

# MAINE STATE LEGISLATURE

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# Seventieth Legislature.

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SENATE.

No. 14

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## STATE OF MAINE.

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IN THE YEAR OF OUR LORD ONE THOUSAND NINE  
HUNDRED AND ONE.

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IN SENATE, January 15, 1901.

*Ordered,* That the commissioners of inland fisheries and game be and are hereby requested to report to the Senate, at an early date, a full and complete statement of the total number of all fish fry, (stating the quantity and kind of each), which have been hatched at each and every hatchery belonging to the State, as well as the total amount of each kind of fry, or fingerlings, or yearlings, received from all other sources of supply during each and every year from 1890 to 1900.

Also to report the time, number and kind of all fish fry, fingerlings, or yearlings, placed by them in each lake, pond, river, stream or brook during the same period.

Also to report the cost of hatching, raising, and the distribution, per one thousand, of fry, fingerlings, or yearlings, for each and every year above mentioned, stating the various items included in cost of same.

In Senate Chamber, January 15, 1901.

Read and passed.

A true copy,

Attest:

KENDALL, M. DUNBAR,

*Secretary.*

*To the Honorable Senate of the State of Maine:*

In obedience to the annexed order of your honorable body we beg leave to submit the following:

During the year 1890 Hon. E. M. Stilwell, now deceased, was chairman of the commissioners of fisheries; the jurisdiction of the commissioners then extended over the sea and shore fisheries as well as the inland fisheries and game.

Mr. Stilwell served upon the commission as chairman until his decease in 1893.

The present board of commissioners have no records of the office during this time except such as are contained in the annual reports of the commissioners, and in the bills for services and expenditures on file in the office of the secretary of State.

From the report of the commissioners for 1890 we copy the following:

"DISTRIBUTION OF LAND-LOCKED SALMON EGGS IN 1890.	
Eggs taken at Sebago.....	700,000
Presented to the State by the U. S. commission....	4,000
	740,000"

(*Note*—Mr. Stanley informs us that this was a mere estimate as they had no method of counting their eggs at that time, and is probably greatly in excess of the number actually taken for this and several years following).

Hatched at Rangeley.....	75,000
Hatched at Weld.....	75,000
Hatched at Enfield.....	115,000
Hatched at Edes Falls .....	475,000

DISTRIBUTION FROM WELD HATCHERY.

To Big Island pond, Franklin county.....	10,000 fry.
To Whitney pond, Canton.....	10,000 "
To Baron and Tilton ponds, Fayette.....	10,000 "
To Weld pond and tributaries.....	45,000 "

DISTRIBUTION FROM ENFIELD HATCHERY.

To H. W. Tucker, for Medomak lake.....	10,000 fry.
To W. N. Child, Biscay pond.....	10,000 "
To D. W. Campbell, Tunk & Spring river lakes,	15,000 "

To Henry Peavey, Flood's pond.....	10,000	“
To L. E. Kimball, Upper and Lower Hadlock ponds .....	10,000	“
To T. N. Erwin, Squaw Pan lake, Aroostook county .....	10,000	“
To Geo. A. Sweet, Hat Case pond.....	10,000	“
To Rodick & Son., Mt. Desert, Eagle lake.....	10,000	“
To Henry Golder, Belgrade pond.....	10,000	“
To Henry Hastings, Moose pond.....	10,000	“
To G. W. Fairgraves, Hayden lake.....	10,000	“

## DISTRIBUTION FROM EDES FALLS HATCHERY.

To Thompson, Oxford.....	10,000	fry.
Pennewassee pond, Norway.....	10,000	“
Sebago lake, ponds leading into same.....	455,000	“

These were all planted as fry. Up to this time no effort had been made to feed the young fry through the season.

1891-92.

Reports printed in one volume. No record is known to exist of the work of the commission during these years outside of their printed report. This report says: “The success of our work is best recorded by the journals of the day, by railroad superintendents, our hotel keepers and the pretty little village resorts of our summer visitors.” The report goes on to state as follows: “Our lakes have been plentifully replenished with fish in accordance generally with the expressed wishes of the local inhabitants. In too many instances we have been called upon to re-stock a pond that has been depleted, simply by the wasteful custom of visiting the spawning beds of the fish and obtaining their winter's supply of fish by the spear and net. In these cases naught has been left but the white and yellow perch and the pickerel, these waters we are yearly called upon to stock with land-locked salmon. We have responded with black bass. We have in consequence some of the best black bass ponds, so far as outlay is concerned, in New England. Black bass propagate so rapidly that we are required no longer to protect them by legislation.”

We find in this report the first mention “of feeding the young fry for a length of time that will prepare the young fish to protect and feed themselves.”

The report says: "The United States Commission has lately adopted the system of feeding the young fry. We deem this a great advantage, as it increases the chances of life to the newly born fish. One of the young fish that is fed for six or eight months before being turned into a pond or river is deemed equal to ten times the number of the newly born fish when planted, and liable to be eaten by even the most worthless vermin that swims. The United States Commission has been very liberal to our State in gifts of salmon eggs and fry. We intend to adopt the system of feeding all our young fishes for some six or eight months in our State hatcheries before planting them, just as soon as our means will admit of it. We have already introduced it in a small way at Auburn with our land-locked salmon, having fed and distributed successfully some 50,000 six months old fish. We get our stock of salmon eggs from Sebago lake, we hatch and turn back into the lake 50 per cent of the entire product."

On page 12 of this report we find the following: "Land-locked salmon have been put into the following ponds during the past year:

"Phillips pond, Dedham; Hopkins pond, Floods pond, Tomah pond, Forest; Houlton pond, Tunk pond, Cherryfield; Columbia Falls.

"From Auburn, six months old fish have been planted as follows:

"Whitney pond, Center; Worthy pond, Peru; Belgrade pond, Belgrade; Unity pond, Unity; Newport pond, Newport; China pond, China; Swan lake, Swanville; Alford's lake, Hope, Cobboosecontee, Monmouth; Bear pond, Turner; Sibley pond, Canaan.

