

the world of OUTDOORS

with
ART HAWES

In the lower Great Lakes, particularly, pollution and enrichment over the last two decades have resulted in biological, physical and chemical alterations of the environment for fish. The walleye, lake trout and whitefish have reached low levels of abundance while alewife, white bass, white perch and smelt are predominant. While this particular problem is not as marked in Lake Huron and its practically non-existent in Lake Superior, another factor has caused definite changes in the fisheries here; the parasitic, sea lamprey. Production of lake trout in these lakes, for example, has gone from a yearly average of 15 million pounds to less than half a million pounds, mainly because of this predator.

In view of these facts, thought has been given to introducing fishes from other areas that would be better suited to the changed environment than the native fishes. Coho salmon, kokanee and splake have already been introduced. The splake was developed specifically with lamprey predation. Are there others?

In August and September, a study was made in nine European countries (England, Scotland, Sweden, Finland, Soviet Union, Yugoslavia, Czechoslovakia, Austria and France) to assess the possibility of their fishes living in our waters. Species that can tolerate enriched and polluted waters better than our own; those that grow quickly and mature early, as a factor in combating the sea lamprey; and those that are prodocuous and would utilize the huge stocks of coarse fish in the Great Lakes were of particular interest.

The European pikeperch, although very similar in appearance and habits to our walleye, has certain characteristics that may make it particularly suited to the lower Great Lakes. It is a more versatile species than ours, living in shallow lakes of 300 acres or less and in the saline waters of the Gulf of Finland. It tolerates higher temperatures and lower dissolved oxygen values than its North American counterpart. Turbid water is essential for good pikeperch production and it can withstand higher levels of pollution. Rate of growth is generally faster and they reach a larger size (up to 44 pounds). In general, it matures a year earlier and spawning is on plant roots and muddy areas that would be entirely unsuitable for our walleye.

Most sturgeons of the world mature at an age of 12-15 years and are therefore quite vulnerable to exploitation. Soviet scientists, through hybridization studies, are attempting to develop earlier maturing sturgeon. These are particularly needed for the impoundments created by hydro-electric developments on their major rivers. The slow growing, small-sized (up to 30 inches), early maturing (4 years), fresh water sterlet has been hybridized with the fast growing, large (up to 1.5 tons), late maturing (10 years), migratory beluga. The resultant hybrid matures at 4-6 years, has a growth rate approaching that of the beluga, probably, although this is not known yet, reaches a large size, and can live in fresh or salt water. The hybrid is fertile although it is not yet known whether it will reproduce in nature. Backcrosses of the hybrid to both parents permits a wide selection of characters that may be required.

The European brown trout can live in a wide range of environments: the sea, warm sluggish rivers, or deep cold lakes. The cold water, lake dwelling form which occurs in a number of countries, is called the lake trout. In Lake Laman (Geneva), it occurs down to depths of 130 feet. The lake trout grows rapidly, even at northern latitudes, and may reach a weight of 50 pounds. It is a highly prodocuous fish, maturing at three years. Although primarily a river spawner, it can also spawn in lakes. Brown trout have been introduced to North America in the past with only moderate success. These early introductions are believed to be of the warm river forms of England and France. Many European authorities felt the rapid growth and cold water habit of the lake form is a fixed character and would be retained in North America.

One of the more spectacular fishes encountered was the Danube salmon or huchen. This salmonid is only found in the Danube watershed of Central Europe (France, Germany, Austria, Yugoslavia). It is nearest to the lake trout (although not too close), of our North American salmonids. The huchen can live in warmer waters (up to 80 - 85 degrees), tolerate lower dissolved oxygen values, and withstand greater pollution than any other salmonid. It is extremely prodocuous and cannibalistic. The Danube salmon grows very rapidly and may attain lengths of 25 to 27 inches and weights of five to eight pounds in five years. Individuals of 115 pounds have been reported and fish of 50 to 80 pounds have not been uncommon. Spawning occurs in April or May in small tributary streams and hatching takes place three or four weeks later. It is a superb, game fish and rated only next to the salmon on the table.

Unfortunately, with these desirable qualities, it is strictly a river form and not found in lakes. Larger rivers, with alternating pools and rapids are preferred. Deep, loose gravels are essential for spawning.

A number of other species were investigated including the European perch and the whitefish and charr but none appeared to offer advantages over our own fishes. The four species, the pike-



YOBOGGANING on the terrace in front of the Thornhill, Jim and John Pink enjoy the swift Robert Little school was a favorite sport for the children during the Christmas holidays—Norm (Staff Photo)

Keep your car windows free of snow and ice

Better keep your car's windows clean, for safety's sake, the Milton O.P.P. Detachment suggests.

