

Foys Lake

Surface Area: 241 acres
Maximum Depth: 134 feet (40.9 meters)
Drainage Size: 1,836 acres
Shoreline Length: 16,458 feet (3.12 miles)
Elevation: 3301 feet (1006 meters)

GENERAL INFORMATION

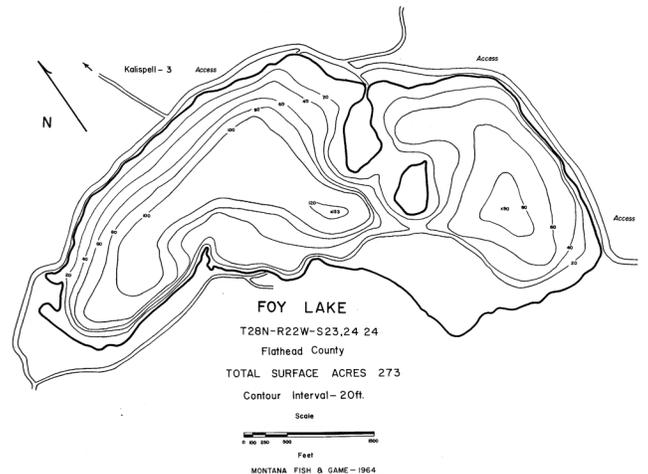
Foys Lake is located three miles southwest of Kalispell in Flathead County. The lake is surrounded entirely by private land ownership. Foys Lake has one motorized public access site located on the southeast end of the lake. The basin area is dominated by the Piegan group belt series (86%) of the Salish Mountains with the remainder composed of glacial till (Ellis & Craft, 2008).

FISHERIES INFORMATION

Fish distribution records indicate a presence of arctic grayling, kokanee, rainbow trout and reaside shiner. For more information see: <https://fwp.mt.gov/fish/stocking.html>

ADDITIONAL INFORMATION

- Current NMLN citizen volunteers include:
Needed



Location: 48.16738 N, 114.36279



Volunteer Allen Gustafson prepares to collect a winter hydrolab profile below the ice on Foys Lake.

LAKE METRICS SUMMARY AND SCORES

Metric	Score	Description
Cold-water fish habitat	High	Temperature and oxygen profiles show that Foy's Lake was stratified during summer sampling. The temperature profile indicate that Foy's Lake was within the avoidance threshold range for salmonids at a depth of 7 meters during August. Oxygen profiles shows that the lake was between avoidance and anoxic concentration thresholds for salmonids at a depth greater than 17 meters. When anoxic conditions occur at the benthic interface an oxidation reduction potential exists and nutrients stored in the sediment can be liberated back into the water column given the right conditions. Depth profiles suggest that the ideal depth for salmonid habitation during summer months is between 8-15 meters.
Nutrient Levels	High	Foy's Lake often ranks high for medium lakes for total phosphorus, total nitrogen, and chlorophyll (<i>a</i>).
Nutrient Trend	Consistent	No nutrient trend is apparent.
Trophic Status	Meso-trophic	Carlson's Trophic Index trend shows Foy's Lake is consistently mesotrophic.
Dreissenid Colonization Potential (Calcium)	Low	The lake's 2010, 2011, and 2016 average calcium concentration was 3.8mg/L classifying it as a very low risk for zebra mussel colonization. The 2012 alkalinity level was reported at 700mg/L.
Known AIS infestations	None	

