



# DEPARTMENT OF THE INTERIOR

## INFORMATION SERVICE

FISH AND WILDLIFE SERVICE

For Release WEDNESDAY, JANUARY 15, 1941.

### REPORT OF FEDERAL FISH HATCHERIES--DECEMBER 1940

Thirty-eight Federal hatcheries in 25 states distributed in suitable waters more than 94,934,000 fry and fingerlings of 16 varieties during the month of December. In addition, almost 63,000,000 eggs, fry, and fingerlings of 33 varieties were handled or ready for stocking.

Following is a breakdown summary of activities:

#### MAINE

Boothbay Harbor. - The work of collecting pollock eggs has been carried on a small scale, as only a few small boats operated out of Portland, Maine. Since November 20, 137,000,000 eggs have been taken.

Craig Brook. - The egg taking season of the station brood stock ended with a total take estimated at 4,360,420 brook trout eggs.

Distribution was made of 3,050 yearling and 376 adult brook trout, and 22,000 Atlantic salmon fingerlings. Fish were hauled by State of Maine tank truck and by applicants furnishing their own conveyances.

One hundred thousand brook trout eggs were shipped to the Nashua, New Hampshire, station; 54,684 brown trout eggs were received from the Paris, Michigan, hatchery.

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## NEW HAMPSHIRE

Nashua. - A total of 390,000 trout eggs was received during the month.

National Forest. - About 1,300,000 brook trout eggs were taken during the month, bringing the season's total take to approximately 3,100,000.

Shipping of fish was brought to a close, with the State's taking out 7,700 large brook trout yearlings.

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## MASSACHUSETTS

Gloucester. - Collections and liberations for both the off shore and shore fisheries during this period totaled: 175,720,385 pollock eggs and 3,707,612 cod eggs taken into the hatchery for propagation; 559,579,296 pollock eggs planted on the fishing grounds; and 51,930,748 pollock fry liberated from the hatchery.

Hartsville. - Thirty-eight thousand brook trout fingerlings have been given out to applicants at this station for waters in Massachusetts and New York, and 6,000 rainbow trout fingerlings for waters in Massachusetts; while 7,500 rainbow trout fingerlings were planted in adjacent streams by the station force.

The 45,900 brook trout eggs taken during the month bring the total to date to 300,570 eggs. Rainbow trout egg collections now total 54,180.

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## NEW YORK

Cape Vincent. - One hundred thousand rainbow trout eggs were received from the Leetown, West Virginia, station.

Whitefish eggs were collected.

Carpenters Brook. - Collections during the month totaled 85,728 brook, brown, and rainbow trout eggs.

Rochester. - Comprising the egg collections for the month were 222,684 brown, 38,014 brook, and 14,770 rainbow trout, a total of 275,468.

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#### PENNSYLVANIA

Lamar. - To date this station has taken 362,690 rainbow and 175,000 brown trout eggs. In addition, 793,416 brown trout eggs have been received from the state hatchery at Bellefonte, Pennsylvania.

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#### VIRGINIA

Roxbury. - Fish distribution work was completed on December 12. The total number of fish produced by this station for the fall distribution period is: 4,921 largemouth black bass; 15,910 crappie; and 140,040 bream.

Wytheville. - There have been shipped to other Federal fish cultural stations 420,000 rainbow trout eggs. Egg shipments from this station to date total 1,670,000, which is a little in excess of previous years.

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#### WEST VIRGINIA

White Sulphur Springs. - Three hundred thousand brook trout eggs have been received and 660,000 rainbow trout eggs shipped out by this station.

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#### NORTH CAROLINA

Edenton. - Fish distribution was completed and fingerling fish on hand planted in local waters. The shad fingerling were released into Pembroke Creek by opening the dam and letting the fish out with the flow of water, as it was found that seining increased the mortality.

Franklin. - This station is holding all fish over the winter months by using the Wayah swimming lake, which is adjacent to the rearing station, to hold the larger brook trout. The rearing pools are being used in holding rainbow and brown trout.

Hoffman. - Several loads of fish were delivered to the State Game Warden at Hoffman for planting in local waters, in accordance with an agreement with the North Carolina Fish and Game Department.

