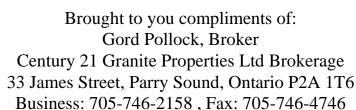
# Century 21.

#### PARRY SOUND AREA LAKE SUMMARIES



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### Issabella Lake

Created: October 03 Revised:

**Location:** 

MNR District:Parry SoundGeographic Township:ChristieMunicipal Township:Seguin

Watershed: .....

#### **Basin and Terrain Characteristics:**

Surface Area:178.9 hectaresMaximum Depth:14.6 metersMean Depth:5.9 metersPerimeter:11.9 kmIsland shoreline:2.1 kmLittoral Zone:65%Thermal Regime:Cool

**Shoreline Development:** ...... 60 Cottages (1974) **Access Points:** ...... Road (Public)

Water Level: ..... Regulated – Influenced by control dams

**Crown Land:** ...... 0% shoreline

#### Water Quality:

(Parameters pertain to fisheries habitat only. For information on potability of water or contaminates, contact Min. of Health and Min. of Environment.)

**Secchi reading:** 3.1 meters **Colour:** Yellow/Brown

**Dissolved Oxygen:** 

Alkalinity: 20.5 – Level 3 Moderately Sensitive (MoE, 1989)

pH: 6.0 **Total Phosphorus: M.E.I.:** 3.5

"Guide to eating fish": Restrictions for Walleye and Northern Pike refer to the "Guide to Eating Ontario Sport Fish".

#### Fisheries:

Game Fish Species: Northern Pike (1971), Smallmouth Bass (1984), Yellow Perch (1984), Walleye (1987), Largemouth Bass (1983), Lake Trout (1981, Anecdotal)\*, Rainbow Trout (2000)

\* - Most likely flushed from Little Seguin (Duck) Lake

Other species present: Whitefish, Cisco, Rainbow Smelt (1983), White Sucker (1984), Log Perch (1983), Rock Bass (1984), Pumpkinseed (1984), Brown Bullhead (1984)

Exotic Species: Spiny Water flea (1993)

**Stocking Record:** 2000 Rainbow Trout 2,000 8 to 10 inch

1995 Walleye 14,053 5 month fingerling 1988 Walleye 10,370 3 month fingerling 1979 Walleye 2,000,000 eyed eggs 1957 Smallmouth Bass 300 fingerling 1955 Walleye 150,000 eyed eggs 1955 Smallmouth Bass 200 fingerling 1953 Smallmouth Bass 400 fingerling 1953 Walleye 300,000 eyed eggs 1952 Walleye 200,000 eyed eggs 1951 Smallmouth Bass 5,000 fry 1951 Walleye 200,000 eyed eggs 1950 Smallmouth Bass 400 fingerling 1949 Walleye 200,000 eyed eggs

1948 Walleye 200,000 fry 1947 Walleye 210,000 fry

1944 Walleye 200,000 eyed eggs

1943 Walleye 100,000 fry 1941 Walleye 100,000 fry 1941 Smallmouth Bass 5.000 frv 1940 Walleye 300,000 fry

1939 Smallmouth Bass 5,000 fry

1939 Walleye 300,000 fry

Stress Type: Invasive species, Water Draw-down

**Use Type:** Recreation, Recreational Fishing, Community Fishery

#### **Summary of Fisheries Studies / Reports:**

#### McIntyre, E. 2001 Parry Sound Area 2001 Fall Walleye Index Netting (FWIN) Interim Report

• In comparison to other sampled Parry Sound lakes, Isabella has a low abundance of Walleye, a average abundance of Northern Pike and a high abundance of Smallmouth Bass

#### Blythe and Associates 1998 Synoptic Trapnet Survey

- White sucker represented the largest percentage of biomass caught (38.4%) followed by smallmouth bass (27.4%), Northern pike (23.6 %), Rock Bass (4.0%), Walleye (3.4%), Brown Bullhead (2.7%) and Pumpkinseed (0.32%).
- Northern Pike, Rainbow Smelt, Yellow Perch and Rock Bass introductions likely impacting walleye populations.
- Report author recommends discontinuing walleye stocking, consider managing as a smallmouth bass and northern pike fishery, consider a lake stewardship program to address nutrient loading and reassess lake in 5 to 7 years.

#### Furchner, B. 1984 Isabella Lake Electroshocking Report

- Electroshocking was conducted along the near-shoreline covering approximately 70% of the total shoreline.
- No walleye were captured.
- Low oxygen levels observed below 8m in depth

#### Hoyle, J. 1983 Walleye Assessment

 Although walleye comprised the highest percentage of biomass caught an absence of younger fish may indicate a lack of spawning success.

## Kujula, K. H. 1981 **Pickerel History and Management** in Isabella Lake and the **Probable Influence of Acidification**

- Trapnetting indicated age classes from 4 to 13 are present in the lake indicating spawning successful spawning has occurred but abundance is low.
- The author attributes poor reproduction likely due the low PH in the spawning sites.
- Enhancement work to date has included silt removal, rubble and limestone placement and lowering of the spawning beds.

#### MNR Raw Data on File: Intensive Creel Survey 1963, 1972, 1977 & 1978

- 1978 2 man hours yielded 0 fish: pike sought
- $1977 \frac{1}{2}$  man hours yielded 0 fish: pike sought
- 1972 18 man hours yielded 0 fish: pickerel sought
- 1963 16 man hours yielded 8 pickerel & 1 smallmouth bass fish

<b>Management Prescription:</b>		
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