

## XXIII.—REPORT ON THE PROPAGATION OF PENOBSCOT SALMON IN 1880-'81.

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By CHARLES G. ATKINS.

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### 1. IMPROVED FIXTURES.

The disaster of August, 1879, whereby we lost nearly all our breeding salmon, had taught by a severe lesson that nothing less than a very substantial structure could be relied upon to withstand the force of such floods as occasionally swell the volume of even so small a stream as Dead Brook. Accordingly, the first business of 1880 was to construct two stout barriers to our inclosure, one at the upper and one at the lower end. Heavy piling was driven across the stream to secure against undermining, and this, cut off at the proper depth below the surface to avoid impeding the current, formed the foundation of a superstructure of stout sawed slats, which were inclined to the stream and surmounted by a walk on which workmen could pass constantly to and fro to clear the rack of rubbish. The lower barrier had, in addition, a capacious swinging gate for the passage of loaded boats, and was secured by a heavy ballasted pier in mid-stream and a pavement of heavy boulders on the muddy bottom on the lower side to prevent washing away, and though the substratum is so soft that piles driven into it 20 feet rise with their own buoyancy as if from thin porridge, unless ballasted, there is good reason to believe that a far greater freshet than that of 1879 will now assail our works in vain.

This was about the only important improvement that was made during the year in the inclosures or at the hatching house, though there was, as ever, many a little job to be done to increase the efficiency of the works, such as traps for catching the fish at the spawning season, ceiling up the walls of the hatching house, relaying the floor, adding new troughs and hatching fixtures, improving the water conduits, &c. The towing cars received considerable attention; improvements were made in their fittings and new ones added of models that it is hoped will prove better than the old.

## 2. BUYING SALMON.

The same arrangements for our supply of salmon were made as the previous year. The fishermen furnishing them brought their catch every tide to Mr. Whitmore at the lower end of the island of Verona, and thence, after counting and weighing (by Mr. Whitmore's eye), they were sent up the river to the inclosure. The first fish were received June 10 and the last July 2. The total purchase was 522, of which 42 died in transit. There was a serious loss soon after inclosing them, 65 having died and been found up to July 28. Nearly every one of these had sore eyes, and to that cause I attribute their death. The cause of the sore eyes is a problem not yet solved. I am inclined to attribute it to something occurring during their capture or transportation, as the effect followed so speedily on their inclosure. After July hardly any died, only two being found in August. No other trouble occurred, and the bulk of the fish came in good condition to the spawning season.

## 3. TAKING SPAWN.

Floods interfered with the count of the fish at this season, but it is known that 227 females were manipulated.

The work of spawning began October 25, and closed November 10. The whole number of eggs taken was afterwards computed at 1,930,561.

The impregnation of the eggs was very satisfactory, as is almost always the case with this variety of *Salmo salar*. But 50,854 were taken out known to be unimpregnated, and the total of pickings was but 80,061, by actual count.

The most of the females and a good many of the males were marked for future identification by attaching platinum tags to their dorsals, as formerly practiced at Bucksport. They were then turned loose in Dead Brook below the inclosure. Many of them are known to have staid in the river above Orland village all winter, as they were seen in considerable numbers in the early spring.

## 4. SHIPMENT OF SPAWN.

As in 1879, the warm water of Craig's Brook hastened the development of the eggs, so that we were compelled to begin shipments early in December; but the water cooled rapidly after that date, so that the final shipment was not made until February 28.

The allotment pro rata with the contributions in money gave the United States about 1,264,000; Maine, 340,000; New Hampshire, 45,500; Massachusetts, 225,000; these being the only contributors. The actual division will be seen by the appended Table II.

The packages of spawn reached their destinations in excellent condition, and the aggregate result was a large number of healthy salmon fry, whose hatching and planting are detailed in Tables III and IV.

In Table I, I give, as usual, a statement of the weights of the salmon purchased.

There being no requirement to reserve any part of the stock of eggs for the benefit of the neighboring waters, the whole of the spawn is yearly shipped away, and at the end of February the establishment was closed for the season.

The personnel of the establishment has remained as the previous year, Mr. H. H. Buck, of Orland, being in charge as foreman.

TABLE I.—Statement of salmon bought alive at Bucksport in 1880.