"From Sebago eggs were sent to Rangeley, Auburn, Enfield, Cathance, Swanville. Stocked from Sebago, Sebago lake, Anonmous pond, Panther pond, Peabody pond, and numerous ponds adjacent to and tributaries of Sebago."

1893-94.

In 1893-94 Hon. Thos. H. Wentworth was chairman of the commission and associated with him was Hon. Henry O. Stanley.

We have received no records from Mr. Wentworth except such as are found in the report for these years, which is as follows:

“In the fall of 1892, 345,000 salmon eggs were taken at Crooked river in Naples. These were hatched the following spring and one-half of all the young fish were returned to the waters from which the parent fish were taken, the other half distributed through the different hatcheries and liberated in other waters of the State. In the fall of 1893, 400,000 eggs were taken at Naples, one-half of these eggs were hatched and fed at the hatchery at Edes Falls and when the young fish were four months old were liberated in the waters of Sebago lake.

“The other half were fed at Auburn and other hatcheries in the State and liberated in State waters. There are now in the hatchery at Edes Falls nearly 1,000,000 salmon eggs \* \* \* one-half of these will be shipped to different hatcheries in the State and the young fish fed four months; the balance will be fed and turned back into the waters of Sebago lake.

Twenty-five lakes and ponds in the State were stocked with these fish, hatched and fed at the Lake Auburn Hatchery and in the fall of 1894, forty-five lakes and ponds were stocked.

#### TROUT.

In the spring of 1892 from 750,000 eggs taken at Lake Auburn in 1892 there were hatched at the different stations and distributed and liberated in the waters of the State, trout fry and fed fish, one-half being returned to Lake Auburn from which all the eggs were taken. In the fall of the same year and at the same point there were taken 850,000 trout eggs. With the exception of 125,000 eggs sent to Enfield and Caribou Hatcheries, these eggs were hatched and the young fish fed at Auburn, Sebago, Rangeley, and Kineo Hatcheries. 400,000 of these fed fish were returned to the waters from which the parent fish were taken, and the remainder distributed by the commissioners with reference, not only to just claims of different localities, but also having in view the best facilities for taking parent fish in the future years at different points in the State.

250,000 trout eggs were taken at Swan lake, at Swanville, in Waldo county; the major portion of these were returned to Swan lake and the balance of about 75,000 planted in other ponds.

TABLE 1—SHOWING NAME AND LOCATION OF WATERS STOCKED WITH LAND-LOCKED SALMON IN 1893.

Where planted.	County.	Where planted.	County.
Parmachenee lake.....	Oxford.	Pennewassee lake.....	Oxford
Range ponds .....	Oxford.	Big Island lake .....	Franklin
China pond.....	Kennebec.	Richmond pond.....	Kennebec
Cobbosseecontee pond. ....	Kennebec.	Unity pond.....	Waldo
Meddybemps.....	Washington.	Moose pond .....	Somerset
Attean lake .....	Somerset.	Wilson pond.....	Piscataquis
Donnell's pond.....	Hancock.	Hatcase pond.....	Hancock
Etna pond.....	Penobscot.	Newport pond.....	Penobscot
Parker pond.....	Penobscot.	Brewer pond.....	Penobscot
Auburn lake.....	Androscoggin.	Phillips pond.....	Hancock.
Lincoln pond.....	Penobscot.		

From Oakland Hatchery, ponds in Belgrade and Winthrop were stocked.

From Caribou Hatchery, ponds in Aroostook county were stocked.

From Rangeley Hatchery, Rangeley waters were stocked.

From Edes Falls Hatchery, Sebago lake and adjoining ponds were stocked.

From Swanville Hatchery, Swan lake was stocked.

TABLE 2—SHOWING NAME AND LOCATION OF WATERS STOCKED WITH LAND-LOCKED SALMON IN 1894.

Where planted.	County.	Where planted.	County.
Worthly pond .....	Oxford.	Maranocook lake .....	Kennebec
Whitney pond.....	Oxford.	Cobbosseecontee.....	Kennebec
Jennee pond.....	Oxford.	Annabessacook .....	Kennebec
Marshall pond .....	Oxford.	Taylor's lake.....	Kennebec
Pennessewassee lake.....	Oxford.	Richmond lake.....	Kennebec
Moose Pond.....	Somerset.	Madaseunk. ....	Aroostook
Wood pond.....	Somerset.	Cathance.....	Washington
Emden.....	Somerset.	Forest.....	Washington
George pond .....	Somerset.	Grand .....	Washington
Clearwater pond.....	Franklin.	Pond, T. 32.....	Hancock
North pond. ....	Franklin.	Shin pond .....	Penobscot
Varnum's pond .....	Franklin.	Morrison pond. ....	Hancock
Big Island Pond.....	Franklin.	Waterboro.....	Cumberland
King & Bartlett pond .....	Franklin.	Long .....	Cumberland
Sibley pond .....	Franklin.	Sabbath Day .....	Cumberland
Seven Tree Pond .....	Knox.	Hayden .....	Somerset
Alford's lake .....	Knox.	Sebago and Little Sebago..	Cumberland
Little Wilson pond .....	Androscoggin.	Anonymous. ....	Cumberland
Bear Pond.....	Androscoggin.	Hopkins .....	Hancock
Range pond .....	Androscoggin.	Houston .....	Piscataquis
Taylor pond.....	Androscoggin.	Hebron.....	Piscataquis
Holway.....	Androscoggin.	Etna.....	Penobscot
Auburn lake.....			

1895.

The board this year was composed of Hon. Thos. H. Wentworth, Hon. Henry O. Stanley, and Hon. Chas. E. Oak.

This year a new fish hatchery and feeding station was established in Webb's pond, in the town of Weld. 300,000 land-locked salmon eggs were obtained at Sebago, 275,000 land-locked salmon eggs were obtained at Lake Auburn, and nearly 100,000 at Webb's pond.

