

XXXII.—REPORT OF THE DIVISION OF DISTRIBUTION OF THE UNITED STATES FISH COMMISSION FOR THE YEAR 1883.

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I.—OFFICE SERVICE.

All applications made to the United States Fish Commission for fish or eggs go to the division of distribution. Here they are filed, indexed, and all particulars embodied in the applications entered into the serial register, which constitutes a part of the permanent records of the office. The action taken upon each is also entered in the register, so that this furnishes a complete history of every application reaching the office of the United States Fish Commission. All applications are acknowledged by a postal card informing the applicant when to expect his fish.

In the register the applications are entered seriatim in the order in which they are received. For convenience of reference and to facilitate the distribution, the applications are classified by States and counties; all the counties in the same Congressional district are grouped together to form what are known as Congressional lists. These are always ready for inspection or reference, and a Congressional Representative can learn at a glance the number and names of all applicants for carp in his district and the status of their applications.

When the date of distribution to a particular section of the country is determined upon, information is mailed to each applicant who is to receive fish, of the time at which to expect them and the destination to which they will be sent.

For the guidance of the messengers engaged in making the distribution, transcripts of the Congressional lists are made, and specific instructions are prepared prescribing the route to be traversed, the points from which distribution by express is to be made, and regulating all the details of the work.

For each State a central point for distribution is selected, to which the fish are sent in charge of messengers. Preliminary to the distribution the messenger in charge sends to each applicant a postal notice, informing him at what date the fish will be forwarded from the depot or center of distribution, and to what express office they will be consigned. The shipping tag attached to each pail is doubled, and in the fold is placed a blank postal receipt, to be signed and mailed to the office of the Commission. Usually this is promptly done, and by the

time a messenger gets back to headquarters most of the receipts showing the safe delivery of the fish have reached the files of the division of distribution.

The total number of applications for carp filed since the inauguration of the work of distribution is about 25,000. These are numbered seriatim in the order of date of reception, and the receipts are numbered to correspond with the applications to which they belong.

The total number of applications filed during the year 1883 was 10,060, classified by months, as follows:

January, 800; February, 820; March, 860; April, 800; May, 200; June, 500; July, 580; August, 560; September, 1,380; October, 1,920; November, 800; December, 840. Total, 10,060.

The preparation of the correspondence relating to distribution, or incidental to it, and the replies to the numerous and diversified inquiries relating to fish culture in general, is also one of the duties of the chief of the division of distribution.

Much of the correspondence relates to routine matters, and is prepared by Mr. J. J. O'Connor, the very efficient corresponding clerk in the division of distribution.

Much of it, however, relates to the general administration of the division or other matters necessitating the personal attention of the chief of the division, and in many cases much time is consumed in preparing the necessary data upon which to base satisfactory replies.

Under the instructions of the Commissioner, the chief of the division of distribution is charged with the direction and control of the *Central Station* of the Commission, in Washington, and of the trout-breeding station at Wytheville, Va.

The former, if its importance is to be measured by the results obtained, is the principal station for the production of shad fry for transplanting to new or depleted waters, while the latter is the only station devoted to the raising of the rainbow trout for transplanting to suitable streams in the Atlantic and Gulf States.

Separate reports for each station will be found elsewhere in this volume.

II.—CAR AND MESSENGER SERVICE.

After the completion of the carp distribution of 1882, Fish Commission cars Nos. 1 and 2 were sent to the shops and were thoroughly overhauled and put in complete repair in preparation for the spring work. Early in February car No. 1, in charge of J. F. Ellis, was put in commission and ordered to Northville, Mich., to report to F. N. Clark, superintendent of Northville Station, and make the distribution of whitefish fry from there. An account of this work and a tabular summary of the distribution will be found in the report of the United States Fish Commission for 1882.

Car No. 1 was held in reserve for the shad work. This was delayed for ten days or more beyond the usual period, in consequence of the

abnormally low temperature which prevailed in the Potomac River, the effect being to retard greatly the ripening of the fish. The first messenger shipment was made to the Monocacy, a tributary of the Potomac, on April the 30th.

The first car shipment, consisting of 238,000 shad and 4,300,000 herring, was made May 10; the shad being planted in the Scioto River at Chillicothe, and the herring in the Ohio River in the vicinity of Cincinnati.

The second trip of car No. 2 was with 1,350,000 shad for James River. These were planted in fine condition in the river several miles above Boshers's Dam. Dr. W. M. Hudson, the Commissioner of Fisheries for Connecticut, accompanied the car as the guest of the Commission, he having been designated by the United States Commissioner to inspect and make a report upon the working of the McDonald fishway at Boshers's Dam.

Car No. 2 completed the white fish distribution May 10 and shortly afterwards reported at headquarters in Washington, in readiness for the shad work.

Being fitted with the necessary machinery and appliances for maintaining a regular circulation of water, it was determined to test its efficiency in shad work. The entire shipment of 1,200,000 shad destined for the Savannah and the Congaree Rivers was divided, one-half being placed in ordinary transportation cans, the other in the automatic circulating cans. The fish in the latter proved a total loss. This experiment, while discouraging, does not give occasion to doubt eventual success, when we shall have studied and better understand the conditions upon which success depends. An interesting feature of the season's work is the large plant of herring (4,300,000) made in the Ohio in the vicinity of Cincinnati. This and the plant of 2,000,000 made in the Colorado River of Texas, in 1882, would seem sufficient to test the probability of acclimating this important species in the rivers tributary to the Gulf of Mexico.

The total number of shad and herring fry distributed through Central Station for the season of 1883 is as follows:

	Shad.	Herring.
Susquehanna River:		
Battery Station.....	1, 275, 000	.....
Potomac River:		
Fish Hawk Station.....	1, 084, 000	6, 850, 000
Central Station.....	9, 449, 000	.....
Total.....	12, 408, 000	6, 850, 000

A tabular summary of the distribution of shad and herring for the season of 1882 will be found in Table I. This summary is based upon the reports of messengers in charge of shipments, and gives the number actually planted. The discrepancies between Table I and the tables of distribution, given under the head of propagation in the report of Central Station, indicate the losses in transportation.

TABLE I.—SHAD AND HERRING FRY DEPOSITED IN WATERS OF THE UNITED STATES DURING THE SEASON OF 1883.

Date.	Number of shad.	Number of herring.	Stream.	Point of deposit.	Where hatched.	Messenger in charge.
Apr. 30	250,000		Monocacy	Frederick City Junction, Md.	Central Station	Frank L. Donnelly.
May 3	175,000		do	do	do	Do.
5	111,000		Potomac	Little Falls, Md.	Central Station and steamer Fish Hawk	Joseph Mace.
6	223,000		Scioto	Chillicothe, Ohio	Steamer Fish Hawk	G. H. H. Moore.
10		4,300,000	Ohio	Cincinnati, Ohio	Central Station	Do.
14	410,000		Potomac	Little Falls, Md.	do	Joseph Mace.
14	300,000		Potomac	Month of Savage River, Md.	do	Harry Quinn.
15	247,000		Dan	Danville, Va.	do	G. G. Davenport.
16	277,000		James	Richmond, Va.	do	G. H. H. Moore.
17	1,300,000		Shenandoah	Strasburg, Va.	Steamer Fish Hawk	G. G. Davenport.
17	175,000		Patuxent	Laurel, Md.	do	Gus Stewart.
18	175,000		do	do	do	Do.
18	552,000		Illinois	Peoria, Ill.	Central Station	G. H. H. Moore.
19	552,000		do	Havana, Ill.	do	Do.
19		850,000	do	Peoria, Ill.	do	Do.
19	250,000		Holston	Union Depot, Chattanooga, Tenn.	Steamer Fish Hawk	Harry Quinn.
22	250,000		Savannah	Tugalo, Ga.	Central Station and steamer Fish Hawk	G. G. Davenport.
22	300,000		Waters of South Carolina	Columbia, S. C.	Central Station	C. J. Huske.
23	150,000		James	Lynchburg, Va.	do	William F. Page.
24	300,000		Potomac	Cumberland, Md.	Steamer Fish Hawk	Harry Quinn.
25	1,500,000		Hudson	Troy, N. Y.	do	G. H. H. Moore.
26	329,000		Potomac	Cumberland, Md.	Central Station and steamer Fish Hawk	Harry Quinn.
27	300,000		Smith	Waynesboro', Va.	do	G. G. Davenport.
28	150,000		Ohio	Marletta, Ohio	Steamer Fish Hawk	Harry Quinn.
29	800,000		Savannah	Near Toccoa City, Ga.	do	Harry Quinn.
29	350,000		Conasahe	Columbia, S. C.	do	G. H. H. Moore.
29	350,000		Kentucky	High Bridge, Ky.	do	Harry Quinn.
31	232,000		do	Frankfort, Ky.	do	G. G. Davenport.
31	230,000		Green	Manfordsville, Ky.	do	J. Frank Ellis.
31	230,000		Salt	Shepherdsville, Ky.	do	Do.
31	230,000		Barren	Bowling Green, Ky.	do	Do.
31	200,000		Potomac	South Branch Depot, West Virginia.	do	Do.
June 4	105,000		Oconee	Milledgeville, Ga.	Battery Station	Harry Quinn.
4	350,000		Ocmulgee	Macon, Ga.	Central Station	J. Frank Ellis.
8	270,000		Bayou	Pas Manchac, La.	do	Do.
8	270,000		do	La Fourche, La.	do	G. H. H. Moore.
8	270,000		do	Vermillion, La.	do	Do.
9	50,000		Snokoy Hill	Near Junction City, Kans.	Battery Station	Harry Quinn.
9	50,000		Republican	do	do	Do.
13	200,000		Hudson	Van Wagner, N. Y.	Central and Battery Stations	William F. Page.
	12,408,000					
		6,850,000				

The last car shipment of shad was made June 8 by car No. 1, in charge of G. H. H. Moore, to streams in Louisiana, 270,000 fry being deposited in Pass Manchac, a bayou draining the waters of Lake Maurepas into Lake Pontchartrain, and a like number in Bayou La Fourche and Vermillion River.

The work of shad distribution closed with a messenger shipment of 200,000 fry to the Hudson River. These were planted in good condition at Van Wagner, N. Y., by Mr. W. F. Page, the messenger in charge.