Date.	Whence received.	Number of salmon.	Weight of salmon.				Daily summary.		
			Several weights.	Aggregate.	Average.	Number of salmon.	Weights.		Date.
							Aggregate.	Average.	
<i>Pounds.</i>									
1880.									
June 10	A. H. W...	2	12, 11	23	11.50				
10	J. W...	2	21, 10, 8 $\frac{1}{2}$	39 $\frac{1}{2}$	13.17				
10	H. W...	2	12, 10	22	11.00				
10	P. A...	3	24, 22, 8, 10, 11, 9, 20	104	14.86				
10	W. A...	3	23, 8, 10	41	13.67	17	229 $\frac{1}{2}$	18.50	June 10.
June 11	A. H. W...	9	10, 18, 19, 21, 19, 8 $\frac{1}{2}$ , 10, 22	118 $\frac{1}{2}$	14.81				
11	H. J. W...	3	19 $\frac{1}{2}$ , 9, 10	38 $\frac{1}{2}$	12.83				
11	D. A. A...	3	10, 22, 8, 10, 10	66	13.20				
11	J. W...	3	11 $\frac{1}{2}$ , 21, 23 $\frac{1}{2}$ , 10 $\frac{1}{2}$ , 12	78 $\frac{1}{2}$	15.70				
11	P. A...	3	19, 15, 11, 10, 13	83	18.00				
11	W. A...	2	21, 11	32	16.00	28	401 $\frac{1}{2}$	14.34	June 11.
June 12	A. H. W...	7	12, 11, 10, 22, 21, 12, 11	90	14.14				
12	H. J. W...	2	10, 11	21	10.50				
12	D. A. A...	3	10, 10, 11	31	10.33				
12	P. A...	3	10, 10, 9	29	9.67				
12	J. W...	3	23, 20, 12	55	18.33				
12	H. W...	5	8, 9, 10, 11, 12	50	10.00	23	285	12.89	June 12.
June 14	A. H. W...	7	10, 11, 10, 20, 10, 22, 12	95	13.67				
14	J. W...	9	10, 11, 11, 12, 13, 12, 12, 23, 11	115	12.78				
14	D. A. A...	3	12, 9, 10	31	10.33				
14	P. A...	10	24, 21, 16, 13, 12, 12, 22, 8, 9, 10, 11, 12, 16, 18, 10, 12	220	14.12				
14	H. H...	3	18, 10, 12	40	13.33				
14	H. W...	14	13, 20, 12, 13, 11, 10, 11, 23, 21, 11, 12, 10, 10, 0	180	13.26				
14	W. A...	3	23, 10, 11	44	14.67				
14	H. A...	6	20, 12, 9, 10, 13, 20	84	14.00	61	821	13.46	June 14.
June 15	A. H. W...	6	12, 12, 11, 10, 9 $\frac{1}{2}$ , 11	65 $\frac{1}{2}$	10.92				
15	J. W...	2	11, 11	22	11.00				
15	P. A...	11	20, 10, 11, 21, 22, 12, 10, 11, 12, 9, 23	161	14.64				
15	H. A...	1	13, 18	31	15.50				
15	W. A...	1	10	10	10.00				
15	D. A. A...	3	9, 10, 12	31	10.33				
15	H. W...	0	12, 19, 10, 10, 9, 10	70	11.67	31	390 $\frac{1}{2}$	12.60	June 15.
June 16	A. H. W...	4	12, 12, 11, 10	45	11.25				
16	J. W...	5	10, 11, 13, 14, 14	62	12.40				
16	D. A. A...	5	20, 10, 10, 9, 12	61	12.20				
16	P. A...	4	20, 22, 12, 14	68	17.00				
16	H. A...	2	12, 18	30	15.00				
16	W. A...	2	8, 11	19	9.50				
16	H. W...	8	24, 13, 9, 15, 14, 11, 12, 13	111	13.87				
16	H. H...	1	10	10	10.00				
June 17	A. H. W...	21	22, 18, 12, 9, 12, 10, 10, 12, 9, 13, 11, 13, 10, 10, 11, 11, 12, 15, 9, 11, 13	253	12.05	31	406	18.10	June 16.

TABLE I.—Statement of salmon bought alive at Buokport in 1880—Continued.