The report says: "That the trout eggs taken this year will nearly equal the amount taken last year."

## LAND-LOCKED SALMON.

In February, 1895, there was placed at seven hatcheries 615,000 land-locked salmon eggs, as follows: Lake Auburn Hatchery, 175,000; Caribou Hatchery, 50,000; Kineo Hatchery, 40,000; King & Bartlett Hatchery, 10,000; Sebago Hatchery, 275,000; Rangeley Hatchery, 25,000; Oakland Hatchery, 40,000.

The product of these eggs was planted as fed fish in the autumn of 1895, as follows; from Lake Auburn Hatchery in the following waters: Mousam lake, York; Moose pond, Somerset; Clearwater pond, Franklin; Sweets pond, Franklin; Range pond, Androscoggin; Bear pond, Androscoggin; Sebattus pond, Androscoggin; Alfords lake, Knox; Dyers pond, Lincoln; Rowe pond, Somerset; Square pond, York; Duck pond, Cumberland; Hayden lake, Somerset; Embden pond, Somerset; Megunticook lake, Knox; Lake Hebron, Piscataquis; Kezar pond, Oxford; George pond, Knox; Howards pond, Oxford; Campbells pond, Lincoln; Sandy (Ledge) pond, Waldo; Freedom pond, Waldo; Anasagunticook lake, Oxford; Brettuns pond, Androscoggin; Taylor lake, Androscoggin; Hancock lake, Cumberland; East Machias waters, Washington; Center pond, Piscataquis; Newport pond, Penobscot; Big Island lake, Franklin; Pemaquid lake, Lincoln; Sunnabec lake, Knox; Sand lake, Cumberland; Hermon pond, Penobscot. The balance of 8,000 in Lake Auburn.

From Sebago Hatchery, in Sebago lake and waters tributary thereto. From Caribou Hatchery, in Squaw Pan lake, Portage lake, Square lake, and Madawaska lake, equally.

The entire product of land-locked salmon from Rangeley hatchery was planted in Rangeley waters; and that from Kineo,



in Moosehead lake and tributaries. From the Oakland Hatchery these fish were planted in Ellis pond by the local association. That from King and Bartlett Hatchery was planted in lakes by that name or their tributaries.

#### BROOK TROUT.

In February, 1895, there was placed in nine hatcheries 800,000 brook trout eggs, as follows: Lake Auburn Hatchery, 300,000; Sebago Hatchery, 100,000; Caribou Hatchery, 100,000; Rangeley Hatchery, 100,000; Kineo Hatchery, 75,000; Oakland Hatchery, 50,000; King & Bartlett Hatchery, 40,000; Big Island Hatchery, 15,000; Hartland Hatchery; 20,000.

The product of these eggs was planted largely in the waters of the localities of the several hatcheries. From the Lake Auburn Hatchery fed fish were liberated in Lake Hebron, and Little Houston pond in Piscataquis county; Howards pond in Oxford, and Podunk pond in Franklin county. The remainder was planted as fed fish in Lake Auburn, from which the entire 800,000 eggs were obtained.

From Sebago Hatchery, in Sebago waters. From Caribou Hatchery, in Squaw Pan lake, Portage lake, Madawaska lake, Caribou stream, and in tributaries of the Meduxnekeag river.

From Rangeley Hatchery and Rangeley waters. From Moosehead lake in Moosehead lake waters. Those at Oakland in Kennebec waters, by a local association as follows: Ellis pond, North pond, Maranacook lake, Great, East, and Cobbosseecontee lakes.

From King and Bartlett in the waters and tributaries to lakes of that name. From Big Island in local waters. From Hartland in Moose pond and tributaries. 2,000 brook trout were obtained from the United States Hatchery at Orland and liberated in lake Megunticook, in Camden, Knox county.

Fed fish planted in Maine waters by the United States from Green lake, U. S. F. C. station as follows: Varnums pond, Farmington; Temple, and Wilton; Whites pond, Penobscot; Woods pond, Blue Hill; Hadlocks, Lower and Upper ponds, N. E. Harbor; Waterville, Embden pond, N. Anson; Moose pond, Hartland; Duck and Junior lakes; Belfast waters, Belfast; Swan lake, Jordans pond, Studleys pond and Goose river; Works pond, Sweets pond, Farmington.

## BROWN TROUT.

The United States introduced a few of these trout into Harts pond, near Orland, and into Great brook, in 1891; in 1892 they were planted in Toddy pond; in 1893, 500 were furnished to individuals, but the place of planting is not given. In 1893-4 they were planted in Harts pond, Branch, Rocky, Phillips, Fourth, Lidenspecker, Rogers, Big Tunk and Pattens pond and Green lake. In 1894-5 more were planted in Branch and Weston ponds. 6,000 of these trout in the fall of 1895 were planted in Range pond, Poland, Androscoggin pond, in Leeds and Wayne; and Sebattus pond in Greene and Wales.

## SMELTS.

*Smelt eggs introduced in the spring of 1895.*

Three boxes were introduced into Rangeley waters, one box to Parmachenee lake, one box to Seven ponds, one box to King and Bartlett lake, one box to Big Houston lake, one box to Etna pond, one box to Twin lakes, one box to Squaw Pan lake, one box to Madawaska lake, one box to Auburn lake. (One box contained 100,000 smelt eggs or more).

1896.

Commissioners, Leroy T. Carleton, Henry O. Stanley and Charles E. Oak.

800,000 land-locked salmon eggs were taken at Sebago lake, and 200,000 trout eggs. 450,000 trout eggs were taken at the Monmouth Hatchery.

Waters stocked with 5 months old land-locked salmon in October, 1896, from eggs taken in 1895, from the Auburn Hatchery:

Androscoggin county: Bear, Taylor, Auburn, and Trip ponds.

Aroostook county: Madaseeunk.

Cumberland county: Duck pond.

Franklin county: Dodge, Rangeley, King, Bartlett, Loon lakes, Vermus and Clear Water ponds.

