

LAKE: Somenos

TEMPERATURE: Series taken

LIGHT PENETRATION: Secchi Disc. 5 Ft. 0 /10 O.C.

1525 Hrs. Surface Light ripple

OXYGEN: Series taken

Ph: Surface 7.2

Bottom Ft. 6.8

H₂S Bottom

DISSOLVED SOLIDS: Instrument used Dionic Meter

| DATE | T. D. S. | BREAKDOWN |
|-------------|----------|-----------|
| May 4, 1972 | | |
| Surface 57 | P.P.M. | |
| 10 ft. 74 | P.P.M. | |
| 21 ft. 63 | | |
| SP. COND. | | |
| | | |

MISCELLANEOUS: Fish and Wildlife Branch gauge reading 3 feet. It was apparent that it was 2 feet below H. W. mark.

BENCH MARK: Located ft. in. above water level
in a in. tree, located beside launching site.

LAKE Somenos

GENERAL INFORMATION

ACCESS: Turn right off highway north of Duncan at Forest Museum onto Drinkwater Road for .3 miles.

RESORTS AND CAMPSITES: Boat launching, forestry museum.

OTHER HABITATIONS: Scattered private residences

OBSTRUCTIONS AND POLLUTIONS: Domestic use.

GENERAL DESCRIPTION:



OXYGEN RECORD SHEET

LAKE Somenos DATE May 4, 1972 STN. _____

Time 1600 hrs. Instrument Used Kemmerer B Method Hach Kit

Remarks _____

(N.B.) Fix to stage 2 immediately upon getting sample.

| Depth | Bottle No. | O ₂ in P.P.M. | Depth | Bottle No. | O ₂ in P.P.M. | Depth | Bottle No. | O ₂ in P.P.M. |
|---------|------------|--------------------------|-------|------------|--------------------------|-------|------------|--------------------------|
| Surface | | 12.0 | | | | | | |
| 1 | | | 44 | | | 87 | | |
| 2 | | | 45 | | | 88 | | |
| 3 | | | 46 | | | 89 | | |
| 4 | | | 47 | | | 90 | | |
| 5 | | | 48 | | | 91 | | |
| 6 | | | 49 | | | 92 | | |
| 7 | | | 50 | | | 93 | | |
| 8 | | | 51 | | | 94 | | |
| 9 | | | 52 | | | 95 | | |
| 10 | | 10.0 | 53 | | | 96 | | |
| 11 | | | 54 | | | 97 | | |
| 12 | | | 55 | | | 98 | | |
| 13 | | | 56 | | | 99 | | |
| 14 | | | 57 | | | 100 | | |
| 15 | | | 58 | | | 110 | | |
| 16 | | | 59 | | | 120 | | |
| 17 | | | 60 | | | 130 | | |
| 18 | | | 61 | | | 140 | | |
| 19 | | | 62 | | | 160 | | |
| 20 | | | 63 | | | 180 | | |
| 21 | | 10.0 | 64 | | | 200 | | |
| 22 | | | 65 | | | 225 | | |
| 23 | | | 66 | | | 250 | | |
| 24 | | | 67 | | | 275 | | |
| 25 | | | 68 | | | 300 | | |
| 26 | | | 69 | | | | | |
| 27 | | | 70 | | | | | |
| 28 | | | 71 | | | | | |
| 29 | | | 72 | | | | | |
| 30 | | | 73 | | | | | |
| 31 | | | 74 | | | | | |
| 32 | | | 75 | | | | | |
| 33 | | | 76 | | | | | |
| 34 | | | 77 | | | | | |
| 35 | | | 78 | | | | | |
| 36 | | | 79 | | | | | |
| 37 | | | 80 | | | | | |
| 38 | | | 81 | | | | | |
| 39 | | | 82 | | | | | |
| 40 | | | 83 | | | | | |
| 41 | | | 84 | | | | | |
| 42 | | | 85 | | | | | |
| 43 | | | 86 | | | | | |