Date.	Whence received.	Number of salmon.	Weight of salmon.				Daily summary.		
			Several weights.	Aggregate.	Average.	Number of salmon.	Weights.		Date.
							Aggregate.	Average.	
<i>Pounds.</i>									
1880.									
June 17	J. W.	4	11, 12, 11, 11.	45	11.25				
17	D. A. A.	10	9, 12, 12, 9, 10, 10, 10, 11, 11, 11.	105	10.50				
17	H. W.	4	10, 12, 12.	34	11.33				
17	P. A.	9	10, 11, 13, 20, 9, 10, 13, 11, 10.	107	11.89				
17	W. A.	3	11, 13, 10.	34	11.33				
17	H. J. W.	2	18, 17.	35	17.50				
17	H. A.	1	10.	10	10.00				
17	H. H.	2	13, 11.	24	12.00	55	647	11.76	June 17.
June 18	A. H. W.	12	24, 22, 12, 11, 8 $\frac{1}{2}$ , 10, 10, 11, 11, 11, 11 $\frac{1}{2}$ , 10.	153	12.75				
18	J. W.	7	17, 15, 14, 12, 11, 11, 10.	90	12.86				
18	H. W.	4	16, 21, 11, 20.	68	17.00				
18	P. A.	5	9, 10, 10, 10, 21.	69	13.80				
18	D. A. A.	7	15, 12, 10, 12, 21, 12, 8.	90	12.86				
18	W. F. A.	1	11.	11	11.00	36	481	13.36	June 18.
June 10	A. H. W.	24	12, 19, 11, 10, 23, 11, 9, 12, 11, 22, 10, 22, 12, 11, 11, 12, 11, 15, 20, 12, 19, 11, 12, 10.	328	13.67				
10	H. W.	5	9, 13, 9, 11, 10.	52	10.40				
10	J. W.	5	18, 11, 10, 10, 12.	61	12.20				
10	D. A. A.	4	12, 12, 11, 10.	45	11.25				
10	H. H.	4	10, 10, 11, 12.	43	10.75				
10	H. J. W.	6	12, 11, 10, 10, 11, 9.	63	10.50				
10	A. H. W.	3	12, 11, 10.	33	11.00				
10	P. A.	5	10, 11, 13, 11, 12.	57	11.40				
10	H. H.	1	9.	9	9.00				
10	J. W.	2	12, 10.	22	11.00				
10	D. A. A.	3	9, 11, 12.	32	10.67	62	745	12.02	June 19.
June 21	A. H. W.	17	22, 12, 12, 11, 23, 12, 12, 11, 11, 10, 10, 10, 12, 22, 20, 16, 12.	236	14.00				
21	J. W.	8	11, 11, 17.	39	13.00				
21	D. A. A.	17	23, 21, 11, 11, 20, 10, 22, 19, 20, 11, 11, 11, 9, 9, 10, 10.	237	13.94				
21	P. A.	12	22, 10, 11, 12, 14, 13, 10, 12, 15, 14, 9, 9.	151	12.58				
21	H. W.	4	11, 11, 10, 12.	44	11.00				
21	H. A.	1	14.	14	14.00	54	728	13.30	June 21.
June 22	A. H. W.	6	22, 20, 9, 12, 19, 12.	94	15.67				
22	H. W.	5	20, 19, 13, 8, 19.	79	15.80				
22	D. A. A.	2	14, 12.	26	13.00				
22	P. A.	5	11, 12, 21, 13, 15.	72	14.40				
22	H. A.	2	13, 15.	28	14.00	20	299	14.95	June 22.
June 24	A. H. W.	2	24, 10.	34	17.00				
24	H. W.	9	18, 14, 12, 9, 9, 11, 12, 11, 13.	100	12.11				
24	J. W.	4	8, 9, 11, 12.	40	10.00				
24	D. A. A.	1	10.	10	10.00				
24	H. H.	2	12, 10.	22	11.00	18	215	11.94	June 24.
June 26	A. H. W.	4	12, 11, 10, 11.	44	11.00				
26	H. W.	7	20, 10, 13, 12, 12, 9, 11.	87	12.43				
26	P. A.	6	20, 20, 21, 22, 9, 12.	104	17.33				
26	H. A.	1	9.	9	9.00				
26	W. F. A.	1	10, 9.	19	9.50				
26	D. A. A.	2	10.	10	10.00	21	278	13.00	June 26.
June 28	A. H. W.	2	24, 11.	35	17.50				
28	D. A. A.	1	19.	19	19.00				
28	P. A.	2	22, 11.	33	16.50				
28	H. A.	2	11, 20.	31	15.50				
28	W. F. A.	1	9.	9	9.00	8	127	15.87	June 28.

TABLE I.—Statement of salmon bought alive at Bucksport in 1880—Continued.