Hancock county: Walkers pond, Pine lake.

Kennebec county: Dyers pond, Branch Mills, Crotched, Flying ponds, Maranacook, Annabessacook, Cobbosseecontee lakes.

Knox county: Megunticook lake.

Oxford county: Mooselucmaguntic lake, Anasagunticook, Kezar, Bryants, Pennewassee, Waterford ponds.

Penobscot county: Crocker pond, Alligator and Stetson lakes.

Piscataquis county: Moosehead, Sebec lakes and Rum pond.

Somerset county: Attean, Holeb lakes, Fish, Flagstaff ponds.

Waldo county: Swan lake, Pitcher pond.

Washington county: Cathance lake, Tunk and Hancock ponds.

York county: Long, Watchie, Buggernut, Wilson, Little, Ossippee, Bonnybeg, and Square lakes.

Waters stocked with five months old land-locked salmon in October, 1896, from eggs taken in 1895, from the Sebago Hatchery.

Cumberland county: Peabody, Sebago, Long lakes, Pleasant, Painters and Thomas ponds.

Waters stocked with five months old land-locked salmon in October, 1896, from eggs taken 1895 from the Weld Hatchery.

Franklin county: Weld pond.

In addition to the above 20,000 land-locked salmon eggs and 20,000 trout were hatched by the Commodore Club at Hartland; 20,000 salmon and 35,000 trout by the Megantic Club; 20,000 salmon and 35,000 trout at Belgrade by the Kennebec Association, and 35,000 trout at Monson by Mr. Crafts. These were hatched, fed and distributed in public waters without expense to the State.

### CARIBOU HATCHERY.

#### STEEL HEAD TROUT.

June 15th received from United States Hatchery 1976 small fish.

494 of them placed in Meduxnekeag stream.

988 of them placed in Aroostook river.

494 of them placed in hatchery and fed till fall, only 13 dying during the time.

In October 100 were placed in Cross lake. Balance in Aroostook river.

#### BROOK TROUT.

The following lakes were stocked with trout from this hatchery:

Square lake, Portage lake, Cross lake, Malluwaskee lake and stream, Mud lake, Squawpan lake, St. Croix lake, Black brook, pond in Limestone, Otter brook, Noyes pond, Limestone; Nickerson lake and Meduxnekeag stream, Houlton; Pleasant pond, Island Falls; Little Huston pond, Katahdin Iron Works; Hadlock's pond, Mt. Desert; Porgie pond, Old Town; Rowe pond, Somerset county; Moosehead lake, pond near Bangor, Kennebec lakes.

Besides these there were a large number of small fish distributed in June in waters of Aroostook county for the reason there was not sufficient room to feed them at the hatchery.

BROOK TROUT FROM ENFIELD.

To E. B. Rodick, for Eagle lake.....	5,000 fry
For Tunk pond.....	5,000 fry
For lakes in Machias.....	10,000 fry
Cold Stream .....	20,000 fry

STEEL HEAD TROUT.

From Orland (United States Hatchery), Penobscot river, 40,000  
Fall 1896 eggs now in hatcheries:

LAND-LOCKED SALMON.

Lake Auburn .....	120,000
Sebago lake .....	738,000
Rangeley lake .....	18,000
Swan lake .....	25,000
Weld lake .....	70,000

BROOK TROUT EGGS.

Lake Auburn .....	850,000
Monmouth .....	450,000
Sebago lake .....	200,000
Swan lake .....	100,000
Weld lake .....	75,000

BROWN TROUT EGGS.

Auburn Hatchery .....	20,000
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The amounts expended at the several hatcheries are as follows:

Caribou Hatchery .....	\$1,852 18
Auburn Hatchery .....	3,262 28
Weld Hatchery .....	162 50
Edes Falls Hatchery .....	1,179 01
Monmouth Hatchery .....	1,289 78
Swan lake .....	101 00

PONDS STOCKED WITH SMELTS, SPRING 1896.

Sent B. L. Briggs, Caribou, three boxes; C. G. Dunn, Ashland, two boxes; T. N. Erwin, Presque Isle, one box; L. D. Ludwig, Houlton, three boxes; G. D. Bisbee, Rumford Falls, three boxes; G. L. Hovie, North Anson, one box; Samuel Furbush, Hartland, one box; L. A. Smith, Farmington, one box; H. L. Thom, Plymouth, one box; R. T. Rankin, Unity lake, one box; Grant & Landers, Stratton, two boxes; H. W. Pierce, King-Bartlett, one box.

1897.

REPORT OF THE STATE HATCHERIES.

EDES FALLS, CUMBERLAND COUNTY.

LAND-LOCKED SALMON.

260,000 of the 349,000 eggs left in this hatchery hatched in good shape.

150,000 trout eggs hatched of the 170,000 trout eggs taken and put in the hatching troughs.

175,000 trout were liberated in the waters of Sebago lake in June; 25,000 were fed at the hatchery and liberated in September.

The distribution of the salmon in the fall of the year was as follows: 10,000, Long lake; 5,000, Peabody pond; 5,000, Thomas pond.

The balance were liberated in Crooked river and Songo river, tributaries to Sebago lake, and in Sebago lake.

LAKE AUBURN FISH HATCHERY.

There were 43,200 salmon raised at this hatchery which were planted in the following waters: Moosuctic lake, Thompson lake, Pennewassee lake, Keoka lake, Anasagunticook lake, Sabbathday pond, Range ponds, Gull ponds, Chain ponds, Damariscotta

pond, Duck pond, Upper Kezar pond, Tripp pond, B. pond, Brettuns pond, Loon lake, Hayden lake, Madison pond, George pond, Little Wilson pond, Garland lake, Dexter lake and Lake Auburn.

Twenty thousand brown trout were raised at the Auburn Hatchery which were planted in the following waters: Trip pond, Sebattus pond, Pennewassee lake, Highland lake, Dexter lake, Range pond, Island ponds.