Upon the completion of the shad distribution, the Fish Commission cars Nos. 1 and 2 were, as usual, refitted and repaired so as to be ready for the opening of the carp work in October, and the messenger force furloughed without pay, subject to call when needed.

CARP DISTRIBUTION OF 1883.

Preparation for this began October 21, J. F. Ellis and G. H. H. Moore, messengers in charge, being ordered to duty, and directed to equip their cars in readiness for immediate service.

The actual work of distribution did not begin, however, until the last of October, in consequence of the delay in drawing the ponds. The first shipment was made October 30, car No. 2, in charge of J. F. Ellis, being dispatched to Louisville with 15,000 carp for the supply of applicants in Kentucky.

The distribution by express was made from the Exposition grounds in compliance with the request of the Commissioners, who desired the car and the methods of distribution to be made a part of the Government exhibit.

Apprehending an early closure of the waters in the Northwest by ice, and consequent interruption of the work, should there be delay in sending the carp, car No. 1, in charge of G. H. H. Moore, was dispatched November 5 with 20,000 carp for the supply of all applicants in Iowa, Wisconsin, Minnesota, Dakota, Oregon, and Washington Territory. The liberal concession of free transportation over the line of the Northern Pacific between Saint Paul, Minn., and Portland, Oreg., which was so generously afforded by Mr. Villard, the president, made possible this work, so important in the interests of fish culture.

The departure of car No. 1 for the supply of the Northwest and North Pacific coast States was followed November 8 by the dispatch of car No. 2 with 13,000 fish for the supply of applicants in Canada, Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, and Northern New Jersey. The distribution to New York and New Jersey was made by express from New York City, Mr. E. G. Blackford, commissioner of fisheries for New York, as usual, affording every facility for the convenience of the work. The distribution to the Northeastern States and Canada was made by express from Boston.

The experience of several seasons having demonstrated that a satisfactory distribution of carp could be made only in the fall and early

winter the work was planned so as to bring it to a close by the 1st of January.

To accomplish this, recourse was had to express shipments on a large scale with the result of reducing considerably the cost of the distribution.

On November 8, 15,000 carp, destined for the supply of applicants in Illinois, were forwarded by express from Washington to Dr. Bartlett, State commissioner of fisheries at Quincy, Ill. Mr. Newton Simmons, messenger, accompanied the shipment to see that the crates were properly handled in transferring. The fish received no change of water en route, and reached their destination in fine condition. The distribution to applicants was made through the agency of Dr. Bartlett, the State commissioner of Illinois.

This movement of 15,000 carp a distance of 1,000 miles in charge of a single messenger forcibly illustrates the improvement in methods of transportation introduced since 1881. By the methods in vogue prior to that date it would have required ten messenger shipments to have accomplished the same work, and would have involved tenfold the cost.

On November 14, 5,000 carp were forwarded by express to Indianapolis, for the supply of applicants in Indiana. Mr. Simmons was instructed by telegram to meet the fish at that point, and after sending the usual messenger notices in advance to make the distribution by express. This being accomplished, he was ordered to Columbus, Ohio, to await the arrival of the carp for the supply of applicants in Ohio and Michigan. On November 20 the 5,000 carp required for this purpose were forwarded by express. They arrived at Columbus in good condition and a satisfactory distribution was shortly accomplished. The total number of fish distributed to the four States above named was 24,000, equal in number to the entire crop of 1880, and this work was accomplished at little more than the cost of a single messenger shipment of 1,500 fish made under the system of distribution employed prior to 1881.

On November 13 car No. 2, having completed the Northeastern distribution, was dispatched with 17,000 carp for the supply of applicants in Kansas, Nebraska, Colorado, Utah, Wyoming, Montana, Idaho, Nevada, and California.

On December 4 car No. 1, having completed the distribution along the line of the Northern Pacific, was sent with 17,000 carp for the supply of applicants in Arizona, Arkansas, Indian Territory, Louisiana, Mississippi, Missouri, New Mexico, Tennessee, and Texas.

On December 7 a depot of distribution was established at Atlanta, Ga., for the supply of applicants in Alabama, Georgia, and Florida. Mr. F. L. Donnelly was placed in charge of the work, the distribution to applicants being made by express from Atlanta. To supply applicants in North Carolina and South Carolina carp were sent in bulk to Raleigh and Columbia, and delivered to the State commissioners, S. G. Worth and C. J. Huske. The distribution was made by them in accord-

ance with lists furnished from the office of the United States Fish Commission. The States of Virginia, West Virginia, Maryland, Pennsylvania, and Southern New Jersey were supplied by express from Washington. Details of the carp distribution for 1883 will be found in Table II.

A review of this gives as the result of the season's work the following:

TABLE II.—SUMMARY OF CARP DISTRIBUTED IN THE UNITED STATES AND CANADA DURING THE YEAR 1883.

[Average distance of applicants from Washington, 895 miles.]

State or Territory.	Number of Congressional districts supplied.	Number of counties.	Number of applicants.	Number of fish.	Point of distribution.	Date of distribution.	Messenger in charge.
Alabama	8	41	168	2,100	Birmingham, Ala.	1884. Jan. 3	F. L. Donnelly.
Arizona		5	14	274	Yuma, Ariz.	Dec. 4	George H. H. Moore.
Arkansas	4	16	70	1,154	Saint Louis, Mo.	Dec. 4	Do.
California	4	12	18	337	San Francisco, Cal.	Nov. 13	J. F. Ellis.
Colorado		10	33	655	Denver, Colo.	Nov. 13	Do.
Connecticut	4	8	41	850	Boston, Mass.	Nov. 8	Do.
Dakota		18	36	1,151	Saint Paul, Minn.	Nov. 5	George H. H. Moore.
Delaware		3	5	445	Washington, D. C.	Nov. 24	Express company.
District of Columbia			7	82	do.	1883-'84 1883.	Individual orders.
Florida	2	13	38	550	Atlanta, Ga.	Dec. 7	F. L. Donnelly.
Georgia	9	64	311	6,045	do.	Dec. 7	Do.
Idaho		4	9	183	Ogden, Utah	Nov. 13	J. F. Ellis.
Illinois	17	73	467	15,000	Quincy, Ill.	Nov. 8	Newton Simmons.
Indiana	13	58	220	4,392	Indianapolis, Ind.	Nov. 14	Do.
Indian T.		3	3	80	Hillsborough, Tex.	Dec. 4	George H. H. Moore.
Iowa	11	66	172	5,000	Anamosa, Iowa	Nov. 5	Do.
Kansas	3	70	371	7,652	Topeka, Kans.	Nov. 15	J. F. Ellis.
Kentucky	11	48	193	15,040	Louisville, Ky.	Oct. 30	Do.
Louisiana	5	17	41	788	New Orleans, La.	Dec. 4	George H. H. Moore.
Maine		8	12	252	Boston, Mass.	Nov. 8	J. F. Ellis.
Maryland	6	14	63	3,182	Washington, D. C.	Nov. 20	Express company.
Massachusetts	12	8	16	4,300	Boston, Mass.	Nov. 8	J. F. Ellis.
Michigan	10	28	41	407	Columbus, Ohio	Nov. 20	Newton Simmons.
Minnesota	4	19	31	6,530	Saint Paul, Minn.	Nov. 5	George H. H. Moore.
Mississippi	6	42	104	2,878	Jackson, Miss.	Dec. 4	Do.
Missouri	14	36	99	1,580	Saint Louis, Mo.	Dec. 4	Do.
Montana		5	7	300	Ogden, Utah	Nov. 13	J. F. Ellis.
Nebraska	3	14	26	2,320	Omaha, Neb.	Nov. 13	Do.
Nevada		13	46	2,285	Belmont, Nev.	Nov. 13	Do.
New Hampshire	2	5	10	2,000	Boston, Mass.	Nov. 13	Do.
New Jersey	7	20	62	1,041	Washington, D. C.	1883-'84 1883.	Express company.
New Mexico		7	12	199	Deming, N. Mex.	Dec. 4	George H. H. Moore.
New York	30	36	113	4,200	New York City, N. Y.	Nov. 8	J. F. Ellis.
North Carolina	8	69	978	15,313	Raleigh, N. C.	Nov. 23	S. G. Worth.
Ohio	20	68	328	4,000	Columbus, Ohio	Nov. 20	Newton Simmons.
Oregon		18	107	4,265	Portland, Oreg.	Nov. 5	George H. H. Moore.
Pennsylvania	26	54	384	5,783	Washington, D. C.	Nov. 16	Express company.
Rhode Island	1	1	2	32	Boston, Mass.	Nov. 8	J. F. Ellis.
South Carolina	7	32	704	15,380	Columbia, S. C.	Nov. 12	C. J. Huske.
Tennessee	11	57	264	3,059	Milan, Tenn.	Dec. 4	George H. H. Moore.
Texas	11	73	435	5,700	Dallas and other points.	Dec. 4	Do.
Utah		17	93	2,133	Salt Lake City, Utah.	Nov. 13	J. F. Ellis.
Vermont	2	10	32	1,441	Boston, Mass.	Nov. 8	Do.
Virginia	9	73	492	6,222	Washington, D. C.	Nov. 5	Express company.
Washington		11	47	1,616	Portland, Oreg.	Nov. 5	George H. H. Moore.
West Virginia	4	19	67	815	Washington, D. C.	Nov. 20	Express company.
Wisconsin	8	17	26	1,000	Saint Paul, Minn.	Nov. 5	George H. H. Moore.
Wyoming		5	27	560	Laramie City, Wyo.	Nov. 13	J. F. Ellis.
Canada			1	100	New York City, N. Y.	Nov. 14	Do.
Total	292	1,308	7,015	162,000			

DISTRIBUTION OF CARP IN THE UNITED STATES IN 1883—Continued.

ALABAMA.

