ALASKA DEPARTMENT OF FISH AND GAME
DIVISION OF SPORT FISH
LAKE SURVEY SUMMARY

LAKE Tolsona

MAP REF. Gulkana A-5 T 4W R 5W S 24 LAT. 62° 7" LONG. 146° 4"

LOC. Mile 170, Glenn Highway SURF. ELEV. 2050

1. SURF. ACRES 320 MAX. DEPTH 14' AVG. DEPTH ACRE FT.
SHOAL AREA 100% WATER COLOR Lt. Brn. Stain SECCHI READING
AQUATIC VEGETATION

2. FISH SPECIES: NATIVE Grayling, suckers, Burbot INTRODUCED ~~None~~ Rb, SS

3. FISHING HISTORY ~~Little pressure~~ good for GR & Burbot

4. INVERTEBRATES

5. INLETS 1-permanent from Moose Lake 5 x 1 - Bessie Cr. DISCHARGE less than 2 cfs
DISCHARGE cfs
DISCHARGE cfs
BARRIERS

6. OUTLETS Northwest side of lake, into Tolsona Creek DISCHARGE cfs
DISCHARGE cfs
BARRIERS ~~Culvert in outlet is not right size~~ Screen at outlet

7. SPAWNING AREAS Good in inlet and outlet

8. WATERSHED TYPE DRAINAGE AREA ACRES

9. ACCESSIBILITY Good all-weather road at Mile 170.

10. ACCESS STATUS 1960 - Signed access by owners

11. USE SITE Semi-private FACILITIES Tolsean Lodge

12. OTHER USE None

13. POLLUTION Unknown

14. REMARKS Tolsona Creek: inlet (Bessie Cr.) used for grayling
299 lake 1965, 66, & 67.

BY DATE 7/13/60

FG-206 2/69

Gulkana (A-5)

169

ALASKA DEPARTMENT OF FISH AND GAME
Sport Fish Division

Lake Survey Form

Lake Tolsona Lake Sec. A-24, Twp. 4N, Rge. 5W, Lat. 62-4 N., Long. 145-7 W.

Acreage 270 S/A Max. Depth 14' Altitude 2050

Location Mile 170 Glenn Highway Water Color (clear, silty) light brown stain

Type of Bottom muck, gravel

Inlets (name, size, permanency) Permanent inlet from Moose Lake, 5X1

Benchmark (Description) none

Outlet (size, immediate and main drainage) northwest side of lake, flows into Tolsona Creek

Barriers the culvert in the outlet is not of the right size or grade. Needs to be replaced

Use (Private, public, semiprivate) semi-private

Public Access Site yes, filed in 1960

Facilities (Campground, roadhouse, etc.) Tolsona Lodge, boats for both lakes, cabins, gas, float plane service

Native Fish Species grayling and suckers, CB

Introduced Species none

Spawning Grounds good in inlet and outlet for grayling

Fishing History Was very good grayling fishing at one time. About 1951 a new inlet and outlet to Moose Lake was created, and since fishing has steadily dropped off to the point where few fish-ermen use the lake at all.