#### COBBOSSEECONTEE FISH HATCHERY.

291,302 trout eggs hatched at this hatchery; 120,708 were reared and planted in the waters of the State.

70,093 land-locked salmon were raised at this hatchery the past year.

9,000 golden trout were raised at this hatchery the past year.

48,764 quinnnet salmon were raised from eggs received from the United States Fish Hatchery Station at East Orland and were planted in the following waters: Annabessacook lake, Bungenuck pond, Brewer pond, Cobbosseecontee lake, Cochnewagon lake, Clearwater pond, Carleton pond, China lake, Damariscotta pond, Ellis pond, Embden pond, Georges pond, Lake George, Flying pond, Loon lake, Little Ossippee pond, Maranacook lake, Moosehead lake, North pond, Pleasant pond, Postmuck pond, Pushaw lake, Sebec lake, Swan lake, Schoodic lake, Three Mile pond, Turner pond, Wilson pond, Webber pond, Holeb lake, Holbrook pond.

#### CARIBOU FISH HATCHERY.

5,925 salmon were planted in the following lakes:

Square lake, Squawpan lake, Nickerson lake, Houlton lake, Pleasant pond, Island Falls pond, Portage lake, Moosingin lake, Madawaska lake, Lambert lake, Pleasant pond, Hersey.

200,000 trout were reared at this hatchery and planted in the following waters: Three small brooks, Searsport; Mud lake, Squaw Pan lake, Haystack, Moosehead lake, Nickerson and Drews lake, Houlton; Little Houston lake, Katahdin Iron Works; Pleasant pond, Island Falls; Portage lake, Quaggy Joe, Presque Isle, Munsungan lake, Madawaska lake, Eagle lake, Jordan pond, Seal Harbor; Echo lake, Halls Quarry, Bar Har-

bor; Rocky lake, Whiting; Jones pond, West Gouldsboro; Camden lake, Howard lake, Calais; Lambert lake, Washington county; G. L. stream, Holbrook lake and Bas Kahegan stream, Danforth; Bear pond, Shirley; Houlton, St. Croix lake, Ship pond, Mt. Chase, Linneus.

1898.

## REPORT OF HATCHERIES.

### EDES FALLS HATCHERY.

261,000 fed fish or fingerlings of land-locked salmon were raised at this hatchery and all planted in the tributary waters of Sebago lake.

### LAKE AUBURN HATCHERY.

125,000 land-locked salmon were raised at this hatchery, also 189,000 trout, 20,000 brown trout, 2,500 golden trout, and 1,000 rainbow trout.

### COLD STREAM OR ENFIELD HATCHERY.

30,000 togue fry from this hatchery were planted in Lake Pennewassee in Norway, also 6,000 land-locked salmon in lakes in Township 32, Hancock county, and 6,000 in First, Second and Third ponds in Blue Hill, 6,000 in Springfield and Pistol lakes, Penobscot county, 6,000 in Lake Nicatous and 2,000 in Birch Stream pond, Penobscot county.

### MONMOUTH OR COBBOSSECONTEE HATCHERY.

76,000 land-locked salmon were raised at this hatchery, also 30,000 quinnat salmon, also 100,000 trout.

### CARIBOU HATCHERY.

There were raised at this hatchery 121,000 land-locked salmon and 120,000 trout; 68,000 were planted in the spring as fry, the balance in the fall; also 15,000 quinnat salmon, 11,240 were planted as fry, the balance in the fall.

There were shipped to private hatcheries, where the eggs were hatched and planted in waters in the locality of these hatcheries, to Parmachenee, 30,000; Megantic Club Hatchery, 35,000;

Rangeley, 35,000; Samuel Furbush, Hartland, 35,000; land-locked salmon eggs.

50,000 trout eggs were sent to the Megantic Club Hatchery, 100,000 to the Sebago Lake Hatchery, 100,000 to S. L. Clark at Monson Private Hatchery, 50,000 to the Parmachenee Hatchery, 50,000 to Rangeley Private Hatchery, and 30,000 to Samuel Furbush, at the private hatchery at Hartland.

The fish raised at the Monmouth, Auburn and Caribou Hatcheries were planted as follows: Webber pond, Vassalboro, salmon and trout; Brewer pond, Orrington and Bucksport, 1,000 salmon; Homes Quarry pond, Rockport, 1,000 salmon; Pleasant pond, Whitefield and Jefferson, 1,000 salmon; St. George lake, Liberty, 1,000 salmon; Silver lake, Dexter, 1,000 salmon; Lake George, Skowhegan, 5,000 salmon; Sebesticook lake, Newport, 1,000 salmon; Lake Takoma, Litchfield, 1,000 salmon; Pleasant pond, Richmond and Litchfield, 2,000 salmon; Pierce pond, Madison, 1,000 salmon; Great pond, Belgrade, 2,000 salmon; Damariscotta lake, Lincoln county, 5,000 land-locked salmon; Nehumkeag pond, Pittston, 500 salmon; Varnum and Clearwater ponds, Temple and New Vineyard, 5,000 salmon and 5,000 trout; Phillips lake, Hancock county, 5,000 salmon; Three Cornered pond, Vassalboro, 1,000 trout; Swan lake, Belfast, 1,500 salmon; F. J. Wiley, lake in Camden, 2,000 salmon; C. E. Rackliffe, Old Town, lakes in Hancock county, 3,000 land-locked salmon; Crystal lake, Washington, 5,000 land-locked salmon; T. S. Bowden, lake in Washington, Lincoln county, 5,000 land-locked salmon; Round pond, Vinal Haven, 500 trout; Flagstaff pond, Flagstaff, 1,000 salmon; Pleasant lake, Stetson, 500 salmon; Embden lake, Embden, 2,000 salmon; Cochnewagon pond, Monmouth, 2,000 salmon; Pitcher's pond, Northport and Lincolnville, 1,000 salmon; Cobbosseecontee lake, 10,000 salmon; Lake Maranacook, 5,000 salmon; Annabessacook lake, 3,000 salmon; Carleton pond, Readfield, 3,000; Three Cornered pond, Wayne, 3,000 salmon; Potter pond, Carthage, 2,000; Sebec lake, 5,000 salmon; Moosehead lake, 10,000 salmon; Wilton pond, 1,200 salmon; Cobbosseecontee lake, 25,000 trout, being 25% required by law, as the eggs were taken from fish taken from this lake; Rangeley waters, 10,000 trout; Sebec lake, 10,000 trout; Moosehead lake, 10,000 trout; Maranacook lake, 5,000; Annabessacook