Date.	Whence received.	Number of salmon.	Weight of salmon.				Daily summary.		
			Several weights.	Aggregate.	Average.	Number of salmon.	Weights.		Date.
							Aggregate.	Average.	
1880.									
June 29	A. H. W...	5	12, 12, 11, 11, 10.....	55	11.20	20	254	12.70	June 29.
29	D. A. A...	5	22, 8, 12, 12, 11.....	65	13.20				
29	H. W.....	5	12, 21, 15, 11, 12, 19.....	90	15.00				
29	J. W.....	4	11, 9, 10, 12.....	42	10.50				
June 30	D. A. A...	2	12, 11.....	23	11.50	18	252	14.00	June 30.
30	W. F. A...	3	11, 12, 23.....	46	15.33				
30	P. A.....	4	10, 25, 15, 12.....	62	15.50				
30	H. A.....	2	10, 12.....	22	11.00				
30	H. W.....	2	9, 12.....	21	10.50				
30	J. W.....	5	11, 12, 18, 20, 22.....	78	15.60				
July	A. H. W...	8	20, 9, 10, 12, 18, 10, 10, 12.....	101	12.62	19	238	12.53	July 2.
	J. W.....	3	20, 10, 14.....	44	14.67				
	D. A. A...	3	11, 11.....	22	11.00				
	H. W.....	1	12.....	12	12.00				
	P. A.....	3	11, 14, 11.....	38	12.00				
	W. F. A...	2	12, 11.....	23	11.50				
			<b>Total .....</b>	<b>522</b>	<b>6,787½</b>			<b>18.00+</b>	

TABLE II.—Record of shipment of salmon spawn from Bucksport, December, January, and February, 1880-'81.

Date.	Consignee and address.	Final destination.	On whose account.	For what State.	No. of cases.	No. of fish.
1880.						
Dec. 8	A. H. Powers, Plymouth, N. H.	Plymouth, N. H.	New Hampshire Commission	New Hampshire	3	240
9	E. A. Brackett, Winchester, Mass.	Winchester, Mass.	Massachusetts Commission	Massachusetts	1	240
16	H. J. Fenton, Windsor, Conn.	Poquonock, Conn.	Connecticut Commission	Connecticut	2	238
16	A. H. Powers, Plymouth, N. H.	Plymouth, N. H.	Massachusetts Commission	Massachusetts	2	153½
22	A. H. Powers, Plymouth, N. H.	Plymouth, N. H.	Massachusetts Commission	New Hampshire	1	220½
22	H. J. Fenton, Windsor, Conn.	Poquonock, Conn.	Connecticut Commission	Connecticut	1	180
22	C. M. Smith, Norway, Me.	Norway, Me.	Maine Commission	Maine	1	179
	T. L. Page, Phillips, Me.	Rangely, Me.	Maine Commission	Maine	2	170
29	H. J. Fenton, Windsor, Conn.	Poquonock, Conn.	Connecticut Commission	Connecticut	1	148
29	O. A. Dennen, Greenville, Me.	Mount Kineo, Moosehead Lake, Me.	Maine Commission	Maine	1	148½
						148
						148½
1881.						
Jan. 12	T. B. Ferguson, Baltimore, Md.	Druid Hill Hatchery, Baltimore, Md.	Maryland Commission	Maryland	3	113½
13	New Jersey Com'ers, Bloomsbury, N. J.	Bloomsbury, N. J.	New Jersey Commission	New Jersey	2	194
12	C. M. Smith, Norway, Me.	Norway, Me.	Maine Commission	Maine	1	188
13	O. A. Dennen, Greenville, Me.	Mount Kineo, Moosehead Lake, Me.	Maine Commission	Maine	1	150
18	R. O. Sweeney, Saint Paul, Minn.	Saint Paul, Minn.	Minnesota Commission	Minnesota	2	185
18	N. K. Fairbank, Chicago, Ill.	Geneva Lake, Wis.	N. K. Fairbank	Wisconsin	1	208
18	S. G. Worth, Morganton, N. C.	Morganton, N. C.	North Carolina Commission	North Carolina	1	194
18	J. H. Dinkins, Austin, Tex.	Austin, Tex.	Texas Commission	Texas	1	75
18	A. H. Powers, Plymouth, N. H.	Plymouth, N. H.	Massachusetts Commission	Massachusetts	1	98
24	Seth Weeks, Corry, Pa.	Corry, Penn.	Pennsylvania Commission	Pennsylvania	1	110
Feb. 8	E. M. Stilwell, Bangor, Me.	Bangor, Me.	Maine Commission	Maine	1	171
15	Mrs. J. H. Slack, Bloomsbury, N. J.	Bloomsbury, N. J.	New Jersey Commission	New Jersey	1	91
15	T. B. Ferguson, Baltimore, Md.	Druid Hill Hatchery, Baltimore, Md.	Maryland Commission	Maryland	1	168
22	E. M. Stilwell, Bangor, Me.	Bangor, Me.	Maine Commission	Maine	2	220
27	E. M. Stilwell, Bangor, Me.	Bangor, Me.	Maine Commission	Maine	1	270
						210
Total					35	