Pisgah Forest. - Twelve hundred rainbow trout, ranging in size from seven to 11 inches, were stocked in the North Fork of the French Broad River.

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#### SOUTH CAROLINA

Orangeburg. - Distribution for the month consisted of 580 black bass, 44,200 bream, 3,000 redbreasted bream, 470 crappie, 500 warmouth bass, 2,000 catfish, and 450 yellow perch, making the total output for all species to date 121,840 fingerlings and larger. A number of fish are still on hand for distribution.

Walhalla. - Two thousand brown trout have been selected and segregated, and a lot of brood fish will be selected from these so that this station will be able to furnish the necessary brown trout eggs for this station and rearing stations.

To date, approximately 500,000 rainbow trout eggs have hatched.

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#### GEORGIA

Chattahoochee Forest. - Distribution has been completed at this station.

The 13,600 native brook trout eggs taken are being incubated in a small hatching unit.

Cohutta. - There have been distributed 55,900 bream, 1,250 smallmouth black bass, and 2,175 Kentucky bass, all fingerling.

Lake Park. - To date, 8,000 black bass, 35,250 bream, 10,900 crappie, and 5,600 catfish fingerlings have been distributed.

Warm Springs. - During the month, 7,750 catfish and 5,300 bream were distributed from this station.

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#### ALABAMA

Elk River. - Seventeen hundred largemouth black bass fingerlings were planted in Wheeler Reservoir.

Marion. - Totals of 34,490 bass, 358,075 bream, and a few hundred miscellaneous fish were distributed, and approximately 75,000 bream fingerlings stored in holding ponds.

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#### MISSISSIPPI

Lyman. - This station distributed to applicants totals of 3,350 black bass and 147,050 bream fingerlings.

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#### TENNESSEE

Erwin. - Since the first of December, 260,300 rainbow trout eggs have been taken.

Flintville. - One hundred twelve thousand rainbow trout eggs were received from the Erwin, Tennessee, station.

Applications were filled from this station during the past month, with approximately 50,000 fingerlings, including largemouth and smallmouth black bass, crappie, bream, and rainbow trout, distributed in Tennessee and Alabama.

The 12,000 bream and 3,000 largemouth black bass received from the Marion, Alabama, station were distributed to applicants in Tennessee from this station.

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#### MICHIGAN

Charlevoix. - Assistance was given the Michigan State Conservation Department in the collection of lake trout eggs by furnishing spawning equipment.

Northville. - During this period, 108,860 rainbow trout eggs were taken.

A shipment of 101,200 brown trout eggs was received. The eggs were regular in size, well packed, and reached Northville in good condition.

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#### WISCONSIN

La Crosse. - Brook trout eggs received during the month numbered 1,015,880. In addition, 300,000 brown trout eggs were received from Mt. Shasta, California.

Lake Mills. - One hundred thousand brook trout eggs were received from the Leadville, Colorado, station.

Seventy-five thousand brown trout eggs were received from the hatchery at Mt. Shasta, California.

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#### MINNESOTA

Duluth. - During the month, this station received shipments of 4,802,400 lake trout eggs, the bulk of which were taken by Charlevoix, Michigan, fishermen.

Other shipments received included 504,200 brook trout eggs from the Leadville, Colorado, station; 152,000 brown trout eggs, and 500,000 brook trout eggs from the Creede, Colorado, station.

Arrangements were made with some of the commercial herring fishermen operating out of the Duluth harbor to get some eggs of that species; and, although the height of the run was over, they did manage to secure 2,260,000 eggs.

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#### IOWA

Manchester. - A total of 1,357,400 rainbow trout eggs has been taken to date. Only 8,000 loch leven trout eggs have been secured from station stock.

Forty-three thousand rainbow trout eggs were received from the Neosho, Missouri, station. These are to be reared to fingerlings, culled, and a portion held for future brood stock. A shipment of 152,000 brown trout eggs from wild trout was received. Both shipments arrived in good condition.

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#### MISSOURI

Bourbon. - While 4,708,000 rainbow trout eggs have been collected to date, it is anticipated that another  $1\frac{1}{2}$  to  $2\frac{1}{2}$  million will be taken this season.

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#### NEBRASKA

Crawford. - Approximately 200,000 rainbow trout eggs have been taken from station brood stock.

