

PORT—STATE FISHERIES.

the Wayne hatchery. I retained 10,000 fry and e been planted in certain streams in Wayne County aware Rivers. Several small specimens of silver re the close of the season. The fish were four or the hatchery for identification. Meanwhile the took food and remained perfectly healthy. They will run from six to nine inches in length. They a water and take food eagerly and show every sign ment in fresh water. We may have to put fences ing out. They will jump two or three feet if any- s eagerly as brook trout. It looks as though the our lakes. We feel very much encouraged in this

n of the rainbow trout in New York, I know from at Caledonia came from J. B. Campbell, who was time an assistant of Mr. Livingston Stone on the of the first eggs hatched in New York and others r. Since that time New York has received rain- f Fisheries. But the original stock of fish, it ap- pects. Mr. Frank N. Clark was on the McCloud t was. At that time the rainbow trout were very me at least—I don't know whether Mr. Clark will wo kinds of rainbows in the McCloud River, the r fish. I presume one was a subspecies and the

t in 1876 Dr. Bean and I made a trip to the Sacra- p to the McCloud River. In 1877 I went to the i 1878 I made the same trip with shad again, and h the proprietor of a private hatchery for a supply ough back to Northville. The first rainbow eggs e fish, but they were not the first rainbow trout e had eggs; just where we got them I don't re- Mr. Bower mentioned as being the first rainbows ext lot of fry came from the yearlings that we We started with 125 yearlings from four to twelve some of the larger fish. We had a small take of nted in the Au Sable River by Mr. Fitzhugh.

TWENTIETH BIENNIAL REPORT

OF THE

STATE BOARD

OF

FISH COMMISSIONERS

FOR YEARS 1911 AND 1912, INCLUDING TABLES OF FISH
PLANTS FOR LAST HALF OF 1910



BY AUTHORITY

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BOARD OF FISH COMMISSIONERS.

COMMISSIONERS.

..... President

WALTER J. HUNSAKER..... Vice-President

..... Superintendent

..... Treasurer

of the Board, 607 Stevens Building, Detroit.

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TWENTIETH BIENNIAL REPORT OF THE MICHIGAN STATE BOARD OF FISH COMMISSIONERS.

To His Excellency, the Governor:

The State Board of Fish Commissioners herewith submits its twentieth biennial report, covering the years 1911 and 1912, also including a separate list of fish plants for the last half of 1910, not concluded in time for our nineteenth report. Repairs under way in the latter part of 1910 and completed the following year are included in the regular biennial period.

REPAIRS AND IMPROVEMENTS.

MILL CREEK STATION.

Installed one new jar battery for hatching perch eggs, capacity, 56 jars.

Two fry tanks decayed beyond repair were replaced with new ones, 2x4x12 feet.

Laid a 5 inch pipe between Island pond and a new pond partly completed; also 200 feet of 12 inch sewer from pond No. 7 to creek, and 120 feet of 12 inch sewer along driveway to prevent washing it out.

Built 8x10 concrete dock in pond No. 1, for convenience in filling and washing cans, etc.

An efficient and economical plan of removing mud and sediment from ponds was put into practice. The equipment consists of a centrifugal pump and a 4-horse power gasoline engine, suitably framed and firmly mounted on heavy skids. Being permanently lined up and adjusted and attached to runners, the outfit is easily transferred from one point to another, ready for immediate action.

The following repairs and improvements were made to the barn: new concrete foundation, new sills, concrete floor except in the stable, concrete approaches to outside doors, harness room, windows in front of each stall, and two coats of paint on the outside.

The wagon shed and ice house were painted, also all boats, baggage trucks, flag-poles and bridges.

Built a small oil house and installed two 60 gallon tanks, one each for oil and gasoline.

A gasoline lighting plant has been installed in the residence.

The approaches to the wagon bridge were temporarily repaired, but they will have to be renewed within 2 or 3 years. Concrete is recommended. The foot bridge across the main creek, which had become dangerously weak, was made safe by stringing 7 inch "I" beam girders underneath.

Rebuilt and enlarged spring basin at head of springs, putting in concrete dam, side walls and bottom, with a 5 inch flushing pipe.

Completed pond No. 9 and graded around same, also drove the sheet piling and started the banks for a new pond, same to be finished when funds are available.

HARRIETTA STATION.

The spring water canal south of highway was deepened and gravelled from its head to the hatchery. A concrete sluiceway or side outlet for flushing same was also put in near the hatchery.

Most of the excavation has been made for extending the present spring water canal to a point near the northwestern part of the grounds, as a feeder for proposed new ponds north of the highway.

As a part of the construction of a large pond immediately north of the highway bridge, a concrete dam was built across the bed of Slagle Creek. Connecting with this dam and extending to the pond above, a dam of earth and sheet piling was put in, to turn the waste from this pond into the valley ponds to the north.

The outlet flume of the large or main pond, of wood construction, gave way and was replaced with concrete.

About 400 feet of concrete gully was laid along the highway hill near the hatchery, to divert flood water that formerly cut the banks and carried sand and mud into nearby ponds.

SOO STATION.

In 1894 this board considered itself fortunate in securing federal authority for the free use of an island in the Soo rapids for fish hatchery purposes. A hatchery was accordingly built thereon and fully equipped, and the development of a pond system was begun a year later. At that time no one dreamed that within a generation we would be driven out by the necessities of lake commerce. However a vast area of agricultural and mineral resources in the northwest was rapidly developing, and soon the wealth of an empire was crowding through the narrow throat at the Soo. The demands of a water commerce that marvels the world were imperative. We were thus forced to give way and either abandon our property or move it.

The latter course was decided on. Obviously the ponds must be abandoned but the buildings and equipment could be moved. The government very generously provided another location with ample dock frontage, at the northeast corner of the "Fort Brady" reservation. For hatching purposes and the delivery of young fish the new location is superior to the old, being easily accessible by both land and water.

In August, 1911, the hatchery was moved to the government wharf to the eastward. A few days later it was transferred on large scows loaned by the government to Fort Brady Pier, and was lowered to its new foundation Sept. 25th. All necessary repairs and changes incident to the new location were made, including connection with the city mains, drainage to the river, rebuilding chimneys, providing sub-basement for boiler and heating plant, repairs and changes in living and storage rooms in second story, changing driveway in front, etc.

In 1912 the hatchery was painted 2 coats outside, and an outside stairway was provided for the second story.

Installed four new aquaria and two new double Clark hatching troughs.

Completed two new p outlets. One pond is 20 and 5½ feet deep in the in the center, thus disp pond more convenient fo

Built new concrete int ponds 2 and 3. Made ne posts, cap and splashboa venience and safety in c

Bought new gasoline e mud and silt from ponds ling lawns. This equipm outfit noted in connectio

Other repairs and impi as follows: One new fla seines, new pump and damaged by muskrats, ch in the natural bottom o screens, painted and rep. larged the office room in

As stated in our last 1 repair by the U. S. Bur of its lease from this boe permanent equipment wa pancy the floors have b the tank and jar equipm cept the north jar batte The option on the Burear

Built concrete founda recently transferred from the necessary piping for est pond; also provided power. This little powe economical quite beyond

The proposed new pon in our last report, has l acres and a maximum d dam across a narrow ope or basin, supported by : low. The basin was fi drainage was provided l creek channel, but practi itself. In proportion to

DRAYTON PLAINS STATION.

Completed two new ponds, including water connections, intakes and outlets. One pond is 20 by 96 feet, 2 feet deep; the other is 45 by 165 and $5\frac{1}{2}$ feet deep in the kettle. Deepened pond No. 7, forming an island in the center, thus disposing of the dirt economically and making the pond more convenient for seining.

Built new concrete intake flumes for ponds 1 and 10, also connecting ponds 2 and 3. Made necessary repairs to the main dam, including new posts, cap and splashboards, with 20 inch walk and guard rail for convenience and safety in cleaning the racks.

Bought new gasoline engine, pump and hose connections, for pumping mud and silt from ponds, also for use in construction work and sprinkling lawns. This equipment is mainly for the same purpose as a similar outfit noted in connection with improvements at the Mill Creek station.

Other repairs and improvements were made and new equipment added as follows: One new flat-bottom boat, one new fyke net, two new fry seines, new pump and sink in main building, repaired pond banks damaged by muskrats, cleaned muck from ponds, graded and filled holes in the natural bottom of pond No. 2, provided a number of new wire screens, painted and repaired boats, cans and small equipment and enlarged the office room in main building.

DETROIT STATION.

As stated in our last report, this hatchery has been kept in excellent repair by the U. S. Bureau of Fisheries, in accordance with the terms of its lease from this board. During the past summer the building and permanent equipment was painted two coats. Since the Bureau's occupancy the floors have been replaced with concrete; practically all of the tank and jar equipment has likewise been renewed throughout, except the north jar battery, which is to be rebuilt the coming season. The option on the Bureau's lease expires in 1915.

PARIS STATION.

Built concrete foundation, in food house, for gas engine and pump recently transferred from the Soo hatchery, and laid and connected up the necessary piping for supplying the main water tank from the nearest pond; also provided equipment for running the food grinder by power. This little power plant, about 5-horse, has proved efficient and economical quite beyond expectations.

The proposed new pond in the gorge of Buckhorn Creek, referred to in our last report, has been completed. It has an area of about two acres and a maximum depth of 16 feet, created by running a concrete dam across a narrow opening in the converging banks of a natural gorge or basin, supported by a heavy railroad embankment immediately below. The basin was first cleared of timber and undergrowth, and drainage was provided by a few small ditches leading to the natural creek channel, but practically no excavation was required for the pond itself. In proportion to area and volume this pond is by far the least

expensive ever developed at this station, but it has not been in service long enough to demonstrate its relative value as compared with small ponds of strictly artificial construction.

Quite extensive repairs, mostly of an emergency nature, were made to the main hatchery. The old wood floor, joists and sills were decayed beyond further patching up. New sills and a floor were put in, all of concrete, with gutters of same material underneath. All decayed parts where the strutting, siding and rainscooting joins the sills were replaced with sound material. A concrete gutter was laid around the hatchery, also a retaining wall along the bank on the west side. The receiving or screen tanks on the main floor were rotted beyond repair. Two new ones were made, of concrete, each 12 feet long by 3 wide and 3 deep; bottom 8 inches thick and side walls 4 inches. Replaced ten worn-out hatching troughs with new ones and repaired a number of others, also re-wired 85 fish trays and repaired the others. Re-shingled the roof with galvanized metal shingles. Painted inside of hatchery, 3 coats on ceiling and 2 on side walls, tanks, troughs and ceiling and side walls of office. Enlarged office and put in an outside entrance at north end, with storm door and concrete platform and steps, also re-floored the office with maple and built a new chimney. Installed a new gasoline lighting plant for hatchery and office. A concrete platform was placed along the east side of the hatchery, where cans of fish and empies are transferred to and from the wagons. Removed the old fireplace, which has not been used in years, and substituted 4 lockers for clothing, tools and small equipment. Built 6 by 20 coal bin on east side of hatchery.

Improvements to the overseer's residence include painting of rooms on first floor; an 8 by 10 bathroom and equipment, with cesspool drainage and connection with the water tank across the highway; new foundation for porch on south side; gasoline lighting plant; new floor in living room, and a concrete sidewalk from the south porch to the highway, including terrace steps.

Built new ice house near the car house, 12 by 16 and 10 feet high on concrete foundation; also built a 9 by 24 coal house nearby and close to a sidetrack, for convenient filling direct from car. Concrete foundation and floors. Put a concrete foundation under the car house, made necessary repairs to the latter and built a concrete loading platform along the east side, 4 feet wide by 20 in length. Painted ice houses 2 coats and car house 3 coats.

The old approach to the car house in its present location led across side tracks that often were blocked by trains at loading time. A driveway avoiding the side tracks was necessary to insure getting our car loaded and away on its schedule. A new road to the car house was therefore opened up through a grove east of the railroad right-of-way. Considerable labor and team work was required in the way of gravelling and drainage, but mainly this was taken care of at odd times.

The distributing car "Fontinalis" is out of commission and dismantled. Its serviceable equipment is stored at Paris, the body has been moved over into the grove and the trucks are off the track near the car house. A baggage car was rented and used in its place the past season. The old storage shed near the ponds west of the highway was moved

a few feet and placed on a foundation and floor of concrete, close to and facing the driveway, for convenience in loading and unloading tools and materials. The roof was raised 6 feet, adding sufficient room for a second story paint and work shop. Re-shingled the roof and painted the building two coats.

Built 5 by 10 oil house south of the waste canal, for safe and convenient storage and use of oil, gasoline, coal tar, etc. Concrete foundation and concrete platform for tanks and barrels. Also moved a small out-building from the barnyard to the terrace west of highway and converted it into a hose house, with concrete foundation and floor.

The foundation of the water tank having rotted and settled unevenly, same was raised and levelled, and concrete foot piers provided for the uprights. The housing underneath the tank was celled inside.

Re-shingled the old hatchery with galvanized metal shingles. Enlarged the doorway and connection between this building and the food house, also the doorway between hatching room and work shop.

Minor repairs and improvements include painting and repairs to roof of 3 of the smaller buildings, repairs to employes' residence on Buckhorn Creek, re-shingling wing of barn, laying 100 feet of 6 inch tile drain from small field south of hatchery, painting 600 cans two coats, repairs to and painting all pond shades, cutting 500 cedar posts from hatchery lands, and repairs to screens, nets, wagons, tools and small equipment.

OUTPUT.

During the period covered by this report there was a substantial and satisfactory increase in the output of brook trout, rainbow trout, large mouth bass, small mouth bass and perch, but no walleyed pike were hatched the past season. For a number of years the Bureau of Fisheries has turned over a supply of pike eggs for hatching and distribution to inland waters of this state, but weather conditions were so unfavorable during the spawning season last spring that the work of collecting the eggs was practically a failure.

Our present hatching and tank equipment will enable us to still further increase production in the form of fry, more especially of perch or any species whose eggs may be developed in jars, but a marked increase in the output of young fish of a more advanced stage and of fingerling sizes is impossible without a corresponding increase in pond and rearing facilities.

RECOMMENDATIONS.

The main items in the way of improvements and increased facilities recommended for the next two years are set forth in the following letter which is submitted in full as a part of our report:

November 4th, 1912.

My His Excellency, The Governor, Executive Office, Lansing, Mich.:

Dear Sir:—We are pleased to reply herewith to your recent inquiry as to the needs of this board, also to enclose estimates for the biennial period beginning June 30th, 1913.

Since 1898, when the propagation of commercial fish for the state's border waters was turned over to the United States Bureau of Fisheries, the work of this board has been confined to fishery interests of lakes and streams lying wholly within the state. As Michigan leads every other state in the number and combined area of its inland waters, the importance as well as magnitude of the work assigned to this board can hardly be overestimated.

A map of the state shows that seventy-seven of its eighty-three counties are dotted with lakes or threaded with streams, or both. As this multitude of water courses and basins cannot be displaced to any extent in the sense that forests give way to agriculture, the state's title to these waters, or control thereof, is perhaps the most valuable and permanent public asset that remains from a vast array of vanished and vanishing natural resources. The state therefore is or should be deeply concerned in so conserving and utilizing its public waters as to insure and maintain the fullest measure of their present and potential value.

The use of this important feature of the public domain for power purposes and to meet the necessities of growing urban centers need not be detrimental to fishing interests. Indeed, if properly safeguarded as to purity, the creation of reserve or artificial storage areas tends rather to enlarge than to diminish fishery resources and fish-cultural opportunities.

Although specially interested in water life and in the multiplication thereof as a factor of great economic importance, this board realizes that water areas have other public interests to serve. We do not claim that fishery rights take precedence over all other water values, but we do insist that it should be a fixed policy of the state to surrender no part of its jurisdiction over present water holdings, to resist to the utmost all efforts to weaken its control thereof, to go to the limit of its constitutional powers in the prevention of imprivities, and to render substantial aid in the protection and propagation of the more valuable forms of water life.

Fish culture as applied to the production of the young in suitable devices, or in protected or controlled ponds, has ceased to be an experiment. Under a given set of conditions hatching percentages may be forecast with a reasonable degree of certainty. Of course a high or fixed standard in this respect cannot prevent wide seasonal variations in the hatchery output of commercial fish, as this depends on the number of breeders netted from spawning grounds; but the situation is quite different and the element of uncertainty to a great extent is removed when adult stocks are held in controlled ponds solely for breeding purposes. Production is then fixed by and proportionate to the volume and character of the water supply, in connection with the area of protected ponds properly constructed as to size, depth, inflow and drainage, and this in turn resolves itself largely into a matter of dollars and cents.

For many years this board has realized that its producing facilities are strikingly disproportionate to the requirements, in fact are but little more than a "drop in the bucket." We have been and still are working on altogether too small a scale. Fish culture multiplies hatching re-

sults in a wonderful way, but it has its limitations, and however efficiently and economically managed, the few acres of ponds under our control are utterly inadequate to cope with the situation.

The demand for young fish is so far beyond our ability to supply them that we are forced to limit production to the kinds of fish best adapted to our present facilities, almost to the exclusion of other species of equal value and importance.

Our scientific work is neglected for want of funds, likewise educational work for the benefit of those who are favorably situated for the development and profitable cultivation of small water farms.

A larger percentage of our output should be advanced beyond the early hatching stage before shipping, but this rapidly doubles and re-doubles the cost.

After twenty-five years of hard service our distributing car is worn out beyond repair, condemned and permanently out of commission. Within the past year the Wisconsin Fish Commission put into service a new car that cost \$13,500. We are asking for only \$6,000 for this item, believing that this sum is sufficient to provide a plain but staunch and serviceable car for all practical uses.

The hatchery building at Mill Creek is in bad repair and wholly inadequate for present needs. It is a small and cheap affair, put up years ago as a makeshift when the bass work was started on an experimental basis.

We are in urgent need of a new hatchery and rearing station in and for the upper peninsula, mainly for the production of lake fish that cannot be propagated at the Soo hatchery. Having no pond-culture plant above the straits, we find it practically impossible to deliver a fair proportion of our output to the many fine lakes of that section. The distance is too great for safe and economical transportation, more particularly of fingerling sizes. Hundreds of applications for bass and other varieties suitable for these waters have accumulated in our files, and the demand is continually increasing and growing more insistent.

Our estimates for improvements and developments at hatcheries already established contemplate an expansion of producing facilities all along the line. We also plan to largely increase the output of perch and to make a good start in turning out bluegills and other native varieties. The propagation of calico bass, white bass and catfish should also be taken up. Though native to Michigan and well adapted to most of our lakes and larger streams, these three kinds are found in but comparatively few public waters. Their range should be greatly extended. All of the natives referred to are excellent food fish, and with the exception perhaps of catfish all are universally popular with the great majority of anglers. The natural stock continues to decrease as population increases, particularly in waters within convenient distance of cities, villages and summer resorts. The growing fashion or custom among all classes of seeking the shores of lakes and streams for the summer outing, as shown by a continual rise in water frontage values, also tends inevitably to make angling more popular and widespread and to draw more and more on fishery resources. Already the natural supply in many waters is greatly depleted. Even such prolific breeders as

perch may be cleaned out of restricted waters by legitimate methods. Only by occasional contributions from hatcheries may the overdraft on natural or normal production be made up and good fishing established on a permanent basis.

In the character and area of its public waters Michigan far outclasses the state of Kansas, but Kansas now outclasses Michigan, not in fish-cultural skill but in waiting up to a realization of the value and importance of fish culture as a public enterprise. Even more notable and encouraging is its appreciation of the proper balance or proportion between fish-cultural necessities and fish-cultural facilities. With water resources far inferior to those of Michigan, Kansas has recently completed a large pond-culture plant that represents an outlay of \$150,000, a sum 50% greater than the entire inventory value of Michigan's investment in fish-culture plants and equipment, 102% in excess of our total appropriation for the current biennial term and 27% more than the total of our estimates for the next two years. In comparison with Kansas, Wisconsin, New York, Pennsylvania, Massachusetts and perhaps other states, our troubles are fiscal rather than fish-cultural.

Making every effort to maintain and increase hatchery production, we have been unable for many years to increase salaries of experienced and deserving employees, which in view of the times is equivalent to a marked shrinkage in their compensation. Faithful and efficient service for the state is fairly entitled to the same recognition that obtains in private business. We hope that our next appropriation, or a revenue from license fees that in justice to all should be exacted from non-resident anglers, will put us in a position to show appreciation of merited service in behalf of state interests.

As the value of our work and the conservation of water resources depend in no small degree on a careful observance of protective laws, we would recommend a careful consideration of the needs of the warden service. This department should be liberally treated by the state and earnestly supported by every true conservationist. The protection of undersized fish and of the breeders while guarding their young, and the prevention of water pollution and of wholesale destruction by the use of nets and explosives in restricted waters, are of special and vital import to the maintenance of water life.

Very respectfully,

State Board of Fish Commissioners,
By SEYMOUR BOWER, Supt.

ESTIMATES.

A careful consideration of the estimates for the current and special work of the next two years is invited. With few exceptions appropriation bills from state boards and institutions go before the legislature under suspicion of being loaded. Requests from these sources are generally supposed to be stuffed and padded to allow for shrinkage and pruning and piling down on their way through the various committees. Our estimates are not on this basis nor in this class. We need every

dollar asked for and could use much more to excellent advantage. The members of this board serve without financial recompense and are opposed to grinding personal and political axes at state expense. We believe that our duty with respect to appropriations ends when we have presented our needs fairly and on a business basis. We have no fault to find, realizing that the committees and chief executive are held responsible for adjusting the state's outgo to its income; nevertheless, however careful and conscientious members may be, in the stress and rush of a legislative grind it is not to be expected that they can grasp and understand institutional needs as do the officials in charge.

LABOR.

The labor situation is growing to be more and more of a problem and we shall soon be forced to adopt a higher scale of wages. The general run of fish commission service is of necessity disagreeable and onerous, particularly during the rush of the season. At times the work is quite out of the ordinary, of an emergency nature that knows no fixed hours. Whether in the house or on the road young fish cannot be neglected at any stage. Men must be hired with a definite understanding that they are subject to duty at any time and for long periods of continuous service. Under present conditions capable and trustworthy men are not attracted to seasonal jobs of this kind that offer little opportunity for promotion to a permanent place with a living income. The natural result is that we are obliged to depend more and more on inexperienced and chance help when experienced help is needed the worst. During the past season we paid as high as \$2.50 per day for inexperienced labor and the supply was short at that, more particularly at the hatcheries near Grand Rapids and Detroit. With the exception of the superintendent we now have only 3 regular hatchery employes that have been with us more than 4 years.

DOG FISH.

Though widely distributed throughout the United States and quite abundant in this state, the dogfish is everywhere treated as an outcast and hence is seldom used for food. It is more than probable that a deep-seated prejudice rather than intrinsic unfitness is responsible for the fact that this species has no rank or standing as a food fish. Many investigators claim that all fishes and amphibians are not only wholesome but palatable if properly prepared. In this country, and not more than a generation ago, such fish as sheephead, suckers, and lawyers about were considered nearly worthless and often were unsalable at any price; today they are a standard food fish and bring fair prices. Fifty years ago the highly esteemed sturgeon of today was on a par with dogfish, useful only as a fertilizer. Not much longer ago frogs and mudpuppies were not considered edible; they rate now as a delicacy and command fancy prices. The lowly and long-despised dogfish may never be classed as a luxury, but there is no good reason to doubt that within a few years it will be treated on its merits and take its proper place among food fish.

We would not convey the meaning that dogfish are likely to rise above the rank and file of the lower grades nor that they and their kind should be encouraged or favored. Obviously the food value of all waters would be greatly increased if the more destructive species of this type could be rooted out and replaced with higher grades. The point we would make is that practically all fish commonly regarded as coarse or worthless are nutritious and fit for the table, but that shunning them as an article of food tends to conserve and protect rather than to drive out or displace. If used at their true edible value they at least would enjoy no special advantage over other food fish and to some extent would soon give way to the better grades that are or should be propagated and protected.

We publish elsewhere in this report a sound and practical paper on this subject, applying also to other discredited forms of water life, by the Hon. George W. Miles, Commissioner of Fisheries and Game for the State of Indiana. This paper was received with more than ordinary consideration and favorable comment at the last annual meeting of the American Fisheries Society.

RAINBOW TROUT.

With the exception perhaps of German carp no fish not native to Michigan have thrived and spread as have rainbow trout since they were first brought here from the far west about thirty years ago. Attaining a weight of 10 to 20 pounds and upwards, they have gradually worked up to a commanding position in some streams and parts of others. The natural habitat of these mammoth trout is mainly the lower and warmer waters that do not attract brook trout, but in early spring they head upstream and soon appear in droves on spawning shoals near or toward the warmer waters.

As rainbow trout spawn in the spring and brook trout in the fall, their mating seasons do not conflict and there is no strife for the possession of breeding grounds. Recent investigations also show that the breeders take little or no food of any kind during the spring run, except perhaps while drifting back to their usual feeding range. True to salmon nature and instinct, their breeding period is mainly a season of fasting. Nevertheless the increasing number of big rainbows that continue to show up on spawning grounds is causing much alarm in some quarters. It is claimed that they prey on brook trout and take possession of their grounds, driving the latter upstream; and there is a growing sentiment in favor of checking this rainbow invasion by attacking and fighting them in spring run with spears and nets. Doubtless the destruction alleged during the mating season is greatly exaggerated. On the other hand, the smaller sizes and the young that mingle freely with brook trout the year round compete for the general food supply and thus make some inroads. Viewing the situation as a whole and without bias or prejudice, it is impossible to determine to what extent rainbows forcibly displace brook trout. The natural home of brook trout is in waters that are cool and their range is controlled by temperature. They retreat without complaint in the face of uncongential temperatures, retiring voluntarily from

ranges not sufficiently cooled by springs or the combined influence of springs and thickets and aquatic growth. As forests and swamps and lowlands give way to agriculture, so do brook trout give way and surrender territory to species less particular as to temperature. It is a common saying that brook trout drove out grayling and in turn are being driven out by rainbows. No doubt brook trout are responsible in some degree as charged, but the fact is that the only stream in Michigan where grayling are now found in considerable numbers is also the home of brook trout and has been for an indefinite period. Native trout also inhabit some of the grayling waters of Montana without gaining undue ascendancy.

Fortunately for the many who regard brook trout as the peer of all food and game fish, Michigan is rich in spring areas that insure their perpetuation and a good catch in the middle and upper waters of hundreds of streams where they are now established. Considering their nature however we cannot hope in the face of changed and changing conditions to maintain them indefinitely in all of their old haunts, whether driven back by a more powerful rival or not. Destined as they are to fall back to some extent anyway, what species is so well equipped to take their place as the rainbow, a true salmon in food excellence and unexcelled gameness?

If rainbows are overreaching or advancing unduly they should be checked, but an open season for spearing or netting in trout streams, however well intended, seems to be a poor way of protecting brook trout. Many believe that a much safer and a more effective plan of holding the rainbows within proper bounds is to extend the open season for hook and line fishing to October 15th or perhaps November 1st, for rainbow waters only. They spawn in the spring and hence are not at their best until August and during the fall. On the other hand brook trout spawn in the fall and grow more and more indifferent to lure of every kind as the breeding season advances. It is believed by many who have studied the situation from various angles that this plan would reduce the rainbow surplus and at the same time work less harm to brook trout than would result from the use of spears and nets in the spring; in short that it is the most rational and effective way yet proposed of establishing and maintaining a proper balance between these species.

PERCH.

The perch ranks among the best of freshwater food fish and is a universal favorite. Indeed, if table excellence and all-round merit were issues that could be put to the test of a popular vote, we believe that perch would win decisively. As a game fish it would hardly receive the support of expert anglers who have struggled and fought with salmon and muscalonge, nor as a food delicacy would it be given preference by those who have cultivated a taste for caviare—raw fish roe preserved or pickled in salt. Nevertheless everyone likes "fried perch" and no one tires of them. Their flesh is firm and sweet but not rich with oil nor strong with a "fishy" flavor that soon cloy.

Perch are popular for other reasons. They "bite" freely the year round,

through the ice or in open waters, and inexpensive tackle and lure are usually as effective as the most costly outfit. The small boy and the novice may and generally do go home with as big a string of perch as the veteran or expert. They are pre-eminently the fish of the masses.

Perhaps the most important point in favor of perch is the fact that no other fish worthy of its class are so universally adapted to the waters of this state. With the exception of the colder trout waters, they thrive everywhere and are or may be established in every lake and pond and larger river throughout the state.

Thus their wide distribution makes them accessible to thousands who cannot afford to travel very far for a day's fishing; and the high price of market fish and foodstuffs generally impels this class to draw more and more on the available supply of free food within convenient and profitable reach. Within 25 years the number of those who fish mainly for pleasure has increased wonderfully, far out of proportion to the increase in population. There is no doubt about it. The heavy summer outpouring from cities and towns does not, as formerly, center almost wholly at a few large and fashionable resorts. The campers and cottagers, the boarders and resorters are more and more turning to the shores of lakes and streams everywhere—and they all fish. In effect motoring is bringing many of the best fishing waters to the very door of increasing thousands. A comparison of the angling equipment of a generation or two ago with that of today also tells the story. At that time the fishing outfit on sale in country stores and in some cities consisted of a few boxes of hooks, a small assortment of lines and sinkers and a bundle of cane poles. Today we see everywhere, in hardware stores, drug stores, general stores, department stores and showcase displays of angling goods in great variety, grate window and showcase forms of barbed monstrosities that do not give including many ingenious forms of the inevitable result of all this is a heavy a fish even a fighting chance. The inevitable result of all this is a heavy overdraft on the better class of fish. Natural production is unequal to the increasing demands upon it. Either fewer fish must be taken out or more young fish put in. Is it any wonder that even the hardy perch is giving way and growing more scarce, particularly near the cities and throughout the populous sections of the lower peninsula?

Quite recently a strong and growing demand for young perch has sprung up and is certain to increase as the natural supply continues to run down. We plan to hatch them in larger numbers, to the extent that our means and facilities will permit. Necessarily this work has been carried on in a limited way, but with excellent results, both in the hatching of eggs taken at commercial fisheries and from a small breeding stock held in the Mill Creek ponds. The advancement of the young to angling sizes was equally successful at Mill Creek, though but little room could be spared for this purpose without cutting down the production of bass. Until more pond room is provided the young perch must continue to be shipped within a few days after hatching.

In view of the number and vast acreage of waters throughout the state that are well suited to the production of perch, it is certain that the annual harvest may be increased to enormous proportions, on a basis of

food value alone. We believe that the state could make no more profitable outlay in the way of developing and utilizing its natural resources than to install and operate a large hatching plant specially equipped for perch alone. No public investment would yield such lavish returns, no benefits from the use of state funds would be more widely and impartially distributed to its inhabitants.

Respectfully submitted,

DELBERT E. POWER,

FRED POSTAL,

WALTER J. HUNSAKER,

Commissioners.

SEYMOUR BOWER,

Superintendent.

FISH PLANTS

EAST HALF OF 1910 AND YEARS 1911 AND 1912, FINANCIAL
STATEMENT, INVENTORY, ETC.

Deliveries of fish during last half of calendar year 1910. (Not included in our 19th biennial report.)

SMALL MOUTH BLACK BASS.
FINGERLINGS NOS. 1, 2, 3 AND 4.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Allegan county: Big Lake.....	Watson.....	E. J. Anderson, Plainwell.....	1910. July 2	1,500
Baraga county: Norway Lake..... Beaufort Lake.....	Covington..... Spurr.....	Sidnaw H. and F. Club, Sidnaw..... P. Trudell, Jr., Negaunee.....	July 16 July 16	500 1,000
Benzie county: Crystal Lake.....	Crystal Lake.....	J. J. Kirby, Toledo.....	July 23	1,000
Berrien county: Galien River.....	New Buffalo.....	Wm. Sherwood, New Buffalo.....	Oct. 22	200
Branch county: North and South Lakes..... Coldwater Lake.....	Coldwater..... Coldwater.....	F. T. Tappan, Coldwater..... F. T. Tappan, Coldwater.....	July 30 July 30	1,500 1,000
Calhoun county: Duck Lake.....	Clarence.....	L. E. Landon, Springport.....	July 30	750
Charlevoix county: Walloon Lake..... Deer Lake.....	Melrose..... Wilson.....	J. W. Hunter Grand Rapids..... Wm. J. Pearson, Boyne Falls.....	July 2 July 2	2,000 2,000
Cheboygan county: Burt Lake..... Long Lake.....	Tuscarora..... Grant, etc.....	J. W. Lester, Indian River..... Fred S. Bngess, Detroit.....	July 23 July 28	1,000 1,000
Chippewa county: Duck Lake.....	Sugar Island.....	Chase S. Osborn, Sault Ste. Marie.....	Aug. 2	3,000
Clare county: Fishers Lake..... Rounae Lake.....	Holton..... Holton.....	C. A. Kileman, Chicago, Ill..... C. A. Kileman, Chicago, Ill.....	July 30 July 30	750 750
Crawford county: Shoepack Lake..... Portage Lake..... Twin Lake.....	Maple Forest..... Crawford.....	T. E. Douglas, Lovells..... Hon. Chas. Blair, Lansing..... F. B. Dickerson, Detroit.....	Aug. 5 July 28 July 28	1,000 1,000 1,000
Delta county: Long Lake.....	Baldwin.....	T. Killian, Escanaba.....	July 15	750

TWENTIETH REPORT—STATE FISHERIES.