TABLE II.—Record of shipment of salmon spawn from Bucksport, December, January, and February, 1880-'81—Continued.

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Date.	Consignee and address.	Number of eggs.			Distance transported.	Date of arrival at final destination.	Date of unpacking.	Hours en route.	Condition.	No. days on journey.
		Belonging to State.	Donated by U.S.	Total.						
1880.					<i>Miles.</i>					
Dec. 8	A. H. Powers, Plymouth, N. H.	44,000	158,000	202,000	404	Dec. 10, 1880, 9 a.m.	Dec. 10, 1880, 12 m.	50	Good	284
9	E. A. Brackett, Winchester, Mass.	50,000		50,000	225	Dec. 10, 1880, 9 p.m.	Dec. 11, 1880, 9 a.m.	38	do	254
16	H. J. Fenton, Windsor, Conn.		140,000	140,000	391	Dec. 18, 1880, 10 a.m.	Dec. 18, 1880, 4 p.m.	51	do	287
16	A. H. Powers, Plymouth, N. H.	120,000		120,000	404	Dec. 17, 1880, 2 p.m.	Dec. 17, 1880, 4 p.m.	31	do	280
22	A. H. Powers, Plymouth, N. H.		50,000	50,000	404	Dec. 24, 1880, 10 a.m.	Dec. 24, 1880, 12 m.	51	do	284
22	H. J. Fenton, Windsor, Conn.		50,000	50,000	391	Dec. 24, 1880, 10 a.m.	Dec. 24, 1880, 2 p.m.	51	do	29
22	C. M. Smith, Norway, Me.		50,000	50,000	210	Dec. 23, '80, 12.30 p.m.	Dec. 23, '80, 1.30 p.m.	294	do	12
	T. L. Page, Phillips, Me.		100,000	100,000	177	Dec. 24, 1880, 10 a.m.	Dec. 24, 1880, 11 a.m.	51	Good, best I ever saw	67
29	H. J. Fenton, Windsor, Conn.		60,000	60,000	391	Jan. 1, 1881, 10 a.m.	Jan. 1, 1881, 2 p.m.	51	Good	165
29	O. A. Dennen, Greenville, Me.		37,500	37,500	121	Jan. 2, 1881, 10 a.m.	Jan. 2, 1881, 11 a.m.	122	Extra good	8
1881.										
Jan. 12	T. B. Ferguson, Baltimore, Md.		200,000	200,000	694	Jan. 14 and 15, 1881, 5.30 p.m., 9.30 a.m.	Jan. 15, 1881, 5.30 p.m.	584	Excellent	55
12	New Jersey Com'rs, Bloomsbury, N. J.		100,000	100,000	572	Jan. 14, 1881, 7 p.m.	Jan. 14, 1881, 9 p.m.	60	In first-class condition	27
13	C. M. Smith, Norway, Me.	50,000		50,000	210	Jan. 14, '81, 12.50 p.m.	Jan. 14, '81, 1.30 p.m.	30	Good	4
13	O. A. Dennen, Greenville, Me.		62,500	62,500	121	Jan. 16, 1881, 3 p.m.	Jan. 17, 1881, 9 a.m.	82	do	8
18	R. O. Sweeny, Saint Paul, Minn.		150,000	150,000	1,682	Jan. 22, 1881, 7 p.m.	Jan. 23, 1881	108	do	68
18	N. K. Fairbank, Chicago, Ill.		10,000	10,000	1,291	Jan. 22, 1881, 4 p.m.	Jan. 22, 1881, 4 p.m.	102	In good condition	27
18	S. G. Worth, Morganton, N. C.		20,000	20,000	1,404	Jan. 24, '81, 12.30 p.m.	Jan. 24, 1881, 4 p.m.	148	Very good	25
18	J. H. Dinkins, Austin, Tex.		3,000	3,000	2,225				Bad*	All.
18	A. H. Powers, Plymouth, N. H.	49,500		49,500	404	Jan. 19, 1881, 3 p.m.	Jan. 19, 1881, 5 p.m.	32	Good	28
24	Seth Weeks, Corry, Pa.		25,000	25,000	857	Jan. 23, 1881, 10 a.m.	Jan. 23, 1881, 12 m.	99	do	10
Feb. 8	E. M. Stilwell, Bangor, Me.	80,000		80,000	26	Feb. 8, '81, 2.30 p.m.	Feb. 8, 1881, 3 p.m.	7	do	14
15	Mrs. J. H. Slack, Bloomsbury, N. J.		30,000	30,000	572	Feb. 18, 1881				9
15	T. B. Ferguson, Baltimore, Md.		20,000	20,000	694	Feb. 17, '81, 4.40 p.m.	Feb. 18, 1881, 2 p.m.	574	Excellent	5
22	E. M. Stilwell, Bangor, Me.	110,000		110,000	26	Feb. 22, 1881			Good	12
27	E. M. Stilwell, Bangor, Me.	68,000	6,000	74,000	26	Mar. 1, 1881, 3 p.m.	Mar. 1, 1881, 4 p.m.	8	do	
Total		571,500	1,270,000	1,841,500						

