

ANNUAL REPORT
OF THE
NEW JERSEY BOARD OF FISH
AND
GAME COMMISSIONERS



FOR THE
Fiscal Year Commencing July 1, 1933
And Ending June 30, 1934

STATE OF NEW JERSEY

BOARD OF

FISH AND GAME COMMISSIONERS

TRENTON

To His Excellency, A. Harry Moore, Governor, and Members of the Senate
and General Assembly of the State of New Jersey:

As required by law, we submit herewith the Annual Report of the work of
the Board of Fish and Game Commissioners for the fiscal year covering the
period from July 1, 1933, to June 30, 1934.

Very respectfully,

GEORGE C. WARREN, JR., *President*,
ALEXANDER H. PHILLIPS,
H. M. ARMSTRONG,
CHARLES F. HUNTER,
LEWIS SPINKS,
JAMES R. HENSLER,
BENJAMIN W. COOPER,
JOSEPH AYERS,
CHARLES P. KEIGHLEY,

Commissioners.

List of Fish and Game Commissioners Holding Office
at the Date of This Report
June 30, 1934

GEORGE C. WARREN, JR., *President*.....Summit
ALEXANDER H. PHILLIPS, *Vice-President*.....Princeton
HARRY M. ARMSTRONG, *Treasurer*.....Jersey City
CHARLES F. HUNTER.....Palisade
LEWIS SPINKS.....Nixon
JAMES R. HENSLER.....Toms River
BENJAMIN W. COOPER.....Moorestown
JOSEPH AYERS.....Andover
CHARLES P. KEIGHLEY.....Pitman

H. J. BURLINGTON, *Executive Secretary*

ANNE E. SULLIVAN, *Assistant Secretary*

Office of the Board, State House, Trenton, N. J.

MALCOLM DUNN, *Superintendent of Game Farms, Forked River*

CHARLES O. HAYFORD, *Superintendent of Fish Hatchery, Hackettstown*

EDWARD H. ROTH, *Superintendent of Quail Farm, Holmansville*

**List of Fish and Game Wardens Holding Commissions
at the Date of This Report**

CUDNEY, HARRY E., <i>Assistant Protector</i>	Hackettstown
HALL, G. I., <i>Assistant Protector</i>	Salem
KELLEY, THOMAS, <i>Assistant Protector</i>	Jersey City
SMALL, WILLIAM H., <i>Assistant Protector</i>	Lavallette
BAKER, EDWIN.....	Haleyville
BAKLEY, ALFRED F.....	Newton
BROOKE, GEORGE B.....	Blackwood
CARSLAKE, WILLIAM C.....	Columbus
CARSON, ROY R.....	Medford
CROWLEY, HAROLD M.....	Tuckerton
EGGERT, JOSEPH S.....	West Millington
GRAHAM, JOHN W.....	Swedesboro
GROVES, GEORGE E.....	Egg Harbor
HILL, CHARLES C.....	Somerville
HUGG, JOHN R.....	Livingston
LARSON, LEWIS.....	Clinton
LYELL, M. HOWARD.....	Freehold
MIZELL, CHATHAM.....	Elmer
NOLAN, THOMAS F.....	Trenton
PAUL, GEORGE R.....	Perth Amboy
ROACH, ALBERT A.....	Butler
RUTH, ALBERT J.....	Woodcliff Lake
SAXTON, DANA J.....	Absecon
SHRAW, ANDREW.....	Springfield
STEEL, WILLIAM.....	Cape May Court House
TRELOAR, JAMES H., JR.....	Franklin
WILLIAMS, ROY H.....	Riverdale

SYNOPSIS OF ACTIVITIES 1933-34

The following is a brief synopsis of conservation and propagation accomplished by the New Jersey Fish and Game Commission during the fiscal year beginning July 1, 1933, and ending June 30, 1934.

FISH AND GAME DISTRIBUTION 1933-34

PHEASANTS

During the fiscal year 1933-34 there were distributed: 22,236 pheasants, 15,404 of which were propagated and distributed from our own farms, 1,829 raised by the public from eggs sent from our farms, 1,827 purchased from dealers for liberation on open lands in the State, and 3,176 purchased from the Public Shooting and Fishing Grounds' Fund for liberation on State controlled areas which are open to the public for hunting.

QUAIL

3,529 quail, 1,127 of which were propagated and liberated from our own farms, 1,282 purchased from dealers and distributed on open lands, and 1,120 purchased from the Public Shooting and Fishing Grounds' Fund and distributed on State controlled lands open to the public.

RABBITS

21,946 rabbits were liberated throughout the State, 16,600 of which were distributed on open lands and 5,346 on Public Shooting and Fishing Grounds.

FISH

518,924 trout over 6 inches, 197,775 trout under 6 inches, 236,785 bass, 150,375 catfish, 141,000 sunfish, 75,400,000 yellow perch fry.

In addition to this there were distributed from the Hancocks Bridge Hatchery in Salem County 29,400,000 yellow perch fry, 4,900,000 white perch fry, and 2,774,000 shad fry.

The market value of the above was \$246,110.00.

The receipts from hunters' and anglers' licenses for the year were \$229,740.84, showing that the Commission placed in the fields and streams approximately \$17,000.00 worth of fish and game (in market value) more than the total receipts for licenses during this period.

FISH AND GAME DISTRIBUTION—5-YEAR PERIOD

The following tabulations show the distribution of fish and game during the past five years.

GAME

	<i>Pheasants</i>	<i>Rabbits</i>	<i>Quail</i>
1929-30	22,709	14,900	120
1930-31	30,668	20,661	722
1931-32	23,695	21,435	2,958
1932-33	27,885	0	2,099
1933-34	22,236	21,946	3,529
	<u>127,193</u>	<u>78,942</u>	<u>9,428</u>

FISH

The following table shows the fish propagated and distributed from our Fish Hatchery at Hackettstown, and the Shad Hatchery located at Hancock's Bridge, New Jersey, over a five-year period.

	<i>Trout over 6"</i>	<i>Trout under 6"</i>	<i>Bass</i>	<i>Yellow perch fry</i>	<i>Shad</i>	<i>Sunfish</i>
1929-30	446,882	203,300	131,000	113,800,000	3,094,000	391,950
1930-31	467,390	90,400	102,025	112,000,000	763,000	141,700
1931-32	506,667	65,150	127,900	115,400,000	805,000	255,000
1932-33	510,180	164,800	217,050	113,000,000	3,290,000	268,780
1933-34	518,924	197,775	236,785	104,800,000	2,774,000	141,000
	<u>2,450,043</u>	<u>721,425</u>	<u>814,760</u>	<u>559,000,000</u>	<u>10,726,000</u>	<u>1,198,430</u>

LAW ENFORCEMENT

During the fiscal year 1933-34, 996 persons were prosecuted for violation of the fish and game laws, with a greatly reduced force of wardens.

LATEST REPORT OF FISH AND GAME TAKEN

During the years 1930, 1931, and 1932 the following fish and game were reported taken:

	1930	1931	1932
Pheasants	79,451	95,811	103,830
Rabbits	447,359	510,555	550,084
Grey Squirrels	58,631	103,561	101,857
Grouse	3,566	9,331	7,802
Quail	59,161	71,922	76,824
Woodcock	11,872	20,352	15,121
Geese and Brant	3,163	4,461	4,228
Ducks	64,999	50,566	76,841
Trout	269,189	410,606	404,330
Bass	99,554	146,629	159,890
Pickerel	164,996	233,062	200,564
Deer	1,484	1,702	1,575

The estimated value of the fish and game reported taken during 1932, including deer, is \$1,247,883.50, an increase of approximately one-quarter million dollars over any previous year. These figures do not include fish and game taken by the farmer who does not require a license on his own land, and only covers about 50% of the total number of licenses issued in the State. Notwithstanding there is a law on the statute books making it mandatory for everyone to report his kill before a license can be obtained, it appears that the clerks in issuing the licenses did not obtain the information called for by law, and it can be safely estimated that at least twice the amount of game reported was actually taken.

The total number of deer taken during the four-day open season of the calendar year 1932 was 1,575. Estimating the deer at 75 pounds each, and 50 cents per pound, shows a food value to the sportsmen of \$59,062.50.

PREDATORY VERMIN CONTROL

Our latest census shows the sportsmen are taking a great interest in the destruction of predatory animals, such as cats, weasels, red squirrels, and foxes. This census does not include unprotected hawks, crows, or other vermin taken by our wardens, or by farmers who do not need a license to trap or shoot on their own land.

	1932
Cats	10,875
Weasels	4,174
Red Squirrels	3,873
Foxes	1,330

In addition to the above, there were 3,460 head of predators taken by our wardens and vermin control men during the fiscal year 1933-34.

A campaign on snapping turtles was inaugurated during the spring of 1934 and up to June 30, 1,864 turtles have been taken, averaging ten pounds each.

LICENSES ISSUED

Under the reduced price of hunting and fishing licenses, for the calendar year 1933 there were 16,062 more licenses issued than during the calendar year of 1932.

1932	1933
121,810	137,872

FARMER-SPORTSMAN CO-OPERATIVE PLAN

Under the Farmer-Sportsman Co-operative Plan inaugurated during 1933, over 70,000 acres of land that had been posted for years have been opened to the public, and stocked by the Commission. This acreage alone if placed together would extend over a hundred and ten miles in length and one mile in width. In addition to this, over 90% of our streams and lakes are open for public fishing and well over 50% of the hunting areas of the State are also open to public hunting.

MIGRATORY WATERFOWL

The recommendations of the Advisory Board to the Bureau of Biological Survey are that the States be allowed only a thirty-day waterfowl season during 1934. This thirty days may be spread out over a period between October 1 and January 15 with rest days, but the days in each week must be consecutive.

A questionnaire was sent out to guides and sportsmen, the result of which showed that 70% preferred three shooting days per week, Thursday, Friday, and Saturday, beginning October 18 and ending December 22. This is not satisfactory, but it is, in general opinion, the best season that could be had under the conditions. This will give all parts of our State some waterfowl shooting.

The above dates are tentative and may be changed before the season is finally decided upon by the Federal Government.

PUBLIC HUNTING GROUNDS

Gradual progress has been made in the purchase of public hunting grounds for which a portion of each license sold is set aside under the law. Up to the present time, 8,019 acres of ideal public hunting grounds have been acquired in the counties of Cape May, Cumberland, Ocean, Sussex, Gloucester, and Hunterdon.

In addition to this, we have purchased and leased approximately three miles of Big Flat Brook which is considered one of the finest trout streams in the State.

