

METOLIUS NOW BEING STOCKED

Careful Plantings of Trout Are Made

Fish Liberated in Places Where Food and Shelter Are Available

(This is the last in a series of articles taken from the Metolius river report made by the division of scientific investigation of fisheries, state game commission.)

It seems logical that the fish to be planted in the upper part of the Metolius river should be planted where they will have the best possible chance to survive. Therefore, they should be planted in this closed area, either well up towards the source, or well up Lake creek. When planted down lower, towards the canyon, their chances of survival are lessened considerably, as they are more open to attacks by the Dolly Varden, and subject to the force of the swifter water.

Hatchery site—There are several excellent places for a hatchery on or near the Metolius river, because of the abundance of springs that are found. The main objection to a hatchery in this area is the coldness of the water.

Holding area—The sportsmen in this area have discussed among themselves the possibility of screening off the mouth of Lake creek and using this creek as a holding pond for the small fish until they have reached a larger size, and then letting them out from time to time into the main stream. If fish of proper size can be obtained from hatcheries and carefully planted, holding ponds are not recommended.

Poaching in the closed area—according to residents along the stream, there is quite a little illegal fishing in this closed area. Some violators are probably unaware that they are fishing in a closed section until someone calls their attention to it.

Traps—Three traps have been installed for the purpose of catching the Dolly Vardens and removing them from the stream to prevent their preying on the other fish. These have been put in Canyon creek, Jack creek and Lake creek.

The day before we left, we went to the trap on Jack creek and found three fish in it. We tried, to no avail, for a half an hour to remove the fish from the trap. It is impossible to work

a net in this trap, because of the irregularity of the bottom. Large boulders and outcroppings were left in the trap, and a log along the edge of it provides an excellent hiding place for the fish. We tried to work them out with a pitchfork, but could not locate them as they disappeared into some crevice.

This trap should have all of the big rocks removed from it and all hiding places removed so as to facilitate removal of the fish. It would be well to put a board flooring in it.

The other two traps are easier to work in but here again there is no check to see what becomes of the fish that are caught. They are so easily accessible that most anyone can go to them and remove the fish.

Some check should be made on the number of fish taken from the traps, and the species of the fish taken.

If just the Dolly Vardens are removed from the stream, the traps are probably beneficial, but if other more desirable fish are also removed, then they are defeating their own purpose. It seems that some method of close regulation is needed to make these traps really effective. One person should be appointed to visit all of the traps during the time they are in operation.

Fishing law—The season may be too long for the best interests of the stream. Perhaps if the opening date were held up in the spring, until the time when most of the other streams and lakes were accessible, a good part of the fishing drain would be removed. A later opening date would also give the fish a better chance to spawn. The closing date should be set back to immediately after Labor day, which is practically the end of the tourist season.

Stocking program—H. S. Davis makes the following statement relative to the size of fish to be planted, "In waters which are heavily fished, and in which the great majority of adult trout are removed, it is necessary to stock with legal-size trout at various intervals during the season in order to maintain the fishing."

There is no question but what the Metolius river is heavily fished, and perhaps Mr. Davis' suggestion would be the answer to the problem; but it would be an expensive procedure, and one which the state of Oregon, at the present time, could not afford to carry out.

According to the table which has been prepared, fish are to be stocked in this stream and tributaries on the basis of pools, shelter and food available. The table is based on plantings of three-inch rainbow trout. If smaller fish are planted, a larger number will be released; and if larger fish are available, fewer need be planted. It is planned to release the fish in small numbers by hand wherever shelter and food are abundant.

Based on the data collected in the

survey, the upper Metolius and its tributaries were stocked with 241,100 rainbows, during the latter part of October, under the supervision of Dr. Griffiths and Mr. Holloway. In order to compensate for the fish being smaller than three inches in length, a larger number than the required 162,000 were planted. These fish, ranging from 1.25 to 3 inches in length, were obtained from the Oak Springs hatchery.

Two holding pens were built and placed in the stream at easily accessible locations to receive the fish and hold them until they could be distributed by milk cans and pack cans. Of the six loads of fish that were received, two of these were liberated directly into the Metolius and its tributaries from the trucks, these fish being scattered as well as could be done by approaching the streams at, as many places as was possible. The other four loads were weighed from the trucks and placed in the holding pens, from which they were again weighed before final distribution.

The fish placed in the holding pens were later placed in ten-gallon milk cans and five-gallon back-pack cans, by which they were thoroughly distributed throughout the entire surveyed section of the Metolius river, and the tributary streams. Every effort was made to place the fish in the best possible location where they could get the maximum amount of food, cover and protection from enemies. As most of the tributaries and a good portion of the main stream are readily accessible by roads, it was quite easy to distribute the fish to the most advantageous spots. The pack cans were used in cases where the streams could not be reached by road.

Excellent cooperation was received from all agencies concerned and the project was completed at a minimum of effort and expense. The United States bureau of fisheries furnished the milk cans; the United States forest service furnished the back-pack cans; the CCC camp furnished four boys to aid in the distribution of the fish; Mr. McMullin of Lake Creek lodge, furnished a truck and man for two and a half days, and the sportsmen of the vicinity aided in directing the trucks that liberated directly into the streams.

Liberations were as follows:

Upper section	50,000
Middle section	39,030
Lower section	53,030
Abbot creek	5,285
Cabot creek	5,285
Jefferson creek	7,000
Lake creek	45,000
Spring creek	10,000
Jack creek	5,000
Canyon creek	12,000
Wizard falls	2,800
Heising Springs	5,000

EX-SWIMMING CHAMPION

Answer to Previous Puzzle

HORIZONTAL

1,8 First girl to swim the English Channel.

