

XXXVI.—DISTRIBUTION OF SHAD THROUGH CENTRAL STATION
BY THE UNITED STATES FISH COMMISSION IN 1882.

BY M. McDONALD.

In anticipation of the increased demand for shad fry for planting in new waters extensive preparations were made to utilize to the fullest extent the resources of the Potomac and Susquehanna Rivers. In consequence of the low temperature of water prevailing during the season in both these rivers the catch of shad was unexpectedly small, and the river fisheries were comparatively a failure. The same conditions which influenced unfavorably the catch affected also the number and quality of eggs secured. The total number of fry obtained for distribution amounted to 20,637,000. Of these 800,000 were furnished by the station on the Susquehanna River, near Havre de Grace, Md., and the balance by the Potomac River stations; the Navy-Yard contributing 14,444,000 and Central Station 5,393,000.

For convenience of reference a summary of distribution arranged alphabetically by waters is also appended.

The distribution was made mainly by car service, one distinguishing feature of the season being the concentration of large numbers of fish in single plants in comparatively few localities.

The total mileage of the cars in making this distribution was for car No. 1, in charge of Mr. George H. H. Moore, 9,730 miles, and car No. 2, in charge of Mr. J. Frank Ellis, 2,462 miles.

Of the entire number planted 6,110,000 were placed in the Mississippi River or its tributaries, and 5,440,000 in the minor tributaries of the Gulf of Mexico.

TABLE I.—*Record of distribution of shad made from May 3, 1882, to June 17, 1882, from Central Station, under direction of Marshall McDonald.*

Date of transfer.	Number of fish.		Introduction of fish.	
	Originally taken.	Actually planted.	Place.	Stream.
May 3	475,000	450,000	Tiffin, Ohio	Sandusky River. ³
4	500,000	500,000	Little Falls, Md	Potomac River. ¹⁰
5	430,000	430,000	Little Falls, Md	Potomac River. ¹⁰
6	200,000	200,000	Little Falls, Md	Potomac River. ⁵
7	250,000	240,000	Wheeling, W. Va	Ohio River. ¹⁰
8	250,000	231,000	Newnan, Ga	Chattahoochee River. ¹
8.	750,000	750,000	Little Falls, Md	Potomac River. ⁵
9	300,000	300,000	Va. Mid. R. R. Crossing.	Rappahannock River. ⁹
11	1,000,000	870,000	Austin, Tex	Colorado River. ³
12	300,000	300,000	Farmville, Va	Appomattox, River. ²
12	250,000	248,000	C. and A. A. L. Crossing, South Carolina.	Broad River. ⁴
13	470,000	470,000	Fredericksburg, Va	Rappahannock River. ⁹
13	300,000	300,000	Strasburg, Va	Shenandoah River. ⁸
13	550,000	550,000	Little Falls, Md	Potomac River. ¹
15	500,000	450,000	Conyers, Ga	Oconee River. ⁸
15	600,000	450,000	Covington, Ga	Yellow River. ⁸
17	250,000	249,000	C. and A. A. L. Crossing, South Carolina.	Broad River. ⁴
18	800,000	800,000	Towers, Ky	Kentucky River. ¹⁰
18	800,000	800,000	Point Burnside, Ky	Cumberland River. ¹⁰
19	400,000	400,000	Chattanooga, Tenn	Tennessee River. ¹
20	24,000	20,000	New York City. ¹²	
21	400,000	400,000	Little Falls, Md	Potomac River. ⁵
21	325,000	325,000	Junction of Etowah and Oostanaula Rivers, Ga.	Coosa River. ⁸
21	350,000	350,000	2 miles from Rome, Ga.	Etowah River. ⁸
21	325,000	325,000	3 miles from Rome, Ga.	Oostanaula River. ⁸
22	300,000	300,000	Zanesville, Ohio	Muskingum River. ⁶
22	545,000	545,000	Columbus, Ohio	Scioto River. ⁶
22	300,000	300,000	Athens, Ohio	Hocking River. ⁶
24	893,000	893,000	Albany, N. Y	Hudson River. ¹⁰
27	250,000	250,000	Selma, Ala	Catawba River. ¹
27	300,000	300,000	Troy, Ala	Conecuh River. ²
27	300,000	300,000	Whiting, Ala	Escambia Creek. ²
27	200,000	200,000	Atlanta, Ga	Chattahoochee River. ²
27	250,000	250,000	West Point, Ga	Chattahoochee River. ²
28	300,000	300,000	Little Falls, Md	Potomac River. ⁵
28	240,000	216,000	Poplar Bluff, Ark	Black River. ⁶
28	248,000	216,000	Arkadelphia, Ark	Onachita River. ⁶
28	370,000	306,000	Jefferson, Tex	Cyprus Bayou. ⁶
28	370,000	342,000	Fort Worth, Tex	Trinity River. ⁶
30	688,000	688,000	Little Falls, Md	Potomac River. ⁵
31	100,000	100,000	Shepherdsville, Ky	Salt River. ⁸
31	100,000	100,000	Munfordville, Ky	Green River. ⁸
31	100,000	100,000	Bowling Green, Ky	Barren River. ⁸
June 1	891,000	891,000	Scaford, Del	Nanticoke River. ³
2	145,000	142,000	Ellsworth, Kans	Smoky Hill River. ¹
2	20,000	20,000	.....	Saline River. ¹
2	20,000	20,000	.....	Solomon River. ¹
2	20,000	20,000	.....	Republican River. ¹
2	20,000	20,000	.....	Blue River. ¹
3	958,000	958,000	Dubuque, Iowa	Mississippi River. ³
3	150,000	145,000	Covington, Ind	Wabash River. ²
3	150,000	145,000	Danville, Ill	Kaskaskie River. ²
5	210,000	210,000	Piedmont, W. Va	Potomac River. ¹¹
6	125,000	125,000	Quitman Ga	Withlacoochee River. ⁸
6	125,000	125,000	.....	Flint River. ⁸