SALT WATER PATROL

The Commission has had fast power boats keeping a check on illegal net fishing along our coast from Sandy Hook to Cape May and also on the Delaware River, and many prosecutions for illegal netting have been brought.

STREAM IMPROVEMENT

Some of our streams have been snagged and dammed for the purpose of increasing the number of fish that may be safely held per mile of stream. Approximately 600 dams and snags have been placed in these streams and this work will be continued as finances permit, with the hope of at least doubling the capacity of our streams.

WINTER FEEDING

During the severe winter our wardens and the sportsmen of the State erected shelters for our game and food was distributed in almost every section of the State. It is estimated that at least 30,000 pounds of food was distributed. Our Department fed the waterfowl by airplane, and some feed was provided by the Federal Government. There were 27 sportsmen's associations that assisted in this work.

EDUCATION

Our Commissioners spoke on conservation in nearly every section of the State and pictures were shown in many cases of the work being done by the Department. A program of co-operation between the farmers and sportsmen was inaugurated, and twenty-three articles on general conservation were sent to the press.

LEGISLATION

The most important legislation passed during the 1934 session follows:

1. The waterfowl seasons and bag limits in New Jersey from now on will automatically comply with Federal regulations.
2. The new trout season will be from the 15th of April to the 15th of July and from September 1 to September 30, and the legal size of trout that may be taken is seven inches.
3. A law was passed making it necessary that all steel traps used in the upland must be in a tunnel or other device not more than six inches in diameter and not less than three feet in length with the owner's name thereon. This does not apply to traps set under water or on meadows or around houses or barns or on State owned or controlled land. The purpose of this law was to eliminate the catching of domestic animals and rabbits in steel traps.
4. A law was passed protecting kingfishers and duck hawks, the latter, it was thought, being close to extinction.

The legislative session was not concluded at this writing, and we hope for the passage of a few other conservation laws that will be of great benefit to wildlife.

GENERAL

CO-OPERATION BETWEEN STATES

A meeting of the Fish and Game representatives of the Middle Atlantic States was called by former Governor Robert P. Robertson, President of the Delaware Game Commission, at the Hotel Dupont, Delaware, on April 16, 1934. The primary purpose of this meeting was to form an association of the Fish and Game Commissioners of the Middle Atlantic States, comprising New York, New Jersey, Connecticut, Pennsylvania, Delaware, Maryland, Virginia, and North Carolina.

This association was formed for the purpose of closer co-operation and co-ordination of laws respecting fish and game in the Middle Atlantic States, and particularly for the purpose of better regulation between these States and the Federal Government on zoning, seasons for migratory waterfowl, and migratory salt water fishes.

The accomplishments of this Association up to the present time have been: co-ordination of the waterfowl seasons between these States, particularly on the Delaware River where the three States had different seasons, recommendations of this Association to the Biological Survey regarding waterfowl have been put in operation, and a closer spirit of cooperation has been in effect between these States since the Association was formed.

PUBLIC SHOOTING AND FISHING GROUNDS

The farmer-sportsman co-operative plan that was inaugurated by the New Jersey Fish and Game Commission last year is progressing very fast. Up to July first of this year enough land and water has been taken over under this plan to stretch over a hundred and ten miles long and a mile wide. This land was formerly posted for a number of years against all hunting and fishing and is now accessible to the sportsmen of New Jersey by requesting permission of the owners. Signs are posted conspicuously on these lands giving the owner's name.

The acreages taken over under this plan in the different counties are as follows:

Atlantic	2,000	Monmouth	1,414
Burlington	8,059	Morris	2,759
Camden	1,581	Passaic	1,000
Cape May	2,600	Salem	1,684
Cumberland	1,693	Somerset	8,417
Gloucester	797	Sussex	10,642
Hunterdon	1,318	Union	2,200
Mercer	1,600	Warren	16,512
Middlesex	840		

In addition to the above, Public Shooting Grounds purchased or in course of purchase for the sportsmen include:

Cape May County....Tuckahoe Tract	2,800	
Sussex County	Kenneth F. Lockwood Tract (Wallpack Center) 325	
Sussex County	Hainesville Tract	195
Cumberland County....Haleyville Tract	1,185	
Gloucester County....Synnott Tract (Glassboro and Clayton).....	2,000	
Hunterdon County....Currier Tract (near Clinton)	550	
Ocean County.....Manahawkin Tract	964	

Over three miles of Big Flat Brook, Sussex County, have been purchased or leased.

All of these tracts will be stocked from the special fund provided for this purpose and will not interfere with the regular stocking of open land and water in the State.

The farmer-sportsman plan has given complete protection to the landowner around his house, barns, and cultivated fields and has given the sportsmen this added amount of hunting and fishing ground. It is up to the sportsman to so conduct himself while hunting and fishing that there will be a greater bond of friendship and good feeling between him and the landowner than ever before.

The scope of this farmer-sportsman plan will be sent to anyone interested.

LOBSTERS

The following resolution was adopted, and copy of same sent to the Fish and Game Commission, by the North Jersey Fishermen's Association of one hundred and twenty members:

Be it Resolved, That we, the one hundred and twenty members of this Association, will not bring in for sale or for our own consumption any short or illegal lobsters that do not comply with the laws of the State of New Jersey.

This Association is a member of the United Commercial Fishermen's Association of New Jersey.

The above resolution is the first real co-operative plan to stop the menace of taking short and illegal sized lobsters from the waters of New Jersey, which has been a menace not only to the people of the State, but to the industry itself.

The Fish and Game Commission feels that the commercial lobstermen are beginning to realize that the sale and taking of illegal lobsters has almost killed the goose that laid the golden egg.

It is known that one additional season on these young lobsters would put them in the class where they could be sold for forty to fifty cents per pound, whereas in the illegal stage they have been taken and sold at one dollar per dozen despite the greatest efforts of the Fish and Game Commission.

CRABS

We have known for some time that unless laws are passed making a legal size on crabs that may be taken and stopping the dredging for same in our rivers and bays, eventually this crustacean will be seriously depleted in our waters.

The lowly crab provides food and recreation for thousands of our citizens and should have more protection than it has at present. To this end, a bill, Assembly No. 64, was introduced at the last session of the Legislature, but failed of passage.

FEDERAL CO-OPERATION

New Jersey submitted several tracts of sub-marginal lands to the President's Committee on Wildlife that might be taken over by the Federal Government for nesting areas and refuges for waterfowl and upland game. Over eight million dollars have been appropriated by the Federal Government for this purpose.

Two tracts of land in Salem County have already been set aside by the Biological Survey for this purpose, and although hunting is allowed on one of them at present, they provide very good nesting areas for our native waterfowl, such as black duck and mallard.

After a lapse of many years with practically nothing being done for wildlife in the States by the Federal Government, it seems evident now that Congress is taking the matter seriously and something is actually being done.

CCC CAMPS

In October, 1933, we were successful in having Civilian Conservation Corps Camp No. 62 established at Hackettstown. The camp was organized and was under the command of Lieutenant O. J. Gullickson, U. S. N. It has an enrollment of 200 boys under the charge of a camp superintendent, assisted by eight foremen. The entire property of our auxiliary hatchery was re-surveyed and cross-sectioned in order that the new ponds and new water supply could be properly hooked up.

There was no cost to the Commission for labor and equipment used. The Army furnished all clothing, boots and housing. The Civilian Conservation Corps furnished all tools, wheel barrows, wheeling planks and dynamite.

If work progresses as expected by April 1st, 1935, the Commission will have added 8 new bass ponds to the main hatchery, 10 new bass ponds and 10 new trout ponds to the new rearing station.

It is estimated that this new work will increase the output of the bass and other pond fish 50% and the output of trout 25% in addition to doubling the water supply and giving us much better control in the new rearing station.

The anglers will derive great benefits from the work the boys have done both in increased production and size of fish distributed to the waters of the State.

We also have had CCC boys working on some of our Public Shooting Grounds, cutting fire lines, clearing patches for feeding birds, and damming and snagging of streams, which has saved the State a great deal of money and which could not have been done at this time except for the aid of the Federal Government.

PROSECUTIONS

During the fiscal year ending June 30, there were 996 prosecutions for violations of the fish and game laws; 968 of the offenders were convicted and 24 acquitted. In 154 cases, sentence was suspended, due to extenuating circumstances. There were 45 cases appealed by the defendants and one case appealed by the Commission to the Common Pleas Court of the County. There were 113 defendants committed to the county jail or workhouse for periods of from ten to ninety days or until their fines were paid. One hundred forty defendants were either placed in charge of the Probation Officer of the County, or given time to pay their penalties. Thirty-seven hunting and fishing licenses were revoked and nine guns were confiscated from aliens.

The proportion of arrests made by each warden, deputy warden and other complainants during the fiscal year is as follows:

Williams	117
Carslake	72½
Roach	52½
Groves	51½
Paul	43½
Carson	39½
Graham	37½
Ruth	34½
Mizell	33
Bernius	32½
Bakley	27½
Treloar	25
Hugg	24
Nolan	22½
Baker	21½
Lyell	21
Saxton	20½
Hill	19½
Eggert	16¼
Steel	14
Shraw	13½
Dackermann	13½
Larson	12¾
Crowley	10¼
Small	7½
Brooke	4¼
Hall	3½
Cudney	2½
Deputy Wardens and other Complainants.....	201½
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	996

The following shows the various offenses for which persons were arrested during the fiscal year:

Fishing without license	246
Hunting without license	137
Possession illegal missile	50
Hunting after sunset	36
Illegal possession game	33
Sunday gunning	31
Firearms in woods and fields closed season	30
Giving false information to procure license	30
Automatic firearms	26
Possession undersized fish	26
Illegal possession of fish	22
Procuring wrong license	22
Illegal net fishing	22
Hunting closed season	20
Taking fish illegally	20
Killing or possession doe deer or fawns	18
Dog running at large	18
Alien firearms	17
Hunting in tracking snow	17
Trapping without license	17
Illegal possession deer meat	15
Killing protected birds	14
Nonresident fishing without license	14
Hunting deer in closed season	14
Loaning license or button	14
Hunting deer at night	12
Hunting by auto lights or by spotlight	10
Pollution of State waters	8
Stealing traps	6
Possession mutilated parts of deer	5
Killing game out of season	5
Hunting from auto	5
Spearing fish	5
Operating eel rack without permit	5
Possession or use of illegal number of hooks	4
Hunting deer with dogs	3
Illegal possession of terrapin	3
Running dogs at night	2
Trespassing or hunting on game refuge	2
Taking fur-bearing animals from traps	1
Using set line	1
Borrowing hunting license or button	1
Impersonating fish and game warden	1
Using silencer on rifle	1
Taking fur-bearing animals out of season	1
Trapping out of season	1
Operating pound net without license	1

Dynamiting waters	1
Refusing to show license	1
Illegal possession of fox	1
Artificial bait	1

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DEATHS OF EMPLOYEES

We are sorry to report the death of our Publicity Agent, Mr. Carleton E. Sholl, who was in the employ of the Department on a part time basis for 19 years, and one of our Wardens, Mr. Henry F. Bernius, who has been with the Department for 10 years.