Eaton county: Narrow or Grand Lake..... Bennett Park Pond.....	Brookfield..... Charlotte City.....	Garry C. Fox, Charlotte..... R. S. Spencer, Charlotte.....	July 25 July 25	1,000 500
Gogebic county: Lake Gogebic.....	Matchwood and Marenisco.....	G. A. Bergland, Milwaukee.....	July 16	1,000
Houghton county: Booth Lake..... Crystal Lake..... Eisner Lake..... Pequet Lake..... Lake Roland..... Eleven Mile Lake..... Lake Gerald..... Otter Lake..... Thirteen Mile Lake..... Rice Lake..... Lake Eva.....	Duncan..... Duncan..... Duncan..... Duncan..... Elm River..... Adams..... Elm River..... Portage..... Adams..... Schoolcraft..... Adams.....	Sidnaw H. and F. Club, Sidnaw..... Sidnaw H. and F. Club, Sidnaw..... Sidnaw H. and F. Club, Sidnaw..... Sidnaw H. and F. Club, Sidnaw..... A. L. Heibel, Houghton..... J. W. Haas, Houghton..... J. T. McCall, Houghton..... J. Abner Sherman, Houghton..... H. L. Swift, Houghton..... Jos. Wise, Hubbell, Houghton..... Geo. Darstons, Painesdale.....	July 16 July 16 July 16 July 16 July 16 July 16 July 16 July 16 July 16 July 16 July 16	500 500 500 500 750 500 1,000 750 500 1,000 500
Ionia county: Looking Glass River..... Commonwealth Pond..... Municipal Pond.....	Portland..... Portland..... Portland.....	W. E. Purter, Portland..... F. E. Fines, Portland..... Lee Havens, Portland.....	July 2 July 2 July 2	1,500 1,500 1,500
Iron county: Norway Lake.....	Bates.....	Sidnaw H. and F. Club, Sidnaw.....	July 16	500
Jackson county: Farwell Lake.....	Hanover.....	Irving E. Tenney, Hanover.....	July 30	750
Kent county: Grand Lake.....	Plainfield.....	D. Lydell, Comstock Park.....	Aug. 6	500
Keweenaw county: Lake Medora..... Gratiot Lake..... Mosquito Lake.....	Grant and Eagle Harbor..... Eagle Harbor..... Grant.....	Arno Jaehrig, Franklin..... Wm. Long, Eagle River..... H. S. Winter, Mohawk.....	July 16 July 16 July 16	750 1,200 750
Lake county: Sable Lake..... Loug Lake..... North Lake..... Quicks Lake..... Utter Lake..... Lincoln Lake.....	Elk..... Elk..... Elk..... Elk..... Elk..... Elk.....	Wm. Utter, Peacock..... Wm. Utter, Peacock..... Wm. Utter, Peacock..... Wm. Utter, Peacock..... Wm. Utter, Peacock..... Geo. M. Brown, Detroit.....	July 22 July 22 July 22 July 22 July 22 July 30	1,000 500 500 500 500 750
Leelanau county: Leg Lake..... Leg Lake.....	Leelanau..... Leelanau.....	G. M. Dame, Northport..... G. M. Dame, Northport.....	July 2 July 23	1,500 1,000

TWENTIETH REPORT—STATE FISHERIES.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Lenawee county: Sand Lake.....	Franklin.....	Elmer Putman, Putman.....	1910. Aug. 3	1,000
Livingston county: Zukey Lake..... Bishop Lake.....	Hamburg..... Hamburg.....	E. E. Gwimmer, Ann Arbor..... Gilbert Thrasher, Brighton.....	Aug. 16 Oct. 18	450 200
Marquette county: Section 15 Lake..... Teal Lake..... Silver Lake.....	Marquette..... City of Negaunee..... Champion.....	Frank G. Jenks, Marquette..... Negaunee R. and G. Club, Negaunee..... Geo. Voelker, Ishpeming.....	July 15 July 15 July 15	750 750 1,000
Mecosta county: Muskegon River.....	Green.....	Thos. Bloxson, Paris.....	July 15	1,500
Moutcaim county: Clifford Lake.....	Douglas.....	John W. Campbell, Stanton.....	July 1	1,500
Muskegon county: Big Blue Lake.....	Big Blue.....	Hoo. F. J. Russell, Hart.....	July 23	1,500
Oakland county: Leon Lake..... Pond Lake..... Deer Lake..... Cass Lake..... Pond Lake..... Leon Lake.....	Waterford..... Waterford..... Independence..... West Bloomfield..... Waterford..... Waterford.....	Michigan Fish Commission, Detroit..... H. W. Baer, Pontiac..... Oliver N. Gardner, Detroit..... Henry J. C. Wagner, Detroit..... N. H. Baer, Pontiac..... Mich. Fish Com., Drayton Plains.....	July 7 July 7 Aug. 11 Aug. 11 July 6 July 7	500 1,500 1,200 1,200 1,500 500
Oceana county: Crystal Lake..... Pentwater Lake.....	Hart, etc..... Pentwater.....	Win. R. Roach, Hart..... M. D. Girard, Pentwater.....	July 23 July 23	1,000 1,750
Osceola county: Hewitt Lake.....	Burdette.....	Hon. J. M. Perry, Tustin.....	July 2	1,000
Otsego county: Otsego Lake.....	Bagley.....	Hon. E. B. Boltou, Gaylord.....	July 28	1,000
Ottawa county: Cranberry Lake.....	Wright.....	E. A. Alley, M. D., Conklin.....	Aug. 12	750
St. Joseph county: St. Joseph River.....	Constantine.....	Wallace N. Harvey, Constantine.....	July 30	750

TWENTIETH REPORT—STATE FISHERIES.

Schoolcraft county: Indian Lake.....	Thompson and Hiawatha.....	Benj. Gero, Manistique.....	July 15	1,000
Van Buren county: Lake Cora..... Lake George.....	Paw Paw..... Lawrence.....	Otto Ihling, Kalamazoo..... Carlton Vanderveer, Lawrence.....	Aug. 17 Aug. 17	600 450
Washtenaw county: Strawberry Lake..... Tabaus Lake..... Whitmore Lake..... Horseshoe Lake..... Independence Lake..... Justin Lake.....	Green Oak, etc..... Northfield..... Northfield..... Northfield..... Webster..... Lyndon.....	E. E. Gwimmer, Ann Arbor..... E. E. Gwimmer, Ann Arbor..... E. E. Gwimmer, Ann Arbor..... E. E. Gwimmer, Ann Arbor..... E. E. Gwimmer, Ann Arbor..... F. G. Marshall, Stockbridge.....	Aug. 16 Aug. 16 Aug. 16 Aug. 16 Aug. 16 Aug. 2	450 300 450 450 300 200
Wexford county: Pleasant Lake.....	Selma.....	E. E. Buveya, Bunyea.....	July 23	750
Total.....				72,450

TWENTIETH REPORT—STATE FISHERIES.

LARGE MOUTH BLACK BASS, LAST HALF OF 1910.
ADVANCED FRY.

County and name of water.	Township.	Applicant or Depositor.	Date.	Number.
			1910.	
Allegan county:			July 2	6,000
Plainwell Millpond	Gun Plains	Wm. Crippe, Plainwell.	July 2	6,000
Big Lake	Watson	E. J. Anderson, Plainwell.	July 2	6,000
Barry county:			July 2	4,000
Silver Lake	Prairieville	R. L. Soude, Plainwell.	July 2	4,000
Charlevoix county:			July 2	12,000
Walloon Lake	Melrose and Evangeline	J. W. Hunter, Grand Rapids.	July 2	12,000
Emmet county:			July 2	10,000
Round Lake	Bear Creek	Henry Lindig, Petoskey.	July 2	10,000
Crooked Lake	Littlefield	David Hastings, Conway.	July 2	10,000
Carp Lake	Carp Lake and Hebron	O. C. Cope, Carp Lake	July 2	12,000
Grand Traverse county:			July 2	6,000
Brewster Lake	Mayfield	A. B. Stinson, Kingsley	July 2	8,000
Hogsback Lake	Paradise	Kingsley Sportsmen's Club, Kingsley	July 2	12,000
Rennie Lake	Union	Kingsley Sportsmen's Club, Kingsley	July 2	10,000
Fife Lake	Fife Lake	F. Bechstein, Fife Lake	July 2	6,000
Fuller Lake	Fife Lake	Dr. D. E. Hills, Fife Lake	July 2	6,000
Ionia county:			July 2	6,000
Walters Pond	Boston	J. Wallington, Saranac.	July 2	6,000
Huhns Pond	Boston	J. Wallington, Saranac.	July 2	6,000
Morrison Lake	Boston	J. Wallington, Saranac.	July 2	6,000
Peck Lake	Berlin	J. Wallington, Saranac.	July 2	4,000
Looking Glass Pond	Portland	Jos. Patterson, Portland.	July 2	6,000
Lowell Electric Pond	Keene	U. B. Williams, Lowell.	July 2	8,000
Smyrna Dam	Otisco	U. B. Williams, Lowell.	July 2	8,000
Kalamazoo county:			July 2	10,000
Manistee Lake	Cold Springs	R. W. Douglas, Darragh.	July 2	10,000
Kalamazoo county:			July 2	4,000
Lyons Lake	Comstock	E. M. Breese, Kalamazoo.	July 2	4,000
Mud Lake	Ostemo	Fred Marshall, Kalamazoo.	July 2	6,000
West Lake	Portage	John E. Cross, Kalamazoo.	July 2	6,000
Kent county:			July 2	6,000
Lincoln Lake	Spencer	S. W. Bigler, Lincoln Lake	July 2	4,000
Little Horton Lake	Spencer	R. M. Vanderlip, Gowen	July 2	10,000
Pine Lake	Courtland	Cedar Springs R. and G. Club, Cedar Sp.	July 2	8,000
Ware's Lake	Nelson and Pierson	J. Myers, Sand Lake	July 2	8,000
Edison Dam	Vergennes	U. B. Williams, Lowell	July 2	6,000
Nagle Lake	Vergennes	U. B. Williams, Lowell	July 2	8,000
Pratt Lake	Lowell	U. B. Williams, Lowell	July 2	8,000
Pine Island Lake	Plainfield	Wm. Valentine, Grand Rapids.	July 2	6,000
Leelanau county:			July 2	6,000
School Lake	Cleveland	F. Atkinson, Maple City	July 2	6,000
Traverse Lake	Cleveland	F. Atkinson, Maple City	July 2	6,000
Lime Lake	Cleveland	Frank Newman, Maple City	July 2	6,000
Bright's Lake	Kasson	John Nolan, Cedar.	July 2	6,000
Mecosta county:			July 2	10,000
Rogers Power Pond	Big Rapids	M. C. Maxam, Big Rapids	July 2	8,000
Mud Lake	Colfax	E. W. Hudnutt, Big Rapids	July 2	8,000
Missaukee county:			July 2	10,000
Goose Lake	Colwell	M. Mattice, Lake City	July 2	10,000
Lake Missaukee	Reeder and Lake	F. D. McGregor, Lake City	July 2	10,000
Dyre Lake	Colwell	S. H. Reeder, Lake City	July 2	10,000
Montcalm county:			July 2	4,000
Duck Pond	Maple Valley	J. A. Freeman, Coral.	July 2	6,000
Kindelville Lake	Pine	R. K. Bnomer, Lakeview	July 2	6,000
Muscallonge Lake	Maple Valley	Jensen Bros, Trufant	July 2	6,000
Long Lake	Pine	Oscar Hansen, Trufant	July 2	6,000
Long Lake	Pine	J. F. Paulson, Trufant	July 2	6,000
Oscoda county:			July 2	8,000
Reed City Mill Pond	Richmond	H. J. Crocker, Reed City	July 2	6,000
Oscoda County Power Pond	Richmond	J. C. Gilden, Reed City	July 2	10,000
Diamond Lake	Burdette	Hon. J. M. Perry, Tustin	July 2	10,000
Van Buren county:			July 2	10,000
Brandywine Lake	Pine Grove	C. Reese, Pine Grove Mills	July 2	4,000
Moon Lake	Geneva	J. A. Gibson, Lacota.	July 2	6,000
Clear Lake	Pine Grove	Chester Westler, Gobleville	July 2	6,000
Wexford county:			July 2	6,000
Stoneledge Lake	Clam Lake	Fred Rock, Cadillac.	July 2	6,000
Total				374,000

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
1910.				
Alger county:				
Sable Lake	Burt	Chas. F. Hickok, Grand Marais	July 15	2,000
Mud Lake		H. A. St. John, Marquette	July 15	600
Allegan county:				
Kalamazoo Lake	Saugatuck	Chas. E. Bird, Saugatuck	July 11	3,000
Kalamazoo River and Hanson's Bayou	Manlius	B. K. Goff, New Richmond	July 11	3,000
Osterhout Lake	Lee	Samuel Daws, Grand Junction	July 11	3,000
Silver Lake	Saugatuck	A. E. Hurlbut, East Saugatuck	July 11	3,000
Kalamazoo River	Saugatuck	H. W. Perry, Douglas	July 11	3,000
Hutchins Lake	Clyde and Ganges	C. L. Fosdick, Pennville	July 11	3,000
Lower Scott Lake	Lee	S. E. Phillips, Pullman	July 11	3,000
Upper Scott Lake	Lee	S. E. Phillips, Pullman	July 11	3,000
Alpena county:				
Long Lake	Alpena, Kracow and Presque Isle	Robt. E. Ellsworth, Alpena	July 6	6,000
Barry county:				
Mud Lake	Hope	O. Chamberlain, Cloverdale	July 8	3,000
Horseshoe Lake	Hope	Hiram Gibson, Cloverdale	July 8	3,000
Wilkinson Lake	Hope	H. Green & Son, Delton	July 8	2,000
Fair Lake	Hope	D. Collister, Delton	July 8	3,000
Wilson and Lawrence Lakes	Barry	Geo. Lawrence, Delton	July 8	6,000
Wall Lake	Barry	E. A. Burton, Hastings	July 8	3,000
Long Lake	Barry	B. Dickinson, Hastings	July 8	5,000
Head Lake	Barry	H. Dickinson, Hastings	July 8	4,000
Ashby Lake	Barry	John Payne, Hastings	July 8	3,000
Fine Lake	Johnson	J. O. Gailoup, Battle Creek	July 8	4,000
Mill Lake	Johnson	J. O. Gailoup, Battle Creek	July 8	2,000
Loon Lake	Assyria	M. O. Tuckerman, Battle Creek	July 8	4,000
Blue Lake	Orangeville	S. C. Greusel, Kalamazoo	July 8	3,000
Gurnsey Lake	Yankee Springs	S. C. Greusel, Kalamazoo	July 8	5,000
Hotcomb Lake	Prairieville	S. C. Greusel, Kalamazoo	July 8	3,000
Little Long Lake	Prairieville	S. C. Greusel, Kalamazoo	July 8	3,000
Cliskey Lake	Prairieville	W. A. Spaulding, Mio	July 8	3,000
Pine Lake	Hope	D. P. Karns, Shultz	July 8	3,000
Perch Lake	Hope	F. Maynard, Shultz	July 8	2,000
Benzie county:				
Long Lake	T. 27 R. 15 W	H. A. Page, Chicago	July 23	1,000
Upper and Lower Herring Lake	Plain	Ben Lattie, Frankfort	July 23	1,000
Bass Lake	Lake	Wm. A. Carter, Honor	Aug. 5	400

TWENTIETH REPORT—STATE FISHERIES.

Berrien county:				
Taw Paw Lake	Watervliet	E. E. Rowland, Watervliet	July 11	3,000
Harris Lake	Hagar	W. S. Hallman, Coloma	July 11	3,000
Hibbard Lake	Hagar	M. Martin, Coloma	July 11	3,000
Little Indian Lake	Berrien	Otto Radewall, Niles	Aug. 4	300
Calhoun county:				
Deer Lake	Penfield	G. I. Bowers, Battle Creek	July 8	4,000
Deep Lake	Battle Creek	A. W. Cronk, Battle Creek	July 8	2,000
Heart Lake	Penfield	Ernest Lapham, Battle Creek	July 8	2,000
St. Mary's Lake	Clarence	Frank Van Nocker, Battle Creek	July 8	3,000
Clark's Lake of the Gang Lakes	Clarence	L. J. Devering, Albion	July 8	4,000
Duck Lake	Fredonia	L. J. Devering, Albion	July 8	3,000
Long Lake	Fredonia	J. W. Bush, Marshall	July 8	3,000
Fish Lake	Marshall	Wm. Clayborne, Marshall	July 8	2,000
Kalamazoo River	Marshall	Wm. Clayborne, Marshall	July 8	3,000
Lake of the Woods	Eckford	H. C. Faulkner, Marshall	July 8	2,000
Pardoe Lake	Eckford	H. C. Faulkner, Marshall	July 8	2,000
Maynard Lake	Sheridan	C. E. Gauss, Marshall	July 8	2,000
Prairie Lake	Fredonia	G. A. Freed, Marshall	July 8	2,000
Lyon Lake	Tekonsha	E. L. Holmes, Marshall	July 8	2,000
Nottawa Lake	Fredonia	Clyde Jacoby, Marshall	July 8	3,000
Crystal Lake	Marengo	R. F. Moses, Marshall	July 8	2,000
Chapin Lake	Marengo	F. L. McWethy, Marshall	July 8	2,000
Rice Lake	Marshall	F. L. McWethy, Marshall	July 8	2,000
Brace Lake	Marshall	H. N. Taylor, Marshall	July 8	3,000
Pine Lake	Fredonia	A. E. Wright, Marshall	July 8	2,000
Cass county:				
Lillie and Hutcheson Lakes	Newburg	Ed. Lamb, Jones	July 8	3,000
Wood Lake	Porter	R. L. Marsh, Jones	July 8	3,000
Bogert Lake	Newburg	C. E. Trattles, Jones	July 8	3,000
Berrien Lake	Howard and Jefferson	E. C. Griffith, Niles	July 8	2,000
Birch Lake	Porter	W. C. Smith, J. F. Putnam, Constantine	July 8	2,000
Goff Lake	Marcellus	W. L. Arnold, Marcellus	July 9	3,000
Bunker Lake	Marcellus	Floyd Brown, Marcellus	July 9	2,000
Finch Lake	Marcellus	C. S. Cosselman, Marcellus	July 9	3,000
Fish Lake	Marcellus	C. N. Goff, Marcellus	July 9	3,000
Little Fish Lake	Marcellus	Geo. Hayes, Marcellus	July 9	2,000
Miller Lake	Marcellus	C. S. Jones, Marcellus	July 9	2,000
Skyhawk Lake	Marcellus	C. S. Jones, Marcellus	July 9	2,000
Saddlebag Lake	Marcellus	Henry Kranz, Marcellus	July 9	2,000
Hemlock Lake	Marcellus	A. L. Maxam, Marcellus	July 9	2,000
Otter Lake	Marcellus	A. L. Maxam, Marcellus	July 9	3,000
Long Lake	Porter	L. I. Hitchcox, Bristol, Ind.	Aug. 10	750
Baldwin Lake	Porter	L. I. Hitchcox, Bristol, Ind.	Aug. 10	750
Charlevoix county:				
Huffman Lake	Hudson	E. Cartwright, Berryville	July 12	3,000
Cheboygan county:				
Silver Lake	Wilmot	G. E. Danner, Wolverine	July 12	4,000
Twin Lake	Korhler	F. E. Martin, Indian River	July 12	4,000

TWENTIETH REPORT—STATE FISHERIES.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Clare county: Mill Pond	Surrey	Fuller Harris, Farwell.	1910. July 30	600
Clinton county: Alward Lake	Olive	Arthur St. Clair, Alward Lake	Oct. 25	250
Crawford county: Portage Lake	Several	R. Hanson, Grayling	July 12	6,000
Genesec county: Flint River. McCormick, Sand, Begal and Duck Lake.	Richfield and Genesec. Forest	L. Rogers, Rogersville. J. H. McCormick, Otisville.	July 28 July 29	1,250 750
Hillsdale county: Kefus Lake. Mallory Lake. Moon Lake	Pittsford Pittsford Pittsford	E. W. Kefus, Hudson J. Palmer, Hudson F. L. Cole, Hudson	July 20 July 20 July 20	1,000 750 750
Ionia county: Woodward Lake	Ronald	Ira Conkey, Shiloh	July 9	2,000
Iosco county: Long Lake. Bass Lake. Indian Lake	Plainfield Plainfield Plainfield	M. N. Crary, Ellake. C. W. Luce, East Tawas. C. W. Luce, East Tawas.	July 15 July 15 July 15	3,500 4,000 4,000
Iron county: Dollar Lake. Mud Lake. Sunset Lake. Fortune Lake. Armstrong Lake. Holmes Lake. Lake Mary	Crystal Falls. Crystal Falls. Bates. Crystal Falls. Mastodon. Crystal Falls. Crystal Falls.	J. D. Vivian, Crystal Falls. E. J. Oswald, Crystal Falls. J. W. Byers, Iron River. W. J. Richards, Crystal Falls. J. Erickson, Crystal Falls. A. Bjork, Crystal Falls. G. E. Voos, Crystal Falls.	July 15 July 15 July 16 July 16 July 16 July 16 July 16	1,000 1,000 2,000 2,000 1,500 1,500 1,500
Isabella county: Eldred Lake. Hall's Lake. Blanchard Millpond. Dermott Lake. Guy Lake. Coldwater Lake. Perch Lake. Scutt Lake	Broomfield. Broomfield. Rolland. Rolland. Rolland. Nottawa. Sherman. Nottawa.	J. M. Swisher, Remus. J. M. Swisher, Remus. Roger Scott, Blanchard. Roger Scott, Blanchard. Roger Scott, Blanchard. Robt. Hyslop, Weidman. Robt. Hyslop, Weidman. Robt. Hyslop, Weidman.	July 9 July 9 July 9 July 9 July 9 July 9 July 9 July 9	2,000 2,000 2,000 2,000 2,000 3,000 3,000 3,000
Jackson county: Grass Lake. Tamarack Lake. Lagoon in Loomis Park. Moulaque Lake	Grass Lake. Norvell. Jackson. Springport.	C. R. Smith, Grass Lake. C. R. Smith, Grass Lake. Hon. W. W. Todd, Jackson. L. E. Landon, Springport.	July 8 July 8 July 9 July 30	3,000 3,000 2,000 750
Kalamazoo county: Fox Milldam. Black Lake. Rawson Lake	Prairie Ronde. Schoolcraft. Schoolcraft.	S. D. Fox, Schoolcraft. M. N. Grimes, Schoolcraft. Thos. Hewitt, Schoolcraft.	July 9 July 9 July 9	3,000 2,000 3,000
Kent county: Reeds Lake	Grand Rapids	L. J. DeLamarter, Grand Rapids	July 30	1,000
Keweenaw county: Lac LaBelle	Grant	J. W. Senden, Calumet	July 16	2,000
Lake county: Lincoln Lake. Hammond Lake. Wolf or Round Lake. Indian Lake. Little Bass Lake. East Lake. Big Lake	Elk. Pleasant Plains. Webber. Elk. Elk. Elk. Elk.	Geo. M. Brown, Detroit. Wm. Clark, Wingleton. Harley Bartlett, Baldwin. W. P. Jones, Peacock. W. P. Jones, Peacock. Wm. Utter, Peacock. Wm. Utter, Peacock.	July 30 July 30 July 22 July 22 July 22 July 22 July 22	200 200 750 500 500 500 500
Lapeer county: Mirror Lake. Vanderpool Lake. Jeness Lake. Hall and Salmon Lake. Kellogg Lake	Lapeer. Rich. Attica. Lapeer. Lapeer.	Mathias Caley, Lapeer. Ed. D. Cartright, Mayville. F. Harrison, Attica. B. Martin, Metamora. M. F. Kellogg, Huuters Creek.	Aug. 16 July 8 July 8 Aug. 16 Aug. 16	1,000 4,000 1,250 800 800
Leelanau county: South Bar Lake	Empire	Jas. Dailey, Empire	Aug. 5	750
Lenawee county: Ames Millpond. Devil's Lake. Bear Lake. Jewell's Lake. Devil's Lake. Raisin River	Hudson. Woodstock. Hudson. Medina. Woodstock. Deerfield.	E. W. Ames, Hudson. H. E. Haud, Tecumseh. Jas. B. Thorn, Hudson. Jas. B. Thorn, Hudson. H. E. Haud, Tecumseh. F. Greenfield, Deerfield.	July 20 July 20 July 20 July 20 Aug. 3 Oct. 5	750 1,800 750 750 300 800
Livingston county: Walker Lake. Peterson Lake. Bass Lake. Big and Little Portage Lakes. Trains Lake. Fardee Lake	Hamburg. Putnam. Vandalla and Putnam. Dexter. Superior. Genna.	Gilbert Thrasher, Brighton. F. G. Marshall, Stockbridge. F. G. Marshall, Stockbridge. R. H. Killian, Ypsilanti. Jerome N. West, Ypsilanti. R. E. Barron, Howell	Oct. 18 Aug. 2 Aug. 2 Oct. 8 Oct. 8 Oct. 14	160 800 600 500 400 800
Mackinac county: Manistique Lake	Portage	Dent Hurd, Curtis	July 15	2,500

TWENTIETH REPORT—STATE FISHERIES.

TWENTIETH REPORT—STATE FISHERIES.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
1910.				
Marquette county:				
Allen's Lake	Humboldt	H. R. Gamble, Republic	July 15	2,000
Granite Lake	Republic	H. R. Gamble, Republic	July 15	1,500
Perch Lake	Republic	H. R. Gamble, Republic	July 15	1,500
Me Lake	Forsythe	A. C. Seass, Negaunee	July 15	1,500
Cleveland Lake of Lillie Pond	Ishpeming	Hon. W. H. McCorkindale, Ishpeming	July 15	1,000
Bear Lakes	Powell	H. A. St. John, Marquette	July 15	1,000
Lake on Sec. 32 — 49 — 25	Marquette	H. A. St. John, Marquette	July 15	1,000
Abram Lake	Skandia	Chas. Wilson, Yalmar	July 15	150
Bear Lake	Powell	H. A. St. John, Marquette	July 15	600
Independence Lake	Powell	H. A. St. John, Marquette	July 15	450
Hills Dam Lake	Powell	H. A. St. John, Marquette	July 15	450
Maugum Lake	Marquette	H. A. St. John, Marquette	July 15	450
Sec. 32-49-20 Lake	Marquette	H. A. St. John, Marquette	July 15	300
Mecosta county:				
Moore's Lake	Hinton	C. W. Vining, Lakeview	July 1	3,000
Mecker Lake	Wheatland	J. M. Swisher, Remus	July 8	2,000
Pine Lake	Wheatland	J. M. Swisher, Remus	July 8	2,000
Blue Lake	Morton and Martiny	P. J. Theisen, Remus	July 8	2,000
Lake 28	Sheridan	P. J. Theisen, Remus	July 8	2,000
Long Lake	Morton	P. J. Theisen, Remus	July 8	2,000
Lake No. 6	Sheridan	Ray Carman, Mecosta	July 9	2,000
Perch Lake	Martiny	Ray Carman, Mecosta	July 9	2,000
Pretty Lake	Martiny	E. C. Lewis, Mecosta	July 9	2,000
Round Lake	Morton	F. O. Redick, Mecosta	July 9	2,000
Millbrook Millpond	Millbrook	T. O. Patterson, Millbrook	July 9	2,000
Kearney Lake	Millbrook	Roger Scott, Blanchard	July 9	2,000
Muskegon River	Green	Thos. Bloxson, Paris	July 15	1,500
Montcalm county:				
Big Brimmer Lake	Cato	C. W. Vining, Lakeview	July 1	3,000
Little Brimmer Lake	Cato	C. W. Vining, Lakeview	July 1	3,000
Tamarack Lake	Cato	C. W. Vining, Lakeview	July 1	2,000
Bass Lake	Belvidere	David Wortley, Lakeview	July 1	3,000
Town Line Lake	Belvidere and Cato	David Wortley, Lakeview	July 1	3,000
Clifford Lake	Douglas	John W. Campbell, Stanton	July 1	2,000
Mud Lake	Belvidere	M. B. Cornell, Six Lakes	July 1	4,000
Six Lakes	Belvidere	J. W. Gaffield, Six Lakes	July 1	3,000
Horseshoe Lake	Belvidere	Joseph Kummel, Six Lakes	July 1	2,000
Merrifield Lake	Belvidere	N. C. Merrifield, Six Lakes	July 9	2,000
Cedar Lake	Hoine	E. E. Curtis, Edmore	July 9	3,000
Long Lake	Belvidere and Douglas	F. E. Curtis, Edmore	July 9	2,000
Mari Lake	Richland	F. E. Curtis, Edmore	July 9	3,000
Snow's Lake	Bushnell	H. Edwards, Fenwick	July 9	2,000
Hammel Lake	Bushnell	M. F. Perry, Fenwick	July 9	2,000
Pickerei Lake	Bushnell	M. F. Perry, Fenwick	July 9	2,000
Deaneer Lake	Richland	Wm. Carls, Vestaburg	July 9	2,000
Bass Lake	Richland	F. H. McDole, Vestaburg	July 9	3,000
Lady Lake	Richland	A. J. Williams, Riverdale	July 9	2,000
Robbins Lake	Richland	A. J. Williams, Riverdale	July 9	2,000
Montmorency county:				
Round Lake	Hillman	A. J. Wilkinson, Hillman	Sept. 1	400
Sucker Lake	Hillman	Austin Rea, Hillman	Sept. 1	300
Brush Lake	Hillman	D. S. Johnson, Hillman	Sept. 1	400
Long Lake	Montmorency	Wm. Scott, Hillman	Sept. 1	500
Rush Lake	Montmorency	Eugene LaPoint, Hillman	Sept. 1	500
Grass Lake	Montmorency	Wm. Hunt, Hillman	Sept. 1	400
Oakland county:				
Clark Lake	Millford	F. D. Sands, Millford	July 2	3,000
Livermore Lake	Millford	F. D. Sands, Millford	July 2	2,000
Hunnell Lake	White Lake	F. B. Hatch, Millford	July 2	2,000
Long Lake	Highland	F. B. Hatch, Millford	July 2	4,000
Pettibone Lake	Highland	F. B. Hatch, Millford	July 2	4,000
Sears Lake	Millford	F. B. Hatch, Millford	July 2	4,000
Kent Lake	Millford and Lyon	F. B. Hatch, Millford	July 2	2,000
Loon Lake	Commerce	T. H. Padley, Millford	July 2	2,000
Morrison and Proud's Lake	Commerce	T. H. Padley, Millford	July 2	2,000
Austin and Round Lakes	Commerce	R. S. Potts, Millford	July 2	3,000
Porter Lake	Millford and Highland	T. A. Forbes, Millford	July 2	3,000
Huron Lake	Commerce	F. G. Ely, Davisburg	July 2	4,000
Davisburg Millpond	Springfield	Ira E. Kinney, Davisburg	July 2	3,000
Kirkby Lake	Springfield	Ira E. Kinney, Davisburg	July 2	3,000
Long Lake	Springfield	Ira E. Kinney, Davisburg	July 2	4,000
Watkins Lake	Springfield	Ira E. Kinney, Davisburg	July 2	4,000
Cass Lake	Waterford	H. F. Monroe, Pontiac	July 2	8,000
Pleasant Lake	West Bloomfield	H. J. C. Wagner, Detroit	July 9	4,000
Schoolhouse Lake	Waterford	J. S. Ebner, Pontiac	July 15	400
Lake Elizabeth	Waterford	S. Bartlett, Pontiac	July 15	400
Divine Lake	Holly	A. L. Moore, Pontiac	July 15	1,800
Burns Lake	Holly	John Divine, Holly	July 15	750
Orchard Lake	Holly	David Mackay, Holly	July 15	800
Lake Orion	West Bloomfield	F. S. Campbell, Detroit	Aug. 16	1,200
Union Lake	Orion	J. E. Bolles, Detroit	Aug. 16	800
Pond Lake	West Bloomfield	C. M. Van Buskirk, Pontiac	Aug. 16	800
Huron Lake	Waterford	Marvin Hess, Drayton Plains	Aug. 16	800
	Springfield	F. G. Ely, Davisburg	Aug. 11	600
Ogemaw county:				
Big Au Sable Lake	Goodar	C. M. Stewart, Lupton	July 15	1,000
Black Lake	Hill	C. M. Stewart, Lupton	July 15	1,500
Dexoe Lake	Cummings	R. M. Stewart, Lupton	July 15	1,500
Green Lake	Rose	R. M. Stewart, Lupton	July 15	1,000
North Lake	Cummings	R. M. Stewart, Lupton	July 15	1,500
Rifle Lake	Hill	R. M. Stewart, Lupton	July 15	1,500
Round Lake	Hill	R. M. Stewart, Lupton	July 15	1,500
Spring Lake	Hill	R. M. Stewart, Lupton	July 15	1,000
Cunning Lake	Hill	R. M. Stewart, Lupton	July 15	1,000
	Cumtong	H. Bader, Rose City	July 15	1,500

TWENTIETH REPORT—STATE FISHERIES.

TWENTIETH REPORT—STATE FISHERIES.

Large Mouth Black Bass, 1910.—Concluded.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Ontonagon county: Bass Lake.....	Interior.....	Arbutus R. and G. Club, Trout Creek..	1910. July 16	1,500
Ottawa county: Crockery Lake.....	Chester.....	E. O. Atley, M. D., Conklin.....	Aug. 12	300
Presque Isle county: Esau Lake..... Grand Lake.....	Presque Isle..... Crapo and Presque Isle.....	R. Collins, Alpena..... N. A. Eddy, Bay City.....	July 6 July 6	5,000 6,000
Saginaw county: Saginaw River.....	Severel.....	W. S. Linton, Saginaw.....	July 9	4,000
St. Joseph county: Corey Lake..... Clear Lake.....	Fabius..... Fabius.....	W. Pulver, Three Rivers..... W. Pulver, Three Rivers.....	July 8 July 8	3,000 3,000
Tuscola county: Cat Lake..... Harmon Lake..... Phelps Lake..... Dollar Lake..... Grass Lake.....	Dayton..... Dayton..... Dayton..... Dayton..... Dayton.....	M. L. Bird, Mayville..... Hon. E. G. Fox, Mayville..... Hon. E. G. Fox, Mayville..... Geo. Hamilton, Mayville..... Geo. Hamilton, Mayville.....	July 8 July 8 July 8 July 8 July 8	4,000 4,000 4,000 2,000 4,000
Van Buren county: Saddle Lake..... Silver Lake..... Bear Lake..... Bangor Millpond..... Lake 14..... Duck Lake..... Base Line Lake..... Lake 14..... Maple Lake.....	Columbia..... Columbia..... Columbia..... Bangor..... Arlington..... Bangor..... Geneva..... Columbia..... Paw Paw.....	O. C. Egan, Grand Junction..... O. C. Egan, Grand Junction..... E. B. Eddy, Grand Junction..... A. V. McKee, Bangor..... O. G. Moreland, Bangor..... J. Welker, Bangor..... W. E. Grimes, South Haven..... W. E. Grimes, South Haven..... R. D. Loveland, Paw Paw.....	July 11 July 11 July 11 July 11 July 11 July 11 July 11 July 11 Aug. 17	4,000 3,000 4,000 3,000 3,000 3,000 3,000 3,000 1,000
Washtenaw county: Manchester Pond..... Bass Lake..... Blind Lake..... Lone Lake.....	Manchester..... Hamburg..... Lyndon..... Stockbridge.....	Hon. A. J. Waters, Manchester..... E. E. Gwimmer, Ann Arbor..... W. H. Taylor, Stockbridge..... Chas. H. Kitchen, Stockbridge.....	July 20 Aug. 16 Aug. 2 Aug. 2	1,000 450 400 600
Wayne county: Coomer Lake..... Huron River..... Lake Honor.....	Van Buren..... Van Buren..... Van Buren.....	A. E. Smith, Belleville..... A. E. Smith, Belleville..... Dr. H. S. Kiskadden, Detroit.....	July 13 July 13 July 13	3,000 3,000 3,000
				555,810

TWENTIETH REPORT—STATE FISHERIES.

LARGE MOUTH BLACK BASS.
YEARLINGS.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Kent county: Pickrel Lake.....	Plainfield.....	A. C. House, Belmont.....	1910. July 15	600

TWENTIETH REPORT—STATE FISHERIES.

WARMOUTH BASS.