Effective October 1, 1966, the following Section came into effect in Ontario under the provisions of The Highway Traffic Act:

- (1) No person shall drive a motor vehicle upon a highway, (a) unless the windshield and the windows on either side of the compartment containing the steering wheel are in such a condition as to afford the driver a clear view to the front and side of the motor vehicle; and (b) unless the rear window is in such a condition as to afford the driver a clear view to the rear of the motor vehicle.
- (2) Clause b of subsection 1 does not apply to a motor vehicle that is equipped with mirror or mirrors securely attached to the motor vehicle and placed in such a position as to afford the driver, otherwise than through the rear window, a clearly-reflected view of the roadway in the rear of any vehicle approaching from the rear.

perch, the hybrid sturgeon, the lake form of the brown trout, and the Danube salmon appear to be the most immediately promising.

European scientists are quite concerned about enrichment and pollution problems at the moment and considerable investigation is being carried out in the field. In general, they appear to be somewhat ahead of North America in handling of effluents, and have devised a number of ingenious ways of treating wastes. However, they have no waters comparable in magnitude to the Great Lakes. Large lakes such as Lake Geneva and Lake Malaren, in Sweden, are undergoing similar changes to our lakes. There are conflicting opinions among the European scientists as to the irreversibility of the enrichment trend.

CHURCHILL

Mrs. Mary Agnew, Toronto; Mr. and Mrs. Robert C. Agnew and daughters Carol and Helen, Bradford; Mr. and Mrs. Earl Vanatter and Mr. and Mrs. Jack Vanatter and daughter Cheryl; Linda and Nancy, Fernon Falls; Mrs. Buck, Georgetown; Mr. and Mrs. Donald Anderson, Donald; and David; Mr. and Mrs. Bob Kerr; Mr. and Mrs. Stokov and family, spend Christmas with Mr. and Mrs. Archie Kerr.

Mr. and Mrs. Robert Tyler phoned from Simi, California, on Christmas morning to wish the Kerrs a Merry Christmas.



Should a driver get into a skid on icy pavement, he should remain calm, the Hamilton Automobile Club urges. Don't slam on the brakes. Steer in the direction in which the REAR of the car is moving. Gently decelerate when the automobile is once again going in the proper direction and be careful not to oversteer. If the car is kept in gear, the engine can be an effective brake.

| ATOMS | | | | |
|----------|---|---|---|---|
| GP | W | L | T | |
| Brampton | 8 | 5 | 1 | 2 |
| Weston | 8 | 1 | 5 | 2 |

| NOVICE | | | | |
|------------|---|---|---|---|
| GP | W | L | T | |
| Hamilton | 8 | 7 | 1 | 0 |
| St. Kitts | 8 | 5 | 2 | 1 |
| Nia. Falls | 8 | 3 | 4 | 1 |
| Oshawa | 8 | 0 | 8 | 0 |

| PEE WEES | | | | |
|-------------|---|---|---|---|
| GP | W | L | T | |
| Baltimore | 8 | 7 | 0 | 1 |
| Rochester | 8 | 4 | 3 | 1 |
| Springfield | 8 | 4 | 4 | 0 |
| Cleveland | 8 | 0 | 8 | 0 |

| SPORTS SCOREBOARD | | | |
|-------------------|---|---|--|
| Mike Ware W. | 2 | 3 | |
| Danny Webster B. | 2 | 2 | |
| Bob Kilby B. | 1 | 1 | |
| John Thompson B. | 0 | 3 | |

| HANTAMS | | | | |
|-----------|---|---|---|---|
| GP | W | L | T | |
| Pittsburg | 6 | 6 | 0 | 0 |
| Buffalo | 5 | 2 | 3 | 0 |
| Hershey | 5 | 0 | 5 | 0 |

| SCORING DERBY | | | |
|-------------------|----|---|--|
| GP | G | A | |
| Garth Taylor, P. | 11 | 3 | |
| Steve Connell, P. | 7 | 2 | |
| Ron Loutot, B. | 2 | 8 | |
| Dave Pink, B. | 5 | 1 | |
| Gord Murray, B. | 5 | 0 | |
| Gary Turkoz, B. | 3 | 4 | |
| Bren Irwin, B. | 4 | 3 | |
| Tim Coles, P. | 3 | 2 | |
| Chas. Kufjen, B. | 3 | 2 | |
| Jeff Cooper, P. | 3 | 2 | |

| PEE WEES | | | | |
|-------------|---|---|---|---|
| GP | W | L | T | |
| Haltmore | 8 | 7 | 0 | 1 |
| Rochester | 8 | 4 | 3 | 1 |
| Springfield | 8 | 4 | 4 | 0 |
| Cleveland | 8 | 0 | 8 | 0 |

| SCORING DERBY | | | |
|-------------------|----|----|--|
| Team | G. | A. | |
| Scott Malcolm B. | 18 | 3 | |
| Jeff Shields W. | 10 | 3 | |
| Mike Morris W. | 9 | 4 | |
| Gordon Bruce B. | 5 | 5 | |
| Bruce McPhail W. | 3 | 5 | |
| Dave McGiloway B. | 1 | 6 | |

No liquor charges Quiet weekend for O.P.P.