ORGANIZATION

At the organization meeting of the Board in December, George C. Warren, Jr., of Summit, New Jersey, was re-elected President; Alexander H. Phillips, of Princeton, Vice-president, and H. M. Armstrong, Jersey City, Treasurer.

APPOINTMENTS

The Honorable A. Harry Moore, with the advice and consent of the Senate, reappointed the following Commissioners for new terms: George C. Warren, Jr., Summit; Lewis Spinks, Nixon, and A. H. Phillips, Princeton.

Two new Commissioners were appointed, Joseph Ayers, of Andover, to fill an unexpired term, and Charles P. Keighley, of Pitman, for a term of five years.

RECEIPTS AND EXPENDITURES

An analysis of the receipts and expenditures during the fiscal year follows:

Receipts

Hunters' and Anglers' Licenses, Checks to State Treasurer, Chapter 152, Laws of 1914; Chapter 125, Laws of 1922 (Woodcock Licenses); Chapter 320, Laws of 1915 (Juvenile Licenses).....	\$229,740.84
Other Licenses:	
Menhaden	\$2,375.00
Food Fish	2,400.00
Pounds	6,460.00
Breeders	1,450.00
Carp	100.00
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	12,785.00
Fines and Penalties:	
Chapter 247, Laws of 1911	\$14,694.50
Chapter 96, Laws of 1922 (trespass)	260.00
Returned check	4.95
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	14,959.45
Farms and hatchery sales	\$437.43
Sundries	987.63
Deputy badges	971.00
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	2,396.06
	<hr/>
	\$259,881.35

Expenditures

Personal administration	\$1,489.43
Wardens' salaries	59,337.50
Wardens' expenses	853.48
Stocking expenses	5,809.80
Office expenses	15,275.50
Publicity	750.00
Printing, stationery, etc. (office furniture)	1,998.34
Hunting and fishing licenses and buttons	5,962.70
Legal expenses (court costs and assistance in cases).....	611.00
Gasoline and oil for autos, boats	9,366.74
Tires and tubes for autos and trucks	1,255.23
Maintenance autos and boats	8,111.70
Purchase of autos and engines	816.00
Postage, telephone, telegraph and insurance	4,507.17
Forked River Farm, salaries	12,046.12
Forked River Farm, operating expenses	10,434.30
Forked River Farm, improvements	1,029.54
Rockport Farm, salaries	7,440.10
Rockport Farm, operating expenses	6,953.39
Rockport Farm, improvements	829.71
Fish Hatchery, salaries	28,147.11
Fish Hatchery, operating expenses	36,550.28
Fish Hatchery, improvements	1,049.40
Shad Hatchery, maintenance	761.86
Purchase of game from outside sources	26,480.36
Miscellaneous expenses	6,505.75
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Bills outstanding	\$254,372.51
The net market value of fish and game raised and distributed during this period was	7,729.33
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	\$246,110.00

GAME

HUNTING CONDITIONS

Reports from Game Wardens in all sections of New Jersey state that the large liberation of male pheasants this spring has had wonderful results in that young pheasants are to be seen in nearly every section of the State.

The liberation of twenty-two thousand rabbits this year has overcome any losses as a result of the severe winter, and we feel that New Jersey will have one of the best hunting seasons this coming fall.

WINTER FEEDING OF WILDLIFE

It is encouraging to report that not only the sportsmen and their associations but also the farmers and landowners are becoming more interested in the planting of feed and building of shelters for wildlife as recommended by the Commission from time to time. Many farmers have seen the necessity of conserving wildlife on their properties and are not cutting off and harvesting every last morsel of grain as formerly. Many have agreed to leave standing patches of corn, buckwheat, millet, cow beans, etc., for the preservation of game and insectivorous birds and animals.

During the severe winter of 1933-34 thousands of pounds of grain were distributed by farmers and sportsmen and by our wardens, airplanes being used extensively in this work. Shelters for wildlife were also erected in all sections of the State, and our latest check on wildlife shows the result of this splendid work in that the mortality expected was confined to a minimum.

The nesting season of 1934 has been unusually good and with the generous liberations of pheasants, rabbits, and quail this year, particularly the spring distribution, our next hunting season should be one of the best.

HUNTING ACCIDENTS

There were seventeen hunting accidents this year. Seven of these were during the deer season, one proving fatal, and at other times during the year there were ten persons injured, two being fatal.

DEER

During the four days in which deer hunting was permitted in December last, there were 1,761 bucks legally killed and reported and 114 does or fawns killed by hunters. At other times during the year there were 229 deer killed by automobiles, railroad trains, under permits, and in various other manners.

Sixty-seven persons were prosecuted for violation of the deer act and penalties of \$100.00 were imposed.

The following are the counties in which deer were killed:

County	Bucks	Does or Fawns
Atlantic	113	7
Bergen	44	11
Burlington	535	45
Camden	19	..
Cape May	7	1
Cumberland	30	1
Essex	17	..
Gloucester	19	..
Hudson
Hunterdon	2	..
Mercer	13	1
Middlesex
Monmouth	56	..
Morris	145	7
Ocean	385	22
Passaic	89	4
Salem
Somerset	29	5
Sussex	180	8
Union	1	..
Warren	77	2
	<hr/> 1,761	<hr/> 114

PHEASANTS

The number of English pheasants taken in New Jersey has increased annually since the first records were made in 1924.

Thirty years ago pheasants in New Jersey were practically unknown to the average nimrod and were confined almost entirely to a few private estates. This fine game bird may now be considered the one that supplies the favorite sport for the bird hunters of New Jersey.

In 1924 there were 48,059 of these birds taken by license holders, and our latest records taken in 1932 show that 103,830 pheasants were taken, more than doubling in eight years. This is accounted for in many ways, the most notable, of course, being the intensive raising and stocking of these fine game birds.

In 1923 the number liberated was 6,612; in 1933, ten years later, 27,885 pheasants were liberated. This was accomplished mainly by efficient methods of raising at our Game Farms. The cost at our farms of raising pheasants in 1933 was less than at any other time in the history of the Commission.

The pheasant is able to survive severe weather better than our native game birds and the ease with which the beautiful male bird can be distinguished from the female gives us a long shooting season without destroying our breeding stock, as the female is protected. These birds are polygamous and the distribution of male birds in the spring insures a good increase in the wild state.

This spring the greatest liberation of male pheasants in the history of the Fish and Game Commission was made, over 2,000 being distributed.

Pheasants are very prolific and in captivity lay from 50 to 60 eggs in a season. If the present seasons, bag limit, protection of female birds, and intensive stocking are maintained, the ring-neck pheasant will supply sport for the generations to come in New Jersey.

RABBITS

There were over a half million rabbits killed during the last hunting season. This is larger than the kill of any previous season on record, showing the results of the generous distribution of these animals.

In addition to the number purchased from out of the State every effort is being made at our Game Farms to raise the cottontail rabbit in New Jersey, and we hope to raise rabbits on a large scale eventually, the Board realizing that rabbits are the most popular game animals for the sportsmen of New Jersey.

NEW JERSEY'S NEW QUAIL FARM

For several years the Fish and Game Commission watched with a great deal of interest the breeding and development of quail through natural breeding and incubation. In 1933 the first attempts were made to breed quail through incubation and artificial breeding. A piece of State-owned property in Wallpack Center was used in this first attempt. Having 39 breeders, which laid 1,552 eggs, we were enabled to rear to maturity 918 birds, of which 690 were liberated.

The average egg production was 45 eggs to a pen, one bird laying 72 eggs. The average birds reared in a pen were 25. The number of chicks raised was 1,232. Thirty-eight cripples were killed.

After this successful experience in raising quail at Wallpack, the Commission obtained an ideal tract for this purpose at Holmansville, Ocean County. Necessary equipment was installed and ready for operation for the 1934 season on a greater scale than ever before attempted for raising quail in New Jersey.

REPORT OF FORKED RIVER AND ROCKPORT GAME FARMS

The season at both of these farms was very successful.

Experimental work on the incubator brooder system of raising pheasants was carried on at the Forked River Game Farm and found to be very satisfactory. When time has proven beyond doubt that this is the most economical system it will be used entirely at the Forked River Farm.

The old system of raising pheasants under setting hens was carried on at the Rockport Farm with very good results. This system will be continued at this farm until the new system has proven to be entirely satisfactory.

We continued our experiment at the Rockport Game Farm in the raising of rabbits, and the results have been so gratifying that we are planning to go into this much more extensively next year on both Game Farms.

The season was started with 32 pairs of quail at the Forked River Farm and 437 quail were liberated during the season.

Exhibits of game were made from the farms at Trenton State Fair, Sportsmen's Exhibit at Bamberger's, Hobby Show at Macy's in New York, Bergen County Deputy Wardens' Association at Hackensack, and the Deputy Wardens' Association of Hudson County at Jersey City.

The vermin killed at the two farms follows:

At Forked River there were killed 20 owls, 60 hawks, 200 crows, 30 opossum, 46 cats, 6 weasels, 4 mink and approximately 2,500 rats.

At Rockport there were killed 13 foxes, 18 owls, 55 hawks, 50 cats, 180 crows, 15 weasels, 10 skunk and approximately 2,500 rats.

The following is a record of pheasant eggs set and hatched:

Eggs set at Forked River Farm....	15,600	Young birds hatched...	11,000
Eggs set at Rockport Farm	15,400	Young birds hatched...	10,500
	<u>31,000</u>		<u>21,500</u>

Pheasant eggs distributed throughout the State:

From Forked River Farm	5,006
From Rockport Farm	3,336
	<u>8,342</u>

The pheasant record is as follows:

Forked River Farm:

Breeding birds on hand 6/30/33	1,162
Farm birds raised	7,310
Birds purchased	524
Estimate of birds on hand 6/30/34	9,000
	<u>17,996</u>

Rockport Farm:

Breeding birds on hand 6/30/33	1,150
Farm birds raised	7,300
Estimate of birds on hand 6/30/34	9,000
	<u>17,450</u>

Forked River Farm:

Farm birds liberated	7,310
Purchased birds liberated	286
Breeding birds on hand 6/30/34	1,140
Estimate of young birds on hand 6/30/34	9,000
Birds died and escaped	260
	<u>17,996</u>

Rockport Farm:

Farm birds liberated	7,300
Breeding birds on hand 6/30/34	1,106
Estimate of young birds on hand 6/30/34	9,000
Birds died and escaped	44
	<u>17,450</u>

At Rockport Farm, in addition to the above record, there were 1,170 breeding birds liberated. These were all the old breeding stock we had on hand, and we purchased 1,200 new breeding birds to replace them to get a new strain of blood into our breeding stock. Nine hundred and seventy of these birds were liberated throughout the State, and 200 of them were taken to the Forked River Farm.