YEARLINGS.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Baraga county: Carp Lake	Spurs	Peter Trudell, Jr., Negaunee	1910. July 15	300
Barry county: Pine Lake	Rutland	A. F. Burroughs, Hastings	Aug. 24	450
Fair Lake	Barry	Dewitt Collister, Delton	Sept. 3	600
Lower Crooked Lake	Prairieville	S. C. Greusel, Kalamazoo	Sept. 3	600
Twenty-one Lake	Hope	S. C. Greusel, Kalamazoo	Sept. 3	450
Benzie county: Crystal Lake	Crystal Lake	Miss Alice Van Deman, Beulah	Sept. 24	400
Berrien county: Mirror Lake	New Buffalo	August Vetterly, New Buffalo	Sept. 21	300
Calhoun county: Halls Lake	Sheridan	Floyd A. Anderson, Albion	Sept. 3	450
Capius Lake	Marengo	F. C. McWethy, Marshall	Sept. 3	600
Bear Lake	Penfield	Frank Poorman, Battle Creek	Sept. 3	600
Cass county: Bain Lake	Newburg	C. F. Prattles, Jones	Sept. 9	600
Clare county: Bass Lake	Hatton	C. A. Klemman, Chicago	Sept. 22	300
Rounac Lake	Hatton	C. A. Klemman, Chicago	Sept. 22	300
Fisher Lake	Hatton	C. A. Klemman, Chicago	Sept. 22	300
Silver Lake	Lincoln	John Ferwerda, Falmouth	Sept. 24	400
Clinton county: Park Lake	Bath	Miles T. Grey, Lansing	Sept. 9	600
Eaton county: Laceys Lake	Kalamo	S. P. Wells, Charlotte	Aug. 24	450
Gratiot county: Half Moon Lake	Seville	Wm. Stacey, Riverdale	Aug. 26	450
Hillsdale county: Duck Lake	Allen	H. G. Bishop, Allen	Sept. 10	600
Masher Lake	Jefferson	M. G. Masher, Osseo	Oct. 17	600
Houghton county: Parreault Lake	Adams	Jas. H. Lucas, Houghton	July 15	200

TWENTIETH REPORT—STATE FISHERIES.

Ingham county: Seymore Creek	Vevay	L. C. Webb, Mason	Sept. 9	750
Ionia county: Hess Lake	Campbell	E. A. Rising, Clarksville	Sept. 21	300
Long Lake	Orleans	J. B. Arwina, Beiding	Sept. 25	600
Isabella county: Riley Lake	Nottawa	Robt. Hyslop, Weidman	Sept. 23	300
Coldwater Lake	Nottawa	Robt. Hyslop, Weidman	Sept. 23	400
Perch Lake	Sheridan	Robt. Hyslop, Weidman	Sept. 23	300
Jackson county: Goose Lake	Pulaski	G. W. Truverse, Mosherville	Sept. 9	450
Kalamazoo county: Howard Lake	Schoolcraft	Thos. Hewitt, Schoolcraft	Sept. 2	600
Barton Lake	Schoolcraft	Thos. Hewitt, Schoolcraft	Sept. 2	600
Upper Sugarloaf Lake	Schoolcraft	P. C. Purcell, Schoolcraft	Sept. 2	600
Foxes Millpond	Prairie Ronde	Sherman D. Fox, Schoolcraft	Sept. 2	600
Lower Sugarloaf Lake	Portage	Jay Clark, Schoolcraft	Sept. 2	600
Black Lake	Schoolcraft	M. N. Grimes, Schoolcraft	Sept. 2	600
Tub Lake	Schoolcraft	M. N. Grimes, Schoolcraft	Sept. 2	450
Kalkaska county: Manistee Lake	Cold Springs	R. W. Douglas, Darrah	Oct. 13	750
Kent county: Reeds Lake	Grand Rapids	L. J. De Lamarter, Grand Rapids	July 1	1,000
McKewen Lake	Lowell	Chas. E. Brown, Alto	Aug. 26	450
Whipperwill Lake	Gratton	J. E. Taylor, Beiding	Aug. 26	450
Keweenaw county: Thayer Lake	Sherman	H. S. Hinton, Mohawk	July 16	300
Lapeer county: Wolf Lake	Metamora	M. S. Caryell, Metamora	Aug. 24	450
Marquette county: Compton Pond	Marquette	J. F. Neidhart, Marquette	July 15	200
Montcalm county: Deaner Lake	Richland	Wm. Caris, Vestaburg	Aug. 26	450
Bass Lake	Richland	T. H. McDale, Vestaburg	Aug. 26	600
Mecosta county: Lake 28	Sheridan	R. P. Swisber, Remus	Sept. 23	300
Muskegon county: Fine Island Lake	Holton	H. A. O'Connor, Holton	Aug. 27	450
Muskrat Lake	Cedar Creek	Fred Hanson, Holton	Aug. 27	450
Crooked Lake	Holton	Jacob Schmitt, Holton	Aug. 27	450
Big Blue Lake	Blue Lake	Hon. Fred Russell, Hart	Aug. 29	600

TWENTIETH REPORT—STATE FISHERIES.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Newaygo county:				
North Lake	Ensley	Fred Osborne, Grant	1910. Aug. 27	450
Blanch Lake	Ashland	A. J. Titus, Grant	Aug. 27	450
Long Lake	Ashland	A. J. Titus, Grant	Aug. 27	600
Railway Lake	Sherman	Jacob Kemperman, Fremont	Aug. 27	450
Stoney Lake	Denver	Geo. R. Lyons, Hesperia	Aug. 27	600
Bullhead Lake	Denver	Geo. R. Lyons, Hesperia	Aug. 27	600
Sand Lake	Ashland	A. J. Titus, Grant	July 15	800
Oakland county:				
Kellogg Lake	Oxford	Geo. Blood, Metamora	Aug. 24	900
Oceana county:				
Crystal Lake	Hart	Wm. R. Roach, Hart	Aug. 29	600
No name	Grant	John Fisher, Rothbury	Aug. 29	450
Homer Lake	Benona	Fred A. Tart, Mears	Aug. 29	450
Round Lake	Golden	Edwin A. Post, Mears	Aug. 29	600
Junifus Beach Pond	Golden	Edwin A. Post, Mears	Aug. 29	600
Silver Lake	Golden	C. E. Muchart, Mears	Aug. 29	600
Pentwater Lake	Pentwater	S. D. Montgomery, Grand Rapids	Aug. 29	600
Osceola county:				
Wilson Lake	Everett	S. F. Postal, Evart	Sept. 22	500
Ottawa county:				
Crockery Lake	Chester	Dr. E. O. Cilley, Conklin	Sept. 21	400
Crauberry Lake	Wright	Dr. E. O. Cilley, Conklin	Sept. 21	400
Presque Isle county:				
Grand Lake	Crapo	N. A. Eddy, Bay City	Aug. 26	450
St. Joseph county:				
Mud Lake	Fabius	Jno. G. Krull, Three Rivers	Sept. 9	450
Loug Lake	Colon	Dr. F. W. Clements, Burr Oak	Sept. 10	750
Van Buren county:				
East Lake	Almeua	John Wiltsea, Kendall	Aug. 30	450
Moon Lake	Geneva	Chas. Squires, Lacota	Aug. 30	300
Mnou Lake	Geneva	J. A. Gibson, Lacota	Aug. 30	300
Lillie Lake	Hamilton	John Baker, Decatur	Aug. 30	600
Keeler Lake	Keeler	Thos. S. Hare, Hartford	Aug. 30	900
Mud Lake	Porter	J. B. Pitts, Marcellus	Sept. 3	450
Bangor Millpond	Bangor	Archie V. McKee, Bangor	Sept. 21	400
Bear Lake	Columbia	E. B. Eddy, Grand Junction	Sept. 21	400
Total				39,100

PERCH
PISCIDAE

County and name of water.	Township.	Applicant of depositor.	Date.	Number.
Barry county:				
Sawmill Lake	Johnstown	E. A. Turner, Bedford	1910. July 8	4,000
Ionia county:				
Long Lake	Orleans	W. B. Connor, Shiloh	Aug. 19	1,000
Jackson county:				
Wolf Lake	Leoni	Geo. E. Beebe, Jackson	Oct. 21	1,000
Lenawee county:				
Devils Lake	Woodstock	H. E. Hand, Tecumseh	Aug. 3	500
Montmorency county:				
Long Lake	Montmorency	Wm. Scott, Hillman	Sept. 1	200
Sucker Lake	Hillman	Austin Rea, Hillman	Sept. 1	200
Oakland county:				
Lake Orion	Orion	J. E. Bolles, Detroit	Aug. 24	1,000
Presque Isle county:				
Grand Lake	Crapo, etc.	N. A. Eddy, Bay City	Aug. 26	1,750
St. Joseph county:				
St. Joseph River	Constantine	Wallace N. Harvey, Constantine	July 30	500
Fish Lake	Burr Oak	Wm. H. Bodner, Burr Oak	Aug. 20	500
Burr Oak Millpond	Burr Oak	Jas. R. Smith, Burr Oak	Aug. 20	1,000
Total				11,450

SUNFISH AND BLUEGILLS.
FINGERLINGS AND YEARLINGS.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Jackson county:			1910.	
Lagoon in Loomis Park	Jackson	W. W. Todd, Jackson	July 9	150
Michigan Center Millpond	Leoni	Geo. E. Beebe, Jackson	Oct. 21	450
Oakland county:				
Loon Lake	Waterford	Mich. Fish Commission, Drayton Plains	Aug. 2	2,000
Orchard Lake	West Bloomfield	F. S. Campbell, Detroit	Aug. 16	600
Union Lake	West Bloomfield and Commerce	C. M. Van Buskirk, Pontiac	Aug. 16	400
Wayne county:				
Lake Honor	Van Buren	H. S. Kiskadden, Detroit	July 13	75
Total				3,675

GRASS PIKE.
YEARLINGS.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Jackson county:			1910.	
Michigan Center Millpond	Leoni	Geo. E. Beebe, Jackson	Oct. 21	400

LANDLOCKED SALMON.
FINGERLINGS.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Chippewa county:			1910.	
Soo Rapids		Michigan Fish Commission, Detroit	July 29	5,000

LAKE TROUT.
FINGERLINGS.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Charlevoix county:			1910.	
Thumb Lake	T. 32 N. R. W.	Jas. O. Waggoner, Vanderbilt	July 2	5,000

RAINBOW TROUT.
FINGERLINGS.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Cass county:			1910.	
Magician Lake.....	Silver Creek.....	F. H. Coddig, Dowagiac.....	Oct. 17	3,000
Christian Creek.....	Penn etc.....	H. H. Roth, Cassopolis.....	Oct. 18	3,000
Clare county:				
Budd Lake.....	Hayes, etc.....	G. J. C. Cummins, Harrison.....	Oct. 20	1,200
Genesee county:				
Long Lake.....	Fenton.....	Everett L. Bray, Flint.....	Oct. 19	1,200
Ingham county:				
Mud Creek.....	Alandon.....	C. P. Mickelson, Mason.....	Oct. 22	1,200
Ionia county:				
Nicke Plate Pond.....	Ronald.....	C. A. Dalzell, Ionia.....	Oct. 19	900
Kent county:				
Lambertson Lake.....	Grand Rapids.....	Dwight Lydell, Mill Creek.....	Oct. 22	1,500
Lake county:				
P. M. River.....	Pleasant Plains.....	Geo. M. Brown, Detroit.....	Oct. 20	7,200
Muskegon county:				
Inlet to Big Blue Lake.....	Blue Lake.....	Fred J. Russell, Hart.....	July 8	8,000
Newaygo county:				
Little South Branch P. M. River.....	Home.....	Mich. Fish Commission, Detroit.....	July 17	30,000
Oakland county:				
Austin and Round Lakes.....	Milford.....	R. S. Potts, Milford.....	Oct. 19	1,500
Indian Garden Lake.....	Milford.....	Tom A. Forbes, Milford.....	Oct. 19	1,500
Long Lake.....	Orion.....	W. A. Benjamin, Orion.....	Oct. 24	1,200
Oceana county:				
Gales Millpond.....	Eldridge.....	T. B. Mitchell, Hart.....	Nov. 14	1,000
Oseoda county:				
Clear Lake.....		H. D. Neal, Rose City.....	Oct. 19	1,500
Total.....				63,900

TOTALS OF PLANTS FOR LAST HALF OF CALENDAR YEAR 1910.

Small Mouth Black Bass, Fingerlings Nos. 1, 2, 3 and 4.....	72,450
Large Mouth Black Bass, Fingerlings Nos. 1, 2, 3 and 4.....	374,000
Large Mouth Black Bass, Yearlings.....	585,810
Warmouth Bass, Yearlings.....	30,100
Perc, Fingerlings.....	11,450
Sunfish and Bluegills, Fingerlings and Yearlings.....	3,675
Small Mouth Yellow Perch, Fingerlings.....	400
Yellow Perch, Fingerlings.....	5,000
Lake Trout, Fingerlings.....	5,000
Rainbow Trout, Fingerlings.....	63,100

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
1911.				
Alcona county:				
West Branch	Hawes	John Macgregor, Harrisville.	Mar. 13	4,500
South Branch of Black River	Harrisville, Haynes and Alcona	Geo. Burt, Harrisville.	Mar. 13	6,000
Black River	Harrisville, Haynes and Alcona	F. J. Elmer, Harrisville.	Mar. 13	7,500
Black River	Alcona	C. W. Luce, East Tawas	Mar. 13	10,500
Venetien Creek	Mikado	C. E. Lovelace, Mikado	Mar. 13	9,000
West Branch	T. 27 N. of R. 6 and 7 E.	W. S. Linton, Saginaw	Mar. 13	7,500
Sucker Creek	T. 27 N. of R. 8 E.	W. S. Linton, Saginaw	Mar. 13	9,000
Fine River	Millen	Daniel Lavier, Lincoln	Mar. 13	6,000
Bluff Creek	Hawes	Daniel Lavier, Lincoln	Mar. 13	4,500
McKnight Creek		E. R. Wyman, Alpena	Mar. 17	3,000
Wildcat Creek	Caledonia	Jas. Briselden, Alpena	Mar. 17	4,500
Little North Branch		W. A. Blackburn, Alpena	Mar. 17	4,500
Mitchell Creek	Mitchell	C. W. Edwards, Alpena	Mar. 17	3,000
Newton Creek	Caledonia	C. W. Edwards, Alpena	Mar. 17	4,000
Silver Creek	Caledonia	D. D. Hanover, Alpena	Mar. 17	4,000
Muskat Creek	Millen	Richard Collins, Alpena	Mar. 17	3,000
Little Gitchrest Creek	Caledonia	R. E. Ellsworth, Alpena	Mar. 17	4,500
Bamfield or Nine Mile Creek	Curtis	Wm. Ellis, Au Sable	Mar. 18	4,500
Silver Creek	Mitchell	J. A. Pattee, Curran	Mar. 18	3,000
The Little Wolf	Mitchell	J. A. Pattee, Curran	Mar. 18	3,000
McGinn Creek	Mitchell	S. C. McCollum, Comins	Mar. 18	4,500
South Branch of Pine River	Curtis	F. H. Loud, Au Sable	Mar. 18	6,000
Spring Creek	Mitchell	F. H. Loud, Au Sable	Mar. 18	3,000
Mill Creek	Harrisville	A. L. Noyes, Harrisville	Mar. 23	4,500
Allegan county:				
Phumner Creek	Ganges	N. G. Nelson, Fennville	Feb. 23	2,000
Mann's Creek	Manlius	W. H. Whitbeck, Fennville	Feb. 23	2,000
Swan Creek	Valley	A. L. Whitbeck, Fennville	Feb. 23	2,000
Dowd's Creek	Heath and Monteray	Chas. E. Bond, Allegan	Feb. 27	4,000
Bear Creek	Heath and Monteray	C. F. Symon, Allegan	Feb. 27	5,000
Silver and Abrams Creeks	Gun Plains	Wm. Crisp, Plainwell	Mar. 3	4,500
Chart, Abrams, Delano and Neeley's Creeks	Gun Plains	E. J. Anderson, Plainwell	Mar. 3	6,000
Webster Creek	Gun Plains	R. L. Soule	Mar. 3	1,500
Silver Creek	Silver Creek	O. C. Rice, Kalamazoo	Mar. 3	3,000
Bayley March Creek	Cheshire and Valley	Fitz. Hamilton, Kalamazoo	Mar. 27	3,000
Alpena county:				
Trout Creek	Alpena	W. E. Rogers, Alpena	Mar. 17	1,500
Berlinski Creek	Sanborn and Ossineke	R. E. Ellsworth, Alpena	Mar. 17	4,500
Davis Creek	Ossineke	R. E. Ellsworth, Alpena	Mar. 17	4,500
Upper South Branch	Several	Dr. W. E. Carr, Alpena	Mar. 17	10,000
Scott Creek	Ossineke	C. W. Edwards, Alpena	Mar. 17	4,000
North Branch	Maple Ridge	Frank DeLong, Catho.	Mar. 17	6,000
Beaver Creek	Ossineke	C. W. Luce, East Tawas.	Mar. 17	7,500
Devil River	Sanborn	C. W. Luce, East Tawas.	Mar. 25	7,500
Antrim county:				
Shanty Creek	Custer	A. B. Wooten, Bellaire	Mar. 16	3,000
Cold Creek	Custer	A. B. Wooten, Bellaire	Mar. 16	2,000
Cedar River	Kearney and Chestonia	A. B. Wooten, Bellaire	Mar. 16	4,000
Town Line Creek	Banks	Dr. L. M. Newman, Central Lake	Mar. 16	2,000
Opletree Creek	Banks and Central Lake	W. F. Carpenter, Central Lake	Mar. 16	2,000
Wilkinson Creek	Central Lake and Banks	W. S. Richardson, Central Lake	Mar. 16	2,000
Norman Creek	Central Lake	W. H. Upthegrove, Central Lake	Mar. 16	2,000
Bosses Creek	Banks	Henry Struk, Ellsworth	Mar. 16	1,000
Noyes Creek	Banks	W. A. Boss, Ellsworth	Mar. 16	2,000
St. Clair Creek	Banks	L. Van Skiver, Ellsworth	Mar. 16	1,000
Ore Creek	Banks and Marion	L. Van Skiver, Ellsworth	Mar. 16	2,000
Bartholomew Creek	Echo	Carl Stroebel, East Jordan	Mar. 16	4,000
Jordan River	Jordan	Carl Stroebel, East Jordan	Mar. 16	5,000
Gould Creek	Helena	H. S. Pinney, East Jordan	Mar. 16	2,000
Spencer Creek	Chestonia	Chas. H. Coy, Alden	Mar. 16	2,000
Jordan River	Chestonia	Wm. Weaver & Son, Elmira	Mar. 22	6,000
Landslide Creek	Chestonia	F. M. Parker, Alba	Mar. 22	7,500
Racket River	Chestonia	A. A. Strickland, Alba	Mar. 22	1,000
Cascade Ck and Racket River, Tribs. to Jordan River	Chestonia	D. H. Meeker, Alba	Mar. 22	1,000
Green River	Chestonia	R. C. Bennett, Alba	Mar. 22	5,000
		R. C. Bennett, Alba	Mar. 22	4,000
Arenac county:				
Town Line Creek	Clayton and Mason	C. D. Brooks, Omer	Mar. 13	6,000
Dead Branch	Deep River and Arenac	C. D. Brooks, Omer	Mar. 13	7,500
Big Creek	Mason, Arenac and AuGres.	C. D. Brooks, Omer	Mar. 13	7,500
Stier's Creek	Deep River	J. R. Adams, Sterling	Mar. 23	3,000
Paremelee Creek	Deep River	J. R. Adams, Sterling	Mar. 23	3,000
Hoptkies Creek	Adams	J. R. Adams, Sterling	Mar. 23	2,000
Fine River	Adams, Deep River and Arenac	J. R. Adams, Sterling	Mar. 23	4,000
Deep River	Heads in Deep River	Francis Avery, Standish	Mar. 23	6,000
Lindy Creek	Arenac	Francis Avery, Standish	Mar. 23	4,000
North Branch of Deep River and South Omer	Gibson	Francis Avery, Standish	Mar. 23	3,000
Warner Creek		Francis Avery, Standish	Mar. 23	3,000
Cooler Creek	Deep River	Francis Avery, Standish	Mar. 23	3,000
Miles Creek	Deep River	Francis Avery, Standish	Mar. 23	3,000
Demno Creek	Arenac	Francis Avery, Standish	Mar. 23	3,000
Tributary of Deep River	Maple Ridge	Francis Avery, Standish	Mar. 23	3,000
South Omer Creek	Deep River	Francis Avery, Standish	Mar. 23	3,000
Omer, Cedar and Willis Creeks	Standish	Francis Avery, Standish	Mar. 23	4,000
Alger county:				
Anna River	Munising	H. A. St. John, Marquette	April 15	3,000
Furnace Creek	Munising	H. A. St. John, Marquette	April 15	3,000
Buck Creek	Munising	H. A. St. John, Marquette	April 15	1,500
Bohemian Creek		H. A. St. John, Marquette	April 15	1,500
Stutt's Creek		H. A. St. John, Marquette	April 15	3,000
Miner's River	Munising	H. A. St. John, Marquette	April 15	3,000

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Alger county.—Continued.				
Slapneck Creek	Rock River	H. R. Harris, Marquette	April 15	4,500
Au Train River	Rock River	H. R. Harris, Marquette	April 15	6,000
Little Indian River		Geo. Wileys, Detroit	April 19	7,500
Bull Creek		Geo. Wileys, Detroit	April 19	3,000
Squaw Creek	Munising	Fred S. Case	April 19	3,000
Robinson's Creek	Au Train	Fred S. Case	April 19	9,000
Big Indian Creek and tributaries	Munising	Lewis Williams, Grand Marais	April 19	3,000
West Branch of the Sucker	Burt	Thos. J. McCann, Grand Marais	April 19	7,500
Sucker River	Burt	H. A. St. John, Marquette	April 15	4,500
Branches of North Manistique River				
Barry county:				
Bagley Creek	Orangeville	A. J. Shelp, Doster	Feb. 27	1,500
Tributaries to Wanangoger Creek	Assyria	H. S. Jones, Bellevue	Feb. 27	1,500
Ellis or Spring Brook	Assyria	H. S. Jones, Bellevue	Feb. 27	2,000
Crooked Brook	Assyria	P. Jewell, Assyria	Feb. 27	1,500
Hamilton Brook		L. H. Sabin, Battle Creek	Feb. 27	1,500
Three tributaries to Thornapple River	Thornapple	A. C. Hindman, Grand Rapids	Mar. 1	3,000
Tributaries to Cedar Creek	Hope, Baltimore and Hastings	J. H. Neiss, Hastings	Mar. 1	3,000
Hill Creek	Yankee Springs	J. H. Neiss, Hastings	Mar. 1	1,500
Cedar Creek	Barry, Cedar Creek, Baltimore and Hastings	W. J. Michael, Hastings	Mar. 1	6,000
Tamarac Creek	Baltimore	Dr. C. W. Mixer, Hastings	Mar. 1	2,000
West Creek	Rutland and Hastings	Dr. C. W. Mixer, Hastings	Mar. 1	2,000
Upper Cedar Creek	Baltimore	Dr. C. W. Mixer, Hastings	Mar. 1	4,000
McCollum Creek	Hope	Dr. C. W. Mixer, Hastings	Mar. 1	1,500
Kelley Creek	Baltimore	Dr. C. W. Mixer, Hastings	Mar. 1	1,500
Power's Creek	Irving	C. H. Osborn, Hastings	Mar. 1	1,500
Fall Creek	Several	F. H. Barlow, Hastings	Mar. 1	4,000
High Bank Creek	Johnstown, Baltimore, Castleton and Cleveland	A. J. Houghtalin, Morgan	Mar. 1	4,000
Tributaries of Gull Lake	Prairieville	Arch Sootsman, Cressy	Mar. 1	1,500
Glass Creek	Hope, Rutland, Yankee Springs and Thornapple	D. Campbell, Cloverdale	Mar. 3	4,500
Gull Lake	Prairieville	A. W. Crane, M. D., Kalamazoo	Mar. 3	3,000
No name	Barry	A. W. Crane, M. D., Kalamazoo	Mar. 3	2,000
Baraga county:				
Perch Creek	48-25	E. W. MacPherran, Marquette	May 9	4,500
Branch of Sturgeon River	48-34	E. W. MacPherran, Marquette	May 9	1,500
Sidnaw Creek	48-32	E. W. MacPherran, Marquette	May 9	15,000
Streams about 27 1/2 Mile Post	48-34	E. W. MacPherran, Marquette	May 9	4,500
Clear Creek	Covington	Sidnaw H. and F. Club, Sidnaw	April 19	1,500
Spurr Creek	Spurr	Frank Perry, Michigamme	April 21	6,000
Branch county:				
Outlet of Three Lakes	Spurr	Peter Trudell, Negaunee	April 21	3,000
McDonald Creek	Spurr	Peter Trudell, Jr., Negaunee	April 21	3,000
Cliff Creek	Spurr	Peter Trudell, Jr., Negaunee	April 21	3,000
Nestoria Creek	Spurr	Peter Trudell, Jr., Negaunee	April 21	3,000
Canal Creek	Spurr	Peter Trudell, Jr., Negaunee	April 21	1,500
Outlet of Trout Lake	Spurr	Peter Trudell, Jr., Negaunee	April 21	1,500
Sturgeon River	Spurr and others	Peter Trudell, Jr., Negaunee	April 21	1,500
Coles Creek	L'Anse	Silver River R. and G. Club, L'Anse	April 26	12,000
Silver River	L'Anse and Arvon	Silver River R. and G. Club, L'Anse	April 26	7,500
Fall River	L'Anse	Silver River R. and G. Club, L'Anse	April 26	9,000
Meadow Brook	L'Anse	Silver River R. and G. Club, L'Anse	April 26	9,000
Steinbach Creek	L'Anse	Silver River R. and G. Club, L'Anse	April 26	6,000
Gamache Creek	Baraga	Silver River R. and G. Club, L'Anse	April 26	4,500
Duck Creek	L'Anse	Silver River R. and G. Club, L'Anse	April 26	4,500
Clear Creek	Baraga	Silver River R. and G. Club, L'Anse	April 26	3,000
West Branch	Baraga	Silver River R. and G. Club, L'Anse	April 26	4,500
Kelsey Creek	Baraga	Wm. C. Birk, Baraga	April 26	3,000
Cosgrove's Creek	Baraga	A. B. Cosgrove, Baraga	April 26	3,000
Slate River	Arvon	Louis Robillard, Baraga	April 26	1,500
		W. L. Mason, L'Anse	April 26	9,000
Branch county:				
Stanton's Creek	Sherwood	H. H. Hubbard, Union City	Feb. 24	1,500
Brewster's Brook	Girard	F. T. Tappan, Coldwater	Mar. 3	3,000
Shinneman Brook, Mott's, Hog, Allen and Branch Creeks	Coldwater	F. T. Tappan, Coldwater	Mar. 3	22,500
Benzie county:				
Platte River	Homestead	Frank Conklin, Honor	Mar. 17	10,000
Silver Creek	Homestead	L. H. Stacey, Honor	Mar. 17	2,000
Brundage Creek	Inland	L. H. Stacey, Honor	Mar. 17	2,000
Colton Creek	Homestead	L. H. Stacey, Honor	Mar. 17	2,000
Collison Creek	Homestead	L. H. Stacey, Honor	Mar. 17	2,000
South Branch	Platte	L. H. Stacey, Honor	Mar. 17	2,000
North Branch and Platte River	Platte	L. H. Stacey, Honor	Mar. 17	2,000
Brezofsky Creek	Benzonia	L. H. Stacey, Honor	Mar. 17	10,000
Miner Creek	Benzonia	W. B. Covey, Honor	Mar. 17	2,000
Root's Creek and Platte River	Benzonia	W. B. Covey, Honor	Mar. 17	2,000
Platte River	Homestead and Platte	I. P. Covey, Honor	Mar. 17	2,000
Betsay River	Homestead, Inland and Benzonia	F. A. Mitchell, Manistee	Mar. 17	14,000
Herring Creek	Blaine	F. A. Mitchell, Manistee	Mar. 17	20,000
		Ben Little, Frankfort	Mar. 21	30,000
			Mar. 21	6,000
Berrien county:				
Branch of Hickory Creek	Watervliet	Ed. A. Gast, St. Joseph	Feb. 23	1,500
Mill Creek	Sodus	Ed. A. Gast, St. Joseph	Feb. 23	2,000
Farmer Creek	Pipestone	Ed. A. Gast, St. Joseph	Feb. 23	3,000
Three Branches of Row Creek	Sodus and Berrien	F. K. George, St. Joseph	Feb. 23	5,000
Fisher Creek	Watervliet	F. K. George, St. Joseph	Feb. 23	3,000
Spring fed brooks near Watervliet	Bainbridge	E. E. Rowland, Watervliet	Feb. 23	3,000
Branch of Mill Creek, Smith Creek	Bainbridge	Albert Bujack, Watervliet	Feb. 23	1,500
Blue Creek	Benton	John De. Temple, Benton Harbor	Feb. 23	3,000
Hog Creek	Three Oaks	Fred Herring, St. Joseph	Feb. 23	3,000
Shedd Creek	Lake	Claude Herring, St. Joseph	Feb. 23	5,000
Shafer Creek		Mark Herring, St. Joseph	Feb. 23	3,000
Long Branch of Blue Lake		A. F. Herring, St. Joseph	Feb. 23	2,000

TWENTY-SEVENTH REPORT—STATE FISHERIES.

TWENTY-SEVENTH REPORT—STATE FISHERIES.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Berrien County.—Continued.				
Tabor Creek	Sodus.	A. F. Herring, St. Joseph.	Feb. 23	1,500
Graham Creek	Lincoln.	A. F. Herring, St. Joseph.	Feb. 23	2,000
Smith Creek	Pipestone.	J. W. Isbell, St. Joseph.	Feb. 23	2,000
Pearl Creek	Pipestone.	J. W. Isbell, St. Joseph.	Feb. 23	1,500
Hess Creek	Oronoko.	J. W. Isbell, St. Joseph.	Feb. 23	1,500
Morlock Creek	Pipestone.	J. W. Isbell, St. Joseph.	Feb. 23	1,500
Howard Creek	Pipestone.	J. W. Isbell, St. Joseph.	Feb. 23	3,000
Putnam Creek	Benton.	J. W. Isbell, St. Joseph.	Feb. 23	1,500
Claypool Creek	Berrien.	E. I. Backus, St. Joseph.	Feb. 23	1,500
Eckert Creek	Benton.	E. I. Backus, St. Joseph.	Feb. 23	1,500
Ox Creek	Watervliet.	Chas. E. Shaefer, St. Joseph.	Feb. 23	1,500
Jones Creek	Watervliet.	W. J. Lucker, St. Joseph.	Feb. 23	2,000
Spring Brook	New Buffalo.	W. J. Shermack, New Buffalo.	Feb. 23	3,000
Roone Creek	Pipestone.	S. M. Clawson, Eau Claire.	Mar. 24	3,000
Collins Creek	Pipestone.	S. M. Clawson, Eau Claire.	Mar. 24	3,000
Calhoun county:				
Wright Creek	Leroy.	C. M. Hall, Union City.	Feb. 24	3,500
Oberhauser Creek	Newton.	A. E. Carpenter, Union City.	Feb. 24	1,500
Love Creek	Newton.	A. E. Carpenter, Union City.	Feb. 24	1,500
Warsop Creek	Newton.	H. T. Carpenter, Union City.	Feb. 24	3,000
Katz Creek	Barryton.	D. D. Biell, Union City.	Feb. 24	3,000
Thompson Creek	Newton and Leroy.	Burt P. Long, Union City.	Feb. 24	3,000
Beadle Creek	Burlington and Athens.	C. H. Lowell, Union City.	Feb. 24	1,500
Weed's Creek	Newton and Leroy.	C. H. Lowell, Union City.	Feb. 24	1,500
Talmadge Brook	Marshall and Fredonia.	H. H. Taylor, Marshall.	Feb. 27	3,000
Mingus Brook	Battle Creek.	Henry Champion, Battle Creek.	Feb. 27	2,000
Pigeon Creek	Emmet.	Smith Bramble, Battle Creek.	Feb. 27	2,000
Dickinson Creek	Emmet.	W. H. Skinner, Battle Creek.	Feb. 27	3,000
Bascon Creek	Bedford.	D. H. Frazier, Battle Creek.	Feb. 27	3,000
Adams Brook	Bedford.	W. H. Pulsifer, Battle Creek.	Feb. 27	1,500
Seven Mile Creek	Bedford.	Geo. H. Williams, Battle Creek.	Feb. 27	2,000
Eagle Brook	Bedford.	Geo. H. Williams, Battle Creek.	Feb. 27	1,500
Newberry Creek	Bedford.	E. R. Newman, Battle Creek.	Feb. 27	3,000
Service Creek	Leroy.	M. S. Emmons, East Leroy.	Feb. 27	1,500
Sprague Creek	Leroy.	Ross E. Fuller, East Leroy.	Feb. 27	1,500
Shannon Creek	Leroy.	Fred H. Hall, East Leroy.	Feb. 27	1,500
Putnam Creek	Athens.	F. G. Woodruff, Athens.	Feb. 27	1,500
Barber Creek	Athens.	J. C. Gaw, Athens.	Feb. 27	1,500
Pine Creek	Leroy.	Glenn R. Waterman, East Leroy.	Feb. 27	1,500
Pine Creek	Athens.	Dor Waterman, East Leroy.	Feb. 27	1,500
Kelsey Creek	Athens.	Dor Waterman, East Leroy.	Feb. 27	1,500
Silver Creek	Battle Creek.	L. H. Tower, M. D., Battle Creek.	Mar. 25	7,500
Tower Brook	Emmett.	L. H. Tower, M. D., Battle Creek.	Mar. 25	7,500