VERTICAL TEMPERATURE RECORD SHEET FOR LAKES

Lake Somenos Locality Duncan Area Station _____
 Date May 4/72 Time 1525 hrs. Recorder Heathman
 Cloud cover to O. C. 0/10 Wind Velocity 15 m.p.h. Direction North
 Secchi Disc 5 Ft. Viewing Box _____ Surface Condition Light Rippled
 Air Temperature 72 ^oF. Instrument Used Fishmeter
 Remarks _____

| Depth | ^o F. Temperature | Depth | Temperature | Depth | Temperature | Depth | Temperature |
|---------|-----------------------------|-------|-------------|-------|-------------|-------|-------------|
| Surface | 54. | | | | | | |
| 1 | 53.2 | 41 | | 81 | | | |
| 2 | | 42 | | 82 | | | |
| 3 | 52.2 | 43 | | 83 | | | |
| 4 | | 44 | | 84 | | | |
| 5 | 51.5 | 45 | | 85 | | | |
| 6 | | 46 | | 86 | | | |
| 7 | 50.0 | 47 | | 87 | | | |
| 8 | | 48 | | 88 | | | |
| 9 | | 49 | | 89 | | | |
| 10 | 49.0 | 50 | | 90 | | | |
| 11 | | 51 | | 91 | | | |
| 12 | | 52 | | 92 | | | |
| 13 | | 53 | | 93 | | | |
| 14 | | 54 | | 94 | | | |
| 15 | 48.3 | 55 | | 95 | | | |
| 16 | | 56 | | 96 | | | |
| 17 | | 57 | | 97 | | | |
| 18 | | 58 | | 98 | | | |
| 19 | | 59 | | 99 | | | |
| 20 | 47.1 | 60 | | 100 | | | |
| 21 | | 61 | | 110 | | | |
| 22 | | 62 | | 120 | | | |
| 23 | | 63 | | 130 | | | |
| 24 | 47.0 | 64 | | 140 | | | |
| 25 | | 65 | | 160 | | | |
| 26 | | 66 | | 180 | | | |
| 27 | | 67 | | 200 | | | |
| 28 | | 68 | | 225 | | | |
| 29 | | 69 | | 250 | | | |
| 30 | | 70 | | 275 | | | |
| 31 | | 71 | | 300 | | | |
| 32 | | 72 | | | | | |
| 33 | | 73 | | | | | |
| 34 | | 74 | | | | | |
| 35 | | 75 | | | | | |
| 36 | | 76 | | | | | |
| 37 | | 77 | | | | | |
| 38 | | 78 | | | | | |
| 39 | | 79 | | | | | |
| 40 | | 80 | | | | | |

CHECKING LIST OF SPECIES

LAKE SOMMERS
 OVERNIGHT SET TWISTED

BASS

| | | SPECIMENS | SCALES | STOMACH | RECORD ONLY |
|---------------|------------------------|-----------|--------|---------|-------------|
| Smallmouth | Micropterus dolomieu | ..... | ..... | ..... | ..... |
| Largemouth | M. salmoides | ..... | ..... | ..... | ..... |
| Pumpkinseed | Lepomis gibbosus | ..... | ..... | ..... | ..... |
| Black Crappie | Pomoxis nigromaculatus | ..... | ..... | ..... | ..... |

SALMON

| | | | | | |
|---------|------------------------|-------|-------|-------|-------|
| Pink | Oncorhynchus gorboscha | ..... | ..... | ..... | ..... |
| Coho | O. kisutch | ..... | ..... | ..... | ..... |
| Spring | O. tshawytscha | ..... | ..... | ..... | ..... |
| Chum | O. keta | ..... | ..... | ..... | ..... |
| Sockeye | O. nerka | ..... | ..... | ..... | ..... |
| Kokanee | O. nerka kennerlyi | ..... | ..... | ..... | ..... |

WHITEFISH

| | | | | | |
|-------------|----------------------------|-------|-------|-------|-------|
| Round | Prosopium cylindraceum | ..... | ..... | ..... | ..... |
| Mountain | P. williamsoni | ..... | ..... | ..... | ..... |
| Pygmy | P. coulteri | ..... | ..... | ..... | ..... |
| Lake | Coregonus clupeaformis | ..... | ..... | ..... | ..... |
| Broad | C. nasus | ..... | ..... | ..... | ..... |
| Least Cisco | C. sardinella | ..... | ..... | ..... | ..... |
| Inconnu | Stenodus leucichthys nelma | ..... | ..... | ..... | ..... |

GRAYLING

| | | | | | |
|------------------|----------|-------|-------|-------|-------|
| Arctic Thymallus | arcticus | | | | |
|------------------|----------|-------|-------|-------|-------|