Shipments of 300,000 brook trout eggs from the Creede, Colorado, station; 200,000 rainbow trout eggs from the Neosho, Missouri, station; and 400,000 loch leven trout eggs were received.

Distributed during the month were 11,338 brook trout fingerlings and 992 2-year-old rainbow trout.

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#### OKLAHOMA

Tishomingo. - More than 100,000 fish were supplied to applicants during the month, of which 19,000 were bream transferred to the Fort Worth, Texas, station. Of the total number, about half were crappie.

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#### ARKANSAS

Mammoth Spring. - One thousand fingerling bream were distributed from this station.

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#### NEW MEXICO

Dexter. - About 25,000 green sunfish and 2,000 large fingerling bass were distributed during the month.

The irrigation canal running through the valley was drained for cleaning and something over 9,000 channel catfish were salvaged.

Elephant Butte. - Plantings during the month included 158,600 bluegill and 71,040 crappie fingerling.

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## UTAH

Laketown. - This substation received 500,000 brook trout eggs from the Leadville, Colorado, station.

Springville. - There were delivered to applicants 6,120 blackspotted trout.

Seven hundred thousand brook trout eggs were received from Creede, Colorado, and 255,192 brown trout eggs from Paris, Michigan.

Rainbow trout eggs, totaling 642,517, were taken from station brood stock.

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## COLORADO

Creede. - Spawn-taking was finished at Electra Lake, total take for the month being 63,000 brook trout eggs. These were transported to the Leadville, Colorado, station.

Spawn-taking at Lake San Cristobal ended December 6. All brook trout eggs taken here during the month were sent direct to the Leadville, Colorado, station, since mountain passes between Creede and Lake San Cristobal were not open.

Private fish-culturists brought in 262,000 brook trout eggs for handling under cooperative agreements. Total number of brook trout eggs collected, 6,845,000: owners' share, 3,107,500; Fish and Wildlife Service's share, 3,737,500.

Shipments of brook trout eggs were as follows: Crawford, Nebraska, station, 300,000; Spearfish, South Dakota, station, 300,000; Springville, Utah, station, 700,000; Duluth, Minnesota, station, 500,000.

Leadville. - Brook trout egg collecting was completed during the month. The total at Leadville and the Creede sub-station was approximately 16,800,000 brook trout eggs. About 3,000,000 eggs have been shipped to other stations.

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#### WYOMING

Saratoga. - Trout fingerlings distributed during the month included 48,200 blackspotted and 13,860 brook.

A total of 1,432,420 brook trout eggs was received from the Wyoming Game and Fish Commission, and 478,500 rainbow trout eggs were received from the Bourbon, Missouri, station.

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#### MONTANA

Bozeman. - Over 800,000 lock leven trout eggs were received from the Montana State egg collection field in the upper Madison Valley of this State. A total of 683,100 were repacked and delivered to the Ennis, Montana, station; and 75,000 were retained for hatching and rearing at this station.

Ennis. - Fish on hand include 17,100 fingerling, 19,700 yearling, and 4,550 adult rainbow trout; 521,000 lock leven trout eggs and fry; and 683,100 loch leven trout eggs received from the Montana State Fisheries via the Bozeman station.

Spawning operations were continued through the month with a total of 610,860 loch leven trout eggs taken to date. Operations at Lower Odell Creek station were suspended December 13 at the peak of the run at that point because of ice gorge in the Madison River which flooded

the site with water and ice, making it impossible to continue operation. Severe cold weather during almost the entire season has hampered operations considerably and indications are that the take has been cut in half by the poor conditions.

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## IDAHO

Clark Fork. - During the month, 73,880 blackspotted and 7,149 rainbow trout fingerlings were transferred to the Sandpoint State hatchery for distribution for the Bonner County Sportsmen's Association; and 5,660 blackspotted trout fingerlings were distributed in the waters of the Kaniksu National Forest.

Hagerman. - Distribution of fish consisted of 157,300 rainbow trout fingerlings planted in the South Fork of Snake River and 19,000 blackspotted trout fingerlings planted in the Teton River, both streams located in the Teton Basin near St. Anthony, Idaho.

A total of 268,000 eggs have been collected from the rainbow trout brood stock.