Congressional districts.	No. of counties.	No. of applicants.	No. of fish.	Congressional districts.	Counties.	No. of applicants.	No. of fish.
1.....	2	6	63	3—Cont'd	Henry.....	1	10
2.....	3	34	365		Lee.....	5	50
3.....	3	30	308	4.....	Russell.....	3	30
4.....	5	31	321		Dallas.....	6	60
5.....	6	15	165		Hale.....	9	91
6.....	1	1	11		Lowndes.....	1	20
7.....	3	36	375		Perry.....	14	140
8.....	3	9	120	5.....	Wilcox.....	1	10
Unaccounted for.....			312		Chambers.....	4	40
Total.....	41	168	2,100		Clay.....	2	20
					Coosa.....	2	14
					Elmore.....	3	40
					Macon.....	1	10
					Tallapoosa.....	3	41
				6.....	Greene.....	1	11
				7.....	Blount.....	5	60
					Calhoun.....	16	168
					Cherokee.....	1	10
					Cleburne.....	6	80
					Etowah.....	1	9
					Randolph.....	4	30
					Saint Clair.....	1	9
					Shelby.....	1	10
					Talladega.....	1	9
				8.....	Lauderdale.....	1	10
					Lawrence.....	3	30
					Madison.....	5	80
				Total.....		168	1,788
					Number of fish sent to be distributed in the State for which no returns have yet been made.....		312
				Grand total.....		168	2,100

ARIZONA.

Congressional district.	No. of counties.	No. of applicants.	No. of fish.	Congressional district.	Counties.	No. of applicants.	No. of fish.
At large.....	5	14	274	At large.....	Apache.....	1	20
Total.....	5	14	274		Cochise.....	1	20
					Maricopa.....	9	180
					Pima.....	2	34
					Yuma.....	1	20
				Total.....		14	274

DISTRIBUTION OF CARP IN THE UNITED STATES IN 1883—Continued.
ARKANSAS.

Congressional districts.			No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional districts.		Counties.	No. of appli- cants.	No. of fish.
1.....			1	1	15	2.....	Columbia.....		1	10
2.....			3	55	865		Hempstead.....		17	281
3.....			5	8	174		Hot Spring.....		1	15
4.....			2	6	100		Howard.....		7	165
Total.....			16	70	1,154		Nevada.....		7	93
							Ouachita.....		6	95
							Sevier.....		6	90
							Union.....		10	116
						3.....	Clark.....		3	60
							Garland.....		1	15
							Pulaski.....		1	20
							Sebastian.....		1	15
							Yell.....		2	64
						4.....	Benton.....		2	80
							Boone.....		4	20
						Total.....			70	1,154
Congressional districts.	Counties.		No. of appli- cants.	No. of fish.						
1.....	Phillips.....		1	15						

CALIFORNIA.

Congressional districts.			No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional districts.		Counties.	No. of appli- cants.	No. of fish.
1.....			1	4	80	2.....	Alameda.....		1	20
2.....			2	2	45		Contra Costa.....		1	25
3.....			3	6	103	3.....	Colusa.....		2	38
4.....			6	6	109		Lassen.....		3	60
Total.....			12	18	337		Plumas.....		1	5
							Los Angeles.....		1	20
							Merced.....		1	20
							Santa Barbara.....		1	20
							Santa Clara.....		1	20
							Santa Cruz.....		1	20
							Ventura.....		1	9
						Total.....			18	337
Congressional district.	Counties.		No. of appli- cants.	No. of fish.						
1.....	San Francisco.....		4	80						

COLORADO.

Congressional district.			No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional district.		Counties.	No. of appli- cants.	No. of fish.
At large.....			10	33	655	At large.....	Elbert.....		1	22
Total.....			10	33	655		El Paso.....		2	43
							Huerfano.....		1	20
							Jefferson.....		3	80
							Larimer.....		2	40
							Las Animas.....		1	7
							Pueblo.....		1	23
							Weld.....		2	40
						Total.....			38	655
Congressional district.	Counties.		No. of appli- cants.	No. of fish.						
At large.....	Arapahoe.....		19	380						
	Bent.....		1	20						

DISTRIBUTION OF CARP IN THE UNITED STATES IN 1883—Continued.

FLORIDA.

Congressional districts.			No. of fish.	Congressional district.	Counties.	No. of appli-	
	No. of coun- ties.	No. of appli- cants.				cants.	No. of fish.
1	4	4	80	2	Alachua	3	23
2	9	34	470		Baker	1	12
					Brevard	1	5
					Duval	4	80
					Marion	3	60
					Orange	15	150
					Putnam	1	20
					Sumter	4	80
					Volusia	2	40
Total	13	38	550		Total		38	550

Congressional districts.	Counties.	No. of appli- cants.	No. of fish.
1	Gadsden	1	20
	Hernando	1	20
	Levy	1	20
	Polk	1	20

GEORGIA.

Congressional districts.			No. of fish.	Congressional districts.	Counties,	No. of appli-		
	No. of coun- ties.	No. of appli- cants.				cants.	No. of fish.	
1	8	10	150	4—Cont'd.	Talbot	2	38	
2	3	14	210		Troup	2	60	
3	5	20	305		5	Baldwin	32	485
4	5	40	581		Bibb	2	25	
5	3	78	1,173		Butts	2	33	
6	3	35	451		Laurens	2	45	
7	4	48	732		Newton	4	60	
8	7	32	485		Rockdale	1	15	
9	8	34	512		Walton	18	270	
Unaccounted for			1,446		Wilkinson	16	240	
Total	64	311	6,045	6	Clayton	1	15	
				Crawford	2	30		
				Do Kalb	15	150		
				Fulton	7	105		
				Milton	1	20		
				Pike	8	120		
				7	Upson	1	11	
				Bartow	8	140		
				8	Catoosa	6	90	
				Chattooga	1	7		
				Cherokee	8	120		
				Cobb	12	180		
				Floyd	2	120		
				8	Gordon	5	75	
				9	Columbia	6	90	
				Elbert	2	30		
				Glascok	2	30		
				Greene	12	180		
				Hancock	7	105		
				Oglethorpe	2	40		
				Wilkes	1	10		
				9	Banks	3	45	
				Clarke	3	45		
				Forsyth	3	47		
				Franklin	6	90		
				Gwinnett	9	135		
				Habersham	2	30		
				Hall	7	105		
				Rabun	1	15		
				Total		311	4,599	
				Number of fish sent out for distribution in State for which no returns have yet been made			1,446	
				Grand total		311	6,045	

DISTRIBUTION OF CARP IN THE UNITED STATES IN 1883—Continued.

IDAHO.

Congressional district.	No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional district.	Counties.	No. of appli- cants.	No. of fish.
At large	4	9	183	At large.....	Ada	4	80
Total	4	9	183		Alturas	1	23
					Idaho	1	20
					Oneida.....	3	60
				Total		9	183

ILLINOIS.

Congressional districts.	No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional districts.	Counties.	No. of coun- ties.	No. of fish.
1.....	1	16	320	11—Cont'd....	Mercer	1	20
5.....	3	25	541		Schuyler	2	40
6.....	2	7	140		Warren	11	220
7.....	4	21	440	12.....	Adams	55	1,100
8.....	4	26	620		Brown	1	20
9.....	5	13	260		Cass	5	142
10.....	4	26	540		Greene	2	40
11.....	6	34	680		Pike	17	340
12.....	6	82	1,682		Scott	2	40
13.....	5	27	540	13.....	Christian	2	40
14.....	2	3	60		Mason	3	60
15.....	4	19	380		Morgan	1	20
16.....	6	43	890		Sangamon	12	240
17.....	5	35	720		Tazewell	9	180
18.....	5	45	940	14.....	McLean	1	20
19.....	7	45	440		Piatt	2	40
20.....	4	23	460	15.....	Champaign	6	120
Number of fish unac- counted for.....			5,347		Coles	2	40
Total	73	467	15,000		Douglas	1	20
					Vermillion	10	200
					Clark	4	80
					Clay	4	100
					Cumberland	8	160
					Jasper	16	320
					Lawrence	5	110
					Richland	6	120
				17.....	Efingham	3	60
					Macoupin	18	360
					Montgomery	1	20
					Moultrie	3	60
					Shelby	10	200
				18.....	Bond	6	120
					Madison	7	140
					Monroe	4	80
					Saint Clair	13	300
					Washington	15	300
				19.....	Clinton	4	80
					Franklin	4	80
					Hamilton	5	100
					Jefferson	2	40
					Marion	3	60
					Saline	1	20
					White	3	60
				20.....	Johnson	1	20
					Perry	9	180
					Randolph	12	240
					Union	1	20
				Total		467	9,653
				Number of fish shipped to State commissioner for distribution unaccounted for.....			5,347
				Grand total		467	15,000

DISTRIBUTION OF CARP IN THE UNITED STATES IN 1883—Continued.

INDIANA.

Congressional districts.			No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional districts.	Counties.	No. of appli- cants.	No. of fish.
1.....	2	2	26	4—Cont'd	Union	2	40		
2.....	5	11	240	5.....	Bartholomew	1	20		
3.....	4	18	360		Kendricks	5	100		
4.....	7	23	460		Johnson	1	20		
5.....	5	17	340		Morgan	3	60		
6.....	6	50	1,000		Putnam	7	140		
7.....	3	16	320	6.....	Delaware	1	20		
8.....	5	12	240		Fayette	20	400		
9.....	4	6	120		Henry	2	40		
10.....	7	38	760		Randolph	5	100		
11.....	4	9	180		Rush	4	80		
12.....	3	10	200	7.....	Wayne	18	300		
13.....	3	8	146		Hancock	1	20		
Total	58	220	4,392		Marion	7	140		
					Shelby	8	160		
					Clay	2	40		
					Montgomery	3	60		
					Vermillion	3	60		
					Vigo	3	60		
					Warren	1	20		
					Clinton	1	20		
					Hamilton	2	40		
					Madison	1	20		
					Tippecanoe	2	40		
					Cass	5	100		
					Carroll	7	140		
					Fulton	3	60		
					Lake	15	300		
					Newton	1	20		
					Porter	6	120		
					White	1	20		
					Jay	2	40		
					Miami	3	60		
					Wabash	2	40		
					Wells	2	40		
					Allen	8	160		
					Lagrange	1	20		
					Noble	1	20		
					Elkhart	2	40		
					Kosciusko	3	60		
					Saint Joseph	3	60		
				Total		220	4,392		

Congressional districts.	Counties.	No. of appli- cants.	No. of fish.
1.....	Gibson	1	16
	Posey	1	10
2.....	Du Bois	3	60
	Knox	2	100
	Lawrence	2	40
	Orange	1	20
	Sullivan	1	20
8.....	Clark	3	60
	Floyd	3	60
	Harrison	10	200
	Jackson	2	40
4.....	Dearborn	5	100
	Decatur	2	40
	Franklin	2	40
	Jefferson	5	100
	Ripley	6	120
	Switzerland	1	20

INDIAN TERRITORY.