Other Uses

Fish Losses none

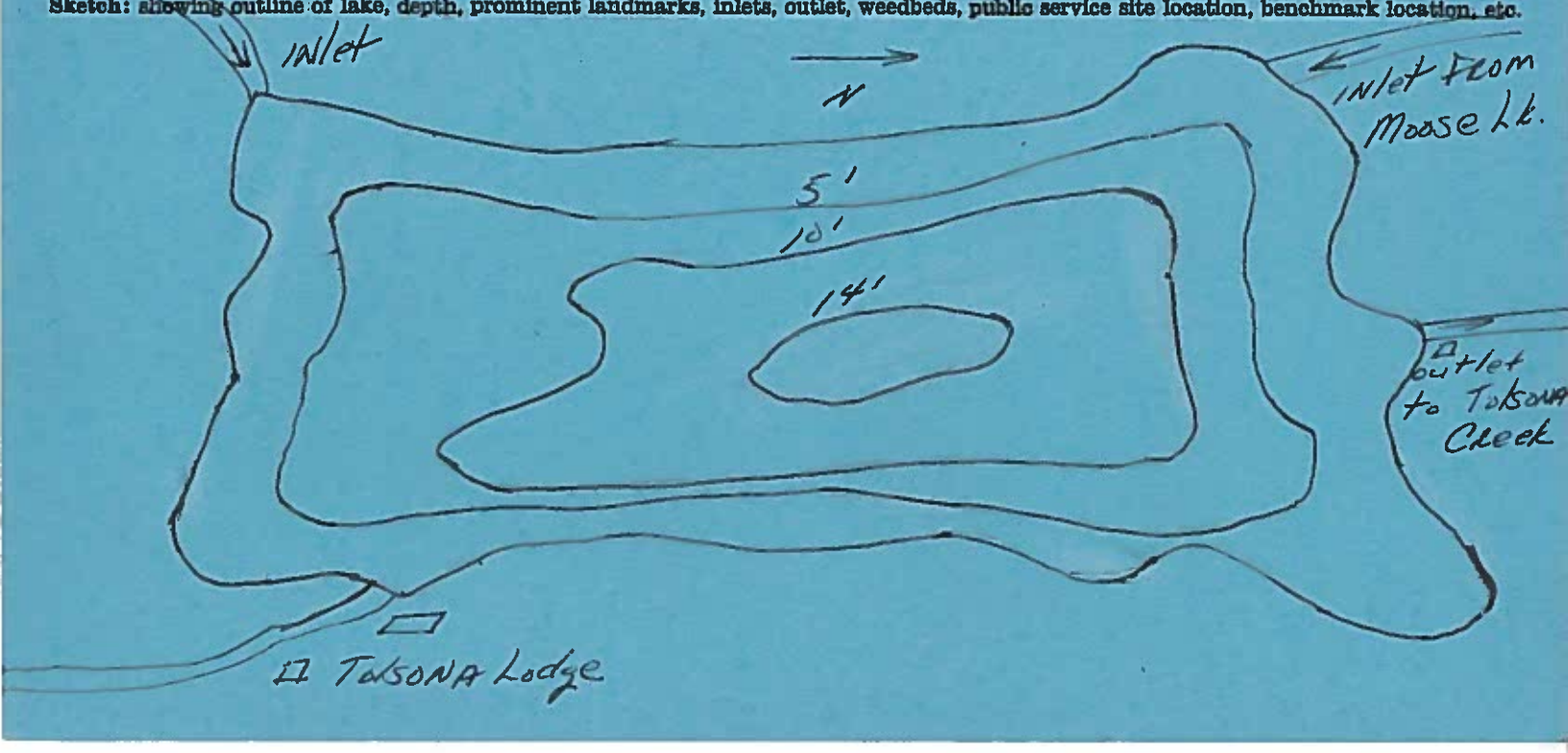
Character and size of watershed quite extensive; Moose Lake and several lakes lie in the watershed

Remarks A new culvert will be obtained if possible from the dept. of public works and installed this spring to elevate the grayling blockage from the lake.

(over)

Description of accessibility (how reached) At mile 170 on the Glenn hwy. A very good all-weather road leads to Tolsona Lake Lodge and the lake. This road has been obtained for sport fish usage under an access agreement in 1960

Sketch: showing outline of lake, depth, prominent landmarks, inlets, outlet, weedbeds, public service site location, benchmark location, etc.



ALASKA DEPARTMENT OF FISH AND GAME
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SUPPLEMENTAL DATA

NAME Tolsona

LOCATION

2/26/81 outlet just trickel

2/5/83 Oulet snow drifted, covered but can hear good flow, No noticable flow in Bessie crk.

6/4/83 - Numerious 12"-15" RT. observed @ chet: Bessie cabin shore line, while I was planting GR.

9-23-86 surface LK. Temp 38°, Very Windy.

Sept, 86 while BB hoop trapping two RT were captured
1.) 563 (22")
2.) 433 (17")

OCT, 86 BB crew recap of BB rough Peterson pop. est. range of BB pop from 2,956 to 3,153.

Summer of 86 Bessie crk dry! Moose LK drain Through beaver dams

Nov 28-29, 86 Mike Koskovich caught 24" RT. his party caught 50 BB.

MARCH 18, 89 - Chamber of Commerce Sunday.
27 BB Caught - 17 of which were released. 10 Killed BB included 5 tagged BB data sent to BB research Crew leader Bob Lafferty.

BY _____ DATE _____

2/69
FG-213

ALASKA DEPARTMENT OF FISH AND GAME
DIVISION OF SPORT FISH

SUPPLEMENTAL DATA

NAME Tolsona Lake

LOCATION _____

10/29/69 7 inches ice Thick

Temperature Profile - 8/30/65 9:30 A.M.