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Miller Creek	Pokagon.	John Wyant, Berrien Center.	Feb. 23	1,500
Gleason Creek	La Grange and Howard.	R. W. Hain, Elkhart, Ind.	Feb. 24	3,000
Keagan's Creek	La Grange and Penn.	J. E. Underwood, Cassopolis.	Feb. 24	4,500
Silver Creek	Jefferson.	A. H. Kelsey, Cassopolis.	Feb. 24	3,000
McNab's or Jones Creek	Porter.	Arthur Sears, Vandalia.	Feb. 24	1,500
Thorp Creek	La Grange and Penn.	C. H. Kimmerle, Cassopolis.	Feb. 24	3,000
Shaw's Creek	Jefferson.	C. H. Kimmerle, Cassopolis.	Feb. 24	3,000
Centennial Mill Creek	Jefferson and Harvard.	C. H. Kimmerle, Cassopolis.	Feb. 24	3,000
Hadsell Creek	La Grange.	C. H. Kimmerle, Cassopolis.	Feb. 24	4,500
Glenwood Creek	Jefferson.	C. H. Kimmerle, Cassopolis.	Feb. 24	3,000
Hampton Creek	Wayne.	C. H. Kimmerle, Cassopolis.	Feb. 24	6,000
Kenny Creek	Wayne.	Fred Phillips, Dowagiac.	Feb. 24	4,500
Clendenen Creek	Wayne.	Fred Phillips, Dowagiac.	Feb. 24	1,500
Mcomber Creek	Silver Creek.	Fred Phillips, Dowagiac.	Feb. 24	1,500
Silver Creek	Silver Creek.	Fred Phillips, Dowagiac.	Feb. 24	1,500
Miller Creek	Silver Creek.	Fred Phillips, Dowagiac.	Feb. 24	1,500
Yaw Creek	Pokagon.	Fred Phillips, Dowagiac.	Feb. 24	1,500
Starrett Creek	Silver Creek.	Fred Phillips, Dowagiac.	Feb. 24	3,000
Anthony Creek	Wayne.	Fred Phillips, Dowagiac.	Feb. 24	1,500
Broadhurst Creek	Silver Creek.	Fred Phillips, Dowagiac.	Feb. 24	1,500
Carman Creek	Wayne.	Fred Phillips, Dowagiac.	Feb. 24	1,500
Feavine Creek	Wayne.	Fred Phillips, Dowagiac.	Feb. 24	1,500
McKinney Creek	Pokagon.	Fred Phillips, Dowagiac.	Feb. 24	1,500
Pokagon Creek	Pokagon.	Fred Phillips, Dowagiac.	Feb. 24	1,500
Wilson Creek	Pokagon.	Fred Phillips, Dowagiac.	Feb. 24	1,500
Rock River	Newberg.	Fred Phillips, Dowagiac.	Feb. 24	3,000
Tributary of Dowagiac Creek	Marcellus.	Hugh McKee, Marcellus.	Mar. 3	1,500
	Volinia.	C. S. Jones, Marcellus.	Mar. 3	1,500
		Floyd Brown, Marcellus.	Mar. 3	1,500
Charlevoix county:				
Murray Creek	South Arm.	W. A. Stroebel, East Jordan.	Mar. 16	2,000
Deer Creek	Wilson.	Carl Stroebel, East Jordan.	Mar. 16	4,000
Brown's Creek	South Arm.	Carl Stroebel, East Jordan.	Mar. 16	3,000
Todd Creek	South Arm.	W. F. Empey, East Jordan.	Mar. 16	2,000
Healy Creek	Wilson.	W. F. Empey, East Jordan.	Mar. 16	2,000
Porter Creek	Wilson and South Arm.	W. F. Empey, East Jordan.	Mar. 16	4,000
Warner Creek	Wilson and Warner.	Terry S. Barber, Boyne City.	Mar. 22	4,500
Collins Creek	Boyne Valley.	Terry S. Barber, Boyne City.	Mar. 22	3,000
Deerlick Creek	Boyne Valley.	Terry S. Barber, Boyne City.	Mar. 22	2,000
Deer Creek	Boyne Valley.	John L. A. Galster, Boyne Falls.	Mar. 22	6,000
Findley Creek	Boyne Valley.	John L. A. Galster, Boyne Falls.	Mar. 22	2,000
Boyne River	Boyne Valley.	John L. A. Galster, Boyne Falls.	Mar. 22	2,000
Boyne River	Boyne Valley.	Chas. Galster, Boyne Falls.	Mar. 22	7,500
W. Branch of Sturgeon River	Boyne Valley.	Wm. Weaver & Son, Elmira.	Mar. 22	9,000
	Hudson.	C. F. Hoffman, Vanderbilt.	Mar. 23	8,000
Cheboygan county:				
Big Pigeon River	Koehler and Walker.	Clyde King, Indian River.	Mar. 15	10,500
West Branch of Lower Little Pigeon River	Koehler.	Clyde King, Indian River.	Mar. 15	10,500
East Branch of Little Sturgeon River	Koehler.	Clyde King, Indian River.	Mar. 15	4,500
West Branch of Little Sturgeon River	Ellis and Koehler.	Clyde King, Indian River.	Mar. 15	7,500
Pigeon River	Munda.	C. A. Campbell, Afton.	Mar. 15	10,500
Sturgeon River	Benton.	C. E. Cornell, Wolverine.	Mar. 15	16,000
Elliott Creek	Benton.	Geo. A. Barber, Cheboygan.	Mar. 15	6,000

TWENTY-SEVENTH REPORT—STATE FISHERIES.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Cheboygan county.—Continued.				
Little Black Creek	Beaugrand	W. H. Borrow, Cheboygan.	Mar. 15	3,000
Nigger Creek	Burt and Monroe	E. A. Riggs, Topinabee.	Mar. 15	6,000
Carp Creek	Munro and Burt	E. A. Riggs, Topinabee.	Mar. 15	4,500
Lower Little Pigeon River	Koehler	J. W. Lester, Indian River	Mar. 15	7,500
East Branch Big Pigeon River	Koehler and Walker	J. W. Lester, Indian River	Mar. 15	7,500
Cedar Creek	Tuscarora and Littlefield	J. W. Lester, Indian River	Mar. 15	4,500
Stony Creek	Walker and Koehler	J. W. Lester, Indian River	Mar. 18	6,000
McMaster Creek	Forest	J. M. Clark, Onaway	Mar. 17	2,000
Gregg Creek	Forest	J. M. Clark, Onaway	Mar. 17	4,000
Silver Creek	Forest	J. M. Clark, Onaway	Mar. 17	2,000
Gillier Creek	Forest	J. M. Clark, Onaway	Mar. 17	1,500
Davis Creek	Forest	J. M. Clark, Onaway	Mar. 17	6,000
McPherson Creek	Forest	J. M. Clark, Onaway	Mar. 17	2,000
Welcher Creek	Forest and Waverly	J. M. Clark, Onaway	Mar. 17	6,000
Milligan Creek	Waverly	J. M. Clark, Onaway	Mar. 17	8,000
Upman's Creek	Severall	Chas. F. Davis, Burt Lake	Mar. 22	1,000
Mill Creek	Mackinaw	E. R. Pierce, Mackinaw	Mar. 22	4,500
Chippewa county:				
Trout Brook	Rudyard and Trout Lake	J. C. Sass, Rudyard	April 1	6,000
Chub Creek	Rudyard and Trout Lake	J. C. Sass, Rudyard	April 1	6,000
Bear Creek	Rudyard	J. C. Sass, Rudyard	April 1	6,000
Bisquit Creek	Rudyard and Trout Lake	J. C. Sass, Rudyard	April 1	7,500
Pine River	Rudyard	J. C. Sass, Rudyard	April 1	7,500
Trapper's Creek	Trout Lake	Chase S. Osborn, Sault Ste. Marie	May 15	10,500
Sweetbriar Creek	Rudyard	Chase S. Osborn, Sault Ste. Marie	May 15	9,000
Grant's Creek	Superior	Robert P. Hudson, Sault Ste. Marie	May 20	7,500
Spring Creek	Pickford	Adelot Desormeau, Keiden	May 20	9,500
Desemeaux Creek	Pickford	Dr. John A. Cameron, Pickford	May 20	7,500
St. Mary's River	Pickford	Michigan Fish Commission, Detroit	May 20	33,000
Clare county:				
South Branch of Tobacco River	Surrey	Fuller and Harris, Farwell	Mar. 10	3,000
North Branch of Tobacco River	Hayes	F. A. Fowler, Clare	Mar. 20	7,500
North Branch of Tobacco River	Greenwood	Geo. J. Cummins, Harrison	Mar. 20	12,000
Smith Creek	Hamilton	Geo. J. Cummins, Harrison	Mar. 20	3,000
Town Line Creek	Summerfield	Andrew Hagen, Harrison	Mar. 20	1,500
Floodwood Creek	Franklin	W. E. Green, Harrison	Mar. 20	3,000
Cedar Creek	Clare; Grant and Hatton	A. R. Canfield, Clare	Mar. 21	7,500
South Branch of Tobacco River	Arthur and Hatton	Wm. C. Cornell, Saginaw	Mar. 21	15,000
Tobacco River, Clear Creek and other creeks	Redding	Wm. Blue, Temple	Mar. 21	15,000
Green and Gishwash Creeks				
Clinton county:				
Lea Creek	Dallas	J. B. Miller, Pewamo	Mar. 21	1,500
Fuller Creek	Dallas	J. B. Miller, Pewamo	Mar. 21	2,000
Jennison Creek	Eagle	Fred L. Berry, Grand Ledge	Mar. 3	2,000
Crawford county:				
Au Sable River	Severall	F. B. Dickerson, Detroit	Mar. 21	45,000
East Branch of Au Sable River	Grayling	J. C. Burton, Grayling	Mar. 21	18,000
Big Creek	Maple Forest	T. E. Douglas, Lovells	Mar. 21	7,500
North Branch of Au Sable River	Chester and Maple Forest	Paul F. H. Morley, Saginaw	Mar. 21	15,000
North Branch of Au Sable River	Maple Forest	W. B. Mershon, Saginaw	Mar. 21	22,500
Big Creek	Severall	P. J. Welsh, Lewiston	Mar. 21	7,500
South Branch of Au Sable River and tributaries		Orlando F. Barnes, Roscommon	Mar. 23	42,000
Delta county:				
Bark River	Bark River	T. Killian, Escanaba	Mar. 31	6,000
Whitefish and Rapid River	Rapid River and Maple Ridge	T. Killian, Escanaba	Mar. 31	12,000
Reno Creek or Brook	Escanaba	T. Killian, Escanaba	Mar. 31	4,500
Inman Brook	Masonville and Rapid River	T. Killian, Escanaba	Mar. 31	4,500
Ten Mile Creek	Bark River	T. Killian, Escanaba	Mar. 31	4,500
Ford River	Ford River	T. Killian, Escanaba	Mar. 31	4,000
Escanaba River	Escanaba, Wells and Connell	T. Killian, Escanaba	Mar. 31	9,000
Sturgeon River	Nahma	T. Killian, Escanaba	Mar. 31	9,000
Tacnosh River	Baldwin and Maple Ridge	T. Killian, Escanaba	Mar. 31	7,500
Banks Brook	Wells	T. Killian, Escanaba	Mar. 31	9,000
Walker Brook	Wells	T. Killian, Escanaba	Mar. 31	4,500
East Branch of Bark River	Severall	T. Killian, Escanaba	Mar. 31	6,000
Bark River	Severall	J. H. Boyle, Bark River	Mar. 31	3,000
West Branch of Bark River	Severall	J. H. Boyle, Bark River	Mar. 31	4,500
Little Black Creek	Nahma	J. H. Boyle, Bark River	Mar. 31	4,500
West Branch of Fish Dam River	Nahma	F. W. Good, Nahma	April 3	3,000
Mallman Creek	Nahma	F. W. Good, Nahma	April 3	3,000
Ogontz River	Nahma	F. W. Good, Nahma	April 3	3,000
Garden Creek	Mason	W. R. Calloway, Minneapolis	April 3	3,000
Scotts Creek	Garden	T. Killian, Escanaba	April 3	7,500
Thompson River	Severall	W. R. Calloway, Minneapolis, Ind.	April 3	7,500
Tributaries to Day's River	Brampton and Masonville	W. R. Calloway, Minneapolis, Ind.	April 3	7,500
		W. H. Wellsted, Sr., Brampton	April 15	9,000
Dickinson county:				
Ford River	Sagola	Wm. E. Bartlett, Channing	Mar. 31	7,500
Headwaters of Ford River	Sagola	H. M. Boll, Channing	Mar. 31	3,000
Blueberry Creek	Sagola	H. M. Boll, Channing	Mar. 31	3,000
No name	Waucedah	J. J. Legendue, Norway	Mar. 31	1,500
Beaver Creek	Waucedah	Dan Vanitvelt, Waucedah	Mar. 31	3,000
Casity Creek	Waucedah	Dan Vanitvelt, Waucedah	Mar. 31	3,000
Red Dam Creek	Waucedah	Dan Vanitvelt, Waucedah	Mar. 31	4,500
No name	Waucedah	W. J. Turner, Vulcan	Mar. 31	3,000
Black Creek	Norway	W. J. Turner, Vulcan	Mar. 31	1,500
Campbell Brook	West Branch	E. C. Henderson, Norway	Mar. 31	3,000
Black Creek	Norway	T. Killian, Escanaba	Mar. 31	3,000
Badwater Creek	Norway	F. Copeland, Vulcan	Mar. 31	7,500
Albert's Creek	Breitung	John E. Quarnstrom, Iron Mountain	April 11	3,000
Black Creek	Norway	John E. Quarnstrom, Iron Mountain	May 9	1,500
	Norway	John E. Quarnstrom, Iron Mountain	May 9	3,000
		John E. Quarnstrom, Iron Mountain	May 9	3,000

TWENTY-SEVENTH REPORT—STATE FISHERIES.

TWENTY-SEVENTH REPORT—STATE FISHERIES.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Eaton county:			1911.	
No name.....	Delta.....	E. V. Chilson, Lansing.....	April 13	6,000
Emmet County:				
Carp River.....	Carp Lake.....	O. C. Cope, Carp Lake.....	Mar. 22	12,000
Carp River.....	Carp Lake.....	E. R. Pierce, Mackinaw.....	Mar. 22	6,000
Maple River and tributaries.....	Severel.....	W. B. Stimson, Grand Rapids.....	Mar. 23	69,000
Curtis Creek.....	Littlefield.....	Wm. L. Curtis, Petoskey.....	Mar. 22	4,500
Heber Creek.....	Little Trance.....	Wm. L. Curtis, Petoskey.....	Mar. 22	3,000
No Name.....	Friendship.....	Benj. Whittaker, Jr., Harbor Springs.....	Mar. 22	2,000
Tannery Creek.....	Bear Creek.....	Geo. C. Braun, Petoskey.....	Mar. 22	2,000
Bear Creek.....	Bear Creek.....	Geo. C. Braun, Petoskey.....	Mar. 22	12,000
Gladwin county:				
Cedar River.....	Sherman.....	James E. Tobin, Gladwin.....	Mar. 23	12,000
Gogebic county:				
Two Mile Creek or outlet of Beaton's Lake.....	Watersmeet.....	Cassius M. McDonald, Watersmeet.....	Mar. 31	3,000
Middle Branch of Ontonagon River.....	Watersmeet.....	Cassius M. McDonald, Watersmeet.....	Mar. 31	6,000
Tributaries to Bass Lake.....	Watersmeet.....	Wm. Bonifas, Watersmeet.....	Mar. 31	4,500
Bass Lake Creek.....	Watersmeet.....	J. F. Johnson, Watersmeet.....	Mar. 31	1,500
Beaver Station Creek.....	Watersmeet.....	J. F. Johnson, Watersmeet.....	Mar. 31	3,000
May's Brook.....	Marenisco.....	H. McDuffy, Ironwood.....	April 6	3,000
Little Presque Isle River.....	Marenisco.....	A. Emerson, Dunham.....	April 6	7,500
Gimlet Creek.....	Marenisco.....	John E. McNichols, Marenisco.....	April 6	3,500
Six Mile Creek.....	Marenisco.....	Frank Louisell, Marenisco.....	April 6	3,000
Spring Creek.....	Marenisco.....	Lewis Owens, Marenisco.....	April 6	1,500
Pelton Creek.....	Marenisco.....	F. A. Ornes, Marenisco.....	April 6	3,000
Headwaters of Maple Creek.....	Bessemer.....	Custaf H. Markstrum, Bessemer.....	April 6	4,500
South Fork of Mud Creek.....	Bessemer.....	W. H. Cheney, Bessemer.....	April 6	3,000
Nymer's Creek.....	Ironwood.....	W. F. Roberts, Bessemer.....	April 6	4,500
Black River.....	Wakefield, Bessemer and Ironwood.....	J. S. Rummage, Ramsey.....	April 6	7,500
Jackson's Creek.....	Wakefield.....	Harry Harper, Ramsey.....	April 6	4,500
East Branch of Powder Mill Pond.....	Bessemer.....	Wm. J. Weston, Bessemer.....	April 6	1,500
Coxey's Creek.....	Bessemer and Ironwood.....	Frank Winkowski, Bessemer.....	April 6	1,500
Flink's Creek.....	Bessemer.....	Jas. Campbell, Ironwood.....	April 6	1,500
Clover Creek.....	Marenisco.....	Harry Barr, Ironwood.....	April 6	3,000
Forb's Brook.....	Ironwood.....	Harry Barr, Ironwood.....	April 6	1,500
Clover Creek.....	Marenisco.....	Harry Barr, Ironwood.....	April 6	3,000
Fox Creek.....	Marenisco.....	R. A. Douglas, Ironwood.....	April 6	3,000
East Branch of Ontonagon River.....	Watersmeet.....	Edmont, Waples, Ironwood.....	April 6	3,000
Jones Brook.....	Erwin.....	Mat Fitzsimmons, Ironwood.....	April 6	1,500
McKinney Creek.....	Ironwood.....	Mat Fitzsimmons, Ironwood.....	April 6	1,500
Foster's Brook.....	Marenisco.....	D. E. Sutherland, Sherwood.....	April 6	3,000
Hazel Creek.....	Marenisco.....	D. E. Sutherland, Sherwood.....	April 6	3,000
Howe's Creek.....	Ironwood.....	D. E. Sutherland, Sherwood.....	April 6	3,000

TWENTIETH REPORT—STATE FISHERIES.

Honeyman's Creek.....	Ironwood.....	D. E. Sutherland, Sherwood.....	April 6	1,500
Hoffman's Creek.....	Ironwood.....	D. E. Sutherland, Sherwood.....	April 6	1,500
Beaver Creek.....	Ironwood.....	D. E. Sutherland, Sherwood.....	April 6	1,500
Monroe Creek.....	Ironwood.....	F. F. Thalner, Ironwood.....	April 6	1,500
Triplet Creek.....	Ironwood.....	F. F. Thalner, Ironwood.....	April 6	1,500
Ryan's Brook.....	Ironwood.....	F. F. Thalner, Ironwood.....	April 6	1,500
Weasel Creek.....	Marenisco.....	Pat Mullins, Ironwood.....	April 6	1,500
Pigeon Creek.....	Ironwood.....	Pat Mullins, Ironwood.....	April 6	1,500
Dandy Brown's Brook.....	Ironwood.....	Jas. Sampson, Ironwood.....	April 6	1,500
Alder Creek.....	Marenisco.....	Jas. Sampson, Ironwood.....	April 6	1,500
Lumm Creek.....	Marenisco.....	Jas. Sampson, Ironwood.....	April 6	1,500
Little Presque Isle River.....	Marenisco.....	Jas. Sampson, Ironwood.....	April 6	1,500
Judges Creek.....	Bessemer.....	A. D. Johnston, Bessemer.....	April 6	1,500
Wellington Branch.....	Marenisco.....	C. H. Warner, Bessemer.....	April 6	4,500
Tenderfoot Creek.....	Watersmeet.....	A. D. Johnston, Bessemer.....	April 6	3,000
State River.....	Marenisco.....	A. D. Johnston, Bessemer.....	April 6	4,500
Johnston Springs.....	Watersmeet.....	A. D. Johnston, Bessemer.....	April 6	3,000
Thousand Island Creek.....	Watersmeet.....	A. D. Johnston, Bessemer.....	April 6	1,500
Longford Creek.....	Watersmeet.....	A. D. Johnston, Bessemer.....	April 6	1,500
Crooked Creek.....	Watersmeet.....	A. D. Johnston, Bessemer.....	April 6	1,500
Camp Two Creek.....	Watersmeet.....	A. D. Johnston, Bessemer.....	April 6	1,500
Henderson Creek.....	Watersmeet.....	A. D. Johnston, Bessemer.....	April 6	3,000
Duck Creek.....	Watersmeet.....	A. D. Johnston, Bessemer.....	April 6	1,500
Vogtlin's Creek.....	Bessemer.....	A. D. Johnston, Bessemer.....	April 6	3,000
Eight Mile Creek.....	Bessemer.....	J. A. Vogtlin, Bessemer.....	April 6	3,000
Sand Island Creek.....	Bessemer.....	J. A. Vogtlin, Bessemer.....	April 6	9,000
Spring Hill Creek.....	Bessemer.....	J. A. Vogtlin, Bessemer.....	April 6	7,500
Six Mile Creek.....	Bessemer.....	J. A. Vogtlin, Bessemer.....	April 6	9,000
Hill Creek.....	Bessemer.....	J. A. Vogtlin, Bessemer.....	April 6	6,000
Gage's Creek.....	Bessemer.....	J. A. Vogtlin, Bessemer.....	April 6	4,500
Water Works Creek.....	Bessemer.....	J. A. Vogtlin, Bessemer.....	April 6	6,000
Junner Thomas Brook.....	Marenisco.....	J. A. Vogtlin, Bessemer.....	April 6	3,000
Big Coon Creek.....	Ironwood.....	O. F. Stabler, Ironwood.....	April 6	1,500
Honey Creek.....	Ironwood.....	O. F. Stabler, Ironwood.....	April 6	3,000
Douglas Creek.....	Ironwood.....	O. F. Stabler, Ironwood.....	April 6	1,500
Sutherland Creek.....	Ironwood.....	O. F. Stabler, Ironwood.....	April 6	3,000
Fur Creek.....	Ironwood.....	O. F. Stabler, Ironwood.....	April 6	3,000
Birch Creek.....	Ironwood.....	O. F. Stabler, Ironwood.....	April 6	3,000
Little Spring Creek.....	Ironwood.....	O. F. Stabler, Ironwood.....	April 6	1,500
Nine Mile Creek.....	Bessemer.....	O. F. Stabler, Ironwood.....	April 6	3,000
Shawmel's Creeklet.....	Ironwood.....	O. F. Stabler, Ironwood.....	April 6	1,500
Lemon Creek.....	Marenisco.....	O. F. Stabler, Ironwood.....	April 6	1,500
Cedar Creek.....	Ironwood.....	O. F. Stabler, Ironwood.....	April 6	1,500
Henderson Creek.....	Watersmeet.....	Pat Kaler, Watersmeet.....	April 6	3,000
Morrison Creek.....	Watersmeet.....	N. D. Murphy, Watersmeet.....	April 11	3,000
Hansen Creek.....	Watersmeet.....	Jas. McCloskey, Watersmeet.....	April 11	3,000
Camp No. 2 Creek.....	Watersmeet.....	J. D. Vantwood, Watersmeet.....	April 11	3,000
Duck Creek.....	Watersmeet.....	E. H. Darling, Watersmeet.....	April 11	3,000
Howards Creek.....	Ironwood.....	N. D. Massie, Bessemer.....	April 11	3,000
No name.....	Ironwood.....	Frank C. Davis, Bessemer.....	April 11	3,000
Markstrums Creek.....	Ironwood.....	H. E. Patterson, Bessemer.....	April 11	3,000
Tributary to Lake Ruth.....	48-45.....	B. W. MacPherran, Marquette.....	May 9	3,000

TWENTIETH REPORT—STATE FISHERIES.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Gogebic county—Continued.				
Branch of Presque Isle River.	48-14	E. W. MacPherran, Marquette	1911.	
Little Presque Isle River.	Wakefield, Bessemer and Marenisco.	M. M. Riley, Milwaukee, Wis.	May 9	3,000
Cherry Creek.	Wakefield.	M. M. Riley, Milwaukee, Wis.	May 10	7,500
Mud Creek.	Wakefield and Marenisco.	M. M. Riley, Milwaukee, Wis.	May 10	7,500
Lula Creek.	Wakefield.	M. M. Riley, Milwaukee, Wis.	May 10	7,500
Big Presque Isle River.	Several.	M. M. Riley, Milwaukee, Wis.	May 10	4,500
Headwaters of Ontonagon River.	T. 44 R. 41 W.	Marvin Hughitt, Jr., Chicago, Ill.	May 10	7,500
Clearwater Creek.	T. 44 R. 41 W.	Marvin Hughitt, Jr., Chicago, Ill.	May 10	4,500
Lanford Creek.	T. 44 R. 41 W.	Marvin Hughitt, Jr., Chicago, Ill.	May 10	4,500
Grand Traverse County:				
Sands Creek.	Paradise.	R. B. DeFrance, Kingsley	Mar. 16	1,500
Malcolm Keffer Spring Brook.	Paradise.	Kingsley Sportsmen's Club, Kingsley	Mar. 16	1,500
Hills' Brook.	Paradise.	Kingsley Sportsmen's Club, Kingsley	Mar. 16	1,500
Clark Creek.	Paradise.	Kingsley Sportsmen's Club, Kingsley	Mar. 16	3,000
Beaver Meadow Creek.	Paradise.	Kingsley Sportsmen's Club, Kingsley	Mar. 16	3,000
Harrison Brook.	Paradise.	Kingsley Sportsmen's Club, Kingsley	Mar. 16	3,000
Parker Creek.	Paradise.	Kingsley Sportsmen's Club, Kingsley	Mar. 16	4,500
Brownson Brook.	Paradise.	Kingsley Sportsmen's Club, Kingsley	Mar. 16	1,500
East Creek.	Paradise.	Kingsley Sportsmen's Club, Kingsley	Mar. 16	6,000
Gray's Creek.	Paradise.	Kingsley Sportsmen's Club, Kingsley	Mar. 16	3,000
Taber Creek.	Paradise.	Kingsley Sportsmen's Club, Kingsley	Mar. 16	4,500
Newmarsh Spring Brook.	Paradise.	Kingsley Sportsmen's Club, Kingsley	Mar. 16	4,500
Biddlecomb Creek.	Paradise.	Kingsley Sportsmen's Club, Kingsley	Mar. 16	4,500
Mayfield Brook.	Paradise.	Kingsley Sportsmen's Club, Kingsley	Mar. 16	3,000
Slaughter House Creek.	Paradise.	Kingsley Sportsmen's Club, Kingsley	Mar. 16	3,000
Tributaries to Duck Lake.	Green Lake.	G. A. Brigham, Buckley	Mar. 16	1,500
East Branch of Anderson Creek.	Mayfield.	G. A. Brigham, Buckley	Mar. 18	3,000
Boardman River.	Garfield, Paradise, Union and E. Bay	R. S. Hastings, Traverse City	Mar. 18	22,500
Mitchell, Acme and Williamsburg Creeks.	East Bay, Acme and Whitewater.	C. O. Carver, Traverse City	Mar. 18	9,000
West Branch of Anderson Creek.	Mayfield.	G. A. Brigham, Buckley	Mar. 18	3,000
Twenty-two Creek.	Union.	F. E. Mills, Fife Lake	Mar. 22	3,000
Parker Creek.	Union.	F. E. Mills, Fife Lake	Mar. 22	4,000
Carpenter Creek.	Fife Lake.	F. E. Mills, Fife Lake	Mar. 22	3,000
Hillsdale county:				
Lake Pleasant Brook.	Hillsdale and Jefferson	W. C. Kemp, Hillsdale	Mar. 1	3,000
No name.	Cambria	W. J. French, Hillsdale	Mar. 1	1,500
Silver Creek.	Cambria	W. J. French, Hillsdale	Mar. 1	3,000
Soap Creek.	Allen, Littlefield and Butler.	L. C. Feighner, Litchfield	Mar. 1	3,000
Headwaters of Kalamazoo River.	Scipio.	L. C. Feighner, Litchfield	Mar. 1	3,000
Sand Creek.	Allen and Litchfield.	L. C. Feighner, Litchfield	Mar. 1	4,500
Mcnelly Ditch.	Litchfield and Scipio.	L. C. Feighner, Litchfield	Mar. 1	1,500
Headwaters of Grand River.	Somerset	Mrs. E. McMan, Somerset Center	Mar. 25	4,500
Douglas Creek.	Wheatland	D. J. Douglas, Pittsford	Mar. 25	6,000
Houghton county:				
Fox Creek.	Duncan	Wm. Kroll, Kenton	April 18	3,000
Hope Creek.	Duncan and Iron River	Wm. Kroll, Kenton	April 18	3,000
Lees Creek.	Duncan and Interior	Wm. Kroll, Kenton	April 18	3,000
Beaver Creek.	Duncan	Wm. Kroll, Kenton	April 18	1,500
Stoney Creek.	Duncan and Iron River	Wm. Kroll, Kenton	April 18	4,500
White Creek.	Duncan	Wm. Kroll, Kenton	April 18	1,500
Spring Creek.	Duncan and Iron River	Wm. Kroll, Kenton	April 18	3,000
Spargo Creek.	Duncan and Iron River	Wm. Kroll, Kenton	April 18	1,500
Shane Creek.	Duncan	Wm. Kroll, Kenton	April 18	3,000
Jumbo Creek and branches.	Duncan and Iron River	Wm. Kroll, Kenton	April 18	4,500
Smith Creek.	Duncan	Wm. Kroll, Kenton	April 18	1,500
Sturgeon River.	Duncan and Covington	Sidnaw F. and H. Club, Sidnaw	April 19	3,000
Johnson Creek.	Duncan	Sidnaw F. and H. Club, Sidnaw	April 19	1,500
Roycroft Creek.	Duncan	Sidnaw F. and H. Club, Sidnaw	April 19	1,500
Dead Stream.	Duncan and Covington	Sidnaw F. and H. Club, Sidnaw	April 19	3,000
Perch Creek.	Duncan and Covington	Sidnaw F. and H. Club, Sidnaw	April 19	3,000
Little Beaver Creek.	Duncan	Sidnaw F. and H. Club, Sidnaw	April 19	1,500
Sidnaw Creek.	Duncan	Sidnaw F. and H. Club, Sidnaw	April 19	1,500
Hill Creek.	Duncan	Sidnaw F. and H. Club, Sidnaw	April 19	3,000
Southeast Branch of Ontonagon River.	Duncan	Sidnaw F. and H. Club, Sidnaw	April 19	1,500
East Branch of Ontonagon River.	Duncan, Bates and Interior.	Sidnaw F. and H. Club, Sidnaw	April 19	3,000
Leveque's Creek.	Laird	G. W. Stannard, Rockland	April 19	3,000
Six Mile Creek.	Portage	F. W. Kroll, Houghton	April 26	1,500
Branch of Sturgeon River.	Laird	Jno. C. Pyroe, Houghton	April 26	1,500
Sturgeon River Branches.	48 to 52	J. T. McCall, Houghton	April 26	7,500
Sturgeon River (small branches).	48 to 52	Fred Stoyie, Houghton	April 26	7,500
Sturgeon River (small branches).	48 to 52	Jeff Alexander, Houghton	April 26	7,500
Small branches of Sturgeon River.	Laird	Paul D. Swift, Houghton	April 26	1,500
Small branches of Sturgeon River.	Laird	H. L. Swift, Houghton	April 26	1,500
Peepock Creek.	Portage	Henry W. Grams, Houghton	April 26	1,500
Pilgrim River.	Portage and Adams	H. W. Hart, Houghton	April 26	4,500
North Branch of Pilgrim River.	Portage and Adams	Chas. A. Mayworm, Houghton	April 26	1,500
Four Mile Creek.	Portage	J. J. Michels, Houghton	April 26	3,000
Coles Creek.	Adams	John H. Rice, Houghton	April 26	3,000
South Branch of Pilgrim River.	Portage	Henry J. Rompf, Houghton	April 26	1,500
Pike River.	Chassell	Dr. P. H. Willson, Chassell	April 26	3,000
Murphy's Creek.	Laird	Jas. T. Healey, Houghton	April 26	3,000
West Branch Silver River.	Laird	Jos. Vairo, Alston	April 26	1,500
Otter Creek.	Laird and Chassell	Abel Olson, Houghton	April 26	6,000
Silver Creek.	Laird and Chassell	Wm. D. Caemley, Houghton	April 26	4,500
Bruneau Creek.	Laird	Fred L. Reedham, Houghton	April 26	3,000
West Branch Little Sturgeon River.	Laird	J. C. Weissmiller, Hancock	April 26	4,500
North Branch of Little Otter River.	Laird and Adams	R. Skiff Sheldon, Houghton	April 26	9,000
Coach's Creek.	Laird	J. G. Bertrand, Houghton	April 26	3,000
West Branch of the Otter.	Laird and Duncan	H. W. Fesnig, Houghton	April 26	4,500
Upper Sturgeon River.	Laird	J. M. Cahoon, Houghton	April 26	6,000
Alston Creek.	Portage	L. H. Atkin, Houghton	April 26	3,000
Reservoir or City Water.	Portage	E. A. Bardin, Houghton	April 26	3,000
East Branch of Pilgrim River.	Portage	H. G. Major, Houghton	April 26	3,000
Black Creek.	Allouez	H. Hermann, Laurium	May 6	1,500
Sawmill Creek.	Adams	Wm. J. Richards, Painesdale	May 6	1,500