Congressional district.	No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional district.	Counties.	No. of appli- cants.	No. of fish.
At large	3	3	80	At large	Cherokee	1	20
					Choctaw	1	20
Total	3	3	80		Kiowa	1	40
				Total		3	80

DISTRIBUTION OF CARP IN THE UNITED STATES IN 1883—Continued.

IOWA.

				IOWA.			
Congressional districts.	No. of counties.	No. of applicants.	No. of fish.	Congressional districts.	Counties.	No. of applicants.	No. of fish.
1.....	7	27	593	5—Cont'd	Linn.....	4	105
2.....	5	9	167		Marshall.....	2	40
3.....	4	4	80		Tama.....	1	20
4.....	6	14	303	6.....	Davis.....	6	140
5.....	6	13	205		Jasper.....	2	80
6.....	6	22	500		Keokuk.....	3	60
7.....	5	10	220		Mahaska.....	2	40
8.....	8	39	750		Poweshiek.....	3	60
9.....	6	9	205	7.....	Wapello.....	6	120
10.....	3	10	214		Adair.....	1	20
11.....	8	15	354		Guthrie.....	1	20
Unaccounted for.....			1,310		Marion.....	1	40
					Polk.....	4	80
Total.....	66	172	5,000		Warren.....	3	60
				8.....	Appanoose.....	1	20
					Clarke.....	2	40
					Lucas.....	5	125
					Page.....	4	80
					Ringgold.....	2	40
					Taylor.....	1	20
					Union.....	2	50
				9.....	Wayne.....	22	384
					Cass.....	3	100
					Crawford.....	1	11
					Fremont.....	1	20
					Harrison.....	1	20
					Montgomery.....	1	14
					Pottawattamie.....	2	40
				10.....	Hamilton.....	2	40
					Kossuth.....	1	20
					Story.....	4	80
					Winnebago.....	1	34
					Wright.....	2	40
				11.....	Buena Vista.....	3	60
					Carroll.....	1	34
					Cherokee.....	2	60
					Dickinson.....	2	40
					Palo Alto.....	1	20
					Plymouth.....	3	60
					Pocahontas.....	2	40
					Woodbury.....	1	40
					Total.....	172	3,690
					Number of fish shipped to the State commissioner for distribution un- accounted for.....		1,310
					Grand total.....	172	5,000

DISTRIBUTION OF CARP IN THE UNITED STATES IN 1893—Continued.

KANSAS.

Congressional districts.			No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional districts.	Counties.	No. of appli- cants.	No. of fish.
1.....		24	99	2,022	2—Cont'd	Crawford	46	920	
2.....		14	161	3,309		Douglase	3	64	
3.....		19	80	1,681		Franklin	14	340	
Not given		13	31	640		Johnson	3	60	
Total		70	371	7,652		Labette	31	620	
						Linn	4	80	
						Miami	4	100	
						Montgomery	6	120	
						Neosho	6	122	
						Wilson	1	20	
					3.....	Butler	2	40	
						Butler	4	91	
						Chase	1	20	
						Chautauqua	1	20	
						Coffey	13	260	
						Cowley	2	40	
						Ford	4	80	
						Harvey	3	60	
						Lyon	14	280	
						McPherson	4	80	
						Marion	4	80	
						Osage	3	60	
						Pawnee	1	20	
						Reno	4	80	
						Rice	2	40	
						Shawnee	6	190	
						Sumner	7	140	
						Waubesauee	1	20	
						Woodson	4	80	
					Not given	Barbour	7	140	
						Decatur	2	40	
						Elk	3	60	
						Finney	1	20	
						Gove	1	20	
						Graham	1	20	
						Harper	6	120	
						Hodgeman	1	20	
						Kingman	2	60	
						Morris	1	20	
						Ness	1	20	
						Thomas	1	20	
						Trego	4	80	
					2 Total		371	7,652	
1.....	Atchison	3	80						
	Brown	3	60						
	Clay	4	80						
	Cloud	2	40						
	Dickinson	4	80						
	Doniphan	3	160						
	Ellis	3	61						
	Ellsworth	13	274						
	Jefferson	3	60						
	Jewell	3	60						
	Leavenworth	9	180						
	Lincoln	4	80						
	Marshall	2	40						
	Nemaha	5	120						
	Norton	1	20						
	Ottawa	2	40						
	Phillips	1	20						
	Pottawatomie	5	100						
	Republic	5	100						
	Riley	3	45						
	Russell	1	22						
	Saline	2	40						
	Smith	2	40						
	Washington	11	220						
2.....	Allen	9	183						
	Anderson	10	200						
	Bourbon	17	340						
	Cherokee	7	140						

DISTRIBUTION OF CARP IN THE UNITED STATES IN 1883—Continued.

KENTUCKY.

Congressional districts.			Congressional districts.	Counties.	Congressional districts.	
No. of counties.	No. of applicants.	No. of fish.			No. of applicants.	No. of fish.
1.....	8	8	160			
2.....	5	12	240	4—Cont'd	Marion.....	
3.....	6	27	540		Maade.....	
4.....	6	11	220		Nelson.....	
5.....	1	52	1,067	5.....	Washington.....	
6.....	2	4	85		Jefferson.....	
7.....	8	28	560	6.....	Kenton.....	
8.....	6	14	280		Trimble.....	
9.....	5	13	276	7.....	Bourbon.....	
10.....	2	6	200		Fayette.....	
11.....	4	18	360		Franklin.....	
Unaccounted for.....			11,052		Henry.....	
Total.....	48	193	15,640		Oldham.....	
					Owen.....	
					Scott.....	
					Woodford.....	
				8.....	Boyle.....	
					Garrard.....	
					Lincoln.....	
					Mercer.....	
					Shelby.....	
				9.....	Spencer.....	
					Fleming.....	
					Hart.....	
					Lawrence.....	
					Lewis.....	
				10.....	Mason.....	
					Clark.....	
					Montgomery.....	
				11.....	Barton.....	
					Green.....	
					Pulaski.....	
					Taylor.....	
				Total.....	193	
				Number of fish shipped to State commissioner for distribution unaccounted for.....	11,052	
				Grand total.....	103	
					15,640	

LOUISIANA.

Congressional districts.			Congressional districts.	Counties.	Congressional districts.	
No. of counties.	No. of applicants.	No. of fish.			No. of applicants.	No. of fish.
1 and 2.....	1	2	28	2.....	Saint John Baptist.....	
2.....	2	2	34		Saint Charles.....	
3.....	2	3	60	3.....	Saint Martin's.....	
4.....	6	18	346		Saint Mary's.....	
5.....	6	16	320	4.....	Bienville.....	
Total.....	17	41	788		Bossier.....	
					Caddo.....	
					Natchitoches.....	
					Red River.....	
				5.....	Webster.....	
					Claiborne.....	
					Jackson.....	
					Ounchita.....	
					East Baton Rouge.....	
					East Feliciana.....	
					Saint Landry.....	
1 and 2.....	Orleans.....	2	28	Total.....	41	
					788	

DISTRIBUTION OF CARP IN THE UNITED STATES IN 1883—Continued.

MAINE.

Congressional district.	No. of counties.	No. of applicants.	No. of fish.	Congressional district.	Counties.	No. of applicants.	No. of fish.
At large	8	12	252	At large—Continued.	Knox	1	20
Total	8	12	252		Lincoln	2	40
					Penobscot	2	40
					Piscataquis	1	20
					Somerset	1	20
					Waldo	2	40
					York	1	20
Congressional district.	Counties.	No. of applicants.	No. of fish.	Total		12	252
At large	Cumberland	2	62				

MARYLAND.

Congressional districts.	No. of counties.	No. of applicants.	No. of fish.	Congressional districts.	Counties.	No. of applicants.	No. of fish.
1	3	7	70	1—Cont'd	Queen Anne	3	30
2	1	8	88	2	Cecil	6	70
2, 3, 4, and 5	1	15	160		Hartford	2	18
5	5	7	100	2, 3, 4, and 5	Baltimore	15	150
6	3	26	274	5	Anne Arundel	2	20
Number of fish unaccounted for			2,500		Calvert	1	20
Total	14	63	3,182		Charles	2	30
					Prince George	1	20
					Saint Mary's	1	10
					Frederick	7	70
					Montgomery	10	104
					Washington	9	100
Congressional districts.	Counties.	No. of applicants.	No. of fish.	Total		63	682
1	Caroline	2	20	Number of fish shipped to State commissioner for distribution unaccounted for			2,500
	Kent	2	20	Grand total		63	3,182

MASSACHUSETTS.

Congressional districts.	No. of counties.	No. of applicants.	No. of fish.	Congressional districts.	Counties.	No. of applicants.	No. of fish.
1	1	1	20	1	Barnstable	1	20
4, 5, and 6	1	1	20	4, 5, and 6	Suffolk	1	20
6	1	1	30	5	Middlesex	2	30
10 and 11	1	1	120	10 and 11	Worcester	6	120
11	2	2	80	11	Franklin	3	60
12	2	2	30		Hampshire	1	20
Unaccounted for			4,000	12	Berkshire	1	10
Total	8	16	4,300		Hampden	1	20
				Total		16	300
				Number of fish shipped to the State commissioner for distribution unaccounted for			4,000
				Grand total			4,300

DISTRIBUTION OF CARP IN THE UNITED STATES IN 1883—Continued.

MISSISSIPPI.