Depth	Temperature
11	53
10	53
9	53
8	53
7	53
6	53
5	53
4	53
3	53
2	53
1	53
Surface	53

11/19/71 - Burbot lines set - no burbot.
Ice 8" thick, 2-9" overflow - Morgan & Jackson

12/6/71 - Burbot lines set - no burbot
Ice 12" thick, overflow

5/31/72 ice free
5/30/72 stripped 165 ♀ - got 889,000 eggs - 650/oz.
Trapped total of 404 GR in Bessie Cr

5/14/23 Bessie Cr. just starting to run - lots of ice in creek

BY _____ DATE _____

12/2/75 ice 27". Bessie Cr still running

2/69
FG-213

ALASKA DEPARTMENT OF FISH AND GAME
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SUPPLEMENTAL DATA

NAME Tolsona Lake

LOCATION _____

11/19/75 25" ice on Lake

3/10/76 outlet flowing 1.5 CFS

12/21/75 Bessie Creek still running and open in spots.

3/25/76 OUTLET flow finally dropping in volume.

8/9/76 Seined 200 adult LNS from Bessie Cr,

12/20/76 +10° BESSIE CRK & OUTLET BOTH RUNNING good. Flow is CONSIDERABLY more out of OUTLET BUT LOOKS TO BE JUST THROUGH OUTLET SCREENS

1/14/77 +7° BESSIE CRK & OUTLET BOTH RUNNING. OUTLET STILL THROUGH SCREENS

2/2/77 +41° BESSIE CRK. & OUTLET BOTH RUNNING.

(over)

BY _____ DATE _____

2/69
FG-213

3/25/77

Inlet & outlet still running.

Inlet frozen over

temp. profile:

Surf. 32°F

1' 32.5

2 "

3' 33.5

4' 34.5

5' 36.5

6' 37°F

9 39°

10 39°

11 39°

ALASKA DEPARTMENT OF FISH AND GAME
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SUPPLEMENTAL DATA

NAME Tolsona Lk.

LOCATION _____

10/21/76

TOLSONA LAKE Frozen over completely.

15 Burbot lines - 3 days - 31 burbot ave. 755mm

12/5/74 15" ice on lake. No Snow

Dec.'89 Jan.'90, Feb - fished BB Through the ice - estimate 60 sets & 8 BB Caught

3-3-90 3 anglers 15 sets 6 hrs = 8 BB. alot of Overflow. fishery maybe impacted by Roller Run.

BY _____ DATE _____

2/69
FG-213

ALASKA DEPARTMENT OF FISH AND GAME

SPORT FISH DIVISION

STREAM SURVEY DATE 7-9-65 SURVEYED BY D. Pepi

STREAM Talsona BOROUGH 62° 5' N 146° 10' W R SM SEC Gulkana A-5 A-6

1. Other Names of Streams None.
2. Tributary To Tazlina River Main Drainage Copper River
3. Stream Section ¼ mi below From and ½ mi above Glenn Hwy. Length
4. Accessibility (How Reached) State Campground
5. Elevation: Upper end of Section 1882' Lower end of Section 1800'
6. Tributaries None in section Surveyed
7. Water Supply Lakes Flow moderate.
   Degree of Flooding None at time of survey moderate in Spring
8. Polution None
9. Dam Location None Owner Use
   Head Effect on Level Passable for fish
10. Immediate Shore 3-4 foot banks with spruce + willow forest.
11. Surrounding Country hills with spruce + muskeg
12. Fishing: General Reputation Good
    History Reported By local residents.
    Intensity (Heavy, Medium, Light) heavy Summer X Winter
    Public Fishing? Yes Easily Fished? yes
13. Use of Water recreation
14. Spawning Grounds poor in area surveyed
15. Predators None observed
16. Beaver no recent sign
17. Remarks: Good runs of grayling pass through this area on their Spring spawning migration.

	LOWER	MIDDLE	UPPER
18. Station			
19. Ave. Width & Depth	30' wide 3' deep		
20. Volume			
21. Velocity	rapid.		
22. Color & Turbidity	muskeg color		
23. Disolved Solids	~~30%~~		
24. Pools (Size, frequency)	30% pool		
25. Bottom Type			
Pools	sand gravel silt.		
Riffles	Spawning gravel + lg rock		
26. Shade	Banks provide cover with willow shade		
27. Aquatic Vegetation	Sparse		
28. Fish Foods	aquatic insects		
Abundance	fair		
Dominant Types	Diptra		
29. Game Fish	ABUNDANCE	ABUNDANCE	ABUNDANCE
Grayling	depends upon time of year.	large numbers present both spring + fall	fair numbers present during summer months
			No fish overwinter in this area.
30. Other Fish			

31. Surveyed By: D. Pepi Date of Survey 7-9-65