TABLE I.—*Record of distribution of shad, &c.—Continued.*

Date of transfer.	Number of fish.		Introduction of fish.	
	Originally taken.	Actually planted.	Place.	Stream.
June 7	340,000	340,000	Charlottesville, Va	Rivanna River. ⁹
10	70,000	70,000	Albany, N. Y.	Hudson River. ⁷
13	140,000	140,000	Fredericksburg, Va.	Rappahannock River. ⁶
17	*250,000	237,500	Waterville, Me.	Sebastacook River. ⁶
17	*250,000	237,500	Mattawamkeag, Me.	Mattawamkeag River. ⁶
Total ..	20,637,000	19,950,000		

NOTE.—Of the above 14,444,000 were hatched at the Navy-Yard Station, 5,393,000 at Central Station, and 800,000 (indicated by the *) at the Havre de Grace Station, on the Susquehanna River.

The messengers in charge, as denoted by figures in the table, were as follows: ¹G. G. Daveport, ²F. L. Donnelly, ³J. F. Ellis (car No. 2), ⁴C. J. Huske, ⁵J. Mace, ⁶G. H. H. Moore (car No. 1), ⁷W. F. Page, ⁸H. E. Quinn, ⁹G. C. Schuerrmann, ¹⁰N. Simmons, ¹¹W. D. Wirt, ¹²B. and O. express.

TABLE 2.—*Record of distribution of shad from May 3 to June 17, 1882. Arranged alphabetically by waters.*