A shipment of 104,430 mackinaw trout eggs was received from the Rainbow Ranch, Troy, Montana, to be hatched for the Idaho Fish and Game Department. Three shipments of rainbow trout eggs, totaling 348,142, were received from the Wytheville, Virginia, station. Two hundred seventy-one thousand eastern brook trout eggs were received from the State hatchery at Ashton, Idaho.

Salmon. - Twenty-seven thousand rainbow trout were distributed in the Lemhi River and tributaries and 7,650 eastern brook trout in Salmon River tributaries, all by station truck.

## WASHINGTON

Birdsview. - The silver and chinook salmon run, in Grandy Creek, has been a complete failure this season. It is believed that the extreme muddy condition of the water in the Skagit River, of which Grandy Creek is a tributary, was the main factor in eliminating the salmon runs from the streams of this locality. Excess movements of glaciers on the Skagit River watershed were the cause of the mud and silt deposits in the Skagit River.

Carson. - In addition to the 2,100,000 chinook salmon eggs transferred to the Carson station from the Big White Salmon, Washington, substation, 2,500,000 chinook salmon eggs are being held temporarily at this station for planting in Tyee Springs Creek.

Before salmon eggs can be planted in Tyee Springs Creek, it will be necessary to clean out sufficient vegetation to allow a free flow of water. In view of the presence of slime in the creek, the eggs will be held in the hatchery until ready to start hatching before they are planted.

Duckabush. - Assistance was given to the Quilcene, Washington, station in collecting chum salmon eggs at Walcott Slough station.

All early chum salmon eggs have now hatched and portions of the collection have advanced sufficiently to allow some liberation very shortly.

Leavenworth. - Spawn-taking operations at this station were completed.

During the season which started on August 22, the number of eggs collected was as follows: blueback salmon, 6,065,800; chinook salmon, 3,979,700.

Low water temperature in Icicle Creek has retarded development of all eggs and fry on hand; about 600,000 chinook salmon eggs have hatched out, while the blueback salmon have just begun to hatch.

Little White Salmon. - Of the 5,670,000 chinook salmon eggs at this station, 1,500,000 have already hatched.

There are over 1,000,000 chinook salmon eggs on hand that the old hatchery building will not have space for. Equipment is being transferred from the Clackamas, Oregon, station to handle the surplus eggs.

Quilcene. - Totals of 721,149 silver salmon eggs have been collected to date on the Big Quilcene River. The portion so far eyed indicates that an excellent hatch will result, with a minimum of loss. It is hoped to better this collection considerably if weather conditions improve.

At Walcott Slough, a total of approximately 6,500,000 chum salmon eggs has been collected to date. Here, also, due to the unusual cold clear weather, the fish run has been slowed up, but is expected to start at a heavy rate if the weather moderates. The runs were underway at a heavy rate, and have the appearance of being the heaviest in many seasons.

Quinalt. - From the Falls Creek trap at the station, 1,012,565 sockeye and 199,970 silver salmon eggs were secured during the month. These eggs, as well as the 55,385 chinook and 751,740 sockeye salmon eggs already on hand, are in good condition.

Spokane. - A consignment of 1,515,000 eastern brook trout eggs was received at this substation from the Washington State Game Department. The eggs were from local wild stock.

On December 17, a total of 1,237,500 brook trout eggs were shipped via the Birdsview station truck for delivery to a number of the Service's hatcheries in this state. Two hundred thousand eggs from this lot are being retained at this station to be hatched and reared.

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#### OREGON

Butte Falls. - There are some 1,101,000 chinook salmon fry and eggs on hand that are being cared for, and 116,700 silver salmon eggs have been collected to date. The first of the silver salmon eggs were taken early in December.

The balance of the steelhead fingerlings on hand were liberated by the Oregon State Game Commission in the Rogue River watershed, making a total of 424,932 fingerlings liberated.

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#### CALIFORNIA

Battle Creek. - Owing to the large number of eggs collected this season, it has been considered advisable to plant a number of chinook salmon eggs in various streams in the Sacramento River watershed. Accordingly, to date, 512,400 of these eggs have been planted in Cottonwood, Clear, and Spring Branch Creeks. It is expected that a total of at least 3,000,000 eggs will have to be planted in this manner in order to be able to handle the remaining number in the hatchery.

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