The Milton O.P.P. Detachment reports a fairly quiet New Year's weekend in North Halton area. The force laid no charges for liquor infractions over the holidays.

The holiday weekend traffic was heavy but there were few accidents. The officers investigated two accidents Friday, two Saturday and three on Sunday, with a clear shift for Monday. Property damage in the seven weekend accidents totaled just under \$2,000 and there was just one injured motorist.

Following is a summary of last week's investigations by the O.P.P.:

During the week of December 24 to December 30, personnel worked a total of 730-3/4 hours and patrolled 5,158 miles on area highways. As a result of patrol, 15 charges were preferred, 20 traffic warnings were issued, and 13 vehicles were safety checked. There were seven property damage accidents resulting in four persons being injured, and one fatal accident resulting in two persons being killed. Property damage totaled \$8,085. Causes of accidents were speed too fast for road or traffic conditions, inattentive driving, improper turns. As a result of these accidents four charges were laid. There were convictions registered in

Tires and Bridges

Drivers, check your tires periodically. It's good sense to have good tires, says the Ontario Safety League. Your brakes can stop the wheels — but only your tires can stop the car.

A thought for winter driving — remember that bridges can be treacherous spots in cold weather. Even when the rest of the pavement is dry, the road surface on a bridge may be ice-coated.

For year-round peace of mind, you need adequate insurance protection. For information call:

E. R. PASMORE
Rockwood — 464-9738
CIAG
INSURANCE
Co-Operators Insurance Association of Guelph

GARDEN HEADQUARTERS

Plant Now! See Our Selection of
TREES — EVERGREENS — SHRUBS
CUT FLOWERS AND POTTED PLANTS

Open 7 Days a week — 8 a.m. till dark — Phone 853-2980

SAY IT WITH FLOWERS — THEY SAY IT SO NICELY!
Caroline Flower & Garden Shop
TWO MILES WEST OF ACTON SOUTH SIDE OF HWY

NEW YEAR BARGAINS AT RED & WHITE

| | |
|----------------------------|---------------|
| RIB PORTION | 53¢ lb |
| LOIN O' PORK | 53¢ lb |
| LOIN O' PORK | 59¢ lb |
| TENDER LOIN PORTION | 59¢ lb |
| Pork Chops | 69¢ lb |
| PRESSWOOD WIENERS | 49¢ lb |

| | |
|--------------------------------------|--------------------|
| REDPATH — 10-lb. Bag | SUGAR 83¢ |
| RED & WHITE — 24-oz. Loaf | BREAD 3:65¢ |

| | |
|------------------------------------|---|
| — FROZEN FOOD — | — FRESH PRODUCE — |
| SUPREME — 2-lb. Bag | GOLDEN RIPE BANANAS 2:25¢ |
| French FRIES 49¢ | U.S. No. 1 — TEXAS CABBAGE 2:25¢ |
| FANCY QUALITY — 19-oz. Tins | KRAFT — 8-oz. Pkg. CHEESE SLICES 35¢ |
| APPLESAUCE 22¢ | TANG — 3½-oz. Pkg. Orange Crystals 2:43¢ |

PRICES EFFECTIVE JANUARY 3 - 4 - 5 - 6

PLENTY OF FREE PARKING

Plans are being made for the official opening of Stewarttown senior public school on Friday, February 2.

HEADING for HEAVENLY USED CAR SAVINGS

THEN HEAD FOR LOU'S USED CARS

MAIN ST. — ROCKWOOD
856-4235

SAVE! SAVE! SAVE! SAVE!

JANUARY FURNITURE SALE

7-Pc. Bronzstone DINETTE SUITE

Large 30 x 60 Table with walnut laminate top, six high backed chairs in supported vinyl

\$99.95

2 PIECE CHESTERFIELD & CHAIR

Zippered cushions, nylon fringe covering for long wear — Reg \$199.95

SALE - \$169.95

3 PIECES KROENLER SUITE

3 cushioned chesterfield and chair in textured fabric — Reg \$279.95

SALE - \$229.95

Double Dresser and Mirror, Chest and Panel Bed in Walnut Finish — Special

\$139.95

3 Pc. Bedroom Suite

● Record Cabinet (Reg. \$31.50) Special \$24.95 ● Hassocks \$3.95
● Drapery Ends From \$1.25 ● Magazine Racks - \$2.95

THESE ARE BUY A FEW OF THE SAVINGS DURING OUR JANUARY SALE

ACTON HOME FURNISHINGS