FISH

FISHING CONDITIONS

Reports from all sections of the State show that the great majority of trout fishermen were well pleased with conditions so far this season. The new trout law now in effect closes the season on July 15 and opens it up again for the month of September. We feel confident that the trout angler, particularly the fly fisherman, will find lots of trout in our streams during that month. As far as we can judge at the present moment, little more than fifty per cent of the half million legal sized trout planted this year have been taken.

POLLUTION

We investigated all cases where pollution was alleged and sent many abatement notices to plants that caused pollution in our waters. Many cases of pollution were caused by stills, and we had the co-operation of Federal agents in cleaning same up.

REPORT OF HATCHERY OPERATIONS

The output of the A. Harry Moore State Fish Hatchery, at Hackettstown, and the Shad Hatchery, at Hancocks Bridge is shown by the following. The largest distribution of trout over six inches, bass, white perch fry, and catfish fingerlings was made during this fiscal year.

Trout over six inches	518,924
Trout under six inches	197,775
Bass Fingerlings	236,785
Yellow Perch Fry	104,800,000
Bluegill Sunfish Fingerlings	141,000
Catfish Fingerlings	150,375
Shad Fry	2,774,000
White Perch Fry	4,900,000

	Inches	Raised July 1, 1933, to June 30, 1934	Disposed of	Estimated Number on Hand
Brook Trout	1- 2	65,000	65,000	
" "	3- 4	400,000		400,000
" "	3- 5	7,600	7,600	
" "	6- 8	36,825	36,825	
" "	7- 9	180,350	180,350	
" "	8-10	23,725	23,725	
" "	8-12	5,000		5,000
" "	10-12	26,425	26,425	
" "	12-14	425	425	
" "	12-16	3,950	3,950	

Brown Trout	1- 2	65,000	65,000	
" "	2- 3	330,000		330,000
" "	3- 4	48,800	48,800	
" "	4- 6	1,000	1,000	
" "	6- 7	20,000		20,000
" "	7- 8	5,000	5,000	
" "	7- 9	45,075	45,075	
" "	8-10	21,715	21,715	
" "	9-11	20,000	20,000	
" "	8-12	10,000		10,000
" "	10-12	61,250	61,250	
" "	14-18	945	945	
Rainbow Trout	1- 2	330,000		330,000
" "	3- 4	10,375	10,375	
" "	5- 7	70,000		70,000
" "	8-10	12,900	12,900	
" "	8-12	5,000		5,000
" "	10-12	54,825	54,825	
" "	12-14	25,472	25,472	
" "	16-18	42	42	
Large Mouth Bass	1- 2	250,000		250,000
" " "	2	10,000	10,000	
" " "	3	150,425	150,425	
" " "	4	55,945	55,945	
" " "	5	6,465	6,465	
Small Mouth Bass	1- 2	10,000		10,000
" " "	3	4,200	4,200	
" " "	4	9,750	9,750	
Catfish	3- 4	150,375	150,375	
"	6	250	250	
Bluegill Sunfish	1- 2	34,250	34,250	
" "	2- 3	106,750	106,750	
" "	8-10	100	100	
Yellow Perch	fry	75,400,000	75,400,000	
		<u>78,075,209</u>	<u>76,645,209</u>	<u>1,430,000</u>

Output from Hancock's Bridge Hatchery, Salem County—			
Yellow Perch	fry	29,400,000	29,400,000
White Perch	fry	4,900,000	4,900,000
Shad	fry	2,774,000	2,774,000
		<u>37,074,000</u>	<u>37,074,000</u>
Total from both Hatcheries		115,149,209	113,719,209
In addition to the above:			
Various fish netted in State Reservoirs			43,547
Total Distribution			<u>113,762,756</u>

We are working on some new feeding experiments that are proving beneficial in both reduced mortality and costs.

We have continued our work on the selective breeding of brook trout, and have started a selective strain of rainbow trout which we expect will compare with our brook trout within a few years.

FISH DISTRIBUTED BY GOVERNMENT

The following table shows the fish distributed in New Jersey during the fiscal year 1934 by the Federal Bureau of Fisheries:

Bream	Yearlings	360
Brook trout	Fingerlings	2,000
Black bass (largemouth)	"	1,120
Lockleven trout	"	800
Rainbow trout	"	2,000
		6,280

POUND FISHERIES SUMMARY

Following is a summary of the pound fisheries' report for the calendar year ending December 31, 1933:

Approximate value of all pounds	\$700,341.00
Proceeds derived from sale of fish	\$581,679.15
Number of pounds of fish caught and disposed of	20,007,330

Licenses issued:

Atlantic Ocean	123
Sandy Hook and Raritan Bay	21

Number of pounds operated	144
Number of men employed	121
	371

REPORT OF SHAD CAUGHT IN DELAWARE RIVER AND BAY

County	Boats		Nets		Men Engaged		Number Shad Caught		Value Shad Caught		Value of Boats and Nets	
	1933	1934	1933	1934	1933	1934	1933	1934	1933	1934	1933	1934
Cumberland	61	82	77	117	111	108	23,474	39,600	\$10,526	\$19,140	\$16,404	\$27,450
Salem	26	28	26	32	52	64	2,358	16,416	1,790	12,805	3,900	7,560
Camden	6	..	7	..	14	..	630	..	170	..	1,300	..
Burlington	13	14	12	14	43	36	2,863	2,149	1,381	2,149	1,250	1,320
Mercer	12	9	8	8	48	32	6,257	3,360	3,969	2,375	1,440	1,258
Hunterdon	2	3	2	2	12	12	5,283	3,250	2,500	2,407	400	400
	120	136	132	173	280	252	40,865	64,775	\$20,336	\$38,876	\$24,694	\$37,988
Increase		16		41				23,910		\$18,540		\$13,294
Decrease					28							

SUPPLEMENT TO 1932-1933 REPORT

Income	
Balance as per last printed report	\$76,768.22
Expenditures	
Chapter 193, Laws of 1932, paid after June 30, 1933.....	11,791.67
To Balance	64,976.55
	<hr/>
	\$76,768.22

REPORT FOR 1933-1934

Income	
Balance July 1, 1933	\$64,976.55
Hunters' and Anglers' Licenses:	
Chapter 152, Laws of 1914 (Regular)	
Chapter 320, Laws of 1915 (Juvenile)	
Chapter 125, Laws of 1922 (Woodcock) \$229,740.84	
Chapter 153, Laws of 1918:	
Menhaden Licenses	\$2,375.00
Food Fish Licenses	2,400.00
Breeder's Licenses	1,450.00
Pound Licenses	6,460.00
Sundries	987.63
Sales Farms and Hatchery ...	437.43
Deputy Fees	971.00
Carp Permits	100.00
Trespass cases	260.00
	<hr/>
	15,441.06
Fines, Chapter 147, Laws of 1911	14,694.50
Returned Check	4.95
	<hr/>
	259,881.35
	<hr/>
	\$324,857.90

Expenditures	
Chapter 231, Laws of 1933	\$254,372.51
	<hr/>
Cash Balance July 1, 1934	\$70,485.39
Requisitions outstanding against this balance	7,729.33
	<hr/>
Account Balance	\$62,756.06

PUBLIC SHOOTING AND FISHING GROUNDS FUND

Balance on July 1, 1933	\$57,458.08
Receipts from July 1, 1933, to June 30, 1934	77,321.27
	<hr/>
Expenditures	69,526.28
	<hr/>
Balance on July 1, 1934	65,253.07

STOCKING OF NEW JERSEY WATERS

By the New Jersey Board of Fish and Game Commissioners
for the Fiscal Year Ending June 30, 1934

Total Number of Fish Planted from All Sources—113,762,756

KEY TO ABBREVIATIONS

Bt.	Brook Trout	Yper.	Yellow Perch
Brnt.	Brown Trout	Pic.	Pickereel
Rt.	Rainbow Trout	P.	Pike
Cb.	Calico Bass	S.	Sunfish
Wper.	White Perch	Lmb.	Large Mouth Bass
Shad.	Shad	Smb.	Small Mouth Bass
C.	Catfish	Misc.	Miscellaneous
R.	Roach	We.	Wall-eyed Pike

Size

fg.	fingerlings
f.	fry
a.	adult

ATLANTIC COUNTY

(Great Egg Harbor System)

Bargaintown Lake—Bargaintown—1,950 Lmbfg, 800,000 Yperf, 500 Bsfg, 1,500 Cfg.
Egg Harbor River—Weymouth—1,000 Cfg.
English Creek—Pleasantville—500 Bta, 300 Brnta.
Lenape Lake—Mays Landing—1,500 Lmbfg, 1,750 Bsfg, 4,250 Cfg.
Miry Run—Mays Landing—600,000 Yperf.

(Mullica River System)

Hammonton Lake—Hammonton—2,770 Lmbfg, 600,000 Yperf, 1,750 Bsfg, 2,100 Rta, 3,750 Cfg.
Indian Cabin Lake—Egg Harbor—2,490 Lmbfg, 600,000 Yperf, 800 Rta, 1,750 Cfg, 1,500 Ca, 400 Wpera.

BERGEN COUNTY

(Hackensack River System)

Boiling Spring Brook—Old Tappan—100 Bta.
Cooper's Pond—Bergenfield—750 Lmbfg, 300 Bta, 50 Rta.
Hackensack River—Oradell—3,990 Brnta.
Holdrum's Pond—Rivervale—400,000 Yperf.
Morrow Lake—Englewood—950 Bta, 450 Brnta, 675 Rta.
Pascack Creek—Montvale—5,700 Bta, 3,150 Brnta, 1,500 Rta.
Teller's Brook—Rivervale—400 Btfg, 1,000 Bta.
Tenckill Creek—Closter—200 Btfg, 1,150 Brnta.
Roosevelt Common Lake—Tenaffy—25 Rta, 200 Bta.
Willow Lake—Little Ferry—1,300 Bta, 1,050 Brnta, 875 Rta.

(Pascack Creek System)

Bear Creek—Woodcliff Lake—400 Btfg, 800 Bta.
Electric Lake—Montvale—1,500 Lmbfg, 400,000 Yperf.