Congressional districts.			Congressional districts.				
No. of counties.	No. of applicants.	No. of fish.	No. of counties.	No. of applicants.	No. of fish.		
1.....	7	15	272	2--Cont'd	Tate.....	6	72
2.....	8	55	809		Tippah.....	1	12
3.....	9	69	955		Union.....	3	36
4.....	8	28	386	4	Carroll.....	3	48
5.....	4	12	216		Chickasaw.....	5	68
6.....	6	15	240		Choctaw.....	4	80
7.....					Clay.....	4	36
					Greola.....	1	12
Total	42	194	2,878		Montgomery.....	2	24
					Noxubee.....	3	36
					Winston.....	17	340
					Yalabusha.....	11	148
					Attala.....	8	110
					Clarke.....	1	12
					Holmes.....	1	40
					Leake.....	1	44
					Newton.....	5	60
					Smith.....	1	12
					Wayne.....	4	48
					Yazoo.....	5	60
					Amite.....	3	60
					Hancock.....	1	12
					Pike.....	3	44
					Wilkinson.....	5	160
					Chaiborno.....	2	24
					Copiah.....	1	12
					Hinds.....	6	108
					Lincoln.....	1	12
					Madison.....	3	60
					Rankin.....	2	24
					Total	194	2,878

Congressional districts.	Counties.	No. of applicants.	No. of fish.
1.....	Alcorn.....	5	100
	Leo.....	1	40
	Lowndes.....	1	12
	Monroe.....	1	10
	Oktibbeha.....	2	24
	Prentiss.....	2	29
	Tishomingo.....	2	57
2.....	De Soto.....	3	60
	Lafayette.....	19	292
	Marshall.....	11	181
	Panola.....	11	136
	Tallahatchee.....	1	20

MISSOURI.

Congressional districts.			Congressional districts.				
No. of counties.	No. of applicants.	No. of fish.	No. of counties.	No. of applicants.	No. of fish.		
1.....	4	17	265	2--Cont'd	Livingston.....	1	15
2.....	17	17	300		Monroe.....	4	60
3.....	1	7	115		Randolph.....	7	140
4.....	1	1	15	3	Clifton.....	6	100
5.....	2	7	105		Worth.....	1	15
6.....	3	19	300	4	Holt.....	1	15
7.....	3	6	95	5	Johnson.....	6	90
8, 9, and 10.....	1	3	35		Lafayette.....	1	15
10.....	2	2	35	6	Cooper.....	6	100
11.....	2	2	30		Howard.....	9	140
12.....	4	6	105		Saline.....	4	60
13.....	4	9	135	7	Audrain.....	4	60
14.....	2	2	30		Montgomery.....	1	15
Not given.....	1	1	15		Saint Charles.....	1	20
				8, 9, and 10	Saint Louis.....	3	35
Total	36	99	1,580	10	Iron.....	1	20
					Madison.....	1	15
					Laclede.....	1	15
					Wright.....	1	15
					Barton.....	1	20
					Bates.....	1	20
					Cass.....	1	15
					Saint Clair.....	3	50
				13	Jasper.....	2	30
					Newton.....	4	60
					Taney.....	2	30
					Webster.....	1	15
					Dunklin.....	1	15
					Howell.....	1	15
					Preston.....	1	15
					Total	99	1,580

Congressional districts.	Counties.	No. of applicants.	No. of fish.
1.....	Knox.....	5	85
	Lewis.....	1	15
	Marion.....	9	135
	Scotland.....	1	30
2.....	Carroll.....	1	20
	Linn.....	4	65

DISTRIBUTION OF CARP IN THE UNITED STATES IN 1883—Continued.

MONTANA.

Congressional district.	No. of counties.	No. of applicants.	No. of fish.	Congressional district.	Counties.	No. of applicants.	No. of fish.
At large	5	7	300	At large	Deer Lodge	1	50
Total	5	7	300		Lewis and Clarke	1	50
					Meagher	1	50
					Scott	1	50
					Silver Bow	3	100
				Total		7	300

NEBRASKA.

Congressional districts.	No. of counties.	No. of applicants.	No. of fish.	Congressional districts.	Counties.	No. of applicants.	No. of fish.	
1	4	9	355	2	Adams	1	20	
2	4	9	180		Hitchcock	1	20	
3	6	8	160		Jefferson	6	120	
Unaccounted for			1,625		York	1	20	
Total	14	26	2,320	3	Antelope	3	60	
					Brown	1	20	
					Cherry	1	20	
					Holt	1	20	
					Platt	1	20	
					Washington	1	20	
				Total		26	695	
				Number of fish shipped to State commissioner for distribution unaccounted for				1,625
				Grand total		26	2,320	

NEVADA.

Congressional district.	No. of counties.	No. of applicants.	No. of fish.	Congressional district.	Counties.	No. of applicants.	No. of fish.	
At large	13	46	945	At large—Continued.	Humboldt	3	60	
Unaccounted for			1,340		Lander	4	80	
Total	18	46	2,285		Lincoln	1	20	
					Lyon	3	60	
					Nye	6	120	
					Ormsby	7	140	
					Storey	1	20	
					Washoe	5	100	
					White Pine	4	95	
				Total		46	945	
				Number of fish sent out for distribution for which no returns have yet been made				1,340
				Grand total		46	2,285	

DISTRIBUTION OF CARP IN THE UNITED STATES IN 1883—Continued.

NEW HAMPSHIRE.

Congressional districts.	No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional districts.	Counties.	No. of appli- cants.	No. of fish.
1 and 2.....	2	6	163	2.....	Cheshire.....	2	40
2.....	3	4	97		Grafton.....	1	20
Unaccounted for.....			1,740		Sullivan.....	1	37
Total.....	5	10	2,000	Total.....		10	260
Congressional districts.	Counties.	No. of appli- cants.	No. of fish.	Number of fish shipped to State commissioner for distribution unaccounted for.....			
				Grand total.....			
1 and 2.....	Hillsborough.....	2	55	10			
	Merrimac.....	4	108	2,000			

NEW JERSEY.

Congressional districts.	No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional districts.	Counties.	No. of appli- cants.	No. of fish.
1.....	4	7	56	1—Cont'd.....	Gloucester.....	2	16
2.....	4	10	151		Salcm.....	2	16
3.....	4	9	188	2.....	Atlantic.....	4	39
4.....	3	15	270		Burlington.....	2	55
5.....	3	11	183		Mercer.....	2	47
6.....	1	9	185		Ocean.....	1	10
7.....	1	1	8	3.....	Middlesex.....	1	20
Total.....	20	62	1,041		Monmouth.....	5	100
Congressional districts.	Counties.	No. of appli- cants.	No. of fish.	4.....	Union.....	3	68
					Hunterdon.....	1	20
1.....	Camden.....	2	16		Somerset.....	3	60
	Cumberland.....	1	8		Sussex.....	10	180
					Warren.....	1	10
				5.....	Bergen.....	4	62
					Morris.....	3	60
				6.....	Passaic.....	4	61
					Essex.....	2	185
				7.....	Hudson.....	1	8
				Total.....		62	1,041

NEW MEXICO.

Congressional district.	No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional district.	Counties.	No. of appli- cants.	No. of fish.
At large.....	7	12	199	At large.....	Bernalillo.....	1	16
Total.....	7	12	199		Colfax.....	1	20
					Doña Ana.....	1	15
					Grant.....	4	82
					Rio Arriba.....	2	20
					Santa Fé.....	2	40
					Valencia.....	1	6
				Total.....		12	199

DISTRIBUTION OF CARP IN THE UNITED STATES IN 1883—Continued.

NEW YORK.

NEW YORK.			
Congressional districts.	No. of counties.	No. of applicants.	No. of fish.
1.....	3	16	320
2, 3, and 4.....	1	5	105
5, 6, 7, 8, 9, 10, and 11.....	1	7	180
12.....	1	1	20
13.....	2	5	95
14.....	2	24	470
15.....	2	3	60
16.....	2	3	40
17.....	2	2	42
18.....	1	1	40
20.....	3	8	200
21.....	2	4	80
22.....	2	7	120
23.....	1	10	170
24.....	1	2	40
25.....	1	2	30
26.....	3	4	75
27.....	2	3	60
28.....	2	2	40
29.....	1	1	20
32.....	1	4	60
Unaccounted for.....			2,023
Total.....	36	113	4,290

Congressional districts.	Counties.	No. of applicants.	No. of fish.
12.....	Westchester.....	1	20
13.....	Columbia.....	2	30
	Dutchess.....	3	65
14.....	Orange.....	10	200
	Rockland.....	8	160
	Sullivan.....	6	110
15.....	Schoharie.....	1	20
	Ulster.....	1	20
16.....	Albany.....	2	40
17.....	Rensselaer.....	1	20
	Washington.....	1	22
18.....	Warren.....	1	40
20.....	Fulton.....	2	40
	Montgomery.....	2	40
	Saratoga.....	4	120
21.....	Chenango.....	1	20
	Otsego.....	8	60
22.....	Herkimer.....	4	70
	Lewis.....	3	50
23.....	Oneida.....	10	170
24.....	Madison.....	2	40
25.....	Onondaga.....	2	30
26.....	Cayuga.....	2	40
	Seneca.....	1	15
	Wayne.....	1	20
27.....	Livingston.....	2	40
	Ontario.....	1	20
28.....	Broome.....	1	20
	Tompkins.....	1	20
29.....	Stoupen.....	1	20
32.....	Erie.....	4	60
Total.....		113	2,267

1.....	Queens.....	5	100	Number of fish shipped to State commissioner for distribution unaccounted for.....
	Richmond.....	1	20	
2, 3, and 4.....	Suffolk.....	10	200	
	Kings.....	5	105	
5, 6, 7, 8, 9, 10 and 11.....	New York.....	7	180	
Grand total.....		113	4,290	

DISTRIBUTION OF CARP IN THE UNITED STATES IN 1888—Continued.

NORTH CAROLINA.