SUCKERS

| | | | | | |
|-------------------|-------------------------|-------|-------|-------|-------|
| Coarse Scale | Catostomus macrocheilus | ..... | ..... | ..... | ..... |
| White | C. commersonni | ..... | ..... | ..... | ..... |
| Longnose | C. catostomus | ..... | ..... | ..... | ..... |
| Bridgelip | C. columbianus | ..... | ..... | ..... | ..... |
| Northern Mountain | Pantosteus jordani | ..... | ..... | ..... | ..... |

SCULPINS

| | | | | | |
|-----------|--------------|-------|-------|-------|-------|
| Prickly | Cottus asper | ..... | ..... | ..... | ..... |
| Aleutian | C. aleuticus | ..... | ..... | ..... | ..... |
| Spoonhead | C. ricei | ..... | ..... | ..... | ..... |
| Torrent | C. rhotheus | ..... | ..... | ..... | ..... |
| Slimy | C. cognatus | ..... | ..... | ..... | ..... |
| Columbia | C. hubbsi | ..... | ..... | ..... | ..... |

PERCH

| | | | | | |
|---------|----------------------|-------|-------|-------|-------|
| Yellow | Perca flavescens | ..... | ..... | ..... | ..... |
| Walleye | Stizostedion vitreum | ..... | ..... | ..... | ..... |

TROUTPERCH

| | | | | | |
|------------|------------------------|-------|-------|-------|-------|
| Troutperch | Percopsis omiscomaycus | | | | |
|------------|------------------------|-------|-------|-------|-------|

PIKE

| | | | | | |
|---------------|--------|-------|-------|-------|-------|
| Northern Esox | lucius | | | | |
|---------------|--------|-------|-------|-------|-------|

CODFISH

| | | | | | |
|--------|-----------|-------|-------|-------|-------|
| Burbot | Lota lota | | | | |
|--------|-----------|-------|-------|-------|-------|

CATFISH

| | | | | | |
|----------------|---------------------|-------|-------|-------|-------|
| Brown Bullhead | Ictalurus nebulosus | ..... | ..... | ..... | ..... |
| Black Bullhead | I. melas | ..... | ..... | ..... | ..... |

MOONEYES

| | | | | | |
|---------|------------------|-------|-------|-------|-------|
| Goldeye | Hiodon alosoides | | | | |
|---------|------------------|-------|-------|-------|-------|

HERRING

| | | | | | |
|---------------|-------------------|-------|-------|-------|-------|
| American Shad | Alosa sapidissima | | | | |
|---------------|-------------------|-------|-------|-------|-------|

SMEELTS

| | | | | | |
|----------|------------------------|-------|-------|-------|-------|
| Eulachon | Thaleichthys pacificus | ..... | ..... | ..... | ..... |
| Longfin | Spirinchus dilatatus | ..... | ..... | ..... | ..... |



14 RT Ave length = 17.5 cm
 2 CT Ave length = 27.5 cm
 1 BROWN T Length = 26 cm

SOMENDS SCALE = 300.0 FT./ INCH

SUMMARY USING METRIC MEASUREMENT

| DEPTH(METERS) | DATA(V.U.) | AREA(SC.M.) | VOLUME(CU.M.) |
|---------------|------------|-------------|-------------------|
| 0.0 | 114.190 | 954777.927 | |
| 1.524 | 108.350 | 905947.880 | 1417713.308 CU.M. |
| 3.048 | 89.970 | 752267.012 | 1261749.677 CU.M. |
| 4.572 | 64.220 | 536963.294 | 577796.855 CU.M. |
| 6.096 | 26.670 | 222956.123 | 561846.733 CU.M. |
| 6.706 | 0.0 | 0.0 | 45312.909 CU.M. |

TOTAL VCLUME = 4264419.480 CU.M.

MEAN DEPTH = 4.466 METRES

SUMMARY USING FEET-ACRES MEASUREMENT

| DEPTH(FEET) | DATA(V.U.) | AREA(ACRES) | VOLUME(ACRE/FT) |
|-------------|------------|-------------|-----------------|
| 0.0 | 114.190 | 235.830 | 0.0 |
| 5.000 | 108.350 | 223.769 | 1149.349 |
| 10.000 | 89.970 | 185.810 | 1022.909 |
| 15.000 | 64.220 | 132.630 | 792.706 |
| 20.000 | 26.670 | 55.080 | 455.493 |
| 22.000 | 0.0 | 0.0 | 36.735 |

TOTAL VOLUME = 3457.192 ACRE-FEET

MEAN DEPTH = 14.660 FEET