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Houghton county.—Continued.				
Santee Creek	Adams and Portage	Gotheib Wurster, Houghton	1911.	
Elm River	Adams, Elm and Stanton	Joe Paull, Tri Mountain	May 6	3,000
Gravetat Creek	Stanton	J. Albert Smith, Tri Mountain	May 6	7,500
Salmon Trout River	Adams	J. M. Taylor, Tri Mountain	May 6	4,500
Thirteen Mile Creek	Adams	Herman Dahl, Painesdale	May 6	7,500
Shawmut River	Elm River	Louis La Roche, Houghton	May 6	3,000
Pearce's Creek	Schoolcraft	Ransom Pierce, Lake Linden	May 6	6,000
Little Rabbit River	Torch Lake	Ernest Peck, Hubbell	May 6	3,000
Big Traverse River	Schoolcraft	Carl Krug, Hubbell	May 6	3,000
Armstrong's Creek	Schoolcraft	Sam Jones, Hubbell	May 6	3,000
Trap Rock River	Schoolcraft	A. G. Kauffman, Hubbell	May 6	1,500
Little Traverse River	Schoolcraft	M. J. Hodges, Hubbell	May 6	4,500
Hungarian Creek	Schoolcraft	M. J. Harrington, Hubbell	May 6	1,500
McCallum's Creek	Osceola	M. J. Hodges, Hubbell	May 6	1,500
Vine's Creek	Torch Lake	Joe. Wise, P. M., Hubbell	May 6	3,000
East Branch Trap Rock River	Torch Lake	A. J. Vine, Hubbell	May 6	3,000
Ravine Creek	Schoolcraft	Dr. Chas. Rowe, Hubbell	May 6	3,000
West Branch Pilgrim River	Torch Lake	Geo. Bark, Hubbell	May 6	1,500
Byrt Creek	Portage	Geo. Williams, Houghton	May 6	1,500
Stock Creek	Elm River	Geo. Williams, Houghton	May 6	3,000
Arcadian Mill Creek	Hancock	Geo. Williams, Houghton	May 6	4,500
Huron Creek	Torch Lake	A. D. Edwards, Houghton	May 6	3,000
Oscar Stream	Portage	John C. Morrin, Houghton	May 6	1,500
Sleeping River	Stanton	R. H. Shields, Houghton	May 6	1,500
West Branch Sleeping River	Elm River	P. L. Barkman, Winona	May 6	1,500
East Branch Sleeping River	Elm River	M. J. Finnegan, Winona	May 6	6,000
Misery River	Elm River	R. R. Seeber, Winona	May 6	3,000
Hennes Creek	Elm River	F. C. Lukey, Winona	May 6	3,000
Middle Branch Firesteel River	Portage	J. McCarthy, Winona	May 6	3,000
East Branch Salmon Trout River	Elm River	Chas. Smith, Hubbell	May 6	6,000
Pump Station Creek	Portage and Adams	L. H. Richardson, Houghton	May 6	3,000
Hill's Creek	Adams	H. M. Keever, Houghton	May 6	4,500
West Branch Little Travis	Allouez	C. P. Fisher, Tri Mountain	May 6	1,500
Quinzie Creek	Schoolcraft	F. W. Armstrong, Hubbell	May 6	3,000
Hallie's Creek	Osceola	F. W. Armstrong, Hubbell	May 6	6,000
	Torch Lake	Edward Marcotte, Hubbell	May 6	1,500
		Oscar Cyler, Hubbell	May 6	1,500
			May 6	1,500
Iron county:				
Deer River	Crystal Falls	Arvid Bjork, Crystal Falls	Mar. 31	6,000
Raymon Creek	Mansfield	R. E. Boll, Channing	Mar. 31	1,500
Paint River	Crystal Falls and others	Geo. Premo, Amasa	Mar. 31	4,500
New York Creek	Hematite	Geo. Premo, Amasa	Mar. 31	3,000
Nef River	Hematite	Geo. Premo, Amasa	Mar. 31	3,000
Little Hemlock Creek	Hematite	Geo. Premo, Amasa	Mar. 31	7,500
Holmes Creek	Crystal Falls	Geo. Premo, Amasa	Mar. 31	3,000
			Mar. 31	3,000
Iron River				
Section 33 Creek	Iron	M. S. McDonough, Iron River	Mar. 31	6,000
South Branch of Paint River	Stambaugh	M. S. McDonough, Iron River	Mar. 31	3,000
North Branch of Paint River	Iron River	M. S. McDonough, Iron River	Mar. 31	6,000
Nash's Pond	Iron River	M. S. McDonough, Iron River	Mar. 31	7,500
Sunset Lake Creek	Iron River	I. W. Byers, Iron River	Mar. 31	1,500
Cook's Run	Iron River	I. W. Byers, Iron River	Mar. 31	6,000
Hemlock River	Iron River	Mrs. L. A. Charminghal	Mar. 31	6,000
East Branch of East Branch of Ontonagon River	Hematite	Chas. E. Lawrence, Iron Mountain	Mar. 31	6,000
West Branch of Paint River	Stambaugh	G. M. Cornell, Ironwood	April 6	6,000
		G. M. Cornell, Ironwood	April 6	3,000
			April 6	4,500
Ingham county:				
Columbia Creek	Aurelius	W. T. Halcomb, Mason	Mar. 1	2,000
Willow Creek	Aurelius	W. T. Halcomb, Mason	Mar. 1	1,500
Baldwin Creek	Onondaga	Wm. M. Carroll, Onondaga	Mar. 1	1,500
Low Lake Inlet	Stockbridge	Walter Hayner, Stockbridge	Mar. 1	3,000
Ionia county:				
Pearshall Creek	Boston and Keene	John Wallington, Saranac	Feb. 27	1,500
Arnold's Creek	Easton	John Wallington, Saranac	Feb. 27	1,500
Hunts Creek	Boston and Berlin	John Wallington, Saranac	Feb. 27	1,500
Dexter Creek	Easton	John Wallington, Saranac	Feb. 27	1,500
Steven's Creek	Keene and Easton	John Wallington, Saranac	Feb. 27	1,500
Hawn's Creek	Boston	John Wallington, Saranac	Feb. 27	1,500
Holdon Brook	Ronald	John Wallington, Saranac	Feb. 27	1,500
Brown Brook	Ronald and North Plains	Newel Holden, Ionia	Feb. 27	1,500
Faxon Creek	Lyons	H. M. Brown, Muir	Feb. 27	1,500
Spaulding Creek	Ionia	J. E. Miller, Pewamo	Feb. 27	2,000
Tibbets Creek	Berlin	E. T. Armon, Ionia	Mar. 1	1,500
Dildine Creek	Easton	A. J. Kling, Ionia	Mar. 1	1,500
Campbell Creek	Campbell	Milo Van Slyke	Mar. 1	2,000
Prairie Creek	Ronald	E. A. Rising, Clarksville	Mar. 1	2,000
No name	Ronald	John Galloway, Palo	Mar. 3	2,000
Timberland Creek	Ronald	Eliot A. Mellard, Ionia	Mar. 8	6,000
Ely Creek	Easton	Snyder and Wortman, Ionia	Mar. 8	1,500
	North Plains	C. A. Dalzell, Ionia	Mar. 22	3,000
			Mar. 22	3,000
Iosco county:				
Hale Creek	Plainfield	R. D. Brown, Hale	Mar. 13	6,000
Smith Creek	Plainfield	R. D. Brown, Hale	Mar. 13	6,000
Van Etten Creek	Oscoda	J. H. McGilivray, Oscoda	Mar. 13	1,500
Vaughan Creek	Plainfield	C. W. Luce, East Tawas	Mar. 25	6,000
Pickett Creek	Plainfield	C. W. Luce, East Tawas	Mar. 25	4,500
Cold Creek	Grant and Tawas	C. W. Luce, East Tawas	Mar. 25	6,000
Silver Creek	Wilbur and Baldwin	C. W. Luce, East Tawas	Mar. 25	9,000
Gates Creek	Tawas and Baldwin	C. W. Luce, East Tawas	Mar. 25	6,000
Ginley Creek	Grant	C. W. Luce, East Tawas	Mar. 25	7,500
Isabella county:				
Campau Creek	Deerfield	Geo. L. Granger, Mt. Pleasant	Feb. 28	1,500
Fussman Creek	Nottawa	Geo. L. Granger, Mt. Pleasant	Feb. 28	1,500
Labun Creek	Nottawa	Geo. L. Granger, Mt. Pleasant	Feb. 28	1,500
Hebron Creek	Deerfield	Geo. L. Granger, Mt. Pleasant	Feb. 28	3,000

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
1911.				
Isabella county.—Continued.				
Isabella county.—Continued.	Deerfield	Geo. L. Granger, Mt. Pleasant	Feb. 28	3,000
Zucker Creek	Deerfield	Geo. L. Granger, Mt. Pleasant	Feb. 28	1,500
Phillips Brook	Nottawa	Geo. L. Granger, Mt. Pleasant	Feb. 28	3,000
Tupman Creek	Nottawa	Geo. L. Granger, Mt. Pleasant	Feb. 28	1,500
Theison Creek	Deerfield	Geo. L. Granger, Mt. Pleasant	Feb. 28	3,000
Simmons Creek	Deerfield	Geo. L. Granger, Mt. Pleasant	Feb. 28	1,500
Inger Creek	Gilmore	Geo. L. Granger, Mt. Pleasant	Feb. 28	3,000
Perry Creek	Gilmore	Geo. L. Granger, Mt. Pleasant	Feb. 28	1,500
Wood's Creek	Deerfield	Geo. L. Granger, Mt. Pleasant	Feb. 28	1,500
Seymore Creek	Deerfield	Geo. L. Granger, Mt. Pleasant	Feb. 28	3,000
Stony Creek	Deerfield	Geo. L. Granger, Mt. Pleasant	Mar. 6	1,500
Coomer Brook	Fremont	John Underwood, Winn	Mar. 6	3,000
Dejo Creek	Fremont	John Underwood, Winn	Mar. 6	1,500
Fuller Creek	Fremont	John Underwood, Winn	Mar. 8	1,500
Spring Brook	Rolland	Roger Scott, Blanchard	Mar. 8	1,500
Logie Creek	Rolland	Roger Scott, Blanchard	Mar. 8	1,500
Rogers Creek	Rolland	Roger Scott, Blanchard	Mar. 8	1,500
Sawdy Brook	Rolland	Roger Scott, Blanchard	Mar. 8	1,500
Babcock Creek	Rolland	Roger Scott, Blanchard	Mar. 8	1,500
Der Mott Creek	Rolland	Roger Scott, Blanchard	Mar. 8	3,000
Humphrey Creek	Rolland	Ansel Moody, Blanchard	Mar. 8	4,000
Skunk Creek and tributaries	Sherman and Coldwater	Miles A. Draliet, Weidman	Mar. 8	4,000
Walker Creek	Nottawa	Robert Hyslop, Weidman	Mar. 10	4,500
Headwaters of Coldwater River	Wise and Vernon	C. A. Allen, Loomis	Mar. 10	4,500
Hersey Creek	Wise	C. A. Allen, Loomis	Mar. 10	4,500
Willey Creek	Wise	C. A. Allen, Loomis	Mar. 21	7,500
Loomis Creek or Little Salt	Chippewa, Coc and Union	J. E. Myers, Shepherd	Mar. 21	4,300
Potter Creek	Lincoln	M. R. Castel, Shepherd		
Figg and Parcher Drain				
Jackson county:				
Branch of North Branch of Kalamazoo River	Hanover	F. W. McKenzie, Concord	Feb. 24	3,000
Tributaries of Michigan Center Mill Pond	Napoleon	L. B. Benton, Napoleon	Feb. 27	2,000
Zimmerman Brook	Norvell	Wm. F. Walker, Norvell	Feb. 27	3,000
Thayer's Creek	Norvell	B. F. Burgess, Norvell	Feb. 27	1,500
Grass Lake Creek	Grass Lake	C. R. Smith Grass Lake	Feb. 27	3,000
Johnson Creek	Parma	S. H. Barsdale, Parma	Feb. 27	1,500
Mackey Brook	Parma	S. H. Barsdale, Parma	Feb. 27	1,500
Showerman Brook	Parma and Sandstone	S. H. Barsdale, Parma	Feb. 27	3,000
Winegar Creek	Sandstone	Mark B. Hawes, Parma	Feb. 27	1,500
Dearing Creek	Sandstone	Mark B. Hawes, Parma	Feb. 27	3,000
Cutter's Creek	Spring Arbor and Concord	D. F. Moe, Parma	Feb. 27	1,500
Wilcox Creek	Parma	H. D. Abbott, Parma	Feb. 27	1,500
Tributaries to Rice Creek	Parma	F. D. Bailey, Parma	Feb. 27	1,500
Knowles Creek	Concord	Jay King, Parma	Feb. 27	1,500
Needham Creek	Parma	Jos. Neidham, Parma	Feb. 27	3,000
Rives Junction Creek.				
West Branch of Kalamazoo River	Hillsdale	Geo. E. Beebe, Jackson	Mar. 1	1,500
Dew Brook	Horton	Geo. E. Beebe, Jackson	Mar. 1	4,500
Wade Creek	Tompkins	Geo. E. Beebe, Jackson	Mar. 1	2,000
Four Mile Creek	Blackman	Geo. E. Beebe, Jackson	Mar. 1	3,000
Crouch Creek	Summit	Geo. E. Beebe, Jackson	Mar. 1	3,000
Headwaters of Grand River	Liberty	Geo. E. Beebe, Jackson	Mar. 1	4,500
Headwaters of Kalamazoo River	Hanover	Geo. E. Beebe, Jackson	Mar. 1	3,000
Snyder's Creek	Spring Arbor	Geo. E. Beebe, Jackson	Mar. 1	4,500
Sandstone Creek	Sandstone and Blackman	Geo. E. Beebe, Jackson	Mar. 1	3,000
Rice Creek	Parma	Geo. E. Beebe, Jackson	Mar. 1	6,000
Willow Creek	Rives	Geo. E. Beebe, Jackson	Mar. 1	6,000
Willow Creek	Grass Lake and Waterloo	Geo. E. Beebe, Jackson	Mar. 1	3,000
Inlet to Brill's Lake	Hanover	Geo. E. Beebe, Jackson	Mar. 1	4,500
Inlet to Mud Lake	Levin	Geo. E. Beebe, Jackson	Mar. 1	1,500
Tributary to Sandstone Creek	Levin	H. B. Davis, Jackson	Mar. 1	1,500
Indian Springs Creek	Blackman, Summit and Spring Arbor	B. W. Dicer, Jackson	Mar. 1	1,500
Greenshaw and Kamsdell Creeks	Concord	B. W. Dicer, Jackson	Mar. 1	3,000
Wheaton and Cooper Creeks	Hanover	G. T. Greenshaw, Hanover	Mar. 1	1,500
	Hanover	Roland Thorn, Horton	Mar. 25	9,000
Kalamazoo county:				
Payue Creek	Texas and Antwerp	Geo. H. Murch	Feb. 24	3,000
Hinton Brook	Charleston	D. H. Frazer, Battle Creek	Feb. 27	1,500
Eagle Creek	Charleston	Henry F. Beekman, Battle Creek	Feb. 27	2,000
Stoney Brook	Charleston	Wm. H. Peet, Battle Creek	Feb. 27	2,000
Harrison Creek	Prairie Ronde	P. C. Purcell, Schoolcraft	Mar. 3	1,500
Smith's Creek	Schoolcraft	Geo. W. Smith, Schoolcraft	Mar. 3	3,000
Portage Creek	Pavilion	Robt. B. Cook, Galesburg	Mar. 3	3,000
Boles Creek	Portage	C. L. Davis, Schoolcraft	Mar. 3	1,500
Stewart Creek	Alamo	E. O. Goldsmith, Kalamazoo	Mar. 3	4,500
Frank's Run	Schoolcraft	E. O. Goldsmith, Vicksburg	Mar. 3	3,000
Spring Run	Schoolcraft	E. O. Goldsmith, Vicksburg	Mar. 3	3,000
Cooper Stream	Cooper	Geo. W. Locke, Kalamazoo	Mar. 3	1,500
Travis Creek	Cooper	Geo. A. Allen, Kalamazoo	Mar. 3	2,000
Hampton Brook	Climax and Portage	Dr. Chas. A. Wise, Kalamazoo	Mar. 3	2,000
Hall's Spring Brook	Alamo	Dr. Chas. A. Wise, Kalamazoo	Mar. 3	2,000
Hall's Spring Brook	Alamo	Dr. Chas. A. Wise, Kalamazoo	Mar. 3	2,000
Campbell Creek	Alamo	Dr. Chas. A. Wise, Kalamazoo	Mar. 3	2,000
Portage Creek	Alamo	A. B. Hall, Kalamazoo	Mar. 3	2,000
Axtel Creek	Texas, Portage and Kalamazoo	Henry Hobbs, Kalamazoo	Mar. 3	4,000
Davis Creek	Kalamazoo	Henry Hobbs, Kalamazoo	Mar. 3	2,000
Spring Brook	Kalamazoo and Pavilion	Henry Hobbs, Kalamazoo	Mar. 3	4,000
Abraun Creek	Richland	Albert Doll, Kalamazoo	Mar. 3	3,000
Spring Brook	Alamo and Otsego	Wm. Crispe, Plainwell	Mar. 3	3,000
Arcadia Creek	Cooper	H. B. Smith, Kalamazoo	Mar. 3	3,000
Tracy Creek	Kalamazoo	Edward Kashead, Kalamazoo	Mar. 3	1,500
Gul Creek	Alamo	J. W. Powers, Kalamazoo	Mar. 25	6,000
No name.		A. W. Crane, M. D., Kalamazoo	Mar. 25	3,000
		A. W. Crane, M. D., Kalamazoo	Mar. 25	3,000
Kalkaska county:				
Rapid River	Several	L. N. Spring, Elk Rapids	Mar. 16	3,000
Rapid River	Several	W. W. Morse, Rapid City	Mar. 16	8,000

TWENTY-SEVENTH REPORT—STATE FISHERIES.

TWENTY-SEVENTH REPORT—STATE FISHERIES.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
1911.				
Keweenaw county:				
Garden City Creek	Houghton	Maurice Bandettine, Calumet	May 6	3,000
Buffalo Creek	Grant	Joe Hensley, Calumet	May 6	1,500
Tobacco River	Schoolcraft	Johnson Vivian, Laurium	May 6	3,000
Gratiot River	Allouez	J. C. Vivian, Laurium	May 6	1,500
Mosquito Creek	Grant	W. R. Vivian, Laurium	May 6	2,000
Upper waters Montreal River	Grant	W. R. Vivian, Laurium	May 6	6,000
Number Two Creek	Houghton and Allouez	Nikolas Linton, Pheonix	May 6	3,000
Gratiot River	Houghton and Allouez	J. G. McCollum, Calumet	May 6	4,500
R. C. Blight Creek	Houghton	R. C. Blight, Eagle River	May 6	3,000
Silver Creek	Grant	Charles Brown, Delaware Mine	May 6	3,000
Eagle River	Allouez and Houghton	J. F. Daniel, Laurium	May 6	3,000
Tobacco and Betsy rivers	Sherman	Andrew Jackson, J. A. Johnson, Gay	May 6	3,000
Gatiss Creek	Houghton	Wm. Long, Eagle River	May 6	1,500
Jacobs Creek	Eagle Harbor	Wm. Jackson, Eagle River	May 6	3,000
Old Phoenix Creek	Allouez and Houghton	T. W. Kaiser, Eagle River	May 6	3,000
North American Creek	Allouez	J. W. Seigman, Pheonix	May 6	1,500
Horseshoe Pond	Houghton	Henry Peterson, Pheonix	May 6	3,000
Beaver Dam	Houghton	John Hepting, Pheonix	May 6	3,000
Montreat River	Grant	Keweenaw R. and G. Club, Mohawk	May 6	9,000
Gratiot River	Allouez	Keweenaw R. and G. Club, Mohawk	May 6	7,500
Eagle River	Houghton	Keweenaw R. and G. Club, Mohawk	May 6	6,000
Trap Rock River	Allouez	Keweenaw R. and G. Club, Mohawk	May 6	7,500
The White Birch	Grant	Frank Ruschell, Lake Linden	May 6	3,000
Betsy River	Grant and Sherman	C. L. Webb, Laurium	May 6	1,500
Traverse River	Schoolcraft	Phil Furlong, Laurium	May 6	3,000
Kent county:				
Spring Brook	Lowell	U. B. Williams, Lowell	Feb. 27	1,500
Kinyon Creek	Lowell	U. B. Williams, Lowell	Feb. 27	2,000
Koph Creek	Lowell	U. B. Williams, Lowell	Feb. 27	2,000
Baird Creek	Vergennes	U. B. Williams, Lowell	Feb. 27	2,000
Wright Creek	Vergennes	U. B. Williams, Lowell	Feb. 27	2,000
Cherry Creek	Vergennes and Lowell	U. B. Williams, Lowell	Feb. 27	2,000
Walter's Creek and branches	Vergennes	John Miller, Lowell	Feb. 27	2,000
Honey Creek	Ada	Harry G. Thompson	Feb. 27	2,000
Bear Creek and tributaries	Cannon	Chas. M. Wilson, M. D., Cannonsburg	Mar. 7	6,000
Duke Creek	Nelson, Solon, etc	F. E. Shattuck, Sand Lake	Mar. 7	6,000
Maston Creek	Spencer	D. M. Boss, Silver Lake	Mar. 7	3,000
Spring Creek	Solon	David Curtis, Sand Lake	Mar. 7	1,500
Zoppa Creek	Nelson	Earl Rasco, Sand Lake	Mar. 7	3,000
Little Cedar Creek	Nelson, Courtland and Algoma	R. B. Cawthorpe, Cedar Springs	Mar. 7	4,500
Big Cedar Creek	Wilson and others	R. B. Cawthorpe, Cedar Springs	Mar. 7	1,500
Stegman Creek	Courtland	R. C. Cawthorpe, Cedar Springs	Mar. 7	4,500
Dop Creek	Solon	R. C. Cawthorpe, Cedar Springs	Mar. 7	4,500
Spring Creek	Solon	R. C. Cawthorpe, Cedar Springs	Mar. 7	4,500
Beeker Creek	Courtland	R. C. Cawthorpe, Cedar Springs	Mar. 7	4,500
Austin Creek	Courtland	R. C. Cawthorpe, Cedar Springs	Mar. 7	3,000
Chalmers Creek	Courtland and Algoma	Geo. E. Rector, Edgerton	Mar. 7	1,500
Rector Creek	Common	Chas. Armstrong, Cannonsburg	Mar. 7	1,500
Bear Creek	Tyrone	Arthur Miller, Bailey	Mar. 7	3,000
Posts Creek	Tyrone	Peter Richter, Bailey	Mar. 7	1,000
English Creek	Tyrone	L. Gold, Bailey	Mar. 7	2,000
Finlay Creek	Tyrone	Freeman Addis, Harvard	Mar. 7	1,000
Crinion Creek	Oakfield	Alonzo Griswold, Cedar Springs	Mar. 16	3,000
Butternut Creek	Spencer	Alonzo Griswold, Cedar Springs	Mar. 16	3,000
Hutchins Creek	Oakfield	Alonzo Griswold, Cedar Springs	Mar. 16	3,000
Livingston county:				
Burnham Creek	Brighton	B. T. O. Clark, Brighton	Mar. 3	1,500
Peaches' Creek	Green Oak	B. T. O. Clark, Brighton	Mar. 3	1,500
Stewart Creek	Hamburg	B. T. O. Clark, Brighton	Mar. 3	1,500
Bishop's Creek	Green Oak	B. T. O. Clark, Brighton	Mar. 3	1,500
Beech Creek	Brighton	B. T. O. Clark, Brighton	Mar. 3	1,500
Ore Creek	Brighton	B. T. O. Clark, Brighton	Mar. 3	1,500
McDonnell's Creek	Hartland, Brighton and Hamburg	B. T. O. Clark, Brighton	Mar. 3	1,500
Walker's Creek	Brighton	B. T. O. Clark, Brighton	Mar. 3	3,000
Woodruff Creek	Genoa and Hamburg	B. T. O. Clark, Brighton	Mar. 3	2,000
Welchert Creek	Hartland and Brighton	B. T. O. Clark, Brighton	Mar. 3	3,000
Branch of Ore Creek	Genoa and Hamburg	B. T. O. Clark, Brighton	Mar. 3	4,000
	Hartland and Osceola	B. T. O. Clark, Brighton	Mar. 3	2,000
	Hartland and Osceola	G. B. Merrill, Oak Grove	Mar. 3	2,000
Lapeer county:				
Hunter's Creek	Lapeer and Metamora	Mathias Caley, Lapeer	Mar. 14	4,500
Miller Creek	Deerfield and Rich	E. J. Thresher, Lapeer	Mar. 14	4,500
Carpenter Creek	Mayfield	E. J. Thresher, Lapeer	Mar. 14	3,000
Headwaters of Mill Creek	Attica, Arcadia and Goodland	E. J. Thresher, Lapeer	Mar. 14	6,000
Lenawee county:				
North Branch of Evans Creek	Franklin	A. B. Wisner, Chicago	Feb. 27	3,000
Leelanau county:				
Victoria Creek	Solon	Elmer Billman, Cedar City	Mar. 17	9,000
Mosso's Creek	Suttons Bay	D. H. Power, Suttons Bay	May 5	10,000
Lake county:				
Cedar Creek		Geo. M. Brown, Detroit	Mar. 9	15,000
Danaher Creek		A. H. Morley, Saginaw	Mar. 9	7,500
Bowman Creek		Geo. Grant, Saginaw	Mar. 9	3,000
Sauble River		C. Hagerman, Ludington	Mar. 9	15,000
Blood's Creek	Elk, Freesoil and Sheridan	C. Hagerman, Ludington	Mar. 11	3,000
Pere Marquette River and tributaries	Pleasant Plains	W. B. Mershon, Saginaw	Mar. 9	22,500
Tank Creek	Pleasant Plains and Lake	W. R. Humphrey, Saginaw	Mar. 9	3,000
Pere Marquette River	Elk	W. R. Humphrey, Saginaw	Mar. 9	22,500
Baker Creek	Cherry Valley	W. R. Humphrey, Saginaw	Mar. 9	4,500
Lorse Creek	Cherry Valley	Pere Marquette Trout Club	Mar. 9	3,000
Sanborn or Farnsworth Creek	Cherry Valley	Pere Marquette Trout Club	Mar. 9	3,000
Middle branch Pere Marquette River	Webber, Cherry Valley and Pinora	C. A. Kantz, Nirvana	Mar. 9	6,000
Sauble River	Cherry Valley	G. W. Baylis, Mt. Pleasant	Mar. 9	12,000
	Elk, Freesoil and Sheridan	H. W. Marsh, Manistee	Mar. 10	20,000

TWENTIETH REPORT—STATE FISHERIES.

TWENTIETH REPORT—STATE FISHERIES.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
1911.				
Lake county.—Continued.				
Pine and Little Manistee Rivers	Ellsworth, Newkirk and Dover	H. W. Marsh, Manistee	Mar. 10	37,500
Pine and Little Manistee Rivers	Ellsworth, Newkirk and Dover	Geo. Cutler, Luther	Mar. 10	37,500
Bloody Run Creek and Big Sauble River	Elk	Wm. Utter, Peacock	Mar. 11	15,000
Little Manistee River	Webber and Elk	Hon. H. D. Jewell, Grand Rapids	Mar. 11	37,500
Baldwin Creek	Pleasant Plains	Geo. T. Duffing, Baldwin	Mar. 13	16,000
Danaher Creek	Pleasant Plains	Geo. T. Duffing, Baldwin	Mar. 13	6,000
Sanborn Creek	Pleasant Plains and Cherry Valley	Geo. T. Duffing, Baldwin	Mar. 13	8,000
Erickson and Peas Creeks	Cherry Valley	J. H. Booth, Reed City	Mar. 13	6,000
Luce county:				
West Branch of Large River	Pentland	W. J. Hanson, Rexton	April 1	3,000
Headwaters of Tahquamenon River	Columbus	H. A. Heidelbreicht, McMillan	May 15	6,000
Cypione Creek	Columbus	H. A. Heidelbreicht, McMillan	May 15	3,000
Two Heart Creek	McMillan	R. C. Bradley, Newberry	May 17	10,500
Linton Creek	48 N. of R. 8 W.	W. S. Linton, Saginaw	May 17	1,500
Murphy Creek	47 N. R. 8, 9, 10 W.	W. S. Linton, Saginaw	May 17	6,000
Headwaters of Tahquamenon River	Columbus	W. G. Fretz, Newberry	May 17	7,500
Laketon Creek	Columbus and Lakefield	H. K. Skinner, McMillan	May 19	3,000
East Creek	Columbus	H. K. Skinner, McMillan	May 19	3,000
Mackinac county:				
Headwaters of Sage River	Hendricks	Wm. Hensen, Rexton	April 1	7,500
Headwaters of Millecoquin River	44-10	W. G. Fretz, Newberry	May 17	4,500
Marquette county:				
Branches of Dead River	Marquette	H. A. St. John, Marquette	April 15	3,000
Whitefish River	Skandia	H. A. St. John, Marquette	April 15	9,000
Little Dead River	Ishpeming and Eby	H. A. St. John, Marquette	April 15	3,000
West Branch of Laughing Whitefish	H. A. St. John, Marquette	H. A. St. John, Marquette	April 15	1,500
South Branch of Wilson Creek	H. A. St. John, Marquette	H. A. St. John, Marquette	April 15	3,000
Silver Creek	Marquette	H. A. St. John, Marquette	April 15	1,500
Cherry Creek	Marquette	H. A. St. John, Marquette	April 15	3,000
Big Creek	Marquette	H. A. St. John, Marquette	May 15	3,000
Bear Creek	Powell	H. A. St. John, Marquette	May 15	3,000
Pickarel Lake Creek	Marquette	H. A. St. John, Marquette	April 15	4,500
Reany Creek	Marquette	H. A. St. John, Marquette	April 15	3,000
Yellow Dog Creek and branches	Powell	H. R. Harris, Marquette	April 15	3,000
Alder Creek	Powell	H. R. Harris, Marquette	April 15	4,500
The Rap	Powell	H. R. Harris, Marquette	April 15	3,000
Wilson Creek	Powell	H. R. Harris, Marquette	April 15	4,500
Garlick River	Powell	H. R. Harris, Marquette	April 15	9,000
Chocolay River and branches	West Branch	J. D. Spitzer, Ishpeming	April 15	7,500
W. Branch of the W. Branch of the Escanaba River	Humboldt and Ely	Geo. A. Newett, Ishpeming	April 15	4,500
Deer Creek	Ishpeming	Geo. A. Newett, Ishpeming	April 15	4,500
Wableman's Creek	Ishpeming and Negaunee	Geo. A. Newett, Ishpeming	April 15	4,500
Missaukee county:				
West Branch Muskegon River	West Branch	J. F. Stevens, Lake City	Mar. 18	6,000
Fier Creek	Pioneer and Bloomfield	F. H. Reeder, Lake City	Mar. 18	4,500
Hopkins Creek	Caldwell and Bloomfield	C. H. Bostick, Manton	Mar. 18	7,500
Golden Creek	Caldwell	C. H. Bostick, Manton	Mar. 18	3,000
Chase Creek	Caldwell and Liberty	C. H. Bostick, Manton	Mar. 18	3,000
Morse Creek	Caldwell	C. H. Bostick, Manton	Mar. 18	3,000
Hopkins Creek	Forest and Bloomfield	Warrn Jones, Lake City	Mar. 18	3,000
Butterfield Creek	Butterfield, Etna and Reeder	L. B. Proctor, Lake City	Mar. 18	6,000
Mosquito Creek	Reeder	Geo. B. Farmer, Lake City	Mar. 18	3,000
Mosquito Creek	Reeder and Riverside	F. M. Nye, Lake City	Mar. 18	3,000
Ropes Creek				
Escanaba River	Ishpeming and Eby	Geo. A. Newett, Ishpeming	April 15	7,500
Mullin's Creek	Ishpeming, Eby and Humboldt	Geo. A. Newett, Ishpeming	April 15	6,000
Teal Lake Inlets	Negaunee	Geo. A. Newett, Ishpeming	April 15	7,500
Dead River	Ishpeming and Marquette	Negaunee R. and G. Club, Negaunee	April 15	1,500
Carp River	Ishpeming and Negaunee	Negaunee R. and G. Club, Negaunee	April 15	7,500
Morgan Creek	Negaunee	Negaunee R. and G. Club, Negaunee	April 15	6,000
Tributaries to Horseshoe Lake	Negaunee	Negaunee R. and G. Club, Negaunee	April 15	1,500
Tributaries to Section Twenty-one Lake	Negaunee	Negaunee R. and G. Club, Negaunee	April 15	3,000
East Branch and Tributaries of Escanaba River	Negaunee	Negaunee R. and G. Club, Negaunee	April 15	1,500
Bear Creek	Forsythe	G. R. Jackson, Princeton	April 15	6,000
Green Creek	Tilden, Richmond and Forsythe	G. R. Jackson, Princeton	April 15	3,000
Halfway Creek	Forsythe	G. R. Jackson, Princeton	April 15	3,000
Escanaba River	Forsythe	J. I. Kelton, Princeton	April 15	3,000
Spruce River	Republic	C. W. Munson, Republic	April 15	6,000
W. Branch Escanaba River	Ely	C. W. Munson, Republic	April 20	6,000
Michigamme River	Republic	C. W. Munson, Republic	April 20	12,000
Beaver Creek	Republic	C. W. Munson, Republic	April 20	4,500
Midway Creek	Republic	C. W. Munson, Republic	April 20	6,000
Gramat Creek	Republic	C. W. Munson, Republic	April 20	6,000
Black River	Humboldt and Republic	C. W. Munson, Republic	April 20	4,500
Spruce River	Michigamme	C. W. Munson, Republic	April 20	6,000
Captain's Creek	Republic	Peter Dolf, Michigamme	April 21	6,000
Olsen's Creek	Republic	H. R. Gamble, Republic	April 21	4,500
Camp 5 Creek	Humboldt	B. Bengston, Republic	April 21	3,000
Trout Falls Creek	Republic	B. Bengston, Republic	April 21	6,000
Cass Creek	Republic	B. Bengston, Republic	April 21	3,000
Hunter's Brook	41-42 R. 24	E. S. Voght, Escanaba	April 25	4,500
Spruce River	Michigamme and Republic	C. F. Sundstrom, Michigamme	April 26	7,500
Fence River	Michigamme and Republic	C. F. Sundstrom, Michigamme	April 26	7,500
Harlow's Creek	Marquette	F. G. Jenks, Marquette	May 10	7,500
Headwaters of Garlic Creek	Marquette	F. H. Begole, Marquette	May 10	7,500
Craig's Creek	Sands	J. E. Boll, Marquette	May 10	4,500
Tributaries of Chocolay River	Marquette	F. H. Begole, Marquette	May 10	4,500
Camp Creek	Marquette	C. E. Carr, Marquette	May 10	6,000
Little Carp Creek	Marquette	J. W. Spear, Marquette	May 10	6,000
Foster's Creek	Marquette	J. W. Spear, Marquette	May 10	6,000
Nelson Creek	Chocolay	E. C. Giesregen, Marquette	May 10	7,500
Cedar Creek	Chocolay	E. C. Giesregen, Marquette	May 10	7,500
Silver Creek	Chocolay	E. C. Giesregen, Marquette	May 10	7,500
Cherry Creek	Chocolay and Sands	W. S. Ewing, Harvey	May 10	0,000
	Chocolay	W. S. Ewing, Harvey	May 10	9,000