Congressional districts.			No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional districts.	Counties.	No. of appli- cants.	No. of fish.
1			4	6	87	4—Cont'd	Johnston	58	912
2			9	82	1,345		Nash	5	84
3			8	85	1,383		Orange	11	179
4			9	218	8,587		Vance	26	400
5			8	270	4,458		Wake	33	506
6			9	62	763		Alamance	59	1,064
7			9	182	2,794		Caswell	1	10
8			13	73	896		Davidson	9	150
Total			60	978	15,313	Gulford	133	2,163	
						Person	4	80	
						Randolph	20	302	
						Rockingham	40	629	
						Stokes	4	60	
						Anson	3	31	
						Cabarrus	2	26	
						Catawba	16	235	
						Gaston	7	85	
						Lincoln	20	186	
						Mecklenburg	8	100	
						Richmond	1	16	
						Robeson	1	16	
						Union	4	68	
						Alexander	5	54	
						Ashe	1	16	
						Davie	4	52	
						Forsyth	94	1,445	
						Iredell	25	378	
						Rowan	14	214	
						Surry	15	260	
						Wilkes	8	123	
						Yadkin	16	252	
						Buncombe	4	42	
						Burke	4	43	
						Caldwell	3	52	
						Clay	4	46	
						Cleveland	7	102	
						Haywood	1	10	
						Henderson	10	116	
						McDowell	3	56	
						Madison	12	96	
						Mitchell	12	140	
						Rutherford	6	59	
						Transylvania	3	30	
						Yancy	4	64	
Total			978		15,313				

Congressional districts.	Counties.	No. of appli- cants.	No. of fish.
1	Beaufort	1	16
	Hertford	3	35
	Hyde	1	16
2	Pasquotank	1	20
	Edgecombe	13	192
	Greene	12	211
	Hallfax	11	199
	Jones	1	20
	Lenoir	5	81
	Northampton	4	64
3	Warren	2	40
	Wayne	19	805
	Wilson	15	233
	Carteret	2	80
	Cumberland	7	124
	Duplin	20	366
	Harnett	14	223
	Moore	15	240
	New Hanover	1	12
	Pender	9	135
4	Sampson	17	248
	Chatham	47	704
	Durham	19	424
	Franklin	14	232
	Granville	5	86

DISTRIBUTION OF CARP IN THE UNITED STATES IN 1883—Continued.

OREGON.

Congressional district.	Counties.	No. of appl. cants.	No. of fish.	Congressional district.	Counties.	No. of appl. cants.	No. of fish.
At large	Benton	3	65	At large—C'd.	Marion	17	855
	Clackamas	11	470		Multnomah	28	1,310
	Clatsop	1	50		Folk	4	145
	Douglas	2	100		Umatilla	1	20
	Tillamook	1	50		Union	1	
	Jackson	2	70		Wasco	1	50
	Klickitat	1	50		Washington	10	310
	Lake	2			Yam Hill	17	495
	Lane	1	50				
	Linn	4	175	Total		107	4,265

PENNSYLVANIA.

Congressional districts.	No. of counties.	No. of appl. cants.	No. of fish.	Congressional districts.	Counties.	No. of appl. cants.	No. of fish.
1.	1	10	184	13.	Schuylkill	14	160
1, 2, 3, 4, and 5	1	8	80	14.	Dauphin	3	48
6.	2	45	541		Lebanon	4	45
7 and 10.	1	8	123	15.	Bradford	4	108
8.	1	71	870		Susquehanna	2	17
9.	1	10	101		Wayne	1	20
10.	2	18	203	16.	Lycoming	1	7
11.	3	4	48		Bedford	3	74
12.	1	7	55	17.	Blair	2	40
13.	1	14	169		Cambria	3	42
14.	2	7	93		McKean	2	28
15.	3	7	145		Somerset	5	88
16.	1	1	7		Tioga	4	27
17.	6	19	299	18.	Franklin	2	20
18.	5	16	321		Fulton	2	40
19.	2	23	258		Huntingdon	10	201
20.	4	9	96		Juniata	1	20
21.	3	26	372		Snyder	1	40
22.	1	3	71	19.	Adams	5	69
23.	3	39	839		York	18	180
24.	5	22	267	20.	Centre	1	8
25.	3	18	156		Clearfield	2	16
26.	3	18	156		Mifflin	1	20
27.	2	4	35		Union	5	52
Number of fish unaccounted for			1,000		Greene	5	41
Total	54	384	5,783		Fayette	5	39
				23.	Westmoreland	16	292
					Allegheny	3	71
				24.	Beaver	3	34
					Lawrence	5	40
					Washington	31	265
				25.	Armstrong	7	82
					Clarion	5	66
					Forest	2	18
					Indiana	2	65
				26.	Jefferson	3	36
					Butler	3	46
					Crawford	5	54
					Mercer	5	56
				27.	Erie	1	8
					Venango	3	27
				Total		384	4,783
				Number of fish shipped to State Commissioner for distribution unaccounted for			1,000
				Grand total		384	5,783

DISTRIBUTION OF CARP IN THE UNITED STATES IN 1883—Continued.

RHODE ISLAND.

Congressional district.	No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional district.	County.	No. of appli- cants.	No. of fish.
2.....	1	2	32	2.....	Providence.....	2	32
Total.....	1	2	32	Total.....		2	32

SOUTH CAROLINA.

Congressional districts.	No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional districts.	Counties.	No. of appli- cants.	No. of fish.
1.....	2	108	2,160	2—Cont'd.....	Hampton.....	3	60
2.....	5	147	2,940	3.....	Abbeville.....	23	460
3.....	5	253	5,060		Anderson.....	100	2,000
4.....	5	162	3,240		Newberry.....	17	340
4 and 5.....	1	4	80		Oconee.....	86	1,720
5.....	4	16	320		Pickens.....	27	540
6.....	5	17	345	4.....	Fairfield.....	6	122
7.....	4	40	782		Greenville.....	24	580
Not given.....	1	17	340		Laurens.....	40	800
Total.....	32	764	15,389		Richland.....	16	320
				4 and 5.....	Spartanburg.....	78	1,540
					Union.....	4	80
				5.....	Chester.....	5	100
					Chesterfield.....	1	20
					Kershaw.....	5	100
					Lancaster.....	5	100
				6.....	Clarendon.....	2	40
					Darlington.....	10	205
					Marion.....	2	40
					Marlborough.....	2	40
					Williamsburg.....	1	20
				7.....	Beaufort.....	1	20
					Berkley.....	6	102
1.....	Charleston.....	3	60		Orangeburg.....	28	560
	Lexington.....	105	2,100		Sumter.....	5	100
2.....	Aiken.....	10	200	Not given.....	York.....	17	340
	Barnwell.....	27	540				
	Colleton.....	3	60	Total.....		764	15,389
	Edgefield.....	104	2,080				

DISTRIBUTION OF CARP IN THE UNITED STATES IN 1883—Continued.

TENNESSEE.

				Congressional districts.	Counties.	No. of appli- cants.	No. of fish.
Congressional districts.	No. of coun- ties.	No. of appli- cants.	No. of fish.				
1.....	9	86	970	3--Cont'd	Hamilton.....	1	8
2.....	6	27	507		James.....	2	12
3.....	7	25	233		McMinn.....	2	20
4.....	6	24	239		Marion.....	3	44
5.....	5	8	117		White.....	7	60
6.....	5	13	212	4.....	Fentress.....	1	8
7.....	3	17	267		Robertson.....	2	24
8.....	3	11	180		Smith.....	3	19
9.....	7	26	415		Sunmer.....	2	30
10.....	3	38	676		Trousdale.....	6	39
11.....	1	4	64		Wilson.....	10	119
Not given.....	2	5	79	5.....	Bedford.....	1	20
Total.....	57	284	3,959		Coffee.....	1	15
					Lincoln.....	3	37
					Marshall.....	2	30
					Rutherford.....	1	15
				6.....	Chatham.....	1	12
					Davidson.....	7	115
					Houston.....	1	15
					Humphrey.....	1	15
					Montgomery.....	3	55
				7.....	Giles.....	7	110
					Maury.....	4	70
					Williamson.....	6	87
				8.....	Carroll.....	3	50
					Hardin.....	1	15
					Madison.....	7	115
				9.....	Crockett.....	2	26
					Dyer.....	3	60
					Gibson.....	1	20
					Haywood.....	7	98
					Lauderdale.....	3	55
					Tipton.....	1	20
					Wenkley.....	9	135
				10.....	Fayette.....	17	274
					Hardeman.....	1	15
					Shelby.....	20	387
				11.....	Henry.....	4	64
				Not given.....	Dauphin.....	1	6
					Henderson.....	4	73
				Total.....		284	3,959

Congressional districts.	Counties.	No. of appli- cants.	No. of fish.
1.....	Carter.....	4	34
	Claiborne.....	4	42
	Cooke.....	4	42
	Greene.....	14	104
	Hamblen.....	2	25
	Hawkins.....	5	44
	Sullivan.....	3	28
	Unicoi.....	5	49
	Washington.....	40	602
2.....	Anderson.....	2	8
	Blount.....	11	128
	Jefferson.....	5	44
	Knox.....	4	47
	Loudon.....	3	260
	Savner.....	2	20
3.....	Bradley.....	8	76
	Cumberland.....	2	13

DISTRIBUTION OF CARP IN THE UNITED STATES IN 1883—Continued.

TEXAS.

Congressional districts.			No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional districts.	Counties.	No. of appli- cants.	No. of fish.
1			8	15	191	5	Archer	2	40
2			5	50	753		Clay	7	82
3			6	29	372		Collin	29	483
4			6	52	778		Cook	2	20
5			10	154	1,839		Denton	6	59
6			7	45	535		Grayson	99	1,003
7			4	6	106		Matagorda	3	60
8			5	20	238		Montague	4	70
9			7	28	389		Wichita	1	13
10			3	16	208		Wise	1	9
11			12	20	323	6	Dallas	9	132
Total			73	435	5,790		Ellis	7	74
							Galveston	1	12
							Hill	1	20
							Johnson	4	56
							Coffman	20	221
							Tarrant	3	20
						7	DeWitt	2	40
							Duval	1	20
							Fort Bend	1	20
						8	Nueces	2	26
							Colorado	2	24
							Fayette	13	139
							Hays	3	35
							Karnes	1	20
							Live Oak	1	20
						9	Bell	2	24
							Burleson	1	12
							Limestone	6	45
							McLennan	5	50
							Milan	1	7
							Navarro	13	239
							Washington	1	12
						10	Bastrop	2	25
							Travis	3	52
							Williamson	11	191
						11	Brown	2	30
							Comanche	1	13
							Donley	1	20
							Eastland	4	25
							El Paso	3	42
							Howard	1	100
							Parker	1	12
							Palo Pinto	1	8
							Somervell	1	10
							Stephens	3	31
							Wheeler	1	20
							Young	1	13
Total								435	5,790

DISTRIBUTION OF CARP IN THE UNITED STATES IN 1883—Continued.