Date of deposit.	Waters stocked.	Point of deposit.	No. of fish deposited.
May 12	Appomattox River	Farmville, Va	*2300,000
23	Black River	Poplar Bluff, Ark.	⁶ 240,000
June 2	Blue River	Ellsworth, Kans.	¹ 25,000
May 12-17	Broad River	C. & A. & L. R. R. Crossing, S. C.	⁴ 500,000
27	Burnt Corn Creek	Brewton, Ala.	² 100,000
27	Catawba River	Selma, Ala.	³ 250,000
31	Barren River	Bowling Green, Ky.	⁸ 100,000
27	Chattahoochee River	West Point, Ga.	² 200,000
27	do.	Atlanta, Ga.	² 250,000
8	do.	West Point, Ga.	¹ 250,000
16	Colorado River	Austin, Tex.	³ 1,070,000
27	Coconuh River	Near Troy, Ala.	² 300,000
21	Coosa River	Rome, Ga.	⁸ 350,000
18	Cumberland River	Point Burnside, Ky.	¹⁰ 800,000
28	Cypress Bayou	Jefferson, Tex.	⁹ 360,000
27	Escambia River	Brewton, Ala.	³ 100,000
21	Etowah River	Cartersville, Ga.	⁸ 350,000
June 6	Flint River	Albany, Ga.	⁸ 125,000
May 31	Green River	Munfordville, Ky.	⁸ 100,000
24	Hocking River	Athens, Ohio	⁶ 300,000
24	Hudson River	Troy, N. Y.	¹⁰ 1,000,000
June 11	do.	do.	⁷ 70,000
3	Vermillion River	Danville, Ill.	² 150,000
May 18	Kentucky River	High Bridge, Ky.	¹⁰ 800,000
June 17	Mattawamkeag River	Mattawamkeag, Me.	⁶ 250,000
3	Mississippi River	Dubuque, Iowa	³ 958,000
May 27	Murder Creek	Near Sparta, Ala.	² 100,000
22	Muskingum River	McConnellsville, Ohio	⁶ 300,000
June 1	Nanticoke River	Seaford, Del.	³ 891,000
May 20	Oconee River	Conyers, Ga.	⁸ 450,000
7	Ohio River	Wheeling, W. Va.	¹⁰ 250,000

TABLE 2.—*Record of distribution of shad, &c.*—Continued.

Date of deposit.	Water stocked.	Point of departure.	No. of fish deposited.
May 28	Onchita River	Arkadelphia, Ark.....	⁶ 240,000
21	Oostanaula River	Resaca, Ga.....	⁸ 300,000
28	Potomac River.....	Little Falls, Md.....	⁶ 300,000
30	do.....	do.....	⁶ 6-8,000
21	do.....	do.....	⁶ 400,000
4	do.....	do.....	¹⁰ 500,000
13	do.....	do.....	¹ 550,000
5	do.....	do.....	¹⁰ 430,000
June 5	do.....	Piedmont, W. Va.....	¹¹ 210,000
May 13	Rappahannock River.....	Fredericksburg, Va.....	⁹ 470,000
12	do.....	Va. Mid. R. R. Crossing.....	⁹ 300,000
June 13	do.....	Fredericksburg, Va.....	⁶ 140,000
2	Republican River.....	Ellsworth, Kans.....	¹ 25,000
7	Rivanna River.....	Charlottesville, Va.....	⁹ 340,000
2	Saline River.....	Ellsworth, Kans.....	¹ 25,000
May 31	Salt River.....	Shepherdsville, Ky.....	⁸ 100,000
3	Sandusky River.....	Tiffin, Ohio.....	³ 475,000
29	Sangamon River.....	Near Havana, Ill.....	⁶ 552,000
22	Scioto River.....	Columbus, Ohio.....	⁶ 545,000
June 17	Sebastacook River.....	Waterville, Me.....	⁶ 250,000
May 13	Shenandoah River.....	Strausburg, Va.....	⁸ 300,000
June 2	Smoky Hill River.....	Ellsworth, Kans.....	¹ 200,000
2	Solomon River.....	do.....	¹ 25,000
May 19	Tennessee River.....	Chatanooga, Tenn.....	¹ 400,000
28	Trinity River.....	Fort Worth, Tex.....	⁶ 360,000
June 3	Wabash River.....	Covington, Ind.....	² 150,000
6	Withlacoochee River.....	Between Quitman and Valdosta, Ga.....	⁸ 125,000
May 20	Yellow River.....	Covington, Ga.....	⁸ 450,000
			20,130,000

* The names of messengers as indicated by these figures were as follows: ¹G. G. Davenport, ²F. L. Donnelly, ³J. F. Ellis (car No. 2), ⁴C. J. Huske, ⁵J. Mace, ⁶G. H. H. Moore (car No. 1), ⁷W. F. Page, ⁸H. E. Quinn, ⁹G. C. Schuermann, ¹⁰N. Simmons, ¹¹W. D. Wirt.