-water fish habitat                     | High               | Temperature and oxygen profiles show that Bootjack Lake was stratified during all summer sampling dates. Temperature profiles indicate the lake has been within the avoidance threshold range for salmonids at depths of up to 5 meters during July and August. Oxygen profiles suggest that Bootjack Lake has been between avoidance and anoxic concentration thresholds for salmonids at depths greater than 10 meters. Depth profiles suggest that the ideal depth for salmonid habitation during summer months is between 5-9 meters. |
| Nutrient Levels                             | High               | Bootjack Lake often ranks among the highest of small lakes for total phosphorus, total nitrogen, and chlorophyll ( <i>a</i> ).  |
| Nutrient Trend                              | consistent         | No trend is apparent  |
| Trophic Status                              | Oligo-meso-trophic | Carlson's Trophic Index trend shows Bootjack consistently oligo-mesotrophic.  |
| Dreissenid Colonization Potential (Calcium) | High               | The lake's 2106 average calcium concentration was 34.3mg/L classifying it as a high risk for zebra mussel colonization.   |
| Known AIS infestations                      | None               | Bootjack Lake was surveyed for EWM 2011-2014 because of its relatively close proximity to Beaver Lake. Large plots of northern milfoil were found in the littoral zone; however, no EWM was discovered.   |