lake 5,000 trout; Androscoggin pond, 5,000 trout; China pond, 3,000 trout; Pushaw lake, 5,000 trout; Cold Brook pond, 5,000; Sebattus pond, 1,000 trout; Swan lake, Belfast, 3,000, ponds near Dover, 2,000 trout; Dyers pond, Jefferson, 2,000; Cupsuptic lake, 4,000 trout.

AUBURN HATCHERY.

*Land-locked Salmon distributed.*

Taylor pond, Auburn, 7,000 salmon; Little Wilson pond, Auburn, 2,000 salmon; Lake Auburn, 30,000; Anasaguntocook lake, Canton, 2,000; Worthly pond, Peru, 2,200; Trip pond, Mechanic Falls, 3,000; Roach pond, Moosehead waters, 1,500; Keoka lake, Waterford, 1,500; Range pond, Poland, 1,500; Sabbathday pond, Durham, 1,500; Brettuns pond, Livermore, 500; Thompson pond, Oxford, 3,500; Pennewassee lake, Norway, 3,000; Hobbs and Norway ponds, Waterford, 2,000; Heald pond, Jackman, 1,600; Chemo lake, Penobscot county, 600; King and Bartlett lakes, Franklin county, 1,400; Pitcher pond, Belfast, 500; Howards pond, Hanover; Garland pond, Byron, 800; Little Wilson pond, North Auburn, 500; Wilton pond, Wilton, 3,700; Bear pond, Hartford, 600; Bear pond, Turner, 1,000; Songo pond, Bethel, 500; Bryants pond, Woodstock, 1,000; Little Ossipee pond, Biddeford, 2,000; Deer pond, Flagstaff, 800; Spring pond, Flagstaff, 1,200; Jordans pond, Bar Harbor, 1,000; Square lake, Sanford, 1,000; Long lake, Sanford, 1,000; Webbs pond, Dixfield, 2,000; Long pond, Phillips, 2,000; Quarry pond, Rockland, 200; Rangeley lake, Rangeley, 3,000; Cupsuptic lake, Rangeley, 3,000; Mooselucmaguntic lake, Rangeley, 2,500; Bemis and Cupsuptic lakes, 3,000; Lovewells pond, Fryeburg, 1,500; Round and Dodge ponds, Rangeley, 1,000; Tufts pond, Kingfield, 1,500; Sebec lake, Foxcroft, 2,000; Sebattus pond, Lewiston, 1,500; Allen pond, Greene, 500; Chain pond, Megantic, 3,000; Weld pond, Weld, 3,000; Greenwood pond, Greenwood, 1,000; Varnum and Clearwater pond, Farmington, 2,500; Gull pond, Rangeley, 1,600; Jackson pond, Bingham, 1,500; Hayden lake, Skowhegan, 2,000; lake near Brunswick, 1,200; Georges lake, Skowhegan, 2,000; Bonnybeg pond, North Berwick, 1,200.

## BROWN TROUT.

Trip pond, Poland, 1,000; Keoka lake, Waterford, 300; Range and Sabbathday ponds, 1,000; Livermore, Brettuns pond, 500; Thompson pond, Oxford, 600; Pennewassee lake, Norway, 1,000; Chemo pond, 500; King and Bartlett lakes, Franklin county, 200; Pitcher pond, 500; Howard lake, Hanover, 500; Little Wilson pond, Auburn, 300; Concord river, Rumford, 400; Bear pond, Hartford, 400; Songo pond, Bethel, 400; Bryants pond, Woodstock, 400; Jordans pond, Bar Harbor, 800; Quarry pond, Rockland, 200; Hogan and Trip ponds, Mechanic Falls, 800; Sebattus pond, Sebattus, 400; Allen pond, Greene, 400.

Twenty-five per cent. of the trout reared at this hatchery were planted in Lake Auburn, in accordance with the terms of the lease. There is no record in this office showing where the balance of the trout from this hatchery were planted.

## CARIBOU HATCHERY.

The product of this hatchery for this year was planted largely in the waters of Aroostook county; 20,000 salmon were planted in Moosehead lake, and a few lakes in Washington county were supplied, the record of which seems to be missing from this office.

1899.

## AUBURN HATCHERY.

750,000 trout eggs were taken at this hatchery in autumn of 1897; 500,000 eggs were shipped to Caribou Hatchery, Monson Hatchery, Edes Falls Hatchery and Captain Barker, Bemis. From the balance 175,000 fish were raised and planted in Lake Auburn, in accordance with the terms of the lease, half in June and half in September.

412,000 salmon eggs were taken at this hatchery this year, and 112,000 shipped to Caribou Hatchery. Twenty-five per cent. of the salmon raised were planted in Lake Auburn, the balance being planted in the following named waters: Rangeley waters, Richardson lake, 20,000; Allen pond, Greene, 1,200; Taylor pond, Auburn, 3,000; Pennewassee lake, Norway, 5,000; pond

