

Tilley “B” Reservoir

Recreational Fisheries Management Objectives

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Waterbody ID: 3857	Surface Area: 1416 (Ha)	Hydrologic Unit Code Name (HUC_8): Tilley "B" Reservoir	Hydrologic Unit Code (HUC_8): 04021302
Sport Fish Species: Northern Pike, Yellow Perch, Lake Whitefish, Burbot			
Indigenous Fishery: Yes			
Environment and Parks Region: South Saskatchewan Region		Fisheries Management Zone: Parkland Prairie 1 (PP1)	Fisheries Management Office: Lethbridge

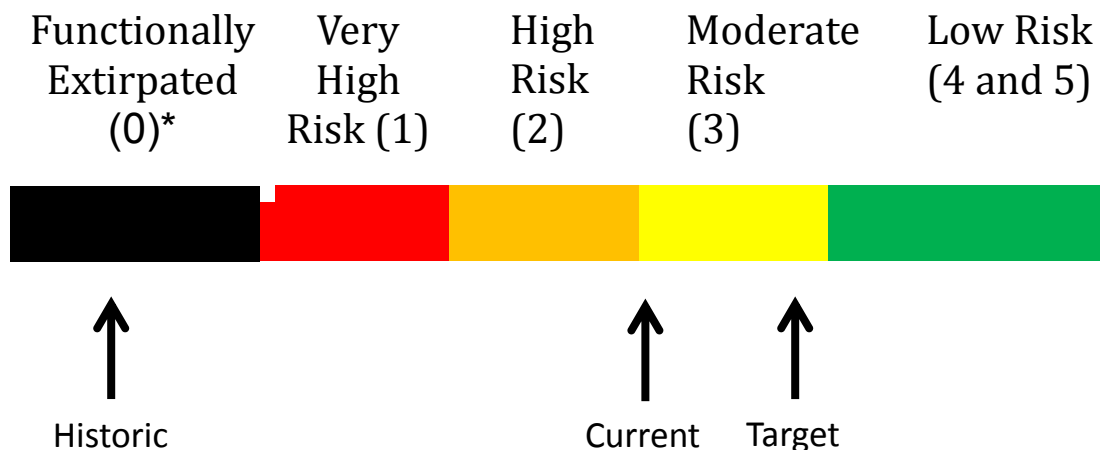
Background

Tilley “B” Reservoir is located approximately 17 km east of Brooks (90km northwest of Medicine Hat). It supports a sport fishery for Northern pike that likely receives moderate to high angling pressure due to proximity to major population centers. Other species (Yellow Perch, Lake Whitefish, and Burbot) also support a sport fishery at this location. In addition, Tilley “B” Reservoir historically sustained a commercial fishery for Lake Whitefish.

Section 1. Fish Population Status

Northern Pike – Adult Abundance

Fish Sustainable Index Adult Density Score



*Northern Pike were not historically found at this location

Yellow Perch – Adult Abundance – Undetermined (current sampling methodology does not address this species)

Lake Whitefish – Adult Abundance – Undetermined (current sampling methodology does not address this species)

Section 2. Recreational Fishery Management Objectives and Management Summary

The **focal species** for recreational management is **Northern pike**. The secondary species managed for recreational objectives are Yellow Perch, Lake Whitefish, and Burbot. These sport fisheries are not assessed at intervals, and therefore are passively managed. The **Overharvest Protection Need** is assessed as **(1) Very High**.

Northern Pike – The recreational fishery management objective for Northern Pike is **Sustainable Harvest**. The corresponding FSI score for the current mature density of Northern Pike was determined to be **(3) Moderate Risk** to sustainability. However, this historic FSI ranking is not based upon sampling. Biologists are not able to sample Tilley B Reservoir due to migratory bird concerns although, recent (2017) sampling of adjacent waterbodies (Cowoki) have shown that northern pike populations are at a high to very high risk to sustainability. The required management action is to maintain this outcome is a **Catch and Release** regulation.

Yellow Perch – The recreational fishery management objective being applied is the provincial default (**Sustainable Harvest**). The status of the Yellow Perch population has not been assessed. The current management action is a regulation of **15 Yellow Perch**, any size.

Lake Whitefish – The recreational fishery management objective being applied is the provincial default (**Sustainable Harvest**). The status of the Yellow Perch population has not been assessed. The current management action is a regulation of **10 Lake Whitefish**, any size.

Management Summary

Management Priority	Species	Overharvest Protection Need	Management Action	Sport Fishing Harvest Regulation
1	Northern Pike	(1) Very High	Recovery	<ul style="list-style-type: none"> 3 > 63cm (2017-18) Catch and Release (Implementation April 1st, 2018-19)
2	Lake Whitefish	(1) Very High	Maintenance – Sustainable Harvest	10 any size
3	Yellow Perch*	(1) Very High	Maintenance – Sustainable Harvest	15 any size

*Recreational management objectives for Lake Whitefish, Yellow Perch, and Burbot have not been fully developed into management frameworks, and will be subject to change pending on-going work and development. However, general action statements have been listed for these species within the context of relative abundance, catch rates and trends associated with index netting assessments, in relation to the management of these species at a provincial level.