Assessment of F1 Splake - Torrence Lake

June 1986

Purpose:

To evaluate the growth and condition of F1 splake stocked in 1985 in Torrence Lake.

Methods:

Two stranded cotton gill nets consisting of 5 panels with a 1.8m (6 ft) depth and 30.5m (100 ft) lengths of the following mesh sizes 25mm (1 in); 38mm (1.5 in); 51mm (2.0 in); 64mm (2.5 in); and 76mm (3.0 in). The nets were set for 23.5 hours on June 9 and for 22.25 hours and 22.5 hours on June 10.

Results:

See Appendix I, Gill Net Catch Record Forms, for the fish caught per gill net section per set.

TABLE #1. Summarizes the catch from all sets.

Species	Smallmouth Bass	Yellow Perch	Common White Sucker	Rock Bass	Pumpkinseed	Smelt	Ling
Set #1	2	1	1	4	10	6	0
Set #2	1	11	0	19	6	0	3
Set #3	1	20	0	0	0	4	0
Set #4	2	2	0	28	7	20	3

Discussion:

Torrence Lake was stocked on May 1, 1985 with 2050 F1 splake (LNXLM) with a mean weight of 10.7 grams at an age of 17 months. This represents a stocking rate of 0.15 kg per hectare or 14 fish per hectare.

The fact that no splake were captured given a total of 458.75 100 ft gill net hours is not encouraging. Competition for food and predation from other fish species is probably responsible for the poor returns of splake. Unfortunately there is no creel information from anglers or the cottagers. Given the nil catch from the netting assessment future stocking should be curtailed until more creel or assessment data is available. A netting assessment should be conducted in the spring of 1987.

APPENDIX #1

GILL NET CATCH RECORD

LAKE: Torrence Lake		DEPTH OF SET: 2.2m to 16.2m	
DATE SET: June 9/86	TIME: 10:30	DATE LIFTED: June 10	TIME: 1000
SET NO: 1		NETTING TIME: 23.5 hours	

	MESH SIZE														
SPECIES	½"	¾"	1"	1½"	2"	2½"	3"	3½"	4"	4½"	5"	5½"	6"	6½"	TOTAL
Pumpkinseed			0	0	0	10	0								10
Rock Bass			0	0	0	4	0								4
CWS			0	0	0	1	0								1
Smallmouth Bass			0	0	0	1	1								2
Smelt			5	0	0	1	0								6
Yellow Perch			0	0	1	0	0								1

GILL NET CATCH RECORD

LAKE: Torrence Lake		DEPTH OF SET: 2m to 15.9m	
DATE SET: June 9/86	TIME: 11:00	DATE LIFTED: June 10	TIME: 1030
SET NO: 2		NETTING TIME: 23.5 hours	

	MESH SIZE														
SPECIES	½"	¾"	1"	1½"	2"	2½"	3"	3½"	4"	4½"	5"	5½"	6"	6½"	TOTAL
Yellow Perch				4	4	3	0								11
Ling				0	1	2	0								3
Rock Bass				2	9	8	0								19
PKS				2	3	1	0								5
Smallmouth Bass				0	1	0	0								1

GILL NET CATCH RECORD

LAKE: Torrence Lake		DEPTH OF SET: 2 - 12.5m	
DATE SET: June 10/86	TIME: 1130 hrs	DATE LIFTED: June 11	TIME: 9:45
SET NO: 3		NETTING TIME: 22.25 hours	

MESH SIZE

SPECIES	½"	¾"	1"	1½"	2"	2½"	3"	3½"	4"	4½"	5"	5½"	6"	6½"	TOTAL
Smallmouth Bass							1								1
Yellow Perch			14	2	4										20
Rainbow Smelt			4												4

GILL NET CATCH RECORD

LAKE: Torrence Lake		DEPTH OF SET: 2 - 11m	
DATE SET: June 10/86	TIME: 1200	DATE LIFTED: June 11	TIME: 1030
SET NO: 4		NETTING TIME: 22.5 hours	

	MESH SIZE														
SPECIES	½"	¾"	1"	1½"	2"	2½"	3"	3½"	4"	4½"	5"	5½"	6"	6½"	TOTAL
Ling			1	0	0	2	0								3
Smallmouth Bass			0	0	0	2	0								2
Smelt			17	0	0	3	0								20
Rock Bass			0	0	23	5	0								28
Pumpkinseed			0	0	0	7	0								7