in Buckfield, 1,000; Dexter pond, 2,000; Rand and Sabbathday ponds, 2,500; Garland pond, Byron, 1,500; Worthley pond, Peru, 3,200; Sabbathday pond, 1,500; Songor pond, Bethel, 2,000; Bryants pond, Woodstock, 1,500; Hicks pond, Greenwood, 1,500; Wilton pond, Wilton, 2,500; Loon lake, Rangeley, 3,000; Four ponds, 2,000; Heald pond, Jackman, 2,500; Howard pond, 1,200; C. Young, Turner, for Bear pond, 2,000; Kingfield pond, 3,000; Weld pond, 5,000; Butter pond, Eustis, 1,600; lake in Camden, 2,500; Warren pond, 3,000; Keoka lake, Waterford, 2,000; Sebattus pond, Sebattus, 2,000; Thompson pond, Oxford, 4,500; Moose pond, Waterford, 2,500; Pleasant pond, Turner, 2,000; King and Bartlett lakes, 2,500; lake in Waldoboro, 2,500; Ossipee pond, 3,000; Springvale Fish and Game Association, 4,500; Roxbury pond, 2,500; Pleasant pond, Sumner, 1,500; Bingham, lake in, 2,000; Roach river, 2,500; Damariscotta lake, 5,000; lake in Fryeburg, 5,000; Megantic club, 4,500; W. W. Douglass, Franklin county, 2,000; Rangeley lake, 6,000; lake in Denmark, 2,500; Trip pond, 2,000; Wilson pond, Auburn, 2,400; lake near Farmington (E. E. Richards), 3,000; lake in Union, 2,500; Long pond, Rangeley, 2,000.

14,200 brown trout were raised at this hatchery this year and planted in the following waters: Allen pond, Greene, 1,000; Taylor pond, Auburn, 2,500; Pennewassee lake, Norway, 1,500; pond in Buckfield, 500; Dexter pond, 1,500; Rand and Sabbathday ponds, 1,000; Songo pond, Bethel, 1,000; Loon lake, 400; Sebattus pond, 1,500; Thompson pond, Oxford, 1,000; lakes in Winthrop, 2,000; Trip pond, 500.

#### CARIBOU HATCHERY.

88,000 land-locked salmon were raised at this hatchery this year and planted in the following waters: Cross, Square and Eagle lakes, Aroostook county, 10,000; Jordan pond, Bar Harbor, 1,000; Cathance lake, Cooper, 1,000; Nicatous lake, Burlington, 1,500; Farrars pond, Topsfield, 1,000; Cedar lake, West Branch Penobscot river, 1,000; Madawaska lake, 1,800; Squaw Pan lake, 1,800; Square and Cross lakes 17,000; Nickerson lake, 4,500; Portage lake, 10,000; Moosehead lake, 12,500; St. Croix lake, 2,000; Shin pond, Patten, 3,000; Pleasant lake, Hersey, 3,000; Jordan pond, Bar Harbor, 2,000; Long pond, Seal Har-

bor, 6,000; Pammaquam lake, Charlotte, 2,000; Schoodic pond, Hancock county, 2,000; Cathance lake, Cooper, 1,025; Drews lake, New Limerick, 1,000; Munsungan, 2,000; Big Machias lake, 2,000.

66,228 trout were raised at this hatchery this year and planted in the following waters: Madawaska lake, 1,800; Squawpan lake, 1,800; Salmon brook, 1,000; Alton pond, 5,000; Presque Isle stream, 1,000; Square, Eagle and Cross lakes, 14,328; Nickerson lake, 3,000; Portage lake, 3,000; Moosehead lake, 12,500; St. Croix lake, 2,000; Eagle lake, Bar Harbor, 3,500; Boyden lake, Perry, 2,500; Cathance lake, Cooper, 2,500; Meddybemps lake, 2,500; Drews lake, New Limerick, 1,000; Nicatous lake, Burlington, 500; Farrars lake, Topsfield, 1,000; Cedar lake, West Branch Penobscot, 1,000; Munsungan lake, 2,000; other lakes 5,300.

EDES FALLS HATCHERY.

75,000 trout and 140,000 salmon were raised in this hatchery this year and all were planted in Sebago lake and its tributary waters.

MONMOUTH HATCHERY.

From annual report of superintendent for 1899.

*To the Commissioners:*

I beg leave to submit herewith my annual report for this hatchery and feeding station for the year 1899.

Very truly,  
 W. E. BERRY,  
*Superintendent.*

Number of trout eggs taken in 1898. . . . . 400,000

Shipped from the hatchery:

May 19th, J. C. Corson, Wilton (These were for Wilton pond) . . . . .	10,000
May 23, N. F. Beedy, Phillips, (These were for Long pond, Rangeley) . . . . .	15,000
May 24, G. E. Washburn, Skowhegan, (Lake George) . . . . .	12,000

May 26, F. L. Philbrick, North Fayette, (These were for ponds in Fayette).....	6,000
May 29, R. A. Viles, Flagstaff, (These were for ponds in that vicinity).....	15,000
Foxcroft, for Sebec lake.....	15,000
October 5, L. S. Morse, Liberty, (For a pond in Liberty) .....	2,000

25,000 trout were lost in the stream from the hatchery by someone removing the screen in the night.

12,000 fingerlings planted in the fall in Cobbosseecontee and 6,000 in Lake Maranacook, the balance were planted as fry in the waters of Kennebec county.

Number of salmon raised, 143,000. These were planted as follows: Rangeley lake, 12,000; Maranacook, 5,000; Cobbosseecontee, 10,000; Annabessacook, 5,000; Narrows pond, Winthrop, 2,000; Swan lake, Belfast, 6,000; shipped to W. G. Fuller, Unity, 5,000; Pitchers pond, Belfast, 1,000; Flying pond, Vienna, 2,000; Webber pond, 2,000; Pleasant pond, Richmond, 2,000; W. G. Simmons, North Anson, 5,000; Great pond, Belgrade, 5,000; ponds in West Mt. Vernon, 2,000; Pocasset pond, Wayne, 2,000; Lake George, Skowhegan, 2,500; Phillips lake, 2,000; Long pond, Belgrade, 2,500; Pleasant pond, Stetson, 2,000; pond in Vassalboro, 2,000; Snow pond, Belgrade, 5,000; Three Cornered pond, Vassalboro, 1,000; F. M. Simpson, ponds in Carmel, 3,000; Sebec lake, 10,000; J. P. Oak, pond in Skowhegan, 3,000; Rangeley lake, 5,000; Spring lake, Flagstaff, 2,000; lake in New Vineyard, 2,000; lake in North Anson, 2,000; lake in Madison, 2,000; lake in North Fayette, 1,000; C. M. Jones, for lake in Bingham, 2,000; C. H. Sargent, lake in Sargentville, 2,000; C. H. White, East Machias, for lake there, 3,000; Cochnewagon lake, Monmouth, 4,000; James Marston, Bingham, lake there, 2,000; Lambert lake, Washington county, 1,500; on hand at the hatchery, 10,000; these were wintered. Lost during the season 4,000; lot delivered to you at Augusta, for China pond, 1,500. Total, 143,000.