UTAH.

Congressional district.	No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional district.	Counties.	No. of coun- ties.	No. of fish.
At large	17	93	1,833	At large—C'd.	Kane	6	120
Unaccounted for			300		Millard	25	500
Total	17	93	2,133		Morgan	1	20
					Salt Lake	15	260
					San Pete	1	20
					Sevier	1	20
					Tooele	4	80
					Summit	6	130
					Utah	6	120
					Washington	3	60
				Weber	7	140	
				Total		93	1,833
At large				Number of fish sent out for distri- bution for which no returns have yet been made			
Beaver		2	40				
Box Elder		4	123				
Cache		4	80				
Garfield		4	40				
Iron		4	40				
Juab		4	40				
				Grand total		93	2,133

VERMONT.

Congressional districts.	No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional districts.	Counties.	No. of appli- cants.	No. of fish.	
1	4	13	260	1	Addison	1	20	
2	6	19	881		Bennington	3	60	
Unaccounted for			800		Franklin	3	60	
Total	10	32	1,441		Rutland	6	120	
					2	Caledonia	3	60
						Orange	1	20
						Orleans	6	121
						Washington	3	60
						Windham	4	80
						Windsor	2	40
				Total		32	641	
				Number of fish shipped to State Commissioner for distribution unaccounted for			800	
				Grand total			32 1,441	

DISTRIBUTION OF CARP IN THE UNITED STATES IN 1883—Continued.

VIRGINIA.

Congressional districts.			No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional districts.	Counties.	No. of appli- cants.	No. of fish.
1.....	9	23	228	4—Cont'd.....	Greenville.....	1	8		
2.....	7	22	309		Lunenburg.....	9	73		
3.....	6	29	293		Mecklenburg.....	1	10		
4.....	11	60	850		Nottoway.....	3	51		
5.....	5	32	410		Powhatan.....	4	35		
6.....	8	49	821		Prince Edward.....	0	180		
7.....	8	109	1,417	5.....	Floyd.....	1	20		
8.....	11	131	1,398		Franklin.....	3	60		
9.....	8	37	496		Halifax.....	8	86		
Total.....	73	492	6,222		Henry.....	1	20		
					Pittsylvania.....	10	224		
				6.....	Amherst.....	1	10		
					Appomattox.....	2	30		
					Bedford.....	11	164		
					Botetourt.....	5	80		
					Buckingham.....	3	50		
					Campbell.....	19	346		
					Nelson.....	3	49		
					Rockbridge.....	5	92		
				7.....	Albemarle.....	27	307		
					Augusta.....	23	258		
					Fluvanna.....	3	40		
					Green.....	3	23		
					Highland.....	1	10		
					Page.....	4	33		
					Rockingham.....	48	616		
					Shenandoah.....	15	130		
					Alexandria.....	3	60		
				8.....	Clark.....	1	12		
					Culpeper.....	5	44		
					Fairfax.....	6	63		
					Fauquier.....	38	384		
					Frederick.....	6	51		
					Loudoun.....	6	71		
					Madison.....	9	127		
					Orange.....	32	334		
					Rappahannock.....	23	232		
					Warren.....	2	20		
				9.....	Craig.....	1	20		
					Montgomery.....	3	60		
					Roanoke.....	5	65		
					Russell.....	1	10		
					Smythe.....	1	10		
					Tazewell.....	1	10		
					Washington.....	17	205		
					Wythe.....	8	116		
				Total.....		492	6,222		

WASHINGTON.

Congressional district.	No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional district.	Counties.	No. of appli- cants.	No. of fish.
At large.....	11	46	1,616	At large.....	Clark.....	4	170
Total.....	11	47	1,616		Cowlitz.....	3	150
					Columbia.....	2	70
					Garfield.....	1	20
					Pierce.....	1	50
					San Juan.....	1	20
					Snohomish.....	1	20
					Spokane.....	6	210
					Thurston.....	5	185
					Walla Walla.....	21	685
					Whatcom.....	2	36
				Total.....		47	1,616

DISTRIBUTION OF CARP IN THE UNITED STATES IN 1883—Continued.

WEST VIRGINIA.

Congressional districts.	No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional districts.	Counties.	No. of appli- cants.	No. of fish.
1.....	3	9	83	1—Cont'd	Ohio.....	2	17
2.....	10	52	670	2.....	Berkeley.....	2	36
3.....	5	5	54		Hampshire.....	2	28
4.....	1	1	8		Hardy.....	2	23
Total.....	10	67	815		Jefferson.....	23	395
					Marion.....	5	54
					Mineral.....	1	8
					Moungahela.....	1	8
					Morgan.....	2	17
					Preston.....	11	93
					Taylor.....	1	8
					Greenbrier.....	1	10
					Kanawha.....	1	8
					Mercer.....	1	8
					Monroe.....	1	20
					Summers.....	1	8
					Roane.....	1	8
				Total.....		67	815
Congressional districts.	Counties.	No. of appli- cants.	No. of fish.				
1.....	Harrison.....	6	50	3.....			
	Marshall.....	1	7	4.....			
				Total.....			

WISCONSIN.

Congressional districts.	No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional districts.	Counties.	No. of appli- cants.	No. of fish.
1.....	12	3	150	2.....	Fon Du Lac.....	2	70
2.....	13	5	220		Washington.....	2	100
3.....	12	4	140		Waukesha.....	1	50
4.....	1	3	150	3.....	Green.....	3	90
5.....	12	10	100		Lafayette.....	1	50
6.....	1	13	100	4.....	Milwaukee.....	3	150
7.....	3	4	110	5.....	Calumet.....	1	50
8.....	12	2	70		Sheboygan.....	1	50
Not given.....	1	1	20	6.....	Winnebago.....	2	100
Total.....	17	26	1,068	7.....	Monroe.....	1	50
					Sauk.....	2	40
					Vernon.....	1	20
				8.....	Jackson.....	1	20
					Trempealeau.....	1	50
				Not given.....	Dane.....	1	20
				Total.....		26	1,060
Congressional districts.	Counties.	No. of appli- cants.	No. of fish.				
1.....	Rock.....	1	100				
	Walworth.....	1	50				

WYOMING.

Congressional district.	No. of coun- ties.	No. of appli- cants.	No. of fish.	Congressional district.	Counties.	No. of appli- cants.	No. of fish.
At large.....	5	27	560	At large.....	Albany.....	2	60
Total.....	5	27	560		Carbon.....	9	180
					Johnson.....	1	20
					Laramie.....	13	200
					Uintah.....	2	40
				Total.....		27	560

DISTRIBUTION OF CARP IN CANADA IN 1883.

CANADA.

Province.	No. of applicants.	No. of fish.
Ontario	1	100
Total	1	100

As incidental to the distribution of carp, and in conjunction with it, a moderate number of the gold orfe and fancy gold fish have been sent to applicants in the various States and Territories of the United States. A summary of the number distributed in 1882 and 1883 will be found in Tables III and IV.

TABLE III.—DISTRIBUTION OF GOLD FISH DURING THE YEARS 1882-'84.

State.	Number of applicants.	Number of fish.	State.	Number of applicants.	Number of fish.
Alabama.....	1	6	Missouri.....	1	6
Arizona Territory ¹	2	36	Mississippi.....	1	6
California.....	1	12	Nebraska.....	5	15
Connecticut.....	1	20	New Hampshire.....	1	3
Delaware ²	4	116	New Jersey.....	8	39
District of Columbia ³	317	2,058	New York.....	5	30
Florida.....	1	4	North Carolina.....	18	76
Georgia ⁴	47	271	Ohio.....	15	89
Illinois.....	5	34	Pennsylvania.....	5	32
Indiana.....	208	862	Rhode Island.....	2	14
Indian Territory.....	1	6	Tennessee.....	3	21
Iowa.....	2	12	Texas ⁵	7	315
Kansas.....	3	41	Utah Territory.....	5	12
Kentucky.....	17	58	Virginia ⁷	59	510
Maryland ⁶	16	95	West Virginia.....	4	19
Massachusetts.....	16	46	Wyoming Territory.....	7	14
Michigan.....	19	123	Total.....	802	5,001

¹ Thirty-six delivered to State Commissioner John J. Gosper for distribution.

² One hundred delivered to Commissioner Enoch Moore, jr., for distribution.

³ One hundred and sixty delivered to George H. H. Moore for distribution to Baltimore and Potomac Railroad employes. Two hundred delivered to Col. A. F. Rockwell for public fountains. Twenty-five delivered to C. A. Stewart for fountain in National Museum. Twelve delivered to Mrs. T. L. Precker for exhibit at Garfield Memorial Fair.

⁴ Twelve expressed to Messenger G. G. Davenport at Atlanta for distribution. Seventy-five expressed to Messenger F. L. Donnelly at Atlanta for distribution. Fifty delivered to Commissioner J. P. Henderson, Atlanta, for distribution.

⁵ Twenty delivered to J. F. Leggo for public fountains in Cumberland.

⁶ Two hundred delivered to Commissioner R. R. Robertson, Austin, Tex., for distribution. Fifty delivered to Commissioner John B. Lubbock, Austin, Tex., for distribution.

⁷ Twenty delivered to W. H. Dulaney for public fountains in Lynchburg, Va. Three hundred and fifty expressed to George A. Seagle, Wytheville, Va., for distribution.

TABLE IV.—DISTRIBUTION OF GOLD ORFE DURING THE YEARS 1882-'84.

Name.	Post-office address.	Number of fish.
Col. A. F. Rookwell.....	Washington, D. C.....	0
J. H. Rathbone.....	Washington, D. C.....	2
W. Williams.....	Washington, D. C.....	12
Henry P. Farrow.....	Atlanta, Ga.....	12
Dr. H. H. Cary.....	La Grange, Ga.....	6
Hon. J. Fred. C. Talbott.....	Lutherville, Md.....	6
Martin Metcalf.....	Battle Creek, Mich.....	12
J. G. W. Steedman.....	Saint Louis, Mo.....	30
B. E. B. Kennedy.....	Omaha, Nebr.....	4
E. D. Sturtevant.....	Bordentown, N. J.....	4
E. G. Blackford.....	New York City.....	5
Kemp Gaines.....	Springfield, Ohio.....	4
B. V. Moore.....	Rix's Mills, Ohio.....	4
W. H. Aiken.....	New Castle, Pa.....	4
M. S. Carty.....	San Antonio, Tex.....	4
Nat. Mitchell.....	do.....	4
Total.....		117

Car No. 2, having completed the distribution of carp to the States traversed by the Union Pacific Railroad, reported at headquarters in Washington December 10, and having been overhauled and the necessary repairs completed, was dispatched to Northville, Mich., to report to F. N. Clark, superintendent of the Northville Station, for service in making the whitefish distribution.