(Passaic River System)

Ramapo River—Oakland—1,650 Bta, 1,895 Brnta, 1,100 Rta.
Saddle River—Saddle River—6,350 Bta, 4,600 Brnta, 1,425 Rta
Valentine Brook—Hawthorne—200 Btfg, 900 Bta.
Van Emburg's Pond—West Ridgewood—975 Lmbfg, 400,000 Yperf, 750 Rta,
800 Bta, 200 Brnta.

(Saddle River System)

New Lake—Ridgewood—400,000 Yperf.
Roerhich's Pond—Paramus—400,000 Yperf.
White's Pond—Waldwick—400,000 Yperf.

BURLINGTON COUNTY

(Delaware River System)

Cookstown Pond—Cookstown—400,000 Yperf, 50 Yper, 150 Wper, 500 Cfg.
Moorestown Pond—Moorestown—225 Lmbfg, 50 Yper, 150 Wper.
Sylvan Lake—Burlington—1,200 Lmbfg, 400,000 Yperf, 100 Yper, 5,350 Rta.
400 Brnta, 300 Wper.
Wrightstown Pond—Wrightstown—300 Lmbfg, 500 Cfg.

(Mullica River System)

Atsion Lake—Atsion—930 Lmbfg, 400,000 Yperf, 300 Bsfg, 750 Cfg.

(Rancocas Creek System)

Browns Mills Lake—Browns Mills—900 Lmbfg, 1,500 Cfg.
Lake Cotoxen—Kirby's Mills—300 Lmbfg, 50 Yper, 600 Bsfg, 150 Wper.
Durands Lake—Mt. Holly—285 Lmbfg.
Hartford Lake—Hartford—300 Lmbfg.
Medford Creek—Medford—310 Lmbfg, 600 Bsfg.
Mt. Holly Creek—Mt. Holly—300 Lmbfg, 750 Cfg, 400,000 Yperf.
Mt. Run Creek—Near Medford—225 Lmbfg.
New Lisbon Lake—New Lisbon—225 Lmbfg, 500 Cfg.
Pemberton Creek—Pemberton—300 Lmbfg.
Rancocas Park Lake—Rancocas—1,220 Lmbfg, 500 Cfg.
Smithville Lake—Smithville—400,000 Yperf, 150 Yper, 350 Wper, 500 Cfg.
Thomason's Mill Lake—Near Marlton—50 Yper, 150 Wper.
Virginia Lake—Bridgeboro—1,380 Lmbfg.
Vincentown Lake—Vincentown—300 Lmbfg.
Warwicks Lake—Hartford—600 Bsfg, 500 Cfg.

CAMDEN COUNTY

(Delaware River System)

Farnum Park Lake—Camden—300 Lmbfg, 500 Cfg.
Haddon Lake—Mt. Ephraim—750 Lmbfg, 800,000 Yperf, 500 Bsfg, 1,000 Cfg.
Hopkin's Lake—Haddonfield—800,000 Yperf, 1,000 Bsfg, 500 Cfg.
Mountwell Stream—Haddonfield—3,000 Brntfg.

(Cooper Creek System)

Evans Lake—Haddonfield—600 Lmbfg, 1,200,000 Yperf, 75 Yper, 500 Bsfg.
1,250 Cfg, 175 Wper.
Lindenwold Lake—Lindenwold—1,500 Cfg.
Lucas Lake—Gibbsboro—600 Lmbfg.
Roberts Park Lake—Collingswood—100 Bta.
Woods Pond—Boro. of Gibbsboro—450 Lmbfg, 200,000 Yperf, 75 Yper, 500
Bsfg, 250 Cfg, 175 Wper.

(Mullica River System)

Atco Lake—Atco—600 Lmbfg, 1,200,000 Yperf, 150 Yper, 1,000 Bsfg,
250 Wper, 200 C, 1,000 Cfg.
Spring Garden Lake—Near Braddock—450 Lmbfg, 500 Cfg.

(Big Timber Creek System)

Blackwood Lake—Blackwood—1,020 Lmbfg, 6 Lmba, 400,000 Yperf, 100 Yper,
1,100 Bsfg, 1,500 Cfg.
Bottomley's Lake—Clementon—450 Lmbfg, 200,000 Yperf, 1,000 Bsfg, 750 Cfg.
Clementon Lake—Clementon—1,500 Lmbfg, 2 Lmba, 400,000 Yperf, 550 Yper,
1,000 Bsfg, 400 Wper, 1,400 C, 1,000 Cfg, 400 Wper.
Grenloch Lake—Grenloch—150 Yper, 1,170 Lmbfg, 400,000 Yperf, 200 Brnta,
600 Bsfg, 150 Bta, 300 Rta, 500 C, 1,750 Cfg, 250 Wper.
Laurel Lake—Laurel Springs—600 Lmbfg, 1,000 Bsfg, 500 Cfg.
Big Lebanon Run—Turnersville—2,300 Bta, 2,000 Brntfg.
Pillings Lake—Clementon—450 Lmbfg.
Rattlesnake Run—Turnersville—200 Bta.
Wegmor Pond—Near Turnersville—1,600 Bta, 50 Rta.

CAPE MAY COUNTY

Alms House Pond—Cape May Court House—270 Lmbfg, 2,500 Bsfg, 800,000
Yperf.
Dennisville Pond—Dennisville—450 Lmbfg, 800,000 Yperf, 2,500 Bsfg.
Factory Pond—Eldora—390 Lmbfg, 3,000 Cfg.
Lilly Lake—Cape May—600 Lmbfg.
Ludlam's Pond—Cape May—450 Lmbfg, 800,000 Yperf, 2,500 Bsfg.
Ponell's Pond—Cape May Court House—150 Lmbfg.
Rio Grande Pond—Rio Grande—1,080 Lmbfg, 800,000 Yperf.

CUMBERLAND COUNTY

(Cohansey Creek System)

Cedar Lake—Cedarville—600 Lmbfg, 1,000,000 Yperf.
Clark's Pond—Bridgeton—1,050 Lmbfg, 800,000 Yperf.
Mary Elmer Lake—Bridgeton—600 Lmbfg, 800,000 Yperf, 750 Cfg.
Sunset Lake—Bridgeton—275 Rta.
Tumbling Dam Lake—Bridgeton—600 Lmbfg, 750 Cfg, 200 C, 508 Wper,
800,000 Yperf, 42 Smba, 556 Yper, 51 P, 122 Cb.

(Maurice River System)

Cumberland Lake—Near Millville—650 Lmbfg, 400,000 Yperf.
Laurel Lake—Near Millville—360 Lmbfg, 400,000 Yperf, 1,750 Bsfg, 2,375 Cfg.
Leaming Lake—Near Millville—1,550 Lmbfg, 400,000 Yperf, 2,000 Wper.
Union Lake—Millville—1,550 Lmbfg, 400,000 Yperf, 1,750 Bsfg, 2,375 Cfg.

ESSEX COUNTY

(Passaic River System)

Branch Brook Park Lake—Newark—1,350 Lmbfg, 600 Bsfg, 345 Rta, 605 Bta, 750 Cfg.
Clark's Pond—Bloomfield—1,350 Lmbfg, 900 Bsfg, 300 Rta.
Oakes Pond—Bloomfield—300 Rta.
Passaic River—Swinefield and Columbia Bridge—1,500 Bsfg, 3,000 Cfg.
Verona Park Lake—Verona—1,275 Lmbfg, 2,100 Bsfg, 675 Rta, 2,100 Brnta, 1,000 Cfg, 850 Bta.
Weequahic Park Lake—Newark—1,350 Lmbfg.
Yanticaw or Notch Brook—Essex Park—1,250 Bta, 300 Brnta, 325 Rta.

(Rahway River System)

So. Mt. Reservation—So. Orange—5,825 Bta, 3,400 Brnta, 2,025 Rta.
Vincient Lake—West Orange—1,500 Bsfg, 500 Cfg.

GLOUCESTER COUNTY

(Delaware River System)

Bell's Lake—Woodbury—1,000 Lmbfg, 800,000 Yperf, 400,000 Wperf, 1,200 C, 200 Wper, 100 Yper.
Woodbury Lake—Woodbury Heights—1,000 Lmbfg.

(Mantua Creek System)

Alcyon Lake—Pitman—1,500 Lmbfg, 800,000 Yperf, 400 Yper, 500 Bsfg, 300 Rta, 50 Bta, 500 Cfg, 100 Brnta, 400 Wper.
Leslie's Lake—Mt. Royal—200,000 Wperf, 100 Yper, 1,200 C, 200 Wper.
Mantua Creek—Pitman—500 Bta, 100 Rta.
Plark Run—Pitman—100 Bta.
Wenonah Lake—Wenonah—1,000 Lmbfg.

(Maurice River System)

Iona Lake—Iona—1,100 Lmbfg, 800,000 Yperf, 150 Yper, 1,000 Bsfg, 500 Cfg, 650 Wper.
Malaga Lake—Clayton—500 Lmbfg, 800,000 Yperf, 400 Yper, 1,000 Bsfg, 600 C, 500 Cfg, 400 Wper.
Wilson Lake—Clayton—1,375 Lmbfg, 800,000 Yperf.

(Raccoon Creek System)

Cherry Run—Gilman Lake—400 Bta.
Gilman Lake—Ewan—1,170 Lmbfg, 500 Yper, 525 Brnta, 400 Rta, 200 C, 500 Wper, 700 Bta.

(Big Timber Creek System)

Almonesson Lake—Almonesson—1,395 Lmbfg, 800,000 Yperf, 400,000 Wperf, 600 Bsfg, 750 Yper, 1,000 C, 750 Cfg, 1,050 Wper.
Big Lebanon Run—Turnersville—400 Bta.
Little Lebanon Run—Turnersville—1,800 Bta.
Turnersville Pond—Turnersville—1,140 Lmbfg, 600 Bsfg, 1,250 Cfg.

HUDSON COUNTY

Hudson County Park Lake—North Bergen—1,400 Bta, 1,000 Brnta, 550 Rta.

HUNTERDON COUNTY

(Delaware River System)

Alexauken Brook—Lambertville—550 Bta.
Everittstown Brook—Everittstown—225 Brnta, 400 Rta.
Lackatong Creek—Stockton—200 Bta, 1,500 Brnta, 600 Rta.
Little York Brook—Little York—450 Bta, 375 Brnta, 500 Rta.
Mount Pleasant Brook—Mount Pleasant—400 Bta.
Musconetcong River—Penwell to Asbury—6,100 Bta, 3,950 Brnta, 600 Rta.
Nishisakawick Creek—Frenchtown—225 Brnta, 225 Rta.
Spring Mills Brook—Spring Mills—150 Bta, 375 Brnta, 225 Rta, 10,000 Rtfg.
Wichecheoke Run—Sergeantsville—300 Rta.