From Annual Report for 1899 of Superintendent of Enfield Hatchery:

*To the Commissioners:*

I beg leave to submit herewith my annual report for this hatchery and feeding station for the year 1899.

Very truly,

A. J. DARLING,

*Superintendent.*

Number of togue eggs received, 500,000. Number land-locked salmon eggs received, 40,000. These were received as follows: Togue, from United States government station at Enfield; land-locked salmon from same source and place. Number of each hatched: Land-locked salmon, 27,000; togue, 450,000.

They were planted as follows: \_\_\_\_\_ togue in spring mostly. Some in June, in the following named lakes and ponds:

“Give number put in each lake.”

.....

“I do not know but a few of the names of the lakes and waters where these togue fry were planted, I put up and delivered to parties as per order.

Total expenses were \$150 00, as far as I can tell. Itemized as follows: Mostly for tending the eggs and young fish at \$1 00 per day and then at the last end of the job I went a few trips with fry to meet those I was instructed to deliver the same to. Fares and \$2 00 per day for a few days.”

1900.

Our annual report for the year 1900 gives full and complete information called for in the order in regard to that year, so far as we are able to give it, a copy of which is respectfully submitted with this report, as indeed do the reports of the commissioners for each year called for in the order, with possibly one or two exceptions.

We are also required further to report “the cost of hatching, raising, and the distribution per one thousand of fry, fingerlings,

or yearlings, for each and every year above mentioned, (from 1890 to 1900 inclusive), stating the various items included in the cost of the same.”

In reply to the above we beg leave to respectively say that during the years 1890-91-92-93-94 all fish hatched were planted as fry as soon as hatched. During these years also the Sea and Shore Fisheries and the Inland Fish and Game were in one department. We have examined the reports of each year of the commissioners and find no itemized bills as to the cost of hatching fry; an examination of the bills filed with the Governor and Council, audited by them and paid by warrants on the State treasury, so far as we have made an examination, do not show with sufficient accuracy the cost of taking the eggs, hatching the fry and planting them to make even an approximate estimate of the “cost per thousand,” as called for in the order.

1895.

This was the first year that the sum of \$25,000 was appropriated by the Legislature for this department, and it was made a separate department, distinct from that of Sea and Shore Fisheries, by act of the Legislature of that year.

From the report of the commissioners for 1895 we learn that they took 1,475,000,000 land-locked salmon and trout eggs and placed them in the hatcheries.

The report further says that the product of these eggs was planted as fed fish in the autumn of 1895, but the stock, both eggs and young fish, was largely depleted by an epidemic, 10,000 dying in one hatchery, and that every precaution was taken and effort made to stay the progress of this disease, but only with partial success. The report does not disclose how many lived to be planted in the fall.

We find that the cost of operating Sebago Hatchery that year, as given in the report, was \$922.83; Auburn Hatchery, \$2,324.71; Kineo Hatchery, \$380.85; Caribou Hatchery, \$1,468.64; Webb Hatchery, \$171.82; Enfield Hatchery, \$25.50.

For distribution of fish, \$548.78.

The report also gives \$3,290.84 as unpaid bills for that year.

From the data on file we are unable to give the cost per thousand for this year as called for in the order.

1896.

Leroy T. Carleton, of Winthrop, was appointed in April of this year, in place of Hon. Thomas H. Wentworth whose term of office had expired.

There were 1,450,000 trout and salmon eggs in the hatcheries in the spring of this year. Of this number, 185,000 were sent to various private hatcheries in the State. A large proportion of the balance were planted in the spring as soon as hatched. We fed during the year at the hatcheries all that the capacity of these hatcheries would permit.

An itemized, detailed statement of expenditures was printed as a part of the report of the commissioners this year for the first time, stating the name of each person and the amount paid, an examination of which will disclose each item of expense of the total, \$26,551.00 expended. We bought land and built a new hatchery at Monmouth this year, and made extensive repairs on the others.

We are unable to give the cost per one thousand for fry hatched, or fingerlings, or yearlings raised this or any other year with accuracy. We might possibly on examination of every bill filed, numbering more than 500 each year, be able to select from the various items in these bills what went into the raising of fish, but this would be difficult and not accurate, from the fact that in the fall of the year, during the spawning season, and while taking eggs, the warden force is largely diverted to the guarding of the parent fish on the spawning beds and in the weirs. These bills come in for warden service and are so charged up in the accounts. The wardens are also employed during the period of the distribution of fish in taking fish from the hatcheries to various parts of the State and planting them in the waters of the State, and these bills come in as for warden service. Quite a large proportion of the expenses of the commissioners is incurred in the distribution of fish and the taking of spawn in the fall. No attempt has ever been made to keep an accurate debt and credit account with the hatcheries, and for this reason it is impossible for us, for reasons above stated, to give the cost per thousand of fry, or of fingerlings or yearlings. What is said in relation to the year 1896 applies as well to the years 1897-98-99 and 1900.



In the financial statement in the report for these years will be found an itemized list of all expenditures.

Commissioners of Inland Fisheries and Game,

By CHARLES E. OAK,

*Secretary.*

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STATE OF MAINE.

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IN SENATE, January 23, 1901.

On motion by Mr. VICKERY of Kennebec, laid on table to be printed.

KENDALL M. DUNBAR, *Secretary.*