

*Natural. Valued. Protected.*

Lake Fact Sheet – Parry Sound District

# Livingstone Lake

Location	
<i>Official Name:</i> ..... Livingstone Lake	<i>Local Names:</i> ..... Round Lake
<i>County/District:</i> ..... Haliburton	<i>Geographic Twp:</i> .....Livingstone
<i>Municipality:</i> ...Township of Algonquin Highlands	<i>MNR Admin. Area:</i> ..... Bracebridge
<i>Lat./Long:</i> ..... 45.3594 N 78.7192 W	<i>UTM (NAD83):</i> .....17 678642 5025195
<i>Topographic Map (1:50,000):</i> .....31E07	<i>Drainage Basin:</i> .....Hollow River

Physical Features		
<i>Surface Area (ha):</i> .....194	<i>Maximum Depth (m):</i> .....37	<i>Mean Depth (m):</i> .....14
<i>Elevation (m asl):</i> .....378	<i>Perimeter (km):</i> .....8.9	<i>Island Shoreline (km):</i> .....0
<i>Volume (10<sup>4</sup> m<sup>3</sup>):</i> .....2568	<i>Watershed (km<sup>2</sup>):</i> .....45 (excludes area of lake)	<i>Water Clarity (m):</i> ..... 3.6

Land Use and Development	
<i>Crown Land (%):</i> ..... 30	<i>Provincial Parks:</i> ..... none
<i>Shoreline Development:</i> ..... low; commercial resort, shoreline residential	
<i>Access:</i> ..... public; unimproved gravel launch with limited day-use parking	
<i>Water Level Management:</i> .....regulated; water level is controlled by MNR-owned and operated dam at .....Livingstone Creek. Flows and levels are governed by the .....Muskoka River Water Management Plan.	

Fish Species
<i>Major Fish Species:</i> .....smallmouth bass (I), lake trout (I), brook trout (R)
<i>Other Fish Species:</i> .....rainbow smelt (I 1968), creek chub, white sucker, finescale dace, bluntnose minnow, ..... pearl dace, common shiner, blacknose shiner, northern redbelly dace, pumpkinseed, lake chub, ..... yellow perch,
<i>Other Species:</i> .....spiny water flea (I 2005), freshwater jellyfish (I 2000)

Notes: E: extirpated, I: introduced – intentional or accidental, O: occasional, R: remnant, S: currently stocked, ?: status uncertain, 2009: year of first record or introduction if known, blank: presumed native

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### Fisheries Management

<i>Fisheries Management Zone:</i> .....	15
<i>Designation for Lake Trout Management:</i> .....	designated; natural reproduction; at development capacity
<i>Fishing Regulation Exceptions:</i> .....	only one line may be used when angling through the ice ..... lake trout- none between 40-55cm (15.7-21.7 in.)
<i>Current Stocking:</i> .....	not currently stocked
<i>Historic Stocking (last year stocked):</i> .....	brook trout (1991), lake trout (1995)
<i>Contaminants (species tested):</i> .....	lake trout
<i>Assessment:</i>	Completed Projects:
	1978 lake trout assessment
	1978 contamination sampling
	1979 lake survey
	1985 lake trout spawning shoal assessment
	1985-93 volunteer creel survey
	1992 brook trout stocking assessment
	1997 Spring Littoral Index Netting (lake trout population assessment)
	2009 Summer Profundal Index Netting (lake trout population assessment)
	2011 lake trout egg survey
	Temperature/dissolved oxygen profiles are collected on a regular basis

### Synopsis

A 1959 biological report indicated that the original sport fish species in the lake was brook trout. Livingstone Lake was first stocked with lake trout in 1968. Several lake trout were netted during the lake survey in 1971. The lake was heavily stocked with lake trout through the 70's and 80's. Netting assessment conducted in 1992 to assess the planting of clipped brook trout in 1991, captured 6 lake trout less than 700 grams (mean wt. = 300 grams), of which four were unclipped. This was evidence that successful natural reproduction was occurring. As a result stocking was discontinued after the 1995 plant. A conservative size limit was regulated at the same time to protect the reproducing population.

The SLIN program in 1997 caught 21 lake trout, of which 3 were unclipped. At that time hatchery fish still dominated the population. SPIN netting in 2009 caught four lake trout and one brook trout, all of natural origin. This indicated that a viable, albeit small, population of lake trout was being sustained.

In 2010 and 2011 night time shoreline cruises were done to try to locate spawning lake trout. These efforts were unsuccessful. In 2011 snorkelling was done and deposited lake trout eggs were found in two locations. These surveys found that there appears to be adequate spawning habitat for lake trout.

Brook trout have been severely marginalized as a result of competition with non-native species, primarily smallmouth bass. Their continued persistence in the lake is probably largely due to immigration from Livingstone Creek.

Updated: 2011

Refer to Lake Fact Background Information document for explanation of content.

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