

ROACH MINNOWS ARE INTRODUCED IN LAKES

Roach minnows, similar to chubs, which are common in Klamath County, have been discovered by the Oregon State Game Commission in Diamond Lake and in Fish Lake near Mt. McLaughlin.

Such roach are now from two to three inches long and are one or two years old. At maturity the fish will become six to seven inches long.

The presence of Roach in Twin Lakes south of Bend, Oregon, made the poisoning of these lakes necessary and such is very expensive and difficult. Such fish are very hard to control and reproduce so fast that they become extremely numerous and they compete directly with trout for food and will deplete the available supply.

The roach in Diamond Lake and Fish Lake must have been placed in these lakes by fisherman who unwisely brought said minnows to said lakes to be used as live bait. After completing their fishing, such fishermen, perhaps in ignorance, released in said lakes the roach they had left over from their fishing. This was certainly misplaced "good samaritanism", because the roach in these two lakes will be very damaging to the trout there.

The Oregon law prohibits the placing in or transporting to any lake or stream of any non-native or non-resident fish. Besides roach, in some other streams and lakes in Oregon, perch, bass and crappies have been illegally placed and have ruined the trout fishing in such streams or lakes.

It is hoped that the information set forth in this article will help to deter the placing of such fish in Oregon's trout streams and lakes.

A.B.C.'s OF ATOM SMASHING GIVEN BY OSC PROFESSOR

OREGON STATE COLLEGE—The principles behind the atomic bomb are not new, as they have been included in advanced physics texts for several years, but the practical application of these principles is the new and highly secret development that has set the world agog over the biggest scientific advance in modern ages.

This is the explanation given by Dr. W. Weniger, head of the physics department at Oregon State college, in answer to a flood of questions that reached him just after the atomic bomb reached Japan.

Dr. Weniger explains that the three things done recently and secretly are these, stated in simplest terms: First, a large supply of the rare uranium 235 has been obtained; next, new means of handling large quantities of it were devised; finally, a practical means was found of "packaging" it in such a way that the atoms could be split at a specified instant, releasing the enormous resulting energy in the form of an explosion.

What "atom smashing" had been done previously was a laboratory process requiring huge machines that literally shot particles known as neutrons into uranium atoms, splitting the latter into two parts. Some satisfactory way has now been found to start this "bombarding" of atoms in the atomic bomb. This bombardment serves only as a trigger to set off an explosion in the nucleus or centers of the atoms.

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The new mobile Chest X-Ray Survey Unit, built and equipped with Christmas Seal funds is now ready to travel to all parts of the State. The photo shows the workmen who built the trailer. The overall size of the Unit is 38 feet long and 8 feet wide. It contains a Westinghouse X-Ray Unit in its own X-ray room, dressing rooms and a dark-room for developing the films. Mr. and Mrs. A. A. Anderson will be in charge of the Unit and take the pictures. The Oregon Tuberculosis Association and the County Public Health Associations pay for the service out of Christmas Seal funds.

The explosion of one atom sets off others in turn much as a farmer blasts out a ditch by burying a whole series of unconnected sticks of dynamite in wet ground. Firing one of these sticks sets off the next one, and so on till all blow up what seems like a single blast.

As to where so much energy comes from, Dr. Weniger explains that in the process of dividing these atoms of uranium, the two resulting pieces together are not as massive as the original atom, and that the difference is destroyed as matter and transformed into energy. It is this energy that gives such enormous speeds to the pieces of the atoms that they break or explode the shell. The much smaller explosions of previous types of bombs have been caused merely by combustion or burning, such as occurs when gasoline is burned in an engine to form gas and water vapor. Splitting the atom is the means by which the mass of an element is reduced by changing some of it into energy.

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DRYING OF FRUITS SAVING ON SUGAR

One way to overcome the shortage of canning sugar this season is to dry more fruit for winter use, reminds Lucy A. Case, extension nutritionist at Oregon State college. If fruit is allowed to get fully ripe before drying, most kinds contain a great deal of sugar. Many appetizing desserts, salads and other dishes can be made from dried fruit with the addition of little or no sugar, she says.

"Dried fruits are less popular than canned, but they are much better than none," Miss Case remarks. "Oregon fruits available yet this sea-

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son that can be successfully dried include peaches, apples, prunes and pears."

Detailed directions for drying fruit at home are contained in station circular 423, "Home Fruit and Vegetable Dehydration," and home economics circular 1754, "Home-made Dehydrators." These may be obtained from any extension office. A limited number of bulletins on oven drying may be had direct from the Extension service in Corvallis.

Marketing of Cattle Lower, Is Report

Midwestern grass cattle markets were still reporting unseasonably small receipts of grass cattle during the week ended August 9, the weekly review of farm market, crop, and outlook information by the extension agricultural economist at O.S.C. shows. The total of all cattle arriving at 12 principal markets continued somewhat smaller than the same period of last year. Receipts of calves and sheep were substantially smaller than a year previous, with hogs down to 41 per cent of last year.

During the week following the withdrawal of the lamb subsidy payments to slaughterers, prices for fat lambs were lower at all markets. The decline was generally less than the compensating subsidy payments to be made to sellers, effective August 5, however.

The bulk of the Eastern Oregon feeder lambs is reported contracted, and will go mostly to central Idaho and Washington feed lots. Some will

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go to the midwest, particularly Iowa, to be finished.

Mohair buying in Texas continued moderately active at 52½ to 56 cents for adult mohair and 26 cents more for kid hair. Trading in domestic wools continued very slowly on the Eastern market with buying limited to immediate requirements.

Generally firm markets have prevailed for grains and feedstuffs so far this season. Feed grain markets have not been especially active. Demand for commercial feedstuffs has been very strong in relation to the offerings, with prices held firmly at the maximum ceilings. Some of the nation's principal hay markets developed a weaker tone recently. Prices

at Portland remained nominally unchanged last week. Very little trading was done, as buyers were inactive and growers were not pressing supplies on the market.

The August 1 crop report boosted the estimate over July 1 about 160 million bushels, still 12 per cent below 1944 with the final outcome depending on the weather ahead.

A strong demand during the week ended August 4 was reported for chewing fescue grass seed for immediate shipment. Austrian winter pea prices also reflected good demand. Otherwise, trading was about steady on Oregon's principal seed crops that are now being harvested and prepared for shipment.

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