13 Money changing.

14 To cross-question.

16 Plant part.

17 Obtained.

18 Test.

19 Rostered.

21 Tent.

23 Typified.

26 Myself.

28 Measure.

29 Post Meridien (abbr.).

30 Foe.

33 Inexpensive.

36 Pomace of grapes.

37 A jot.

38 Frosting.

40 Tutelar deities.

41 Court.

42 Bone.

44 Either.

45 Speedily.

VERTICAL

1 African tribe.

2 Ovum.

3 Tumult.

4 To carry.

5 To say.

6 Challenge.

7 Silkworm.

8 Wriggling.

9 Gaelic.

10 Street.

11 Building site.

12 And.

15 Pistol.

20 She is an — by birth.

22 Compensation.

24 Moccasin.

25 Swimming — her hearing.

27 To ordain.

29 House courtyard.

31 Roof final.

32 Males.

34 To run.

35 Eternity.

39 Gazelle.

40 Fuel.

43 To acknowledge.

46 Window part.

47 Unbleached color.

48 Dined.

49 Slave.

50 Kind of cheese.

51 Novice.

53 Indian.

55 Lubricant.

57 Small shield.

Clouds Fade Away as Dry Spell Continues

Central Oregon residents faced their 40th rainless spring day with hope that some moisture would fall from heavy clouds that drifted across midstate skies in the morning hours but by early afternoon the dark clouds had disappeared and the sun again blazed from a nearly clear sky. Weather forecasts call for additional clouds tonight, but there is little prospect that the long spring drought will be broken.

It will be 40 days tomorrow since Bend received a measurable amount of moisture. A trace of snow fell here in early April, but it was on March 13 that local weather observers last made a moisture entry on their books, and that was only 0.8 of an inch.

Yesterday afternoon, the relative humidity dropped to 8 per cent in Bend, and at Lava butte, 10 miles south, foresters recorded a reading of 12 per cent. Hazard sticks were abnormally dry in the lower areas and snow lines were rapidly receding into high mountains.

Bend's maximum temperature yesterday was 82 degrees.

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Probate Court Under Fire of Oregon Bar

Portland, Ore., April 21 (AP)—The board of governors of the Oregon State Bar association today censured in a 40-page statement the administration of affairs of Multnomah county probate court presided over by Circuit Judge George Tazewell.

The report cleared Judge Tazewell of suspicion but criticized the practice of allowing a "limited group of men" to appraise most large estates. In certain instances, the report continued, "these men have been allowed excessive and improper fees."

"Some members of the staff of the court have been permitted to engage in practices, the propriety of which is questionable," the report said.

"In permitting these things the judge has permitted a situation to arise which affects the reputation not only of his court but of the bench and bar as a whole."

An improved method for measuring the amount of chlorophyll in leaves has been worked out at the Smithsonian Institution.

Bulletin want ads bring results.

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RUSSIA OFFERS TO GIVE ALLIES AID

Alliance Proposal Now in Definite Form

By Frederick Kuh (United Press Staff Correspondent)

London, April 21 (AP)—Russia has offered Great Britain and France an unreserved alliance in which each nation would pledge to use its entire armed forces and all its resources to resist aggression in Europe, it was understood today.

Maxim Litvinov, Russian foreign commissar, made the offer to Sir William Seeds, British ambassador, during negotiations at Moscow to bring Russia into the British-French "peace front," it was reported.

It was said the offer was Russia's reply to a British proposal that Russia express her willingness to go to the aid of Poland and Rumania if

they were attacked.

Paris reported yesterday that Britain and France had offered Russia a three-power mutual assistance treaty. But as the proposal was reported here, it came from Russia and it was added that British cabinet leaders were studying it and planned to consult Poland and Rumania before replying.

It seemed increasingly apparent that Russia would soon be a part of the "peace front," pledged to provide Poland and Rumania with war munitions if they asked for them and to contribute airplanes to a Russian-British-French air force pool against any aggressor nation.

According to Russian sources in Paris, Russia during the last few days has asked all Baltic nations informally whether they desired or would accept Russian assistance and protection against Germany or any other country which might threaten their independence.

Informants added that Russia believing it had a direct interest in preventing any German "drive to the east" might intervene forcibly, agreement or no agreement, if any Baltic country were attacked.

Russia's plan, the French and British ideas as well, seemed to point to a revival of the old triple entente which took the three nations into the World war together.

Germany and Italy were not idle while Britain and France worked on their anti-aggression bloc. Grigore Gafencu, Rumanian foreign minister, left Berlin last night after a series of conferences in which, apparently, he resolutely refused to commit Rumania to co-operation with Germany and Italy. But in Rome, Hungary's

premier and foreign minister agreed to cooperate with the "axis" powers.

According to Paris reports, Hitler asked the smaller powers of Europe if they felt themselves menaced by Germany and if they had entered into any defensive agreements with France and Britain against Germany.

British reaction to the speech of Premier Benito Mussolini, replying to President Roosevelt's peace appeal, was generally favorable. Despite Mussolini's strong words, British commentators read into the speech—as did diplomats at Rome who heard it—a note of pacification.

Although snuff is supposedly adduced, figures show that Americans use about the same amount of tobacco in snuff as in chewing.

Ordinarily it takes a cataract of the eye five to ten years to reach its mature stage.

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