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Missaukee county.—Continued.				
Taylor Creek	Butterfield and Aetna.	F. M. Nye, Lake City	1911.	
West Branch of Muskegon River	Forest and West Branch	Henry Plummer, Lake City	Mar. 18	3,000
Clam River	Riverside and others	Hon. C. A. Brott, South Boardman	Mar. 18	6,000
No name.	Clam and Union	Hiram Scheepers, Vogel Center	Mar. 21	12,000
Cranberry Creek	Clam and Union	Hiram Scheepers, Vogel Center	Mar. 21	3,000
			Mar. 21	3,000
Montmorency county:				
Brush Creek	Hillman	W. E. Lake, Hillman	Mar. 13	6,000
Anchor Creek	Hillman	T. B. Johnson, Hillman	Mar. 13	3,000
North Branch Thunder Bay River	Montmorency and Long Lake	W. H. Farrier, Hillman	Mar. 13	10,500
Sucker Creek	Hillman	Austin Rea, Hillman	Mar. 13	3,000
Gilchrist Creek	Rust	Austin Rea, Hillman	Mar. 13	4,500
Tributaries to Thunder Bay River	Hillman	Austin Rea, Hillman	Mar. 13	6,000
Royston Creek	Montmorency	Wm. A. Cannon, Royston	Mar. 13	6,000
Miller Creek	Rust and Hillman	G. A. Murphy, Hillman	Mar. 13	7,500
Big Black River	Several	Gaylord Fishing Club, Gaylord	Mar. 15	21,000
Middle Branch Au Sable River	Albert, Elmer and Maple Grove	Geo. Sachs, Lewiston	Mar. 21	3,000
Sheridan Creek	Albert	Geo. Sachs, Lewiston	Mar. 21	6,000
Hunt Creek	Albert and Rust	Geo. Sachs, Lewiston	Mar. 21	6,000
Middle Branch of Big Creek	20 1 E. and 27 and 28 1 W	Geo. Sachs, Lewiston	Mar. 21	6,000
Menominee county:				
East Branch Shaky River	Holmes and Stephenson	F. H. Schmidt, Swanson	April 11	6,000
Holmes Creek	Holmes	Martin Farrell, Faithorn	April 11	3,000
Black Creek	Holmes	Geo. Kroehneke, Vulcan	April 11	3,000
Hay Creek	Holmes	Geo. Kroehneke, Vulcan	April 11	3,000
Cedar River and tributaries	Spaulding	N. Peterson, Spaulding	April 11	3,000
Quade Creek	Spaulding	Chas. J. Quade, Powers	April 11	15,000
Dirkman Creek	Spaulding	J. Archibald, Powers	April 11	3,000
Ten Mile Creek	Spaulding	C. B. Wheeler, Powers	April 11	3,000
Wheeler Creek	Spaulding	C. B. Wheeler, Powers	April 11	4,500
North Branch Cedar River	Spaulding	Irving Brim, Powers	April 11	1,500
Hay Creek	Spaulding	A. P. Gibbs, Powers	April 11	6,000
Wilson Creek	Wilson	Ed. Ehlers, Powers	April 11	6,000
Reed's Creek	Spaulding	C. P. Walton, P. M., Daggett	April 11	6,000
Big Brook	Stephenson	E. Perrigo, Daggett	April 11	3,000
Holmes Creek	Stephenson	J. Thorpe Stephenson	April 11	6,000
Big Brook	Stephenson and Cedarville	J. H. Loomis, Hermansville	April 11	3,000
Camp Seven Creek	Meyer	J. D. Hayes, Hermansville	April 11	1,500
Camp Twenty-five Creek	Meyer	J. D. Hayes, A. J. Kramer, Hermansville	April 11	1,500
Gunard's and Vesper Creeks	Meyer	J. D. Hayes, A. J. Kramer, Hermansville	April 11	3,000
Little Cedar River	Meyer	J. D. Hayes, Hermansville	April 11	3,000
Inlet to Hermansville Pond	Meyer	J. D. Hayes, Hermansville	April 11	3,000
Camp Two Creek	Meyer	E. R. Radford, Hermansville	April 11	1,500
Montcalm county:				
Chapin Creek	Ferris	J. W. Johnson, Elmhall	Mar. 6	3,000
Inlet to Mud Lake	Ferris	Alfred Johnson, Riverdale	Mar. 6	1,500
Sackett's Creek	Home	F. E. Curtis, Edmore	Mar. 6	4,500
Wolf Creek	Highland and Home	F. E. Curtis, Edmore	Mar. 6	4,500
South Branch of Pine River	Richard	F. E. Curtis, Edmore	Mar. 6	4,500
Black Creek	Pierson, Maple Valley, Spencer and Lincoln Lake	F. E. Shattuck, Sand Lake	Mar. 7	7,500
Grant Creek	Pierson	Alvin R. Brown, Sand Lake	Mar. 7	1,500
Carpenter Creek	Pierson	Wayne Carpenter, Sand Lake	Mar. 7	1,500
Bruce Creek	Winfield	Grant V. Fuins, Howard City	Mar. 7	1,500
Whitefish Creek	Reynolds	J. G. Buck, Howard City	Mar. 7	4,500
Church Creek	Winfield	J. A. Collins, Howard City	Mar. 7	3,000
Indian Creek	Reynolds	W. H. Lovely, Howard City	Mar. 7	3,000
Ryan Creek	Reynolds	W. H. Lovely, Howard City	Mar. 7	3,000
Little Muskegon River	Reynolds	W. H. Lovely, Howard City	Mar. 7	3,000
Handy and Fosal Creeks	Winfield	W. H. Lovely, Howard City	Mar. 7	3,000
Rice Creek	Winfield	W. H. Lovely, Howard City	Mar. 7	3,000
Broderick Creek	Pierson and Reynolds	W. H. Lovely, Howard City	Mar. 7	9,000
West Lake Creek	Pine	W. H. Lovely, Howard City	Mar. 7	9,000
West Branch Creek	Pine	F. D. Briggs, Langston	Mar. 7	3,000
Kortes Creek	Pine	F. D. Briggs, Langston	Mar. 8	1,500
Inlet to Muscallonge Lake	Pine	F. D. Briggs, Langston	Mar. 8	3,000
Little Penny or Cedar Creek	Pine	F. D. Briggs, Langston	Mar. 8	3,000
Dixon Creek	Belvidere, Douglas and Day	Jensen Bros., Trufant	Mar. 8	3,000
Castle's Creek	Fairplains	M. A. Drallette, Weidman	Mar. 8	1,500
Deer's Creek	Bushnell	E. E. Brown, Shiloh	Mar. 8	3,000
Fish Creek	Bushnell	Herbert Edwards, Fenwick	Mar. 8	7,500
Prairie Creek	Evergreeo	Freeman Taylor, Sheridan	Mar. 8	1,500
Horton Creek	Bushnell	Robert Evans, Stanton	Mar. 8	3,000
Horton Creek	Montcalm	B. L. Goodsell, Vickeryville	Mar. 16	7,500
Wilcox Creek	Montcalm	Geo. C. Bower, Greenville	Mar. 22	4,000
Snaky Run	Eureka	Henry Paulsen, Gowen	Mar. 22	3,000
Turk Lake Creek	Eureka	F. J. Cole, Greenville	Mar. 22	3,000
Rocky River	Montcalm	F. J. Cole, Greenville	Mar. 22	3,000
	Eureka	E. A. Kemp, Greenville	April 13	3,000
		Fred J. Cole, Greenville	Mar. 22	3,000
Muskegon county:				
Skeel's Creek	Holton and Greenwood	J. A. Gerber, Fremont	Mar. 6	3,000
Flower Creek	White River	J. B. Aveline, Montague	Mar. 6	4,000
Little Flower Creek	Montague	Wm. T. Kroil, Montague	Mar. 6	2,000
White River and creek	White River	Prof. J. A. Sadony, Montague	Mar. 6	1,000
Smith Creek	Montague	Otto J. Olsen, Montague	Mar. 6	1,000
Sand Creek	Grant and Montague	A. F. Casselman, Montague	Mar. 6	2,000
Carleton Creek	Grant and Montague	A. F. Casselman, Montague	Mar. 6	6,000
Streams on Sections 4 and 5	Fruitland	Alfred Burland, Whitehall	Mar. 6	6,000
Birch Brook	Fruitland	Alfred Burland, Whitehall	Mar. 6	1,500
The Millpond Inlet	Whitehall	Alfred Burland, Whitehall	Mar. 6	1,500
Silver Creek	Blue Lake and Whitehall	Alfred Burland, Whitehall	Mar. 6	1,500
Duck Creek	Dalton and Fruitland	E. D. Magoon, Muskegon	Mar. 6	6,000
Little Bear Creek	Dalton, Laketon and Muskegon	E. D. Magoon, Muskegon	Mar. 6	4,500
Little Black Creek	Muskegon	E. D. Magoon, Muskegon	Mar. 6	3,000
Green's Creek	Fruitland and Laketon	E. D. Magoon, Muskegon	Mar. 6	3,000
		E. D. Magoon, Muskegon	Mar. 6	3,000

TWENTIETH REPORT—STATE FISHERIES.

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County and name of water.	Township.	Applicant or depositor.	Date.	Number.
1911.				
Muskegon county.—Continued.				
Big Black Creek	Muskegon	E. D. Magoon, Muskegon	Mar. 6	8,000
Mosquito Creek	Eggleson	E. D. Magoon, Muskegon	Mar. 6	4,500
Cleveland Creek	Blue Lake	E. D. Magoon, Muskegon	Mar. 6	4,000
Ryerson Creek	Muskegon	E. D. Magoon, Muskegon	Mar. 6	3,000
Norris Creek	Muskegon	E. D. Magoon, Muskegon	Mar. 6	8,000
Lake Creek	Ravenna, Sullivan and Fruitland	E. D. Magoon, Muskegon	Mar. 11	2,000
Crockery Creek and tributaries	Casnovia	Elijah Bearss, Sr., Bailey	Mar. 11	6,000
Moore's Creek	Casnovia	Elliott T. Slocum, Detroit	Mar. 11	1,000
Piran's Creek	Casnovia	J. O. Fraleigh, Casnovia	Mar. 11	2,000
Barnes Creek	Casnovia	J. O. Fraleigh, Casnovia	Mar. 11	2,000
Heard's Creek	Casnovia	J. O. Fraleigh, Casnovia	Mar. 11	1,000
Merkes Creek	Casnovia	J. O. Fraleigh, Casnovia	Mar. 11	1,000
Gilbert's Creek	Casnovia	J. O. Fraleigh, Casnovia	Mar. 11	1,000
Bateman Creek	Casnovia	J. O. Fraleigh, Casnovia	Mar. 11	1,000
Comstock Creek	Casnovia	J. O. Fraleigh, Casnovia	Mar. 11	1,000
Cedar Creek	Casnovia	C. L. Gold, Bailey	Mar. 11	1,000
Cedar Creek	Holton and Cedar Creek	S. L. Skeels, Holton	Mar. 23	7,500
Wolf Creek	Holton	Richard J. Patelski, Holton	Mar. 23	7,500
	Ravenna	H. A. Muzzall, Coopersville	Mar. 27	3,000
Mecosta county:				
Ryan Creek	Collfax	W. H. Redman, Big Rapids	Mar. 7	6,000
Mack's Creek	Austin and Mecosta	F. W. Chilson, Stanwood	Mar. 7	1,500
Bennett Creek	Mecosta and Austin	J. B. Campbell, Stanwood	Mar. 7	1,500
Clear Brook Creek	Mecosta	C. F. Barnard, Stanwood	Mar. 7	1,500
East Branch of Big Creek	Mecosta	Geo. F. Haist, Morley	Mar. 7	4,000
Quigley Creek	Actna and Deerfield	Geo. F. Haist, Morley	Mar. 7	3,000
No name	Deerfield	Isaac Laird, Morley	Mar. 7	3,000
Mitchell Creek	Deerfield	Isaac Laird, Morley	Mar. 7	1,500
Hornor Creek	Actna	Wm. Crook, Morley	Mar. 7	2,000
Big Creek	Deerfield	Ira Helms, Morley	Mar. 7	2,000
Tributaries to Little Muskegon River	Actna and Deerfield	J. D. McManus, Morley	Mar. 7	5,000
Tompkins Creek	Hinton	A. M. Cook, Howard City	Mar. 7	1,500
Seaton's Creek	Hinton	John Wright, Lakeview	Mar. 8	3,000
Sylvester Creek	Hinton	John Wright, Lakeview	Mar. 8	3,000
Scott Creek	Millbrook	Alex. Tompkins	Mar. 8	4,500
Decker Creek	Millbrook and Rolland	Roger Scott, Blanchard	Mar. 8	1,500
Pine River	Millbrook	Roger Scott, Blanchard	Mar. 8	3,000
Pine River	Millbrook	T. O. Pattison, Millbrook	Mar. 8	4,500
West Branch of Pine River	Wheatland	J. M. Swisher, Remus	Mar. 8	3,000
Poney Creek	Wheatland	J. M. Swisher, Remus	Mar. 8	1,500
Little Muskegon River	Wheatland and Broomfield	P. J. Theisen, Remus	Mar. 8	7,500
Binger Creek	Wheatland and Morton	P. J. Theisen, Remus	Mar. 8	7,500
Indian Creek	Wheatland	P. J. Theisen, Remus	Mar. 8	3,000
Dead Stream	Wheatland and Sherman	Geo. Colgrove, Remus	Mar. 8	3,000
Little Muskegon River	Morton	John Snyder, Mecosta	Mar. 8	1,500
Shingle Bolt Creek	Morton	Frank O. Redick, Mecosta	Mar. 8	7,500
Cold Creek	Morton and Hinton	Arthur Royce, Altona	Mar. 8	3,000
	Morton	John O'Brien, Mecosta	Mar. 8	1,500
Manistee county:				
Gilbert Creek	Morton	Ray Carman, Mecosta	Mar. 8	4,500
Pointer Creek	Morton and Wheatland	Ray Carman, Mecosta	Mar. 8	3,000
Schroeder Creek	Hinton	Ray Carman, Mecosta	Mar. 8	3,000
Benjamin Creek	Fork	W. S. Laffin, Barryton	Mar. 8	2,000
Brown Creek	Fork	W. S. Laffin, Barryton	Mar. 8	1,000
Farmer Creek	Fork	W. S. Laffin, Barryton	Mar. 8	2,000
Butts Creek	Sheridan	W. S. Laffin, Barryton	Mar. 8	4,000
Rattall Creek	Fork	W. S. Laffin, Barryton	Mar. 8	2,000
Isahart Creek	Fork	W. S. Laffin, Barryton	Mar. 8	4,000
Tanner Creek	Fork	W. S. Laffin, Barryton	Mar. 8	2,000
Paris, Sandberg, Hall's and Herrick Creeks	Sheridan	W. S. Laffin, Barryton	Mar. 8	1,000
Little and Big Buckhorn Creeks and Cherry Creek	Green	W. S. Laffin, Barryton	Mar. 8	5,000
	Mecosta	Michigan Fish Commission	Mar. 25	14,500
		Michigan Fish Commission	Mar. 25	30,000
Macomb county:				
Stony Creek	Avon	F. Gillespie, Romeo	Mar. 1	3,000
Silver Creek	Bruce	F. Gillespie, Romeo	Mar. 1	2,000
Smith's Creek	Several	F. Gillespie, Romeo	Mar. 1	2,000
Hilton's Creek	Washington	H. W. Bradley, Romeo	Mar. 1	1,500
Hosner's Creek	Bruce	H. W. Bradley, Romeo	Mar. 1	1,500
Troop's Creek	Bruce	H. W. Bradley, Romeo	Mar. 1	1,500
Benjamin's Creek	Washington	H. W. Bradley, Romeo	Mar. 1	1,500
Manistee county:				
Claybank Creek	Maple Grove	T. A. Brown, East Lake	Mar. 9	6,000
Beaver Creek	Stronach and Brown	T. G. Trimble, Manistee	Mar. 17	4,000
Pine Creek	Marilla, Maple Grove, and Brown	T. G. Trimble, Manistee	Mar. 17	8,000
Cedar Creek	Bear Lake and Maple Grove	T. G. Trimble, Manistee	Mar. 17	6,000
Kaiser Creek	Springdale and Maple Grove	T. G. Trimble, Manistee	Mar. 17	3,000
Big Bear Creek	Springdale	Roy Marker, Bear Lake	Mar. 17	15,000
Cedar Creek	Springdale	Roy Marker, Bear Lake	Mar. 17	6,000
Wells Creek	Springdale	Roy Marker, Bear Lake	Mar. 17	2,000
Little Bear Creek	Springdale	Roy Marker, Bear Lake	Mar. 17	6,000
Green's Creek	Springdale	Roy Marker, Bear Lake	Mar. 17	2,000
Green Creek	Springdale	Roy Marker, Bear Lake	Mar. 17	6,000
Welch Creek	Springdale	Roy Marker, Bear Lake	Mar. 17	2,000
Hatch's Creek	Springdale	Hans Peterson, Bear Lake	Mar. 17	2,000
Bear Creek	Cleon and Springdale	J. P. Maise, Bear Lake	Mar. 17	2,000
Wilson Creek	Springdale, Maple Grove and Brown	F. A. Mitchell, Manistee	Mar. 17	16,000
Chief Creek	Brown	Peter Schneider, Chief	Mar. 17	30,000
Leonard's Creek	Brown	Peter Schneider, Chief	Mar. 17	2,000
Schroeder's Creek	Onekama	Hans A. Wendell, Onekama	Mar. 17	2,000
Wendt's Creek	Onekama	Hans A. Wendell, Onekama	Mar. 17	1,000
Hanson's Creek	Onekama	Hans A. Wendell, Onekama	Mar. 17	1,000
Carlton Creek	Onekama	Hans A. Wendell, Onekama	Mar. 17	1,000
Schultz Creek	Onekama	Hans A. Wendell, Onekama	Mar. 17	1,000
	Onekama and Bear Lake	Hans A. Wendell, Onekama	Mar. 17	1,000
Mason county:				
Quinn Creek	Summit and Riverton	C. F. Lewis, Pentwater	Mar. 6	3,000
Dickerson Creek	Summit and Riverton	C. F. Lewis, Pentwater	Mar. 6	3,000
Toa's Creek	Grant	Hugo Olson, Friesland	Mar. 6	1,000
No. One Creek	Eden & Custer	Jerry M. Cable, Custer	Mar. 6	3,000
Swan Creek	Eden & Riverton	D. S. Betka, Scottville	Mar. 9	5,000
South Lincoln River	Victory & Sherman	D. S. Betka, Scottville	Mar. 9	6,000

TWENTIEETH REPORT—STATE FISHERIES.

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County and name of water.	Township.	Applicant or depositor.	Date.	Number.
1911.				
Newaygo county:				
Martin's Creek	Denver	W. D. Sargeant, Fremont	Mar. 7	4,500
Dowling Creek	Lincoln	W. D. Sargeant, Fremont	Mar. 7	4,500
Cushman Creek	Greenwood	J. A. Gerber, Fremont	Mar. 7	4,500
Minnie Creek	Bridgeton	J. A. Gerber, Fremont	Mar. 7	3,000
Williams Creek	Sherman and Garfield	J. A. Gerber, Fremont	Mar. 7	4,500
Flander's Creek	Denver	Geo. R. Lyons, Hesperia	Mar. 7	1,500
West Branch Martin Creek	Denver	Geo. R. Lyons, Hesperia	Mar. 7	4,500
Frey Creek	Ensley	David Curtis, Sand Lake	Mar. 7	3,000
Reynolds Creek	Ensley	David Curtis, Sand Lake	Mar. 7	1,500
Rosey Run	Ensley	H. M. Gibbs, Howard City	Mar. 7	4,500
Simpson Creek	Ensley	Jas. Simpson, Sand Lake	Mar. 7	1,500
Ryao Creek	Croton	J. Odell Nelson, Howard City	Mar. 7	3,000
Bigelow, Coolbough and Penoyer Creeks	Brooks and East	S. D. Thompson, Newaygo	Mar. 11	12,000
Post's, Barnum and Isenhart Creeks	Grant and Ashland	A. J. Elias, Grant	Mar. 11	6,000
Penoyer Creek	Grant and Ashland	S. D. Bonner, Newaygo	Mar. 11	4,500
Kinney Creek	Monroe	D. Matheson, White Cloud	Mar. 11	3,000
Mattson Creek	Monroe	Geo. E. Whitman, White Cloud	Mar. 11	3,000
Miller Creek	Wilson	Geo. E. Whitman, White Cloud	Mar. 11	3,000
Five Mile Creek	Wilcox	W. S. Barton, White Cloud	Mar. 11	3,000
Little South Creek	T. 16, 12 and 13, 17-13.	C. Hagerman, Ludington	Mar. 11	9,000
White River	Wilcox	Branch Bros., White Cloud	Mar. 11	9,000
Tank Creek	Home	P. Christensen, Bately	Mar. 11	3,000
Little South Branch	Home	P. Christensen, Bately	Mar. 11	3,000
Cedar Creek	Troy	P. Christensen, Bately	Mar. 11	4,500
Mullin Creek	Wilcox	R. C. Easley, Fremont	Mar. 11	3,000
Inlet of Little Robinson Lake	Sherman	Fred Daenzer, White Cloud	Mar. 11	1,500
White River	Wilcox	W. D. Hopkinson, Big Rapids	Mar. 11	9,000
Ashland Creek	Ashland and Casnovia	C. L. Gold, Bailey	Mar. 11	1,000
Isenhart Creek	Ashland	C. L. Gold, Bailey	Mar. 11	1,000
Cedar Creek	Several	Wm. Pomeroy, Holton	Mar. 23	10,000
Manchip Creek	Monroe	Jas. C. Russell, Woodville	Mar. 23	3,000
Townes Creek	Monroe and Wilcox	Jas. C. Russell, Woodville	Mar. 23	3,000
Norton Creek	Goodwell	Glen Bullman, Woodville	Mar. 23	3,000
Foxville Creek	Stonroe	John W. Orth, Woodville	Mar. 23	1,500
Peas Creek and Pere Marquette River tributaries	Norvell, Barton and Home	Michigan Fish Commission	Mar. 25	50,000
Oakland county:				
Waters of the Thread	Groveland	Chas. P. Green, Davisburg	Mar. 1	2,500
Shiawassee Creek	Springfield	F. C. Ely, Davisburg	Mar. 1	1,500
Pettibone Creek	Springfield	F. C. Ely, Davisburg	Mar. 1	3,000
Dunlap Creek	Milford	F. B. Hatch, Milford	Mar. 10	3,000
Harris Creek	Oxford	M. L. Miller, Oxford	Mar. 14	1,000
Duck Creek	Cleveland	A. P. Button, Ortonville	Mar. 14	2,000
Paint Creek tributaries	Brandon	A. P. Button, Ortonville	Mar. 14	2,000
No name	Avon and Oakland	G. R. Chapman, Rochester	Mar. 14	6,000
	Springfield	J. W. Autand, Davisburg	Mar. 25	3,000
Oscoda county:				
Meyers Creek	Golden	Frank T. Sloan, Mears	Mar. 6	1,500
Wright Creek	Golden	Frank T. Sloan, Mears	Mar. 6	3,000
Webb Creek	Golden	Frank T. Sloan, Mears	Mar. 6	1,500
Craig Creek	Golden	Frank T. Sloan, Mears	Mar. 6	3,000
Knapp Creek	Golden	Frank T. Sloan, Mears	Mar. 6	3,000
Graff Creek	Golden	Frank T. Sloan, Mears	Mar. 6	3,000
Miles Creek	Golden	Frank T. Sloan, Mears	Mar. 6	1,500
Silver Lake Creek	Golden and Benona	E. A. Post, Mears	Mar. 6	1,500
Weaver Creek	Golden	E. A. Post, Mears	Mar. 6	1,500
Park Creek	Golden	E. A. Post, Mears	Mar. 6	3,000
Harris Creek	Golden	E. A. Post, Mears	Mar. 6	1,500
Hunter Creek	Golden	E. A. Post, Mears	Mar. 6	1,500
Nelson Creek	Golden	E. A. Post, Mears	Mar. 6	3,000
Morley Creek	Golden	E. A. Post, Mears	Mar. 6	3,000
Carlson Creek	Golden	E. A. Post, Mears	Mar. 6	3,000
De Kay Creek	Golden	E. A. Post, Mears	Mar. 6	3,000
Stoney Creek	Golden	J. W. Krause, Mears	Mar. 6	3,000
Robinson Creek	Golden	J. W. Krause, Mears	Mar. 6	1,000
Piper Creek	Shelby and Benona	C. E. Ellis, Shelby	Mar. 6	7,500
Hobby Creek	Shelby and Perry	C. E. Ellis, Shelby	Mar. 6	4,500
Sand Creek	Shelby and Benona	C. E. Ellis, Shelby	Mar. 6	3,000
Tributaries to Beaver Creek	Otto	Chas. Smith, Rothburg	Mar. 6	4,500
Clark's Lake	Leavitt and Colfax	E. L. Bunting, Walkerville	Mar. 6	3,000
Freeman Creek	Leavitt	E. L. Bunting, Walkerville	Mar. 6	1,500
Tributaries to Beaver Creek	Colfax	E. L. Bunting, Walkerville	Mar. 6	1,500
Tributaries to Beaver Creek	Leavitt and Colfax	E. L. Bunting, Walkerville	Mar. 6	3,000
Rackliffe Creek	Leavitt	E. L. Bunting, Walkerville	Mar. 6	1,500
Crystal Creek	Elbridge	E. L. Bunting, Walkerville	Mar. 7	3,000
Seaman Creek	Crystal, Weare and Pentwater	Will Baker, Walkerville	Mar. 6	1,500
Shigley or Donaldson Creek	Crystal	Ira C. Ford, Walkerville	Mar. 6	4,500
Swear Creek	Hart	O. E. Vine, Walkerville	Mar. 6	1,500
Halberg Creek	Hart and Weare	Wm. R. Roach, Hart	Mar. 6	1,500
Lambert Creek	Golden	F. A. Gasahl, Mears	Mar. 6	3,000
Richter Creek	Golden	F. A. Gasahl, Mears	Mar. 6	1,500
Stafford Creek	Golden and Benona	F. A. Gasahl, Mears	Mar. 6	1,500
Cedar Creek	Golden and Hart	F. A. Gasahl, Mears	Mar. 6	3,000
Annelly Creek	Weare and Crystal	F. A. Gasahl, Mears	Mar. 6	3,000
Dumaw Creek	Weare	C. F. Lewis, Pentwater	Mar. 6	4,500
Mears Creek	Weare and Riverton	C. F. Lewis, Pentwater	Mar. 6	1,500
South Branch of Cedar Creek	Weare	C. F. Lewis, Pentwater	Mar. 6	3,000
Pentwater River	Weare and Crystal	C. F. Lewis, Pentwater	Mar. 6	1,500
	Pentwater and others	S. D. Montgomery, Grand Rapids	Mar. 6	3,000
Ogemaw county:				
Weideman Creek	West Branch	John Tolfree, West Branch	Mar. 23	3,000
Wood's Creek	West Branch	John Tolfree, West Branch	Mar. 23	4,000
Mansfield Creek	Edwards	John Tolfree, West Branch	Mar. 23	4,000
Crapo Creek	West Branch	John Tolfree, West Branch	Mar. 23	4,000
East Branch Tittabawassee River	Horton	John Tolfree, West Branch	Mar. 23	4,000
Prieur Creek	Klacking and Cnumming	John Tolfree, West Branch	Mar. 23	8,000
West Branch Rifle River	West Branch	John Tolfree, West Branch	Mar. 23	4,000
Klacking Creek	Klacking, West Branch and Churchill	John Tolfree, West Branch	Mar. 23	10,000
Tributaries to Rifle River	Churchill	John Tolfree, West Branch	Mar. 23	4,000
		Cascallen Bros., Selkirk	Mar. 23	12,000

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
1911.				
Ogemaw county.—Continued.				
Klacking Creek	Churchill and West Branch	Carscallen Bros., Selkirk	Mar. 23	4,000
Johnson Creek	Richland	Carscallen Bros., Selkirk	Mar. 25	6,000
Oyster Creek	Rose	O. L. Rakestraw, Lupton	Mar. 25	3,000
Kindorf Creek	Rose	O. L. Rakestraw, Lupton	Mar. 25	3,000
Ross Creek	Rose	O. L. Rakestraw, Lupton	Mar. 25	3,000
Vaughn Creek	Rose	O. L. Rakestraw, Lupton	Mar. 25	3,000
Cramer Creek	Richland	Geo. Eyrmer, Prescott	Mar. 25	3,000
Whitney Creek	Rose	Geo. Eyrmer, Prescott	Mar. 25	6,000
Ontonagon county:				
Bluff, One Mile and Spaulding Creeks	Haight	A. B. Paine, Bruce's Crossing	April 18	3,000
Silver Creek	Stannard	Alex. Turner, Bruce's Crossing	April 18	3,000
Creer Creek and tributaries	Stannard	Alex. Turner, Bruce's Crossing	April 18	4,500
Middle Branch Ontonagon River	Interior and Stannard	M. J. Clossey, Trout Creek	April 18	4,500
McAlpine Creek	Interior	M. J. Clossey, Trout Creek	April 18	3,000
Trout Creek	Interior	M. J. Clossey, Trout Creek	April 18	3,000
Davy's Creek	Rockland	John Kohn, Rockland	April 19	3,000
Clear Creek	Rockland	John Kohn, Rockland	April 19	3,000
Rockland Creek	Rockland	John Kohn, Rockland	April 19	3,000
Rockland Creek	Rockland	W. G. Richards, Rockland	April 19	1,500
Spring Creek	Rockland	W. G. Richards, Rockland	April 19	1,500
Landing Creek	Rockland	W. P. Vogtin, Rockland	April 19	3,000
Sucker Creek	Rockland	W. P. Vogtin, Rockland	April 19	3,000
Firesteel River	Rockland	W. P. Vogtin, Rockland	April 19	4,500
Tributaries to Sleeping River	51 and 52	Henry W. Grams, Houghton	April 19	7,500
Two Hundred Fifty Mile Post, Br. of Michigamme	Bohemia	Wm. Brown, Winona	May 6	3,000
Two Hundred Eighteen and One-half Mile Post	48-39	E. W. MacPherran, Marquette	May 6	3,000
Merryweather Creek	47-35	E. W. MacPherran, Marquette	May 6	3,000
Branch of Trout Creek	48-41	E. W. MacPherran, Marquette	May 9	4,500
	47-37	E. W. MacPherran, Marquette	May 9	3,000
Osceola county:				
Upper Part of Big Stone Creek	Evart	Joel Perry, Evart	Mar. 10	3,000
Cat Creek	Hersey	L. A. Moody, Evart	Mar. 10	4,500
Twin Creek	Evart, Osceola and Cedar	Wm. Ramsey, Evart	Mar. 10	4,500
Grindstone Creek	Hartwick and Sylvan	Wm. Ramsey, Evart	Mar. 10	4,500
North Branch Chippewa River and Edson Creek	Orien	B. C. Grant, Chippewa Station	Mar. 10	6,000
Highland Creek	Highland	C. W. Graves, Dighton	Mar. 10	4,500
Frantz Creek	Highland	C. W. Graves, Dighton	Mar. 10	4,500
Middle Branch Muskegon River	Highland or Marion	C. W. Graves, Dighton	Mar. 10	4,500
Moffett Creek	Highland or Marion	A. M. McLean, Alpena	Mar. 17	10,500
East Branch of Hersey Creek	Lincoln	J. W. Patterson, Reed City	Mar. 18	3,000
Hersey River	Richmond, Hersey and Lincoln	Cornell and Carrow, Reed City	Mar. 18	6,000
McDonald's Creek	Lincoln and Richmond	A. W. Auer, Reed City	Mar. 18	3,000
Blockhouse Creek	Mentor	Wm. Ellis, Au Sable	Mar. 18	3,000
Swain, Johnson and Tributary Branches, also Hersey Stream	Lincoln	L. W. Purchase, Orono	Mar. 20	12,000
West Branch of Clam River				
Middle Branch of Muskegon River	Riverside, Marlon and Winterfield	Fred R. Price, Marion	Mar. 21	12,000
Highland Creek	Several	Patrick White, Marion	Mar. 21	7,500
Seazer Creek	Marion	Patrick White, Marion	Mar. 21	3,000
Ghost Creek	Marion	Patrick White, Marion	Mar. 21	3,000
East Branch	Marion	Patrick White, Marion	Mar. 21	3,000
Upper South Branch of Thunder Bay River	Elmerton	Geo. Sachs, Lewiston	Mar. 21	12,000
		J. D. Hawks, Detroit	Mar. 25	45,000
Otsego county:				
Sturgeon River	Chester	J. W. Lester, Indian River	Mar. 15	24,000
North Branch of Au Sable River (upper waters)	31, 32, 33, 34, 1 and 2 W	Arnold Boutill, Saginaw	Mar. 21	18,000
Pigeon River	31, 32, 33, 34, 1 and 2 W	D. M. Sly, Vanderbilt	Mar. 23	16,000
Sturgeon River	32 N. 2 W.	D. M. Sly, Vanderbilt	Mar. 23	16,000
Headwaters of Pigeon River	Several	R. H. L'Hommedieu, Detroit	Mar. 25	30,000
Headwaters of Sturgeon River	Several	R. H. L'Hommedieu, Detroit	Mar. 25	30,000
Ottawa county:				
Pigeon River	Olive	C. McKinley, West Olive	Mar. 7	4,500
Presque Isle county:				
Tributaries to Ocoquec River	Metz	H. Horwitz, Hawks	Mar. 17	3,000
Trout River	Belknap and Rogers	B. G. Larke, Rogers	Mar. 17	4,500
Black River	Belknap and Rogers	J. M. Clark, Onaway	Mar. 17	16,000
Indian Creek	Ocoquec and Chase	N. C. Monroe, Millersburg	Mar. 17	3,000
Ocoquec River	Ocoquec and Chase	W. H. Freers, Millersburg	Mar. 25	9,000
Little Ocoquec	Ocoquec, Bismark and Ocoquec	W. H. Freers, Millersburg	Mar. 25	4,500
Roscommon county:				
Eshern Creek	Richfield	D. Procuier, St. Helens	Mar. 23	3,000
South Branch of Au Sable River	Penfield and South Branch	Wm. F. Johnston, Roscommon	Mar. 23	12,000
Schoolcraft county:				
Thompson Creek	Thompson	Benjamin Gero, Manistique	April 1	3,000
Silver Creek	Thompson	Benjamin Gero, Manistique	April 1	4,500
East Branch of Manistique River	Seney and Germfask	Angus McDougall, Germfask	May 17	0,000
St. Joseph county:				
No name	Lockport	C. R. Jackson, Three Rivers	Feb. 24	1,500
Sherman Creek	Lockport	C. R. Jackson, Three Rivers	Feb. 24	1,500
Gembering Creek	Fabius	Warren Klocke, Three Rivers	Feb. 24	1,500
Spring Creek	Lockport	Amon Ives, Three Rivers	Feb. 24	1,500
No name	Lockport	Perry L. Turner	Mar. 3	1,500
James O'Brien Creek	Flowerfield	S. J. Andrus, Marcellus	Mar. 3	1,500
Parker's Brook	Flowerfield	S. J. Andrus, Marcellus	Mar. 3	1,500
Tuscola county:				
Herb's Creek	Fremont	J. W. Schermerhorn, Mayville	Mar. 11	3,000
Goodfellow's Creek	Dayton and Rich	A. L. Schram, Mayville	Mar. 11	3,000
Mill Creek	Dayton	A. L. Schram, Mayville	Mar. 11	1,500
Hunt's Creek	Dayton	Ed. D. Cartwright, Mayville	Mar. 11	1,500

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Tuscola county.—(Continued.)				
Goodell Creek	Dayton	Ed. D. Cartwright, Mayville	1911. Mar. 11	1,500
Sucker Creek	Dayton	Arthur Haines, Mayville	Mar. 11	4,500
No name	Fremont	Arthur Haines, Mayville	Mar. 11	1,500
Chapel Creek	Juniata	Wm. Vandecar, Caro	Mar. 14	3,000
Van Buren county:				
Fester's Brook	Keeler	W. A. Palmer, Hartford	Feb. 23	3,000
Two Branches of Hcg Creek	Hartford	W. A. Palmer, Hartford	Feb. 23	2,000
Hart and Lamson's Brook	Hartford	W. A. Palmer, Hartford	Feb. 23	2,000
East Branch of Paw Paw River	Antwerp and Porter	R. D. Loveland, Paw Paw	Feb. 23	7,500
West Branch Paw Paw River	Paw Paw and Decatur	H. Emory Boll, Paw Paw	Feb. 23	5,000
Rix Creek	Antwerp	H. E. Oswald, Kalamazoo	Feb. 24	6,000
No name	Decatur	Levi Lyle, Decatur	Feb. 24	3,000
Mattawan Creek	Mattawan	D. C. A. Wise, Kalamazoo	Mar. 3	3,000
Haden Creek	Almena	Dr. C. A. Wise, Kalamazoo	Mar. 3	2,000
South Branch of Paw Paw River	Almena, Antwerp and Paw Paw	R. E. Balch, Kalamazoo	Mar. 3	4,000
Newberry Brook	Antwerp and Paw Paw	R. E. Balch, M. D., Kalamazoo	Mar. 3	4,000
Scott's Creek	Waverly	W. L. Scott, Bloomingdale	Mar. 3	1,500
Mill Creek	Geneva	J. T. Tolles, South Haven	Mar. 3	3,000
Spice Bush Creek	Geneva, Lee and Casco	J. A. Gibson, Lacota	Mar. 3	4,500
Washtenaw county:				
Williams Creek	Manchester and Shannon	Wm. Stoneway, Manchester	Feb. 27	2,000
Schaible Creek	Manchester	A. J. Waters, Manchester	Feb. 27	2,000
Iron Creek	Manchester	A. J. Waters, Manchester	Mar. 27	4,500
South Branch of Paint or Clawson's Creek	Ypsilanti and Pittsfield	W. A. Clawson, Ypsilanti	Feb. 27	3,000
Honey Creek	Lima and Scio	C. F. Stabler, Ann Arbor	Feb. 27	6,000
No name	Lyndon	T. I. Clark, Jackson	Feb. 27	3,000
Clark's Creek	Lyndon	T. I. Clark, Jackson	Feb. 27	1,500
Young's Creek	Lyndon	T. I. Clark, Jackson	Feb. 27	1,500
Wayne county:				
Campbell Creek	Van Buren and Ypsilanti	L. Seamans, Belleville	Feb. 27	6,000
Wexford county:				
Bear Creek	Slagle	Michigan Fish Commission	Mar. 6	30,000
Little Filer Creek	Greenwood	Kingsley Sportsmen's Club, Kingsley	Mar. 16	1,500
Big Filer Creek	Greenwood	Kingsley Sportsmen's Club, Kingsley	Mar. 16	3,000
Buttermilk Creek	Greenwood	R. B. De France, Kingsley	Mar. 16	3,000
Silver Creek	Greenwood	R. B. De France, Kingsley	Mar. 16	3,000
Anderson Creek	Hanover	G. A. Brigham, Buckley	Mar. 18	2,000
Fletcher Creek	Hanover	G. A. Brigham, Buckley	Mar. 18	4,000
Hawley Creek	Hanover	G. A. Brigham, Buckley	Mar. 18	2,000
Dean Creek	Hanover	G. A. Brigham, Buckley	Mar. 18	3,000
Silver Creek	Greenwood	Herman Marvin, Baxter	Mar. 18	3,000
Cushman Creek	Greenwood	Herman Marvin, Baxter	Mar. 18	3,000
Other counties:				
Super Creek	Greenwood	Herman Marvin, Baxter	Mar. 18	1,000
Harrier Creek	Colfax and Greenwood	C. S. Gullbertson, Manton	Mar. 18	3,000
Whitmore Creek	Colfax and Greenwood	C. S. Gullbertson, Manton	Mar. 18	3,000
Taylor Creek	Liberty	C. H. Bostwick, Manton	Mar. 18	1,500
Cedar Creek	Liberty	C. H. Bostwick, Manton	Mar. 18	1,500
Buttermilk Creek	Liberty and Cedar Creek	C. H. Bostwick, Manton	Mar. 18	4,500
Silver Creek	Greenwood	C. H. Tyler, Manton	Mar. 18	3,000
Wheeler Creek	Greenwood	C. H. Tyler, Manton	Mar. 18	3,000
Jewett Creek	Cherry Grove	Henry C. Auer, Cadillac	Mar. 18	4,500
Fletcher Creek	Springville	F. D. Winnie, Mesick	Mar. 21	6,000
Adams Creek	Springville	F. D. Winnie, Mesick	Mar. 21	1,500
Ster Creek	Antioch	F. D. Winnie, Mesick	Mar. 21	3,000
Usewick Creek	Antioch	F. D. Winnie, Mesick	Mar. 21	3,000
Preston Creek	Springville	F. D. Winnie, Mesick	Mar. 21	3,000
Sands Creek	Springville	F. D. Winnie, Mesick	Mar. 21	3,000
	Slagle	Michigan Fish Commission	May 5	1,500
Total				5,665,000

TWENTY-SEVENTH REPORT—STATE FISHERIES.