(Lamington River System)

Cold or Skillman Brook—New Germantown—675 Bta, 500 Brntfg, 525 Brnta.
Rheinhardt's Pond—Oldwick—575 Bta.

(Musconetcong River System)

Beaty's Brook—Penwell—1,650 Bta, 9,000 Brntfg, 650 Brnta, 50 Rta.
Creveling Brook—West Portal—9,000 Brntfg.
Dairy Run—Changewater—300 Bta.

(Raritan River System)

Beaver Brook—Clinton—300 Bta.
Camp Brett Pond—Round Valley—350 Bta, 125 Brnta.
Capepoulin Creek—Pittstown—300 Bta, 150 Rta.
Clinton Pond—Clinton—2,000,000 Yperf.
Cramers Brook—Califon—500 Brntfg.
DeWitt's Pond—Woodglen—150 Brnta, 450 Rta, 150 Bta.
Neshanic River—Copper Hill—125 Bta, 125 Brnta.
Norton Brook—Norton—875 Bta, 325 Brnta, 325 Rta.
Prescott Brook—Lebanon—350 Bta, 1,000 Brntfg, 125 Brnta.
So. Br. Raritan River—Middle Valley to High Bridge—7,425 Bta, 8,975 Brnta, 5,000 Brntfg, 3,450 Rta, 5,250 Lmbfg, 2,000 Cfg.
Reformatory Brook—Clinton—500 Bta, 100 Rta.
Spruce Run—Glen Gardner—2,400 Bta, 600 Brnta, 1,000 Rta.
Solitude Lake—High Bridge—3,300 Lmbfg, 1,750 Cfg.
Tetertown Brook—Califon—1,625 Bta, 300 Brnta, 375 Rta.
Woodglen Lodge Pond—Califon—250 Brnta, 850 Bta, 200 Rta.

(Rockaway River System)

Cushetunk Lake—White House—2,175 Lmbfg, 2,800,000 Yperf.
Hoover's Pond—Clinton—500 Rta, 200 Bta.
No. Br. Rockaway River—New Germantown to White House—9,150 Bta, 3,475 Brnta, 1,050 Rta.
So. Br. Rockaway River—Lebanon to White House—1,100 Bta, 1,000 Brntfg, 650 Brnta, 925 Rta.

MERCER COUNTY

(Crosswicks Creek System)

Yardville Lake—Yardville—600 Lmbfg, 1,500 Bsf, 1,750 Cfg.

(Delaware River System)

Assanpink Creek—Lawrence Station—75 Bta, 75 Brnta, 250 Rta.
Hutchinson's Pond—Robbinsville—1,200 Lmbfg, 600,000 Yperf, 1,500 Bsf, 2,750 Cfg.
Whitehead's Pond—Trenton—600 Lmbfg, 1,000 Cfg.

(Millstone River System)

Carnegie Lake—Princeton—2,100 Lmbfg, 5,500 Bsf, 4,000 Cfg.
Etra Lake—Etra—600 Lmbfg, 600,000 Yperf, 1,500 Bsf, 1,750 Cfg.
Peddie Lake—Hightstown—1,200 Lmbfg, 600,000 Yperf, 1,500 Bsf, 2,750 Cfg.
Stoney Brook—Pennington—1,700 Bta, 1,000 Brnta, 1,750 Rta.

(Miry Run System)

Reed's Mill Pond Mercerville—600 Lmbfg, 600,000 Yperf, 1,000 Cfg.

MIDDLESEX COUNTY

(Lawrence River System)

Oakey Brook—Franklin Park—112 Rta.

(Manalapan River System)

DeVoe's Lake—Spotswood—3,600 Bsf, 2,750 Cfg.
Jamesburg Lake—Jamesburg—1,030 Lmbfg,
Manalapan River—Jamesburg—775 Bta, 200 Brnta, 50 Rta.
Matchponix Brook—Old Bridge—375 Bta.
Spotswood Lake—Spotswood—1,040 Lmbfg.

(Millstone River System)

Cranberry Lake—Plainsboro—900 Lmbfg.
Plainsboro Lake—Plainsboro—900 Lmbfg.

(Rahway River System)

Ash Brook—Near Plainfield—75 Brnta, 75 Rta.
Sage or Sucker Brook—Metuchen—225 Rta.

(Raritan River System)

Bonhampton Lake—Bonhampton—450 Lmbfg, 575 Brnta, 775 Rta, 750 Cfg, 350 Bta.
Farrington Lake—Near New Brunswick—1,050 Lmbfg, 600,000 Yperf, 1,500 Bsf, 2,500 Cfg.
Lawrence Brook—New Brunswick—400 Bta, 225 Brnta, 613 Rta.
Mill Brook—Bonhampton—150 Rta.
Mirrow Lake—Nixon—1,500 Bsf, 1,250 Cfg.
Nixon Pond—Nixon—300 Lmbfg, 750 Cfg.
So. Plainfield Lake—So. Plainfield—750 Lmbfg, 1,250 Cfg.
Silver Lake—Raritan Township—3,000,000 Yperf.
Weston's Mills Lake—New Brunswick—900 Lmbfg, 1,000 Cfg.

MONMOUTH COUNTY

(Atlantic Ocean System)

Como Lake—Como—825 Lmbfg.
Deal Lake—Allenhurst—675 Lmbfg.
Manasquan River—Ardena—2,000 Brntf, 1,800 Brnta.
Old Mill Pond—Villa Park—1,470 Lmbfg, 400,000 Yperf, 175 Rta.
Shark River—Belmar—1,500 Bta.

(Delaware River System)

Allentown Lake—Allentown—750 Lmbfg, 175 Rta.
Doctor's Creek—Allentown—175 Brnta.
Osborne's Pond—Bailey's Corner—1,590 Lmbfg, 400,000 Yperf, 100 Rta.
Spring Lake—Spring Lake—825 Lmbfg, 100 Bta, 50 Rta.
Lake Takanassee—Long Branch—750 Lmbfg.

(Doctor's Creek System)

Imlaystown Lake—Imlaystown—750 Lmbfg, 175 Rta.

(Manalapan River System)

Black Mills Lake—Milhurst—900 Lmbfg, 200 Rta.
Englishtown Pond—Englishtown—525 Lmbfg.
Orr's Brook—So. of Englishtown—1,000 Brntf, 325 Brnta.
Topenemus Brook—Englishtown—300 Btfg, 250 Bta, 50 Brnta.
Topenemus Lake—Freehold—3,045 Lmbfg, 600,000 Yperf, 1,800 Bsf, 550 Rta, 1,250 Cfg.
Wemrock Brook—Englishtown—300 Btfg, 450 Bta, 50 Brnta.

(Manasquan River System)

Barn Brook—Buckshootem—1,000 Brntf.
Cat Tail Brook—Buckshootem—1,000 Brntf, 100 Brnta.
Deauville Pond—New Bedford—1,200 Lmbfg, 1,800 Bsf, 1,250 Cfg.

(Metedeconk River System)

No. Br. Metedeconk River—No. of Lakewood—225 Bta.

(Raritan River System)

Leffert's Lake—Matawan—2,025 Lmbfg, 1,800 Bsf, 1,250 Cfg.
Manalapan River—Jamesburg—700 Brnta.
Treasure Lake—Cliffwood—900 Lmbfg.

(Shark River System)

Fitkin Memorial Hospital Lake—Neptune Township—400,000 Yperf.
Hurley's Pond—Glendola—400,000 Yperf, 1,500 Bsf, 100 Rta, 1,250 Cfg.

(Shrewsbury River System)

Hat Factory Brook—Eatontown—100 Bta.

(Swimming River System)

Big Brook—Marlboro—600 Btfg, 500 Bta.
Buck Mills Lake—Colts Neck—750 Lmbfg, 325 Rta, 400,000 Yperf.
Hockhocks Brook—Tinton Falls—950 Bta, 50 Brnta.
Hyer's Pond—Colts Neck—200 Bta.
Mine Brook—Tinton Falls—250 Btfg, 300 Bta.
Pine Brook—Tinton Falls—925 Bta, 25 Brnta.
Ramenessin Brook—Holmdel—200 Bta.
Randolph Brook—East Freehold—250 Btfg, 300 Bta.
Snyder's Brook—Colts Neck—250 Btfg, 200 Bta.
Willow Brook—Holmdel—500 Btfg, 700 Bta.
Yellow Brook—Tinton Falls—750 Btfg, 850 Bta, 50 Brnta.

MORRIS COUNTY

(Black River System)

Apgar's Pond—Chester—150 Rta, 300 Bta.

(Delaware River System)

Musconetcong River—Lake Hopatcong to Penwell—9,950 Bta, 4,345 Brnta, 3,025 Rta.
Weldon Brook—Hurdstown—300 Bta.

(Musconetcong River System)

Branning Brook—Stephensburg—3,000 Btfg.
Delicker Brook—Hackettstown—3,000 Btfg.
Good Brook—Hackettstown—6,000 Btfg.
Gulick's Brook—Schooley's Mt.—2,000 Btfg, 625 Bta, 125 Brnta, 187 Rta.
Mine Brook—Hackettstown—300 Bta, 9,000 Brntfg.
Musconetcong Lake—Netcong—4,375 Lmbfg, 3,000,000 Yperf, 3,500 Bsf, 3,550 Cfg.
Saunders' Brook—Drakestown—2,000 Btfg.
Schooley's Mt. Brook—Schooley's Mt.—1,050 Bta, 250 Brnta, 150 Rta.
Stephensburg Brook—Stephensburg—3,000 Btfg, 9,000 Brntfg.
Willis Brook—Stanhope—250 Bta.

(Passaic River System)

Asylum Brook—Morris Plains—850 Brnta, 650 Rta.
Burnt Meadow Brook—Beech Glen—550 Bta, 150 Rta.
Connet Brook—Brookside—250 Bta.
Hibernia Brook—Hibernia—300 Bta.
Jacksonville Brook—Towaco—300 Bta.
Kikeout Brook—Butler—1,250 Bta, 500 Brnta, 350 Rta.
Mill Brook—Dover—500 Btfg, 300 Bta, 500 Brntfg.
Rockaway River—Rockaway—600 Btfg, 6,600 Bta, 600 Brntfg, 8,150 Brnta, 2,100 Rta.
Troy Brook—Parsippany—600 Bta, 200 Brnta, 300 Rta.