It was engaged continuously in this work from February 21, when the first shipment of 3,000,000 fry was made to Lake Michigan, to April 8, when the work closed with a shipment of 1,000,000 whitefish fry to Lake Erie. A subsequent trip was made April 11, with 75,000 salmon trout, which were deposited as follows:

In Crooked Lake, Michigan.....	20,000
In Cranberry Lake, Michigan.....	20,000
In Star Lake, Michigan.....	35,000

On the same trip 10,000 fry of the European trout, *Salmo fario*, were transported to and planted in the headwaters of the Pere Marquette River. The ova from which these fry were hatched were donated by the Deutsche Fischerei-Verein. The results of the experiment will be looked for with a great deal of interest, as it is believed that the European trout will be found to do well in many streams in which our common brook trout do not thrive.

A statement of the whitefish distribution, so far as accomplished by car and messenger service, will be found in Table V. A summary of the entire distribution of ova and fry from the Northville and Alpena Stations will be found in the report of F. N. Clark, superintendent of these stations.

TABLE V.--STATEMENT OF WHITEFISH FRY PLANTED IN WATERS OF THE UNITED STATES DURING THE SEASON OF 1883-84.

Date.	Waters stocked.	Place of deposit.	Number of fish.
1884.			
Feb. 21	Lake Michigan	Manistec Mich	3,000,000
23	do	Grand Haven, Mich	3,000,000
23	Potomac River	West Virginia Junction, W. Va	500,000
26	do	Near Keyser, W. Va	500,000
27	Lake Erie	Erie, Pa	3,000,000
Mar. 5	Lake Michigan	Traverse City, Mich	3,000,000
11	Lake Ontario	Oswego, N. Y	3,000,000
14	Lake Huron	Port Huron, Mich	3,000,000
17	Lake Ontario	Oswego, N. Y	3,000,000
21	Lake Michigan	Ludington, Mich	3,000,000
22	Lake Huron	Fort Gratiot, Mich	3,000,000
25	Lake Erie	Mouroe, N. Y	3,000,000
26	do	North Bass Island, Ohio	1,500,000
26	do	Put-in-Bay Island, Ohio	1,500,000
Apr. 1	Lake Michigan	Racine, Wis	1,000,000
1	do	Milwaukee, Wis	2,000,000
1	do	Sheboygan, Wis	1,000,000
8	Lake Erie	Put-in-Bay Island, Ohio	1,000,000
8	do	North Bass Island, Ohio	1,000,000
24	Lake Superior	Ashland, Wis	4,000,000
May 6	Lake Michigan	Escanaba, Mich	4,000,000
Apr. 8	Lake Erie	Ottawa City, Ohio	1,000,000
		Total	49,000,000

Of the above, the 1,000,000 planted in tributaries of the Potomac River were hatched at Central Station and planted under the direction of Mr. J. E. Brown; all the rest were obtained from Northville and taken to destination by J. F. Ellis, messenger in charge.

One million whitefish eggs were sent to Alfred Greenfield for Acclimatization Society, New Zealand, by F. N. Clark, from Northville, Mich., January 5, 1884, and were received in good condition.

Car No. 1, in charge of George H. H. Mocre, did not complete the distribution of carp to Louisiana, Texas, Arizona, and New Mexico and report at headquarters until January 10, 1884. Mr. Carswell, messenger attached to the car, was immediately sent to the trout-breeding station at Wytheville, Va., to assist in the work at the hatchery; and as soon as the necessary repairs were completed, the car was ordered to Wytheville to distribute the different *Salmonida* that had been bred at the station during the seasons of 1882 and 1883. A summary of the distribution of *Salmonida* for the season of 1883, from Wytheville, Va., Northville, Mich., and Central Station, Washington, D. C., will be found in Table VI.

The distribution of California trout, two years old, marks a new departure in the work of the Fish Commission, and one which promises most important results. The rainbow trout (*Salmo iridea*) sent out were from 5 to 7 inches long, and in weight ranged from 5 to 8 ounces. Being protected by their size from the attacks of the predaceous fishes occupying the waters in which they were placed, it is believed that the plants of four hundred fish, made in a number of the South Atlantic and Gulf streams will be more effective in colonizing those waters than plants of 50,000 fry made before the absorption of the sack has been completed, when they are alike helpless to resist attack and have not the vigor or activity to escape danger by running away from it.

As heretofore, the railroads have been liberal in granting free transportation for our cars. This is especially true of the great trunk lines beyond the Mississippi, and we have thus been enabled to extend the benefits of the work of the Commission to remote sections of the country, which otherwise would have been inaccessible by reason of the cost of transportation.

Statement of free transportation furnished the United States Fish Commission in 1883.

TO CAR No. 1 AND MESSENGERS.

Name of company.	From—	To—	Dis- tance.
			Miles.
Saint Louis, Iron Mountain and Southern.	Saint Louis, Mo	Texarkana, Ark., and return	980
Texas and Pacific	Texarkana, Ark	El Paso, Tex., and return	1,738
Burlington and Missouri	Omaha, Nebr	South Bend, Nebr., and return	46
Richmond and Alleghany	Richmond, Va	Lorraine, Va., and return	24
Northern Pacific	Saint Paul, Minn	Wallula Junction, Wash., and return	3,396
Oregon Railway and Navigation Company.	Wallula Junction, Wash.	Portland, Oreg., and return	428
Do	do	Walla Walla and return	96
Texas and Pacific	New Orleans, La	Marshall, Tex	368
Missouri Pacific	Tyler, Tex	Dallas, Tex	104
International and Great Northern.	Palestine, Tex	Austin, Tex., thence to Tyler	412
Atchison, Topeka and Santa Fé ..	Albuquerque, N. Mex	Kansas City, Mo.....	918
Total			8,510

TO CAR No. 2 AND MESSENGERS.

Saint Louis and Iron Mountain ..	Saint Louis, Mo	Texarkana, Ark	490
Do	Texarkana, Ark	Saint Louis, Mo	490
Texas Pacific	do	Fort Worth, Tex	244
Do	Fort Worth, Tex	Dallas, Tex	32
Do	Dallas, Tex	Fort Worth, Tex., and return	64
Do	Long view, Tex	Texarkana, Ark	97
Houston and Texas Central	Dallas, Tex	Hearne, Tex	144
International and Great Northern.	Hearne, Tex	Austin, Tex	91
Do	Austin, Tex	Laredo, Tex	244
Do	Laredo, Tex	Long View, Tex	496
Flint and Pere Marquette	Toledo, Ohio	Northville, Mich., and return	124
Do	do	Northville, Mich	62
Do	Northville, Mich	Detroit, Mich., and return (3 trips).	180
Do	do	Toledo, Ohio, and return, (2 trips).	248
Do	do	Detroit, Mich	30
Do	Detroit, Mich	Northville, Mich., and return	60
Do	do	Bay City, Mich	121
Do	Bay City, Mich	Holly, Mich., and return	128
Do	do	Ludington, Mich., and return	298
Do	do	Reed City, Mich., and return	190
Do	do	Flint, Mich	46
Do	do	Cleveland, Ohio, and return	226
Lake Shore and Michigan Central.	Toledo, Ohio		

Statement of free transportation furnished United States Fish Commission in 1883—Cont'd.

TO CAR No. 2 AND MESSENGERS—Continued.

Name of company.	From—	To—	Dis- tance.
Michigan Central	Grand Trunk Junction, Mich.	Detroit, Mich., and return	<i>Miles.</i> 20
Great Western of Canada	Detroit, Mich.	Niagara, Ontario, and return (3 trips)	1,380
Rome, Watertown and Ogdensburg Do	Charlotte, N. Y. Around Oswego (2 trips)	Oswego, N. Y. (2 trips)	280 24
Detroit, Grand Haven and Milwau- kee. Do	Holly, Mich. Around Detroit, Mich. (3 trips)	Grand Haven, Mich., and re- turn.	248 10
Grand Rapids and Indiana	Reed City, Mich.	Harbor Springs and return	200
Chicago and Grand Trunk	Flint, Mich.	Chicago, Ill.	208
Do	Around Chicago .....	.....	16
Marquette, Houghton and Onton- agon. Do	Negaunee, Mich. Marquette, Mich.	Marquette, Mich. Michigamee, Mich.	12 126
Do .....	.....	L'Anse, Mich.	20
Do	Michigamee, Mich.	Negaunee, Mich., and return	300
Detroit, Mackinac and Marquette ..	Marquette, Mich.	Saint Ignace, Mich., and return (3 times)	800
Utah Central	Ogden, Utah.	Salt Lake City, Utah, and re- turn.	74
Total .....	.....	.....	8,429

TO DETACHED MESSENGERS.

Oregon Railway and Navigation Company.	San Francisco, Cal.	Portland, Oreg., and return	*1,200
Utah Central Railroad	Ogden, Utah.	Salt Lake, Utah, and return	74
Atlantic and Pacific	Albuquerque, N. Mex.	Laguna, N. Mex., and return ..	132
Atchison, Topeka and Santa Fé	Kansas City, Mo.	Albuquerque, N. Mex., and re- turn.	694
Texas Pacific	Texarkana	Paris, Tex.	91
Do	do	Shreveport, La.	114
Do	Shreveport, La.	Longview, Tex.	63
Do	Mincola, Tex.	Dallas, Tex.	78
Houston and Texas Central	Dallas, Tex.	Corsicana, Tex., and return ..	108
International and Great Northern ..	Palestine, Tex.	Mincola, Tex.	90
Do	Longview, Tex.	Palestine, Tex.	81
Total .....	.....	.....	2,725

* Estimated.