TWENTY-SEVENTH REPORT—STATE FISHERIES.

BROOK TROUT PLANTS, 1911.

FINGERLINGS.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Leelanau county: Mosseau Creek.....	Suttons Bay.....	D. H. Power, Suttons Bay.....	1911. May 6	10,000

BROOK TROUT PLANTS, 1911.

YEARLINGS.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Chippewa county: Deerfoot Creek.....		John Bell, Strongs.....	1911. Sept. 6	300

RAINBOW TROUT PLANTS, 1911.

ADVANCED FRY.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Alcona county:			1911.	
Mill Creek.....	Harrisville.....	A. L. Noyes, Harrisville.....	June 9	3,000
Spring Brook.....	Mitchell.....	Fred H. Loud, Au Sable.....	June 13	9,000
McGinn Creek.....	Clinton and Mitchell.....	S. K. McCollum, Comins.....	June 13	15,000
South Branch of Pine River.....	Curtis.....	Jos. Turcott, Oscoda.....	June 13	9,000
Allegan county:				
Neely and Duncan Creeks.....	Duncan.....	A. J. Shelp, Doster.....	May 24	3,000
Tributaries to Rabbit River.....	Leighton.....	Alfred S. Nelson, Wayland.....	May 27	1,500
Alpena county:				
Upper Branch of Thunder River.....	Green.....	W. E. Carr, D. D. S. Alpena.....	June 9	12,000
Trout Creek.....	Alpena.....	W. E. Rogers, Alpena.....	June 9	3,000
Antrim county:				
Ogletree Creek.....	Central Lake and Banks.....	O. P. Barber, Central Lake.....	May 8	4,500
Town Line Creek.....	Banks.....	W. H. Upthegrove, Central Lake.....	May 8	4,500
Arenac county:				
Demno Creek.....	Arenac.....	F. Avery, Standish.....	May 25	4,500
North Branch of Deep River.....	Gibson.....	F. Avery, Standish.....	May 25	18,000
South Omer Creek.....	Deep River.....	F. Avery, Standish.....	May 25	4,500
Cooter Creek.....	Deep River.....	F. Avery, Standish.....	May 25	4,500
Big Town Line and Murphy Creeks, Tribs. to Rifle River.....	Mason, Arenac and Au Gres.....	N. Deford, Sterling.....	June 9	15,000
Mansfield Creek.....	Clayton.....	H. Zeran, Prescott.....	June 9	3,000
Baraga county:				
Sterk's Creek.....	L'Anse.....	Silver River B. and G. Club, L'Anse.....	June 10	5,000
Clear Creek.....	Baraga.....	H. L. Swift, Houghton.....	June 12	9,000
Barry county:				
Thornapple River and tributaries.....	Prairieville.....	Luther B. Hills, Irving.....	May 23	6,000
Adams Lake Creek.....	Rutland and Irving.....	Fay Nichols, Doster.....	May 24	1,500
Glass Creek.....	Barry and Ross.....	Edgar Ous, Shultz.....	May 27	4,500
Eight Mile Creek.....	Hope, Pentland and Yankee Springs.....	Geo. W. Lawrence, Delton.....	May 27	3,000
Glass Creek River.....	Woodland and Carlton.....	W. J. Nichols, Hastings.....	June 12	9,000
Little Thornapple River.....	Barry, Cedar Creek, Baltimore and Hastings.....	W. J. Nichols, Hastings.....	June 12	9,000
Cedar Creek.....	Woodland and Castleton.....	W. J. Nichols, Hastings.....	June 12	15,000
Mud Creek River.....	Johnson, Baltimore, Castleton and Groveland.....	W. J. Nichols, Hastings.....	June 12	9,000
High Bank Creek River.....		W. J. Nichols, Hastings.....	June 12	9,000

Rainbow Trout Plants, 1911.—Continued.

County and name of water.	Township.	Applicant or depositor.	Date.	Number
1911.				
Barry county.—Continued.				
Fall Creek	Several	F. H. Barlow, Hastings	June 12	9,000
Kelly Creek	Baltimore	J. H. Neiss, Hastings	June 12	4,500
Lichty's Creek	Baltimore	J. H. Neiss, Hastings	June 12	3,000
Horn Creek	Hope	Keo Silsbee, Hastings	June 12	3,000
Power's Creek	Irving	C. H. Osborne, Hastings	June 12	3,000
Tributary to Glass Creek	Yankee Springs	C. D. Bauer, Hastings	June 12	3,000
McCollum Creek	Hankee Springs	C. D. Bauer, Hastings	June 12	3,000
Tributaries to Thornapple River	Hastings and Irving	F. A. Stowell, Hastings	June 12	3,000
Benzie county:				
Crystal Lake Inlet	Benzonia	David E. Burns, Beulah	June 13	7,500
Berrien county:				
Branch of St. Joseph River		W. J. Lucker, St. Louis	June 1	3,000
Wilson and Gray Creeks	Oronoko	J. G. Murdock, Berrien Springs	June 1	4,500
Leman Creek	Oronoko	J. W. Isbell, St. Joseph	June 1	3,000
Pipestone Creek	Benton	J. W. Isbell, St. Joseph	June 1	3,000
Lorve Creek	Oronoko	J. W. Isbell, St. Joseph	June 1	3,000
Blue Creek	Benton	J. W. Isbell, St. Joseph	June 1	3,000
Yellow Creek	Royalton	C. H. Crest, St. Joseph	June 1	3,000
Edeson Creek		C. H. Crest, St. Joseph	June 1	1,500
Crystal Springs Creek	Benton	C. H. Crest, St. Joseph	June 1	1,500
Tributaries of St. Joseph River	Several	A. F. Herring, St. Joseph	June 1	7,500
Hickory Creek	St. Joseph	A. F. Herring, St. Joseph	June 1	7,000
Spring Brook	New Buffalo	Wm. J. Shermack, New Buffalo	June 1	4,500
Branch county:				
Stanford Brook	Sherwood	S. W. Lehr, Athens	May 24	1,500
Spencer Brook	Sherwood	Leo E. Wood, Athens	May 24	1,500
Coldwater River	Quincy and others	Jnn. B. Shipman, Coldwater	May 27	6,000
Mill Creek	Batavia and Bronson	C. D. Smead, Coldwater	May 27	3,000
Mill Creek	Batavia and Bronson	C. D. Smead, Coldwater	May 27	4,500
Hog Creek	Girard	F. T. Tappan, Coldwater	May 27	9,000
Shinneman's Brook, Motts, Hog, Allen and Branch Creeks	Coldwater and Girard	F. T. Tappan, Coldwater	May 27	7,500
Smead's Creek	Batavia	F. T. Tappan, Coldwater	May 27	12,000
Calhoun county:				
Minges Brook	Battle Creek	Geo. H. Williams, Battle Creek	May 24	4,500
Helmer's Creek	Battle Creek and Newton	Geo. H. Williams, Battle Creek	May 24	4,500
Knight's Brook	Ennet	J. H. Tower, Battle Creek	May 24	3,000
Flower Creek	Ennet	V. H. Bramble, Battle Creek	May 24	10,500
Wilder Creek	Eckford	S. W. Warren, Marshall	May 24	7,500
Rice Creek	Marshall	W. J. Claybourne, Marshall	May 24	6,000
Mineral Springs Brook	Albion	M. O. Reed, Albion	May 24	1,500
Bascon Creek				
Nottawa Creek	Battle Creek and others	W. R. Skellenger, Battle Creek	May 24	7,500
Fine Creek	Athens and Newton	F. G. Woodruff, Athens	May 24	3,000
	Athens	J. C. Gaw, Athens	May 24	3,000
Cass county:				
Spring Run	Marcellus	A. L. Maxam, Marcellus	May 27	1,500
Conklin Stream	Mostly Marcellus	B. F. Mikel, Marcellus	May 27	3,000
Broadhurst Creek	Wayne	Fred Phillips, Dowagiac	June 1	1,500
Tyron Creek	Wayne and Silver Creek	Fred Phillips, Dowagiac	June 1	1,500
Hatch Creek	Wayne	Fred Phillips, Dowagiac	June 1	1,500
Big Dowagiac Creek	Decatur, Wayne, Silver Creek and Pokagon	Fred Phillips, Dowagiac	June 1	1,500
Gage Creek	Wayne	Fred Phillips, Dowagiac	June 1	7,500
Kenny Creek	Wayne	Fred Phillips, Dowagiac	June 1	1,500
Hampton Creek	Wayne	Fred Phillips, Dowagiac	June 1	1,500
Glenwood Creek	Wayne	Fred Phillips, Dowagiac	June 1	1,500
Peavine Creek	Wayne	Fred Phillips, Dowagiac	June 1	1,500
Pokagon Creek	Pokagon	Fred Phillips, Dowagiac	June 1	1,500
South Branch of Dowagiac Creek	Pokagon	Fred Phillips, Dowagiac	June 1	3,000
Miller Creek	Volinia, La Grange, Pokagon and Prairie Ronde	Fred Phillips, Dowagiac	June 1	4,500
Little Dowagiac Creek	Pokagon	Fred Phillips, Dowagiac	June 1	7,500
Ireland Creek	Pokagon, La Grange and Silver Creek	Fred Phillips, Dowagiac	June 1	1,500
Lyle Creek	Silver Creek	Fred Phillips, Dowagiac	June 1	7,500
McOrner Creek	Silver Creek	Fred Phillips, Dowagiac	June 1	1,500
Silver Creek	Silver Creek	Fred Phillips, Dowagiac	June 1	1,500
Kinzie Creek	Silver Creek	Fred Phillips, Dowagiac	June 1	3,000
Carmen Creek	Jefferson	Fred Phillips, Dowagiac	June 1	3,000
Pine Lake Creek	Wayne	Fred Phillips, Dowagiac	June 1	3,000
No name	Wayne and Silver Creek	Fred Phillips, Dowagiac	June 1	1,500
Centennial Mill Pond	La Grange and Howard	Fred Phillips, Dowagiac	June 1	1,500
Shaw Creek	La Grange and Howard	E. W. Hain, Elkhart, Ind.	June 3	3,000
	Jefferson and Howard	C. H. Kimmerte, Cassopolis	June 3	3,000
		C. H. Kimmerte, Cassopolis	June 3	4,500
Charlevoix county:				
West Branch of Sturgeon River	Hudson	C. F. Hoffman, Vanderbilt	May 25	15,000
North Boyne River	Boyne Valley	Chas. Galster, Boyne Falls	June 8	15,000
Boyne River	Boyne Valley	Chas. Galster, Boyne Falls	June 8	15,000
Cheboygan county:				
Big Sturgeon River		J. J. Jones, Indian River	May 25	15,000
Chippewa county:				
Little Muniskong River	Pickford	Dr. J. A. Cameron, Pickford	June 9	10,000
St. Mary's River at East Neebish Rapids	Sugar Island	Chase S. Osborn, Sault Ste. Marie	June 11	10,000
St. Mary's River	Several	Michigan Fish Commission, Detroit	June 9	40,000
Clare county:				
Chord Creek	Grant	F. C. Sanford, Clare	June 13	3,000
McKinley Creek	Sheridan	F. C. Sanford, Clare	June 13	10,500
Halstead Creek	Grant	F. C. Sanford, Clare	June 13	6,000

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
1911.				
Clinton county: Little Maple River	Ovid and Victor	F. D. Cleveland, Shepardsville	June 10	10,500
Delta county: Portage Creek and Cedar Brook Ford River	Ford River and Wells	Timothy Killian, Escanaba E. C. Voght, Escanaba	May 30 May 30	7,500 10,000
Dickinson county: Water Works Creek Pine Creek Sturgeon River	Norway Waucedah Waucedah	Wm. H. Weber, Norway Herman Vielmette, Loretto John Langdon, Loretto	May 30 May 30 May 30	5,000 7,500 7,500
Eaton county: Silver Creek Saudstone Creek	Windsor Oneida	Freeman G. French, Dimondale Fred L. Berry, Grand Ledge	June 3 June 7	7,500 9,000
Emmet county: No name No name Bear Creek	Littlefield Littlefield Littlefield	W. W. Fairbairn, Alanson W. W. Fairbairn, Alanson Geo. C. Braun, Petoskey	May 24 May 24 May 24	3,000 3,000 18,000
Grand Traverse county: Boardman River Boardman River Beitner Creek	Several Blair Blair	R. S. Hastings, Traverse City C. T. Cedersten, Traverse City C. T. Cedersten, Traverse City	May 26 May 26 May 26	15,000 15,000 4,500
Gratiot county: Cale Ayers Creek	Sumner	J. W. Johnson, Elmhall	June 7	3,000
Gogebic county: Outlet of Beaton's Lake Outlet of Tenderfoot Lake Thousand Island Lakes Inlets Wolf Lake Outlet Morrison Creek Sargeant's Creek Henderson's Creek Middle Branch Ontonagon River Dellies Creek Duck Creek Camp Two Creek Maple Creek Rock Creek Hill Creek Pine Creek Rainbow Creek	Watersmeet Watersmeet Watersmeet Watersmeet Watersmeet Watersmeet Watersmeet Watersmeet Watersmeet Watersmeet Watersmeet Bessemer Bessemer Bessemer Bessemer Bessemer Bessemer	C. M. McDonald, Watersmeet C. M. McDonald, Watersmeet A. D. Johnson, Bessemer A. D. Johnson, Bessemer A. D. Johnson, Bessemer M. Hughitt, Jr., Chicago, Ill. M. Hughitt, Jr., Chicago, Ill. M. Hughitt, Jr., Chicago, Ill. M. Hughitt, Jr., Chicago, Ill. M. Hughitt, Jr., Chicago, Ill. M. Hughitt, Jr., Chicago, Ill. J. A. Voghtlin, Chicago, Ill. J. A. Voghtlin, Chicago, Ill. J. A. Voghtlin, Chicago, Ill. J. A. Voghtlin, Chicago, Ill. J. A. Voghtlin, Chicago, Ill. J. A. Voghtlin, Chicago, Ill. J. A. Voghtlin, Chicago, Ill. J. A. Voghtlin, Chicago, Ill.	June 1 June 1 June 1 June 1 June 1 June 1 June 1 June 1 June 1 June 1 June 1 June 5 June 5 June 5 June 5 June 5 June 5	5,000 5,000 5,000 2,500 2,500 7,500 7,500 7,500 7,500 7,500 7,500 5,000 2,500 2,500 5,000 5,000 5,000 5,000

TWENTY-SEVENTH REPORT—STATE FISHERIES.

Black River Jackson Creek No name Sand Island Creek No name Gage's Creek No name Swamp Creek Johnson Creek Leaman's Creek	Bessemer, Wakefield and Ironwood Bessemer Wakefield Wakefield and Bessemer 48 N. 46 W. 36 and 49 W. 48-46 Bessemer Bessemer Ironwood	H. E. Patterson, Chicago, Ill. H. E. Patterson, Chicago, Ill. G. S. Barber, Chicago, Ill. W. R. Kulaszczurc, Chicago, Ill. C. E. Holly, Chicago, Ill. Daniel P. Green, Bessemer Daniel P. Green, Bessemer Tony, Trier, Bessemer C. M. Fraser, Bessemer H. P. Rasmussen, Bessemer Fred Becker, Bessemer	June 5 June 5 June 5 June 5 June 5 June 5 June 5 June 5 June 5 June 5 June 5	5,000 5,000 5,000 5,000 5,000 5,000 2,500 5,000 5,000 5,000 5,000
Hillsdale county: Branch of Raisin River Branch of Raisin River No name Emery Mills Creeks Silver Creek Tributaries	Somerset Somerset Somerset and Wheatland Hillsdale Cambria	Wm. Bickford, Jerome Wm. Bickford, Jerome Frank Carney, Jerome W. C. Kemp, Hillsdale W. J. French, Hillsdale	May 24 May 24 May 24 June 3 June 3	1,500 3,000 4,500 3,000 6,000
Houghton county: Seven Mile Creek Small Branch Sturgeon River Mud Lake Creek	Calumet Laird Torch Lake	Chas. Limbach, Calumet Paul D. Swift, Houghton Fred Olson, Calmet	June 10 June 10 June 10	5,000 10,000 5,000
Ingham county: Wiltow Creek Sycamore River Mud Creek	Vevay and Aurelius Alaidon	C. P. Mickelson, Mason C. P. Mickelson, Mason C. P. Mickelson, Mason	June 3 June 3 June 3	6,000 7,500 6,000
Ionia county: Dickinson Creek Perrett's Creek Outlet of Woodward Lake Outlet of Long Lake Dexter Creek Morrison Lake Creek Arnold Creek Prairie Creek with pond Knapp Creek Speer's Creek Nickle Plate Pond	Otisco Orange Orleans Orleans Easton Boston Ionia Ionia Lyons Ronald	Brinton F. Hall, Belding R. W. Benedict, Ionia W. H. Angell, Belding W. H. Angell, Belding J. Wallington, Saranac J. Wallington, Saranac Andrew Christensen, Ionia Chas. Stein, Ionia Dr. Weston, Muir Dr. Weston, Muir C. A. Dalziel, Muir	June 7 June 7 June 7 June 7 June 7 June 10 June 10 June 10 June 10 June 10 June 10 June 29	12,000 7,500 6,000 6,000 6,000 3,000 3,000 1,500 6,000 3,000 3,000 3,000
Iosco county: Van Ettan Creek Meadow Creek Smith Creek Vanghn Creek No name	Oscoda Oscoda Plainfield Plainfield	J. H. McGillivray, Oscoda Wm. Elliott, Oscoda R. D. Brown, Hale R. D. Brown, Hale C. W. Luce, East Tawas	June 9 June 9 June 13 June 13 June 9	3,000 3,000 6,000 9,000 9,000
Iron county: Lower Paint River Paint River	Crystal Falls Crystal Falls and others	Arvid Bjork, Crystal Falls Arvid Bjork, Crystal Falls	June 1 June 1	5,000 7,500

TWENTY-SEVENTH REPORT—STATE FISHERIES.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
1911.				
Isabella county:				
Chippewa River	Mt. Pleasant	Geo. A. Chatterton, Mt. Pleasant	June 1	9,000
Upper Coldwater River	Nottawa	Robt. Hyslop, Weidman	June 7	6,000
Shafer's Creek	Sherman	Robt. Hyslop, Weidman	June 7	3,000
Jackson county:				
Rives Junction Creek	Rives	Geo. E. Beebe, Jackson	May 23	1,500
West Branch Kalamazoo River	Hillsdale	Geo. E. Beebe, Jackson	May 23	7,500
Headwaters of Kalamazoo River East Branch	Liberty, Hanover, Spring Arbor and Concord	Geo. E. Beebe, Jackson	May 23	6,000
Willow Creek	Hanover	Geo. E. Beebe, Jackson	May 23	3,000
Cutler Creek	Concord	Geo. E. Beebe, Jackson	May 23	4,500
Headquarters of Grand River	Liberty	Geo. E. Beebe, Jackson	May 23	4,500
Dew Brook	Horton	Geo. E. Beebe, Jackson	May 23	3,000
Leoni Creek	Leoni	Geo. E. Beebe, Jackson	May 23	7,500
Tributaries of Kalamazoo River	Hanover	Geo. E. Beebe, Jackson	May 23	3,000
Tributaries of Kalamazoo River	Hanover	Geo. E. Beebe, Jackson	May 23	7,500
Snyder's Creek	Spring Arbor	Geo. E. Beebe, Jackson	May 23	3,000
Sandstone Creek	Sandstone and Blackman	Geo. E. Beebe, Jackson	May 23	7,500
Rice Creek	Parma	Geo. E. Beebe, Jackson	May 23	7,500
Crouch Creek	Summit	Geo. E. Beebe, Jackson	May 23	4,500
Willow Creek	Waterloo and Grass Lake	Geo. E. Beebe, Jackson	June 23	6,000
Wade Creek	Tompkins	Geo. E. Beebe, Jackson	May 23	1,500
Indian Springs Creek	Concord	B. W. Dicer, Jackson	May 24	3,000
Inlets of Farwell Lake	Hanover	G. T. Greenshaw, Hanover	June 3	3,000
Headwaters of Kalamazoo River	Hanover	Dr. C. L. Hathaway, Hanover	June 3	3,000
Headwaters of North Branch of Kalamazoo River	Hanover	Will Hinkley, Hanover	June 3	3,000
Umfield Creek	Pulaski	L. I. Strait, Hanover	June 3	1,500
Tributary of Kalamazoo River	Hanover and Concord	F. W. McKenzie, Concord	June 3	3,000
Thayer's Creek	Norvell	B. F. Burgess, Norvell	June 3	3,000
Kalamazoo county:				
Earl's Creek	Comstock	H. D. Streator, Galesburg	May 24	3,000
Stouy Brook		W. R. Skellinger, Battle Creek	May 24	4,500
Frakes Creek	Schoolcraft	A. M. Fellows, Schoolcraft	May 27	3,000
Wells Creek	Portage	Jay Clark, Schoolcraft	May 27	1,500
Keweenaw county:				
Gratiot River	Allouez and Houghton	C. W. Thomason, Laurium	June 10	10,000
Silver River	Grant	Albert A. Brockway, Lake Linden	June 10	5,000
Phoenix Dam	Houghton	N. Lenten, Phoenix	June 10	5,000
Montreal River Meadows	Grant, Eagle Harbor and Sherman	John Illelich, Calumet	June 10	7,500
Silver Creek		Jos. Limbach, Red Jacket	June 10	7,500
No name		Geo. Brill, Calumet	June 10	7,500

TWENTIETH REPORT—STATE FISHERIES.

Kent county:				
Little Cedar Creek	Nelson, Courtland and Algoma	R. B. Cawthrope, Cedar Springs	May 26	3,000
Dop Creek	Solon	R. B. Cawthrope, Cedar Springs	May 26	3,000
Spring Creek	Solon	R. B. Cawthrope, Cedar Springs	May 26	4,500
Cedar Creek	Algoma	R. B. Cawthrope, Cedar Springs	May 26	4,500
Stegman Creek	Courtland	R. B. Cawthrope, Cedar Springs	May 26	3,000
Duke Creek	Nelson, Solon and Algoma	R. B. Cawthrope, Cedar Springs	May 26	12,000
Crinion Creek	Mostly Oakfield	Freeman Addis, Harvard	May 26	4,500
Upper Waters of Rogue River and tributaries	Several	H. C. Murray, Sparta	June 5	6,000
Rogue River and tributaries	Tyrone	C. S. Parks, Kent City	June 5	6,000
Strawberry Creek	Alpine	Dwight Lydell, Comstock Park	June 6	7,500
Harding Creek	Algoma and Courtland	Geo. E. Rector, Edgerton	June 6	3,000
Munn Creek	Algoma and Courtland	Geo. E. Rector, Edgerton	June 6	3,000
Beaverdam Creek	Oakfield	W. S. Lambertson, Belding	June 7	7,500
Buck Creek	Wyoming and Byron	W. H. Zylstria, Grand Rapids	June 12	9,000
Lake county:				
Pere Marquette River	Several	Geo. M. Brown, Detroit	June 6	18,000
Pere Marquette River		Geo. M. Brown, Detroit	June 6	27,000
Headwaters of Mid. Br. of Pere Marquette River	Chase	Chas. Nelson, Chase	June 6	9,000
Sanborn Creek	Pleasant Plains and Webber	R. J. Matthews, Baldwin	June 6	7,500
Baldwin Creek	Pleasant Plains and Webber	R. J. Matthews, Baldwin	June 6	9,000
Lapeer county:				
North Branch of Clinton River	Almont, Addison, Bruce, Armada and Ray	W. H. Bradley, Romeo	June 10	9,000
Borsig Creek	Metamora and Dryden	P. B. Glaspie, Oxford	June 13	3,000
Leelanau county:				
Knox Creek	Empire	James Daily, Empire	May 13	1,500
Crystal River	Glen Arbor	James Daily, Empire	May 13	6,000
Lenawee County:				
Evans Creek	Franklin	Williard Mitchell, Tipton	May 24	6,000
Macomb county:				
Silver Creek	Bruce	F. Gillespie, Romeo	June 10	4,500
Marquette county:				
Michigamme River	Republic	C. W. Munson, Republic	June 9	10,000
Midway Creek	Humboldt	C. W. Munson, Republic	June 9	10,000
Bruce Creek	Republic	C. W. Munson, Republic	June 9	10,000
West Branch Escanaba River	Republic	C. W. Munson, Republic	June 9	10,000
Spruce River	Republic	C. W. Munson, Republic	June 9	5,000
Trout Falls Creek	Republic	C. W. Munson, Republic	June 9	7,500
Trout Falls Creek	Republic	C. W. Munson, Republic	June 9	10,000
Black River	Republic	B. Bengston, Republic	June 9	7,500
Nelson's Creek	Republic and Humboldt	C. W. Munson, Republic	June 9	10,000
Schwartz Creek	Humboldt	D. T. Morgan, Republic	June 9	5,000
Carp River	Forsyth, Richmond and Sands	Negaunee R. and G. Club, Negaunee	June 9	7,500
Connor's Creek	Negaunee, Ishpeming and Richmond	Negaunee R. and G. Club, Negaunee	June 12	7,500
Dead and Escanaba Rivers	Champion	Lewis N. Toutloff, Ishpeming	June 13	12,500
Spruce River	Ely and Ishpeming	Geo. A. Newett, Ishpeming	June 13	7,500
	Several	Geo. A. Newett, Ishpeming	June 13	15,000
			June 13	5,000

TWENTIETH REPORT—STATE FISHERIES.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
1911.				
Marquette county.—Continued.				
Fasheke River	Michigamme	Geo. A. Newett, Ishpeming	June 13	7,500
West Branch Escanaba River	Ely	Geo. A. Newett, Ishpeming	June 13	15,000
Dishro Creek	Champion	E. M. Stensurd, Michigamme	June 13	5,000
Mason county:				
Pentwater River and Landis Creek	Severall	John Grey, Scottville	June 6	12,000
Pere Marquette River	Amber	John Grey, Scottville	June 6	9,000
Lincoln River	Sherman	Fountain R. and G. Club, Fountain	June 6	15,000
Mecosta county:				
Rattail Creek	Fork	W. S. Laffin, Barryton	June 7	3,000
North Branch of Chippewa River	Sheridan and Fork	W. S. Laffin, Barryton	June 7	6,000
South Branch of Chippewa River	Sheridan and Fork	W. S. Laffin, Barryton	June 7	4,500
Butts Creek	Fork	W. S. Laffin, Barryton	June 7	4,500
Farmer Creek	Sheridan	W. S. Laffin, Barryton	June 7	3,000
Brown Creek	Fork	W. S. Laffin, Barryton	June 7	1,500
Benjamin Creek	Fork	W. S. Laffin, Barryton	June 7	3,000
Seaton Creek	Hinton	Arthur Royce, Altona	June 7	4,500
Poney Creek	Wheatland and Broomfield	P. J. Theisen, Remus	June 7	7,500
Tompkins Creek	Hinton	C. W. Vining, Lakeview	June 7	3,000
Silvester Creek	Hinton	John Wright, Lakeview	June 7	6,000
Little Muskegon River	Aetna	Louis Reames, Morley	June 12	9,000
Menominee county:				
West Branch Little Cedar River	Spalding	J. H. McKibbin, Powers	May 30	7,500
Quade Creek	Spalding	Chas. J. Quade, Powers	May 30	10,000
Squaw Creek	Spalding	John Archibald, Powers	May 30	3,500
Cedar River	Spalding, Myers, Iugastou and Harris	John Archibald, Powers	May 30	7,500
Ten Mile Creek	Spalding	Wm. Frazer, Powers	May 30	5,000
Hay Creek	Meyer and Holmes	J. D. Hayes, A. J. Kremer, Hermansville	May 30	2,500
Holmes Creek	Meyer and Holmes	J. D. Hayes, A. J. Kremer, Hermansville	May 30	2,500
Missaukee county:				
Mosquito Creek	Reeder	Geo. B. Farmer, Lake City	June 7	6,000
Hopkins Creek	Forest and Caldwell	T. H. Reeder, Lake City	June 7	9,000
Montcalm county:				
Brandy Creek	Winfield	Dr. J. Odell Nelson, Howard City	May 27	4,500
Tributaries to Tamarack Creek	Pierson and Reynolds	Burt Collins, Howard City	May 27	12,000
Possold Creek	Winfield	H. M. Gibbs, Howard City	May 27	3,000
Whitfish Creek	Pierson and Reynolds	S. V. Bullock, Howard City	May 27	4,500
Indian Creek	Reynolds	A. B. Fotts, Howard City	May 27	3,000
Tamarack Creek	Reynolds	W. H. Lovely, Howard City	May 27	12,000
Caskey Creek	Winfield	F. Ashley, Howard City	May 27	3,000
Main Part of Fish Creek	Crystal	O. D. White, Butternut	May 29	0,000
Tamarack Creek	Cato and others	John E. Seat, Lakeview	June 7	0,000
Oshtemo county:				
Onnear Creek	Home	L. D. Curtis, Edmore	June 7	6,000
Tamarack Creek	Cato and Belvidere	Chesley Faling, Lakeview	June 7	3,000
Horton Creek	Winfield	Lynch and Winters, Arable	June 7	6,000
Wabasis Creek	Montcalm	R. Finch, Gowen	June 7	6,000
Inlets to Deaner Lake	Richland	Brinton F. Hall, Belding	June 7	6,000
Corben Creek	Richland	Wm. Caris, Vestaburg	June 7	9,000
Blanchard Creek	Ferris	J. W. Johnson, Elmhall	June 7	3,000
Fish Creek	Richland	G. E. Brown, Riverdale	June 7	1,500
Rossman Creek	North Plains	A. E. Clark, Hubbardston	June 7	3,000
Rice Creek	Cato	Walter J. Smith, Howard City	June 10	7,500
Broderick Creek	Pierson and Reynolds	F. D. Briggs, Langston	June 12	3,000
West Branch Creek	Pine	F. D. Briggs, Langston	June 12	4,500
West Lake Creek	Pine	F. D. Briggs, Langston	June 7	3,000
Inlet of Muscallonge Lake	Maple Valley, Montcalm and Spencer	F. D. Briggs, Langston	June 29	6,000
Kortes Creek	Pine	Jensen Bros., Trufant	June 29	6,000
Montmorency county:				
Thunder Bay River	Barry, Avery, Rust, Williams, Green and Alpena	J. M. Farrier, Hillman	June 9	22,500
North Branch of Thunder Bay River	Montmorency and Long Rapids	Geo. P. Crowley, Hillman	June 9	15,000
Muskegon county:				
Crockery Creek	Ravenna	C. A. Stauffer, Ravenna	May 29	9,000
Crockery Creek and tributaries	Casnovia	Elliott T. Slocum, Detroit	June 12	12,000
Newaygo county:				
Williams Creek	Sheridan	W. D. Sargeant, Fremont	May 29	4,500
White River	Severall	W. D. Sargeant, Fremont	May 29	15,000
Martin Creek	Denver	W. D. Sargeant, Fremont	May 29	4,500
Cedar Creek	Severall	Wm. Pomeroy, Holton	June 5	12,000
Brookesser Creek	Bridgeton and Sheridan	Floyd Matthews, Twin Lakes	June 5	6,000
Crockery Creek	Casnovia and Muskegon	C. L. Gold, Bailey	June 5	9,000
Crockery Creek	Ashland and Grant	A. J. Titus, Grant	June 5	9,000
White River	Wilcox	W. S. Barton, White Cloud	June 5	12,000
Robinson's Lake Outlet	Sherman	Chas. Streichhirsch, White Cloud	June 5	1,500
East Branch Cold Creek	15-14	Adelbert Branch, White Cloud	June 5	1,500
Cold Springs	Beaver and Manroe	Geo. R. Lyons, Hesperia	June 5	3,000
Minneapolis Creek	Beaver and Manroe	Geo. R. Lyons, Hesperia	June 5	3,000
Ryan Creek	15-14	W. A. Brunner, Howard City	June 5	6,000
Bordan Creek	Beaver and Manroe	H. N. Vandenberg, Howard City	June 12	3,000
Little South Branch of Pere Marquette River	Severall	Michigan Fish Commission, Detroit	June 18	30,000
Oakland county:				
Inlet in Deer Lake	Springfield	O. N. Gardner, Detroit	June 10	3,000
Headwaters of Huron River	White Lake and Springfield	B. T. Cooley, Clarkston	June 10	6,000
Stoney Creek	Oakland, Washington and Shelby	H. W. Bradley, Romeo	June 10	16,500
Tanner's Creek	Oxford and Orion	C. L. Randall, Oxford	June 13	3,000
Hummer Creek	Orion	Philo Ensley, Oxford	June 13	3,000
Thirston Creek	Orion	A. R. Bellaire, Oxford	June 13	3,000
Lanning Creek	Oxford	R. Marshall, Oxford	June 13	3,000