(Raritan River System)

Berry Brook—Near Parker—200 Btfg, 200 Brntfg.
Black River—Milltown to Pottersville—4,900 Bta, 4,875 Brnta, 975 Rta.
Budd Lake—Budd Lake—33 Cba, 3,790 Lmbfg, 55 Lmba, 3,000,000 Yperf, 3,500 Bsf, 5 Pic, 2,800 Cfg, 650 Misc.

Burnett Brook—Ralston—3,800 Bta, 900 Brntfg, 2,175 Brnta, 1,000 Rta.
Electric Brook—Schooley's Mt.—1,725 Bta, 900 Brnta, 225 Rta.
Flanders Brook—Flanders—300 Bta.
Indian Brook—Ralston—500 Bta, 900 Brntfg, 200 Brnta.
Jockey Hollow Reservoir—Mt. Vernon—4,000 Brntfg.
Ledgewood Brook—Ledgewood—300 Bta.
Peapack Brook—Chester to Gladstone—100 Rta.
So. Br. Raritan River—Budd Lake to Naughtright—8,050 Bta, 7,475 Brnta, 4,375 Rtfg, 2,675 Rta.
Stoney Brook—Bartley—300 Bta, 250 Brnta, 450 Rta.
Turkey Brook—Near Budd Lake—3,000 Btfg.

(Rockaway River System)

Canatta Brook—Mt. Freedom—25 Bta, 187 Brnta, 37 Rta.
Cozy Lake—Oakridge—900 Lmbfg.
Crooked Brook—Montville—300 Bta.
Dalrymple's Ice Pond—Dover—300 Rta.
Espanong Lake—Near Lake Hoptacong—300 Bta, 400 Brnta, 475 Rta.
Fayson Lake—Taylortown—79 Cba, 246 Lmba, 12 Pic, 2,650 Misc.
Granny's Brook—Mine Hill—300 Btfg, 300 Bta, 300 Brntfg.
Green Pond—Near Newfoundland—1,500 Smbfg.
Lake Hopatcong—Lake Hopatcong—3,075 Lmbfg, 6,000,000 Yperf, 5,000 Bsf, 5,000 Bsf.
Longwood Lake—Longwood—1,500 Lmbfg, 2,500 Bsf.
Mt. Hope Pond—Mt. Hope—820 Lmbfg, 75 Bsf, 275 Rta, 225 Brnta, 2,000 Cfg.
Stickle's Brook—Powerville—1,150 Bta, 250 Brnta, 425 Rta.
Tabor Brook—Mt. Tabor—200 Rta.
Washington Valley Brook—Morristown to Mendham—875 Bta, 1,163 Brnta, 788 Rta.
Whippany River—Morristown—450 Brnta.

(Whippany River System)

Black Brook—Madison—700 Brnta.
Burnham Park Lake—Morristown—7,025 Bsf, 250 Bta, 25 Rta, 1,750 Cfg.

OCEAN COUNTY

Bamber Lake—Bamber—960 Lmbfg, 600 Bsf, 500 Cfg.
Barnegat Pine Lakes—Forked River—1,875 Lmbfg, 800,000 Yperf.
Cassville Lake—Cassville—1,080 Lmbfg, 900 Bsf, 500 Cfg.
Colliers Mill Lake—Colliers Mill—900 Bsf, 750 Cfg.
Deer Head Lake—Forked River—750 Lmbfg, 1,800 Bsf, 2,250 Cfg.
Double Trouble—Toms River—250 Bta, 600 Brnta.
Forked River—Forked River—1,600,000 Yperf.
Jackson Mills Lake—Jackson Mills—1,620 Lmbfg, 600 Bsf, 1,500 Cfg.
Lower Lake—Forked River—600 Lmbfg.
Manahawkin Lake—Manahawkin—1,200 Lmbfg, 1,750 Cfg.
No. Br. Metedeconk River—Lakewood—2,275 Bta, 225 Brnta, 375 Rta.
New Egypt Lake—New Egypt—450 Lmbfg, 900 Bsf, 1,500 Cfg.
Toms River—Holmsville—650 Bta, 350 Brnta, 50 Rta.
Tuckerton Lake—Tuckerton—1,200 Lmbfg, 600 Bsf, 1,750 Cfg.

PASSAIC COUNTY

(Greenwood Lake System)

Belcher's Creek—West Milford—3,000 Btfg, 1,500 Bta, 50 Brnta, 100 Rta.
Cooley Brook—Greenwood Lake—3,000 Btfg, 950 Bta, 50 Brnta, 425 Rta.

(Passaic River System)

Barbours Pond—West Paterson—1,600,000 Yperf.
Haledon Reservoir—Haledon—350 Rta.
Oldham's Pond—Haledon—750 Lmbfg, 1,000,000 Yperf, 475 Rta.
Passaic River—Columbia Bridge—2,475 Lmbfg.
Pompton River—Pompton Plains—3,075 Lmbfg.
Wanaque River—Pompton Lakes—2,550 Bta, 5,755 Brnta, 1,500 Rta.

(Pompton River System)

Packanack Lake—Wayne—2,400 Lmbfg, 2,500 Cfg.
Pequannock River—Charlottsburg—700 Bta, 1,550 Brnta, 1,225 Rta.
Twin Lakes—Above Pompton—1,050 Lmbfg.

(Ramapo River System)

Pompton Lakes—Pompton Lakes—5,775 Lmbfg, 2,600,000 Yperf, 9,000 Bsf, 2,500 Cfg.

(Wanaque River System)

Upper Greenwood Lake—Greenwood Lake—75 Smbfg, 1,650 Lmbfg.
Greenwood Lake—Greenwood Lake—3,750 Lmbfg, 4,200,000 Yperf.
High Mt. Brook—Midvale—3,000 Btfg, 1,100 Bta.
Post Brook—Macopin—3,000 Btfg, 200 Bta, 175 Brnta, 750 Rta.
Sand Pit—Midvale—450 Lmbfg.

SALEM COUNTY

(Alloway Creek System)

Alloway Lake—Alloway—900 Lmbfg, 1,000,000 Yperf, 400,000 Wper, 1,500 Bsf, 20 C, 275 Wper, 198 Yper, 95 R.
Ballinger's Mill Lake—Aldine—450 Lmbfg, 400,000 Yperf.
Cobbs Lake—Alloway—450 Lmbfg, 600,000 Yperf, 375 Bta.
Hazelhurst Stream—Alloway—975 Bta, 300 Rta.
Camp Roosevelt Lake—Aldine—300 Lmbfg, 400,000 Yperf, 400,000 Wper, 1,000 Bsf, 38 C, 355 Wper, 16 S, 307 Yper, 178 R.

(Delaware River System)

Alloway Creek—Alloway—400,000 Wper, 60,000 Shadf.

(Maurice River System)

Centreton Lake—Centreton—480 Lmbfg, 400,000 Yperf, 400,000 Wper, 1,000 Bsf, 18 C, 750 Cfg, 732 Wper, 6 S, 464 Yper, 360 R.
Elmer Lake—Elmer—480 Lmbfg, 400,000 Yperf, 400,000 Wper, 1,500 Bsf, 700 C, 750 Cfg, 606 Wper, 20 S, 491 Yper, 244 R.
Maurice River—Yop Shore—2,714,000 Shadf.
Muddy Run—Elmer—126 C, 264 Wper, 191 Yper, 132 R, 4 S.
Parvin's Lake—Norma—400,000 Yperf, 400,000 Wper, 356 C, 510 Wper, 8 S, 396 Yper, 202R.
Rainbow Lake—Near Norma—180 Lmbfg, 400,000 Yperf, 2,000 Bsf.
Union Grove Lake—Near Centreton—180 Lmbfg, 1,500 Bsf.
Willow Grove Lake—Willow Grove—2 Cb, 180 Lmbfg, 400,000 Yperf, 91 Yper, 2,000 Bsf, 19 C, 246 Wper, 8 S, 94 R.
Walker's Run—Willow Grove—200,000 Yperf.

(Salem Creek System)

Avis Lake—Woodstown—300 Lmbfg, 600,000 Yperf, 400,000 Wper, 2,376 C, 396 Wper, 3 S, 273 Yper, 698 R.
Davis Lake—Salem—2 Cb, 600 Lmbfg, 400,000 Yperf, 45 Yper, 1,000 Bsf, 114 C, 56 Wper, 5 S, 30 R.
Memorial Lake—Woodstown—450 Lmbfg, 600,000 Yperf, 400,000 Wper, 1,000 Bsf, 192 R, 52 C, 984 Wper, 31 S, 368 Yper, 4 We.
Richmontown Lake—Richmontown—450 Lmbfg, 1,000 Bsf.
Salem Creek—Salem—400,000 Wper, 90 C.
Woodstown Lake—Woodstown—300 Lmbfg.

SOMERSET COUNTY

(Millstone River System)

Back Brook—Bridgepoint—25 Bta, 425 Brnta, 10 Rta.
No. Pike Brook—Bridgepoint—325 Bta, 125 Brnta, 200 Rta.
Roaring Rock Brook—Belle Mead—25 Bta, 50 Brnta, 15 Rta.
Rock Brook—Zion—200 Bta.

(Passaic River System)

Indian Graves Brook—Bernardsville—1,950 Bta, 350 Brnta, 600 Rta.
Passaic River—Millington—2,350 Lmbfg.
Somerset Inn Brook—Bernardsville—525 Bta, 325 Brnta, 100 Rta.
Osborne's Pond—Bernardsville—600 Lmbfg, 50 Rta, 50 Bta, 75 Brnta.
Warren Township Pond—West Millington—1,100 Rta, 250 Bta.

(Raritan River System)

Black River—Pottersville—200 Bta, 700 Brnta, 125 Rta.
Lamington River—Pottersville—600 Lmbfg.
Middle Brook—Boundbrook—850 Bta, 810 Rta.
Peapack Brook—Gladstone—400 Brnta, 100 Rta.
No. Br. Raritan River—Far Hills—1,375 Bta, 1,600 Brnta, 1,100 Rta, 2,150 Lmbfg.

SUSSEX COUNTY

(Delaware River System)

Delaware River—Delaware Water Gap to Flatbrook—7,650 Smbfg.
Little Flat Brook—Layton—4,000 Btfg, 5,100 Bta, 1,200 Brntfg, 2,350 Brnta, 650 Rta.
Big Flat Brook, Upper—Tuttles Corner—2,000 Btfg, 9,575 Bta, 2,625 Brnta, 700 Rta.
Big Flat Brook, Lower—Wallpack Center—3,000 Btfg, 4,850 Bta, 10,040 Brnta, 2,075 Rta.
Mill Brook—Montague Township—1,920 Btfg, 500 Bta.
Musconetcong River—Stanhope—650 Rta.
Paulinskill River—Lafayette to Stillwater—5,625 Bta, 6,200 Brntfg, 4,275 Brnta, 6,000 Rtfg, 750 Rta.
Pequest River—Brighton to Springdale—4,650 Bta, 1,300 Brnta, 1,340 Rta.
Shimers Brook—Millville—300 Bta.