Rainbow Trout Plants, 1911.—Continued.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
1911.				
Oakland county.—Continued.				
Paint Creek	Oxford	R. Marshall, Oxford	June 13	3,000
Paint Creek		C. S. Chapman, Rochester	June 13	4,500
Field Creek and Huron River	Commerce	Tom Forbes, Milford	June 13	3,000
Huron River and tributaries	Commerce and Milford	T. H. Padley, Milford	June 13	9,000
Big Spring Creek and Round Lake	Highland	R. S. Potts, Milford	June 13	1,500
Pettibone Creek	Milford and Highland	R. S. Potts, Milford	June 13	3,000
MacIntyre Creek	Brandon	James Staples, Ortonville	June 13	3,000
Oceana county:				
Read Creek	Ferry and Elbridge	Fred Wright, Hart	May 29	4,500
North Branch of South Branch of Pentwater River	Elbridge	Ray Thompson, Hart	May 29	9,000
Coldwater River	Elbridge	Monroe Hall, Hart	May 29	9,000
Gene Rouse Creek	Hart	L. B. Mitchell, Hart	May 29	3,000
Cedar Creek	Elbridge	Ralph De Vries, Hart	May 29	6,000
Pentwater River	Pentwater and Weare	S. D. Montgomery, Grand Rapids	May 29	7,500
Pentwater River	Elbridge, Hart and Pentwater	Rufus Skeels, Hart	June 29	9,000
Ogemaw county:				
Detrich Creek	Churchill	Ed. Struble, Selkirk	May 25	9,000
Klacking and Perkins Creeks	Churchill	Carscallen Bros., Selkirk	May 25	6,000
Peach Lake Creek	West Branch	John Tolfree, West Branch	May 25	3,000
Wood's Creek	West Branch	John Tolfree, West Branch	May 25	3,000
Eddy Creek	21 W. R. 2 E. and 21 W. R. 3 E.	John Tolfree, West Branch	May 25	6,000
East Branch of Tittabawassee River	Horton	John Tolfree, West Branch	May 25	6,000
Rifle River	Churchill	Geo. Peter, Selkirk	May 25	9,000
C. K. Eddy Creek	Richland	Geo. Eyrmer, Prescott	June 9	4,500
Rifle River	Richland	Geo. Eyrmer, Prescott	June 9	12,000
Eddy Creek	Richland	Henry Zeran, Prescott	June 9	3,000
Silver Creek	Richland	Henry Zeran, Prescott	June 9	3,000
Rifle River	Rose, Cumming and others	D. D. Neal, Rose City	June 13	16,500
Otsego county:				
Headquarters of Sturgeon River	Several	R. H. L'Honnmedien, Detroit	May 25	55,500
Norton Creek	Middle Branch	Geo. Baird, Marion	June 1	3,000
Aldrich Creek	Marion	Geo. Baird, Marion	June 1	3,000
Hersey River above and below Reed City	Lincoln, Richmond and Hersey	J. H. Crocker, Reed City	June 6	13,000
Middle Branch of the Muskegon River	Marion	C. W. Graves, Dighton	June 6	15,000
Ottawa county:				
Pigeon River	Olive	C. McKinley, West Olive	May 29	6,000
Rush Creek	Georgetown	A. T. Wallace, Jenison	June 1	9,000
Presque Isle county:				
Middle Ocuqueoc River	Ocuqueoc	C. Atkins, Millersburg	June 9	6,000
Ocuqueoc River	Case	C. Atkins, Millersburg	June 9	15,000
Ocuqueoc River	Belknap and Rogers	B. G. Lark, Rogers City	June 9	9,000
Ocuqueoc River	Belknap and Pulaski	B. G. Lark, Rogers	June 9	6,000
Rosecommon county:				
Chapman creek	T. 21 W. R. 1 W. & T. 21 W. R. 1 E.	John Tolfree, West Branch	May 25	6,000
Spring Creek		C. F. Mickelson, Mason	May 25	4,500
Sanilac county:				
Leins or Burgess Creek	Sanilac	Geo. A. Burgess, Port Sanilac	June 14	6,000
Shiawassee county:				
Big Maple River	Ovid	F. D. Cleveland, Shepardsville	June 10	7,500
St. Joseph county:				
Klinger Lake Inlets	White Pigeon	Perry L. Turner, Elkhart	May 27	3,000
Inlet to Klinger Lake		Perry L. Turner, Elkhart	May 27	3,000
Fish Lake Outlet also Outlet to Hawkins Lake into Fish Lake	Burr Oak	Jas. R. Smith, Burr Oak	May 27	4,500
Fawn River	Constantine	W. N. Harvey, Constantine	May 27	6,000
Mill Creek	Constantine	W. N. Harvey, Constantine	May 27	6,000
Hog Creek or Prairie River	Florence	W. N. Harvey, Constantine	May 27	6,000
Heat Creek	Leonidas and Waukesha	T. E. Kline, Leonidas	May 24	7,500
Hog Creek	Lockport	F. R. Jackson, Three Rivers	June 3	4,500
Portage River and tributaries	Lockport	F. R. Jackson, Three Rivers	June 3	7,500
Keers Creek	Fabius	Amon Ives, Three Rivers	June 3	7,500
Tuscola county:				
Fryer's Creek	Dayton	Ed. D. Cartwright, Mayville	June 14	6,000
Van Buren county:				
East Branch Paw Paw River	Antwerp and Porter	R. D. Loveland, Paw Paw	May 31	7,500
Osborn Creek	Hamilton and Wayne	Chas. Stewart, Dowagiac	June 1	3,000
North Branch Big Dowagiac Creek	Decatur, Wayne, Silver Creek and Pokagon	Fred Phillips, Dowagiac	June 1	9,000
Washtenaw county:				
Huron River and Mill Creek	Ypsilanti and Pittsford	L. D. Alley, Dexter	May 24	12,000
South Branch of Paint or Clawson's Creek		Willard A. Clawson, Ypsilanti	May 24	6,000
Total				2,404,500

RAINBOW TROUT PLANTS, 1911.

FINGERLINGS.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Cheboygan county: South Twin Lake.....	Koehler.....	J. J. Jones, Indian River.....	1911. July 6	7,500
Clare county: Tobacco River.....	Surrey.....	W. C. Fuller, Farwell.....	July 21	9,000
Crawford county: Portage Lake.....	Grayling.....	Esbern Hansen, Grayling.....	July 7	7,500
Eaton county: Thornapple River.....	Benton.....	F. J. Johnson, Potterville.....	July 8	9,000
Jackson county: Whitman Creek.....	Springport and Clarence.....	Guy N. Lininger, Springport.....	July 10	6,000
Kent County: Mill Creek.....		Dwight Lydell, Comstock Park.....	July 5	15,000
Lake county: Pere Marquette River.....	Pleasant Plains, Webber and Sweet-water.....	Hon. G. M. Brown, Detroit.....	July 1	30,000
Mason county: Sauble River.....	Branch.....	C. Hagerman, Ludington.....	July 1	37,500
Muskegon county: Titabute Creek.....	Ravenna.....	A. E. Young, Ravenna.....	July 5	6,000
Cranberry Creek.....	Ravenna.....	S. L. Alberts, Ravenna.....	July 5	6,000
North Branch Crockery Creek.....	Ravenna.....	C. A. Stauffer, Ravenna.....	July 5	7,500
St. Clair county: Belle River.....	China, Cass and others.....	H. C. Radike, St. Clair.....	July 21	9,000
Washtenaw county: South Branch of Paint or Clawson's Creek.....		Willard A. Clawson, Ypsilanti.....	July 11	6,000
Total.....				156,000

BROWN TROUT PLANTS, 1911.

FRY AND ADVANCED FRY.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Charlevoix county: North Boyne River.....	Boyne Valley.....	John L. A. Galster, Boyne Falls.....	1911. Mar. 22	20,000
Mecosta county: Little Muskegon River.....	Morton.....	Ray Carman, Mecosta.....	Mar. 9	20,000
Paris Creek.....	Green.....	Michigan Fish Commission, Detroit.....	Mar. 30	100,000
Muskegon River.....	Green.....	Michigan Fish Commission, Detroit.....	April 15	30,000
Newaygo county: Little South Branch of Pere Marquette River.....	Home.....	Michigan Fish Commission, Detroit.....	April 15	100,000
Cedar Creek.....	Several.....	Wm. Pomeroy, Holton.....	Mar. 23	10,000
Ogemaw county: Rifle River.....	Richland.....	Henry Zeron, Prescott.....	Mar. 25	20,000
Total.....				300,000

BLACK SPOTTED TROUT, 1911.

FRY.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Newaygo county: Little South Branch Pere Marquette River.....	Home.....	Michigan Fish Commission, Detroit.....	1911. Aug. 31	20,000

LAKE TROUT PLANTS, 1911.

FRY AND ADVANCED FRY.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Alcona county:				
Hubbard Lake.....	Alcona.....	W. S. Linton, Saginaw.....	June 13.....	30,000.....
Hubbard Lake.....	Alcona.....	R. E. Ellsworth, Alpena.....	June 9.....	30,000.....
Antrim county:				
Elk Lake.....	Milton.....	Dr. E. C. Long, Elk Rapids.....	May 8.....	80,000.....
Torch Lake.....	Several.....	Wm. Childs, Kalkaska.....	May 8.....	100,000.....
Grass Lake.....	Several.....	A. B. Wooten, Bellaire.....	May 8.....	40,000.....
Torch Lake.....	Several.....	Mich. Fish Com'n.....	June 15.....	200,000.....
Barry county:				
Tyrell Lake.....	Baltimore.....	Ed. M. Pritchard, Hastings.....	June 12.....	20,000.....
Benzie county:				
Lake Ann.....	Almira.....	L. Berry, Lake Ann.....	May 13.....	22,000.....
Big Platte Lake.....	Benzonia.....	W. A. Lear, Benlah.....	May 13.....	34,000.....
Branch county:				
Kenyon Lake.....	Sherwood.....	Leo. E. Wood, Athens.....	May 24.....	10,000.....
Lower Lake.....	Sberwood.....	J. C. Gaw, Athens.....	May 24.....	10,000.....
Calhoun county:				
Duck Lake.....	Clarence.....	L. J. Devering, Albion.....	May 24.....	22,500.....
Nottawassippe Lake.....	Fredonia and Tekonsha.....	E. L. Holmes, Marshall.....	May 24.....	22,500.....
Cass county:				
Bunker Lake.....	Volinia.....	Floyd Brown, Marcellus.....	May 27.....	10,000.....
Charlevoix county:				
South Arm of Pine Lake.....	South Arm.....	H. S. Pioney, East Jordan.....	May 8.....	40,000.....
Cheboygan county:				
Burt Lake.....	Burt.....	J. W. Lester, Indian River.....	May 10.....	100,000.....
Mullet Lake.....	Several.....	Clyde King, Indian River.....	May 10.....	100,000.....
Chippewa county:				
Lake Superior.....	Whitefish Point.....	C. W. Endress, Soo.....	May 28.....	1,000,000.....
Whitefish Bay.....	Whitefish Point.....	C. W. Endress, Soo.....	June 4.....	1,000,000.....
Clare county:				
Budd Lake.....	Harrison.....	Geo. J. Cummins, Harrison.....	May 27.....	12,000.....
Elbow Lake.....	Franklin.....	W. E. Green, Harrison.....	May 27.....	7,500.....
Big Long Lake.....	Frost.....	W. E. Green, Harrison.....	May 27.....	12,000.....
Crawford county:				
Shoepack Lake.....	Maple Forest.....	T. E. Douglas, Lovells.....	May 11.....	30,000.....
Grand Traverse county:				
Green Lake.....	Green Lake.....	H. H. Olds, Bendon.....	May 8.....	40,000.....
Long Lake.....	Union.....	Kingsley Sportsmen's Club, Kingsley.....	May 12.....	20,000.....
Black Lake.....	Union.....	Kingsley Sportsmen's Club, Kingsley.....	May 12.....	16,000.....
Round Lake.....	Union.....	Kingsley Sportsmen's Club, Kingsley.....	May 12.....	16,000.....
Crooked Lake.....	Union.....	Kingsley Sportsmen's Club, Kingsley.....	May 12.....	20,000.....
Spider Lake.....	Union.....	Kingsley Sportsmen's Club, Kingsley.....	May 12.....	20,000.....
Rennie Lake.....	Union.....	Kingsley Sportsmen's Club, Kingsley.....	May 12.....	20,000.....
Blue Lake.....	Union.....	Kingsley Sportsmen's Club, Kingsley.....	May 12.....	20,000.....
Hogsback Lake.....	Union.....	Kingsley Sportsmen's Club, Kingsley.....	May 12.....	20,000.....
Fife Lake.....	Paradise.....	Kingsley Sportsmen's Club, Kingsley.....	May 12.....	16,000.....
	Fife Lake.....	Fred Bechstein, Fife Lake.....	May 24.....	14,000.....
Ionia county:				
Jordan Lake.....	Odessa and Woodland.....	Edwin Shellhorn, Lake Odessa.....	May 31.....	30,000.....
Jackson county:				
Spring Arbor Lake.....	Spring Arbor.....	Geo. E. Beebe, Jackson.....	May 23.....	7,500.....
Gillett's Lake.....	Leoni.....	Geo. E. Beebe, Jackson.....	May 23.....	15,000.....
Brill's Lake.....	Leoni.....	Geo. E. Beebe, Jackson.....	May 23.....	7,500.....
Big Portage Lake.....	Henrietta and Waterloo.....	Geo. E. Beebe, Jackson.....	May 23.....	15,000.....
Brown's Lake.....	Summit.....	Geo. E. Beebe, Jackson.....	May 23.....	7,500.....
Ackerson Lake.....	Summit.....	Geo. E. Beebe, Jackson.....	May 23.....	7,500.....
Wolf Lake.....	Napoleon.....	Geo. E. Beebe, Jackson.....	May 23.....	15,000.....
Vandercreek's Lake.....	Napoleon and Leoni.....	Geo. E. Beebe, Jackson.....	May 23.....	15,000.....
	Summit.....	Geo. E. Beebe, Jackson.....	May 23.....	7,500.....
Kent county:				
Schram and Rond Lakes.....	Oakfield.....	Freeman Addis, Harvard.....	May 29.....	10,000.....
Lake county:				
Crooked Lake.....	Cherry Valley.....	Andrew Loree, Nirvana.....	June 6.....	20,000.....
Sand Lake.....	Elk and Stronach.....	Earl Fairbanks, Luther.....	June 6.....	20,000.....
Sable Lakes, Four.....	Elk.....	H. O. Thompson, Peacock.....	June 6.....	30,000.....
Leelanau county:				
Glen Lake.....	Several.....	D. H. Day, Glen Haven.....	June 13.....	40,000.....
Glen Lake.....	Several.....	D. H. Day, Glen Haven.....	June 13.....	40,000.....
Lenawee county:				
Round Lake.....	Rollin.....	W. E. Alchin, Townley.....	June 3.....	14,000.....
Goose Lake.....	Woodstock.....	W. J. Baner, Cement City.....	June 3.....	14,000.....
Devil's Lake.....	Rollin and Woodstock.....	W. J. Hampton & Son, Manitou Beach.....	June 3.....	20,000.....
Evans Lake.....	Franklin.....	Wiltard Mitchell, Tipton.....	May 24.....	14,000.....
Montcalm county:				
Crystal Lake.....	Crystal.....	C. W. La Du, Crystal.....	May 29.....	30,000.....
Montmorency county:				
Wolf Lake.....	Albert.....	Geo. F. Sachs, Lewiston.....	May 11.....	20,000.....
Long Lake.....	Hillman.....	E. W. Conper, Hillman.....	June 9.....	20,000.....

Lake Trout Plant, 1911.—Concluded.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Muskegon county:				
Wolf Lake	Eggleston	E. D. Magoon, Muskegon	May 29	16,000
Big Blue Lake	Blue Lake	E. D. Magoon, Muskegon	May 29	16,000
Big Blue Lake	Blue Lake	Hon. Fred J. Russell, Hart	May 29	16,000
Newaygo county:				
Diamond Lake	Lincoln	Capt. W. H. Bigelow, Chicago, Ill.	June 5	16,000
Long Lake	Sherman	Jacob Kemperman, Fremont	May 29	16,000
Robinson's Lake	Sherman	Chas. Streichhirsch, White Cloud	June 5	10,000
Oakland county:				
Maceday Lake	Waterford	C. C. Craigie, Waterford	June 10	20,000
Cass Lake	West Bloomfield	E. E. Sweet, Detroit	June 10	30,000
Otsego county:				
Chub Lakes	Otsego	J. Soderberg, Otsego Lake	May 10	40,000
Ogemaw county:				
Sage Lake	Hill	J. E. Ranger, Hale	June 13	20,000
Ottawa county:				
Cranberry Lake	Wright	Dr. E. O. Cilley, Conklin	May 29	14,000
Spring Lake	Spring Lake	Samuel Falls, Spring Lake	May 29	30,000
Roscommon county:				
Higgins Lake	Gerrish	W. H. Lansing, Roscommon	May 10	40,000
Van Buren county:				
Lake Cora	Paw Paw	C. E. Fox, Lake Cora	June 1	14,000
Washtenaw county:				
Big and Little Portage Lakes (connected)		R. H. Killian, Ypsilanti	June 1	30,000
Total				3,932,000

TWENTIETH REPORT—STATE FISHERIES.

LANDLOCKED SALMON, 1911.

FINGERLINGS.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Chippewa county:				
Soo Rapids		Mich. Fish Commission, Detroit	July 27	8,000
Crawford county:				
Portage Lake Inlets	26 N. R. 4 W.	Hon. Chas. Blair, Lansing	Aug. 11	5,000
Total				13,000

TWENTIETH REPORT—STATE FISHERIES.

SMALL MOUTH BLACK BASS PLANTS, 1911.

ADVANCED FRY.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Allegan county:				
Fenner and Pratt Lakes	Martin	Wm. Mc Loud, Martin	May 25	6,000
Kalamazoo River	Allegan	Ed. J. Anderson, Plainwell	May 25	6,000
Kalamazoo River	Saugatuck	James Perry, Douglas	May 26	6,000
Kalamazoo River	Saugatuck	Chas. E. Bird, Saugatuck	May 26	6,000
Kalamazoo Lake	Saugatuck	C. L. Fosdick, Fennville	May 26	6,000
Barry county:				
Durham Lake	Assyria	Hugh S. Jones, Bellevue	May 24	4,000
Gun Lake	Orangeville	Winfield Matteson, Shelbyville	May 25	6,000
Jones Lake	Hope	Aaron Chandler, Delton	May 26	6,000
Mud Lake	Hope	Orvid Chamberlin, Cloverdale	May 26	6,000
Twenty-one Lake	Hope	Pete Kingsbery, Cloverdale	May 26	6,000
Horseshoe Lake	Hope	Hiram Gibson, Cloverdale	May 26	6,000
Long Lake	Hope	H. Dickinson, Hastings	May 26	6,000
Head Lake	Hope	H. Dickinson, Hastings	May 26	6,000
Long Lake	Hastings	Scott Mc Intosh, Quimby	May 26	4,000
Belson Lake	Rutland	Harry Blake, Hastings	May 26	4,000
Thornapple River	Rutland	John M. Perry, Irving	May 26	6,000

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County and name of water.	Township.	Applicant or depositor.	Date.	Nmber.
Berrien county:				
Singer Lake	Oronoko	G. O. Mc Oraber, Berrien Springs	May 25	4,000
St. Joseph River and Power Pond	Oronoko	G. O. Mc Oraber, Berrien Springs	May 25	6,000
Clear Lake	Buchanan	A. A. Worthington, Buchanan	May 25	4,000
Madron Lake	Buchanan	J. E. Scott, Buchanan	May 25	4,000
Wilson Lake	Bertrand	J. E. Scott, Buchanan	May 25	4,000
Pike Lake	Bertrand	J. E. Scott, Buchanan	May 25	4,000
Branch county:				
Coldwater Lake	Ovid	The Branch County Rod & Gun Club, Coldwater	May 25	6,000
North, South, Messenger, Craig and Morrison Lakes	Coldwater	F. T. Tappan, Coldwater	May 25	8,000
Morrison, Bennet, North and South Lakes	Coldwater	F. T. Tappan, Coldwater	May 25	6,000
Calhoun county:				
Nottawaseppi Lake	Fredonia and Tekonsha	L. A. Harmon, Marshall	May 24	6,000
Lyon Lake	Fredonia and Tekonsha	E. L. Holmes, Marshall	May 24	4,000
Long and Pine Lakes	Fredonia and Tekonsha	W. J. Clayborne, Marshall	May 24	6,000
Maynard Lakes	Eckford	F. I. Colgrove, Marshall	May 24	4,000
Rice Creek	Marengo	C. E. Gauss, Marshall	May 24	4,000
Kinyon Lake	Convis	A. B. Osborne, Marshall	May 24	4,000
Kalamazoo River below dam	Marshall	John L. Bean, Marshall	May 24	6,000
Ceresco Pond—Kalamazoo River	Marshall	H. K. Culver, Ceresco	May 24	4,000
Ceresco Pond	Marshall	H. Lehman, Ceresco	May 24	4,000
Lake Goguae	Battle Creek	Ben D. Brockett, Battle Creek	May 24	4,000
Kalamazoo River Millpond	Marshall	F. R. Moses, Marshall	May 24	6,000
Cass county:				
Magician Lake	Silver Creek	F. H. Coddling, D. D. S., Dowagiac	May 25	12,000
Miller Lake	Marcellus	C. S. Jones, Marcellus	May 26	4,000
Shovehead Lake	Porter	H. Sears, Vandalia	May 26	6,000
Fish Lake	Marcellus	C. N. Goff, Marcellus	May 26	6,000
Hemlock Lake	Marcellus	A. L. Maxam, Marcellus	May 26	6,000
Lewis Lake	Marcellus	W. S. Jones, Marcellus	May 26	6,000
Grand Traverse county:				
Cedar Hedge Lake	Green Lake	W. Pennington, Interlochen	May 29	6,000
Green Lake	Green Lake	W. Pennington, Interlochen	May 29	8,000
Ionia county:				
Jordan Lake	Odessa and Woodland	Edwin Shellhorn, Lake Odessa	May 27	6,000
Kalamazoo county:				
Long Lake	Portage	Henry Waruf, Kalamazoo	May 25	4,000
Kimbal Lake	Schoolcraft	Harry M. Day, Vicksburg	May 25	4,000
Howard's Lake	Schoolcraft	A. Hoffman, Kalamazoo	May 25	4,000
Austin Lake	Portage	Chas. E. Lyon, Vicksburg	May 25	6,000
Eagle Lake	Texas	Andrew Rienstra, Oshtemo	May 25	6,000
White's Lake	Kalamazoo	County Club Realty Co., A. H. Snook, Secy., Kalamazoo	May 25	6,000
Eagle Lake	Texas	Geo. Bolinger, Oshtemo	May 25	6,000
Rawson or Barton's Lake	Schoolcraft	Thos. Hewitt, Schoolcraft	May 26	6,000
Kent county:				
Mc Kewen Lake	Lowell	Chas. E. Brown, Alto	May 26	6,000
Muskegon county:				
Half Moon Lake	Casnovia	C. L. Gold, Bailey	May 29	6,000
Moore's Lake	Casnovia	Herbert Church, Bailey	May 29	6,000
St. Joseph county:				
J. E. Nixon Pond	Leonidas	N. H. Turner, Leonidas	May 24	4,000
Long Lake	Colon	Vance Livermore, Burr Oak	May 25	6,000
E. N. King Pond	Leonidas	Edwin N. Ferris, Leonidas	May 24	4,000
Bear Creek	Leonidas	C. H. Robinson, Leonidas	May 24	4,000
Notaway Creek	Leonidas	J. L. Damon, Leonidas	May 24	4,000
Sand Lake	Nottawa	M. Bowersox, Nottawa	May 24	4,000
Hog Lake	Burr Oak	Jas. R. Smith, Burr Oak	May 25	6,000
Portage River Pond	Lockport	E. P. Hart, Three Rivers	May 26	6,000
Pleasant Lake	Fabius	E. P. Hart, Three Rivers	May 26	6,000
Fisher's Lake	Lockport and Park	Claude Felker, Three Rivers	May 26	6,000
Rock River Pond	Lockport and St. Joseph	C. L. Frey, Three Rivers	May 26	6,000
Corey Lake	Fabius	W. Pulver, Three Rivers	May 26	6,000
Van Buren county:				
Eagle Lake	Paw Paw	Ben Desenbury, Lawton	May 25	6,000
Three Mile Lake	Paw Paw	Wm. M. Kirkwood, Paw Paw	May 26	4,000
Base Line Lake	Geneva	W. E. Grimes, South Haven	May 26	4,000
Little Bear Lake	Columbia	E. B. Eddy, Grand Junction	May 26	6,000
Lake Cora	Paw Paw	Otto Ihling, Kalamazoo	May 26	6,000
Total				400,000

TWENTIETH REPORT—STATE FISHERIES.

TWENTIETH REPORT—STATE FISHERIES.

SMALL MOUTH BASS PLANTS, 1911.

FINGERLINGS NOS. 1, 2, 3 AND 4.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Alger county: Reedies Lake.....	Au Train.....	Fred S. Case, Wetmore.....	July 12	600
Half Moon Lake.....	Munising.....	H. Malott, Detroit.....	July 12	600
Antrim county: Torch Lake.....	Extends through 3 Townships.....	F. B. Dickerson, Detroit.....	July 20	1,000
Baraga county: Beaufort Lake.....	Spurr.....	Peter Trndell, Jr., Negaunee.....	July 14	800
Lake Ruth.....	Spurr.....	Peter Trudell, Jr., Negaunee.....	July 14	600
Bella Lake.....	Spurr.....	Silver River Rod & Gun Club, L'Anse.....	July 14	600
Benzie county: Big Platte Lake.....	Benzonla.....	J. S. Thompson, Beulah.....	July 6	750
Little Platte Lake.....	Lake and Platte.....	E. A. Conklin, Honor.....	July 6	750
Platte Lake.....	Bingham and Lake.....	L. H. Stacey, Honor.....	July 6	750
Bass Lake.....	Lake.....	W. B. Covey, Honor.....	July 6	750
Otter Lake.....	Lake.....	W. B. Covey, Honor.....	July 6	750
Berrien county: Little Paw Paw Lake.....	Watervliet.....	George Lorenz, Coloma.....	June 30	1,500
Paw Paw Lake.....	Watervliet.....	E. E. Rowland, Watervliet.....	June 30	1,500
Branch county: Coldwater River.....	Coldwater.....	F. T. Tappan, Coldwater.....	July 3	1,500
Coldwater Lake.....	Coldwater.....	F. T. Tappan, Coldwater.....	July 3	1,000
Cass county: Dewey Lake.....	Silver Creek.....	J. W. Burke, Dowagiac.....	Aug. 5	150
Calhoun county: Duck Lake.....	Clarence.....	L. J. Devering, Albion.....	July 7	1,000
Charlevoix county: Walloon Lake.....	Melrose and Evangeline.....	J. W. Hunter, Grand Rapids.....	June 10	4,000
Dear Lake.....	Boyne Valley.....	Wm. J. Pearson, Boyne Falls.....	June 30	1,500
Cheboygan county: Long Lake.....	Grant and Benton.....	Fred S. Burgess, Detroit.....	June 24	4,000
Chippewa county: Duck Lake.....	Sugar Island.....	Chase S. Osborn, Sault Ste. Marie.....	July 21	1,500
Clare county: Fisher's Lake.....	Hatton.....	C. A. Klemm, Chicago, Ill.....	July 3	1,500

TWENTIETH REPORT—STATE FISHERIES.

Clinton county: Park Lake.....	Bath.....	Myles F. Gray, Lansing.....	June 23	1,500
Crawford county: Portage Lake.....	Grayling.....	C. P. Mickelson, Mason.....	June 24	3,000
Twin Lakes.....	Maple Forest.....	Marius Hanson, Grayling.....	June 24	3,000
K. P. Lake.....	Maple Forest.....	Geo. F. Owen, Lovells.....	July 7	800
Shoepack Lake.....	26 N. E. 4 W.....	T. E. Douglas, Lovells.....	July 7	800
Portage Lake.....		Hon. Chas. Blair, Lansing.....	July 27	375
Emmet county: Round Lake.....	Bear Creek.....	Henry Lindig, Petoskey.....	June 10	4,000
Gladwin county: Pratt's Lake.....	Sage.....	Hon. Eugene Foster, Gladwin.....	July 7	1,000
Gratiot county: Pine River.....	Pine River.....	S. S. Dixon, St. Louis.....	June 13	4,000
Grand Traverse county: Duck Lake.....	Grant and Long Lake.....	R. B. De France, Kingsley.....	June 13	4,000
Big Umicic Lake.....	Union.....	R. B. De France, Kingsley.....	June 13	3,000
Little Umicic Lake.....	Union.....	R. B. De France, Kingsley.....	June 13	2,000
Silver Lake.....	Garfield.....	Wm. Saunders, Traverse City.....	June 13	4,000
Boardman Lake.....		Mich. Fish Commission, Detroit.....	June 27	4,000
Hillsdale county: Baw Bees Lake.....	Hillsdale and Cambria.....	W. C. Kemp, Hillsdale.....	June 28	1,500
Houghton county: Fales Lake.....	Elm River.....	Geo. Williams, Calumet.....	July 14	800
Ingham county: Pine Lake.....	Meridian.....	J. Edward Roe, Lansing.....	June 14	4,000
Pine Lake.....	Meridian.....	J. Edward Roe, Lansing.....	Aug. 24	500
Hughes Lake.....	Ingham.....	Hon. G. E. Sanders, Mason.....	June 23	1,500
Park Lake.....	Meridian.....	Hon. G. E. Sanders, Mason.....	June 23	1,500
Dobie Lake.....	Alaiedon.....	Hon. G. E. Sanders, Mason.....	June 23	1,500
Jackson county: Stony Lake.....	Napoleon.....	M. E. Russell, Napoleon.....	June 23	1,500
Pleasant Lake.....	Henrietta.....	C. M. Norton, Lansing.....	June 23	2,000
Fay Lake.....	Norvell.....	Hon. L. W. Watkins, Norvell.....	June 28	2,000
Keweenaw county: Lac La Belle.....	Grant.....	Jos. W. Selden, Calumet.....	July 14	800
Gratiot Lake.....	Grant.....	Wm. Lyon, Calumet.....	July 14	1,000
Lake county: Sable Lakes.....	Elk.....	Wm. Utter, Peacock.....	June 21	3,000
Big Star Lake.....		Elmer Smith, Baldwin.....	June 21	4,000

TWENTIETH REPORT—STATE FISHERIES.

Small Mouth Black Bass, 1911.—Concluded.

County and name of water.	Township.	Applicant or depositor.	Date.	Number.
Leelanau county:				
Glen Lake.....	Glen Arbor, Empire and Kasson.....	D. H. Day, Glen Haven.....	July 6	1,000
North Bar Lake.....	Empire.....	James Dailey, Empire.....	July 6	750
Carp Lake.....	Leland, Centerville and Solon.....	Albert Meafoy, Provement.....	July 6	1,000
Lime Lake.....	Cleveland.....	Elmer Billman, Cedar.....	July 6	1,000
Leg Lake.....	Leelanau.....	Gilman M. Dame, Northport.....	July 29	475
Lenawee county:				
Wampler's Lake.....	Cambridge and Norvell.....	Hon. L. W. Watkins, Manchester.....	June 28	2,000
Silver Lake.....	Woodstock.....	W. H. Harris, Clement City.....	July 1	1,500
Round Lake.....	Rollin.....	W. E. Aitchin, Townley.....	July 1	750
Mackinaw county:				
Brevort Lake.....	Brevort.....	Wm. Massey, Jr., Allenville.....	July 12	800
Marquette county:				
Pellessiers Lake.....	Sands.....	Hon. W. S. Ewing, Harvey.....	July 12	800
Strawberry Lake.....	Sands.....	Hon. W. S. Ewing, Harvey.....	July 12	600
Lake Michigamme.....	Michigamme.....	Geo. A. Newett, Ishpeming.....	July 12	1,000
Gibson Lake.....	.....	Geo. A. Newett, Ishpeming.....	July 12	400
Sundstrom Lake.....	.....	Geo. A. Newett, Ishpeming.....	July 12	600
Fence Lake.....	.....	Geo. A. Newett, Ishpeming.....	July 12	400
Silver Lake.....	Champion.....	Geo. Voelker, Ishpeming.....	July 14	800
Mecosta county:				
Rogers Pond.....	Mecosta, Austin, Colfax and Big Rapids.....	M. E. Darrath, Big Rapids.....	June 14	3,000
Chippewa Lake.....	Chippewa.....	Chippewa Park Assn., Big Rapids.....	June 19	3,000
Chippewa River.....	Union.....	Palmer & Taggart, Mt. Pleasant.....	Aug. 2	1,000
Monroe county:				
River Raisin.....	.....	C. W. Kimmerle, Monroe.....	July 15	1,000
Montcalm county:				
Baldwin Lake.....	Eureka.....	R. C. Ecker, Greenville.....	June 13	3,000
Muskegon county:				
Big Blue Lake.....	Blue Lake.....	Hon. F. J. Russell, Hart.....	June 13	4,000
White Lake.....	Montague.....	Joho Hall, Montague.....	June 10	4,000
Oakland county:				
Crawford Lake.....	Bloomfield.....	Hugh Chalmers, Detroit.....	July 26	750
Green Lake.....	West Bloomfield.....	W. E. Flanders, Orchard Lake.....	July 26	750
Casa Lake.....	West Bloomfield.....	E. E. Sweet, Detroit.....	July 26	600
Deer Lake.....	Independence.....	Oliver N. Gardner, Detroit.....	July 26	600
Oshtemo county:				
Hilberg Lake.....	Golden.....	Fred A. Hart, Mears.....	June 10	3,000
Round Lake.....	Golden.....	L. P. Munger, M. D., Hart.....	June 10	2,000
Silver Lake.....	Golden.....	E. A. Post, Mears.....	June 10	3,000
Richmond's Pond.....	Golden.....	E. A. Post, Mears.....	June 10	3,000
Pentwater Lake.....	Pentwater.....	C. F. Lewis, Pentwater.....	June 10	3,000
Osceola county:				
Hewitt Lake.....	Burdette.....	Hon. J. M. Perry, Tustin.....	June 10	2,000
Big Lake.....	Orient.....	S. F. Postal, Ewart.....	June 14	3,000
Strawberry Lake.....	Cedar.....	Wm. F. Ramsey, Ewart.....	June 14	2,000
Ottawa county:				
Spring Lake.....	Spring Lake.....	Samuel Falls, Spring Lake.....	June 13	4,000
Cove Lake or Stern's Bayou.....	Robinson.....	Hon. W. H. Clark, Grand Haven.....	June 13	3,000
Presque Isle county:				
Grand Lake.....	Presque Isle and Krakow.....	Jos. E. Kauffman, Presque Isle.....	July 31	900
Saginaw county:				
Saginaw River.....	Saginaw.....	W. J. Hunsaker, Saginaw.....	Oct. 12	450
Saginaw River.....	Severel.....	W. S. Linton, Saginaw.....	July 7	2,000
Van Buren county:				
Three Mile Lake.....	Paw Paw.....	Wm. M. Kirkwood, Paw Paw.....	July 7	1,000
Total.....				156,100

TWENTIETH REPORT—STATE FISHERIES.

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