(Big Flat Brook System)

Kittatinny Lake—Culvers Lake—1,775 Lmbfg, 4,000 Bsf, 2,000 Cfg.
Stoney Lake—In the Reservation—300 Rta.
Stoney Brook—Tuttles Corner—200 Bta.
Snook Brook—Tuttles Corner—400 Bta.
Tuttles Corner Brook—Tuttles Corner—150 Rta.

(Hudson River System)

Wallkill River—Sparta to Franklin—2,050 Bta, 2,000 Brntfg, 900 Brnta, 1,375 Rta.

(Musconetcong River System)

Cranberry Lake—Cranberry Lake—3,825 Lmbfg, 125 Lmb, 3,000,000 Yperf, 4 Pic, 4,050 Cfg, 400 Misc, 22 Cb.
Dragon Brook—Outlet of Cranberry Lake—1,920 Btfg, 1,350 Bta, 450 Brnta, 75 Rta.
J. E. Hammett's Pond—Roseville—150 Bta, 50 Rta.
Lubbers Run—Cranberry Lake—150 Bta, 300 Rta.
Weaver House Cove Brook—Cranberry Lake—200 Bta.

(Paulinskill River System)

Alms House Brook—Myrtle Grove—400 Bta.
Beaver Lake Brook—Two Bridges—250 Bta.
Culvers Lake Brook—Culvers Lake—300 Bta.
Culvers Lake—Culvers Lake—1,500 Smbfg, 4,945 Lmbfg, 4,200,000 Yperf, 2,500 Bsf, 4,250 Cfg.
Fairview Lake—Near Hardwick—300 Smbfg, 1,520 Lmbfg.
Lake Owassa—Near Culvers—525 Smbfg, 3,995 Lmbfg, 7,200,000 Yperf, 2,500 Cfg.
Paulinskill Lake—Swartswood—1,800 Lmbfg.
Quick's Pond—No. of Swartswood—150 Smbfg, 1,050 Lmbfg.
Ross Brook—Stockholm—1,920 Btfg, 400 Bta.
Roy Brook—Stillwater—150 Bta, 150 Rta.
Big Swartswood Lake—Swartswood Lake—6,005 Lmbfg, 119 Lmb, 2,500 Bsf, 3,000,000 Yperf, 28 Cb, 4 Pic, 6,750 Cfg, 1,175 Misc.
Little Swartswood Lake—Swartswood Lake—750 Lmbfg.
Trout Brook—Middleville—880 Btfg, 150 Bta, 200 Rta.

(Pequest River System)

Andover Jc. Brook—Andover Jc.—1,920 Btfg, 730 Bta, 180 Rta.
Hiff Lake—Near Andover—1,200,000 Yperf.
Kymers Brook—Andover—1,920 Btfg, 1,000 Bta, 800 Rta.
Lenape Lake—Andover—1,000,000 Yperf.
Outlet of Lake Lenape—Andover—550 Bta, 12 Rta,
Muck Meadow Brook—Andover—1,920 Btfg.
Skinner's Pond—Tranquility—825 Bta, 150 Brnta, 470 Rta.
Tar Hill Brook—Tar Hill—1,920 Btfg, 1,400 Bta, 200 Brnta, 650 Rta.
Wawayanda Lake—Andover Jc.—3,550 Lmbfg, 800,000 Yperf, 2,500 Bsf, 5,000 Cfg.

(Rockaway River System)

Bear Pond—Lake Hopatcong—1,575 Lmbfg, 1,200,000 Yperf.
Lake Hopatcong—Lake Hopatcong—3,450 Lmbfg, 3,000,000 Yperf.

(Wallkill River System)

Beaver Run—Beaver Run—1,920 Btfg, 1,250 Bta, 800 Brntfg, 100 Rta.
Black or Pochuck Creek—McAfee—2,400 Bta, 1,500 Brnta.
Black Brook—Beaver Lake—1,920 Btfg, 1,100 Bta, 300 Rta.
Clove Brook—Sussex—1,175 Bta, 1,125 Brnta, 775 Rta.
Grinnell Lake—Monroe—150 Smbfg, 1,770 Lmbfg, 1,200,000 Yperf, 4,000 Cfg.
Papakating Creek—Sussex—1,150 Bta, 225 Brnta, 325 Rta.
Sparta Glen Brook—Sparta—1,920 Btfg, 200 Bta, 800 Brnta, 100 Rta.
Sparta Jc. Brook—Sparta Jc.—1,920 Btfg, 200 Bta, 1,400 Brntfg.
Warwick River—DeKays—500 Bta, 750 Brnta, 125 Rta.

UNION COUNTY

(Arthur Kill System)

Warinanco Lake—Boro. of Roselle—1,500 Bsf, 1,250 Cfg.

(Rahway River System)

Ash Brook—Ashbrook—250 Bta, 100 Brnta.
Bryant Lake—Near Summit—375 Lmbfg, 400,000 Yperf, 600 Bsf, 350 Rta, 500 Cfg.
Echo Lake—Mountainside—1,650 Lmbfg, 400,000 Yperf, 600 Bsf, 500 Cfg.
Middlesex Water Works Lake—Rahway—900 Bsf, 500 Cfg.
Nomehegan Park Lake—Cranford—1,500 Lmbfg, 400,000 Yperf, 600 Bsf, 200 Rta, 500 Cfg.
Normahaggin Brook—Cranford—100 Rta.
Rahway River Park Lake—Rahway—1,500 Lmbfg, 400,000 Yperf, 600 Bsf, 500 Cfg.
Rahway River—Rahway—4,000 Bta, 1,375 Brnta, 250 Rta, 2,850 Lmbfg.
Robinson Branch Brook—Scotch Plains—250 Bta.
Surprise Lake—Summit—1,350 Lmbfg, 600,000 Yperf, 600 Bsf, 500 Cfg.

(Raritan River System)

Cedar Brook Park Lake—Plainfield—300 Lmbfg, 400,000 Yperf, 600 Bsf, 225 Brnta, 500 Cfg.
Diamond Hill Brook—New Providence Township—250 Bta.
Green Brook—Scotch Plains—550 Bta, 200 Brnta.
Seeley's Pond—Scotch Plains—1,200 Lmbfg, 400,000 Yperf, 600 Bsf, 600 Brnta, 500 Cfg.

WARREN COUNTY

(Delaware River System)

Buckhorn Creek—Roxburg—800 Bta.
Columbia Lake—Columbia—1,950 Lmbfg.
Delaware River—Phillipsburg to Foulrifi—4,800 Lmbfg, 1,650 Smbfg.
Dunnfield Creek—Dunnfield—1,613 Bta, 188 Brnta, 375 Rta.
Lopatcong Creek—Above Phillipsburg—700 Bta.
Musconetcong River—Waterloo to Penwell—12,475 Bta, 4,000 Brntfg, 8,430 Brnta, 4,090 Rta.
Paulinskill River—Stillwater to Paulina—8,025 Bta, 5,000 Brntfg, 7,045 Brnta, 1,950 Rta.
Pequest River—Townsbury to Belvidere—10,950 Bta, 2,675 Rta.
Pohatcong Creek—Mt. Bethel—2,675 Bta, 1,325 Brnta, 225 Rta.
Triple Brook—Hope—600 Bta, 300 Rta.
Van Campens Brook—Millbrook—1,600 Btfg, 3,487 Bta, 1,962 Brnta, 775 Rta.

(Musconetcong River System)

Allen's Pond—Hackettstown—685 Brnta, 1,490 Bta, 950 Rta.
Anderson Brook—Anderson—10,000 Brntfg.
Guard Lock—Hackettstown—975 Lmbfg, 2,000,000 Yperf, 500 Bsfg, 3,975 Cfg.
Hance Brook—Beatystown—9,000 Brntfg.
Intervale Brook—Saxon Falls—800 Bta.
Springtown Run—Port Colden—300 Bta.

(Paulinskill River System)

Blairs Creek—Blairstown—4,700 Bta, 2,000 Brntfg, 800 Brnta, 925 Rta.
Ceconi Pond—Marksboro—450 Rta, 825 Bta, 1,125 Brnta.
Cedar Lake—Blairstown—1,650 Lmbfg, 600,000 Yperf, 1,500 Bsfg.
Halsey Lake—Columbia—1,050 Lmbfg.
Jacksonburg Brook—Jacksonburg—1,275 Bta, 1,000 Brntfg, 1,675 Brnta, 200 Rta.
Kalarama Brook—Hainesburg—875 Bta, 350 Brnta, 850 Rta.
Mingles Pond—Paulina—1,062 Bta, 725 Brnta, 1,027 Rta.
Mulcahy's Pond—Hardwick Township—275 Bta, 125 Brnta, 100 Rta.
Susquehanna Lake—Blairstown—2,100 Lmbfg, 800,000 Yperf, 2,500 Bsfg, 1,250 Cfg.
White Lake—Marksboro—150 Smbfg, 1,650 Lmbfg, 600,000 Yperf, 300,000 Wperf, 2,500 Bsfg, 1,250 Cfg.
Yards Creek—Hainesburg—500 Bta.

(Pequest River System)

Bacon Run—Petersburg—250 Bta.
Bear Creek—Long Bridge—2,450 Bta, 75 Rta.
Beaver Brook—Hope—7,150 Bta, 375 Brnta, 850 Rta.
Buckaloo Swamp Brook—Mt. Herman—1,600 Bta, 15 Rta.
County House Pond—Townsbury—100 Brnta, 350 Rta.
Hait's Pond—Great Meadows—188 Bta, 150 Brnta, 113 Rta.
Kastenbader Brook—Hope—150 Rta.
Mt. Lake—Near Buttzville—150 Smbfg, 3,600 Lmbfg, 147 Smb, 1,600,000 Yperf, 2,500 Bsfg, 43 Ch, 7 Pic, 1,250 Cfg, 815 Misc.
Mt. Lake Brook—Mt. Lake—200 Brnta.
Silver Lake—Hope—150 Smbfg, 3,000 Lmbfg, 1,400,000 Yperf, 2,500 Bsfg, 1,250 Cfg.

(Pohatcong Creek System)

Bryan's Pond—Washington—200 Brnta.
Lows Hollow Brook—Above Phillipsburg—500 Bta, 400 Brnta, 500 Rta.
Roaring Rock Brook—Brass Castle—900 Bta.