PROPAGATION OF PENOBSCOT SALMON.

\*The consignee of this lot was absent at time of their arrival; had made no preparation for their reception, and they were not unpacked until all were spoiled.

TABLE III.—Hatching of Penobscot salmon from eggs collected in 1880.

Place of hatching.	In charge of hatching.	Total number of eggs sent from Backport.	Died in transit.	Died in incubation.	Number hatched.	Died after hatching.	Number of fish sent out.	Number actually planted.
Connecticut, Poquonock .....	H. J. Fenton .....	250,000	491	2,058	247,451	1,820	245,631	245,631
Maine, Bangor .....	E. H. Gerriah .....	224,000	26	15,993	218,669	8,689	210,000	210,000
Maine, Machias .....	Ellis Hanson .....	30,000	.....	1,000	29,000	100	28,900	28,900
Maine, Mount Kineo .....	O. A. Dennen .....	100,000	16	25	99,959	500	99,459	99,459
Maine, Norway .....	C. M. Smith .....	100,000	16	4,012	95,972	3,200	92,772	91,997
Maine, Rangely .....	F. C. Hewey .....	100,000	67	575	99,358	358	99,000	99,000
Maryland, Baltimore .....	W. H. Jenkins, jr. ....	220,000	60	2,138	217,802	2,564	198,432	198,432
Massachusetts, Winchester .....	E. A. Brackett .....	50,000	254	812	48,934	934	48,000	48,000
Minnesota, Saint Paul .....	S. S. Watkins .....	150,000	68	301	149,541	89,541	60,000	60,000
New Hampshire, Plymouth .....	A. H. Dowers .....	419,500	616	7,533	411,351	10,351	395,000	395,000
New Jersey, Bloomsbury .....	A. A. Anderson .....	130,000	36	381	129,583	940	128,643	128,643
North Carolina, Morganton .....	E. M. Robinson .....	20,000	25	263	19,712	712	19,000	11,000
Pennsylvania, Cory .....	Seth Weeks .....	25,000	10	110	24,880	545	24,335	24,335
Wisconsin, Walworth .....	W. A. Welsber .....	10,000	27	75	8,898	8,898	1,000	1,000
		1,838,500	1,712	33,766	1,801,130	135,311	1,650,072	1,641,397

TABLE IV.—Distribution of Penobscot salmon reared from eggs collected in 1880.

States.	Where finally hatched.	Waters stocked.	Tributaries in which fish were placed.	Locality.	Date of transfer.	Number of fish.
Connecticut .....	Poquonock .....	Connecticut River .....	Farmington River .....	Hartland, Hartford County .....	1881. March 14	40,000
		Do .....	do .....	do .....	March 19	40,000
		Do .....	do .....	do .....	March 21	40,000
		Do .....	do .....	do .....	March 22	40,000
		Do .....	do .....	do .....	April 7	40,000
		Do .....	do .....	do .....	April 21	45,631
Maine .....	Bangor .....	Penobscot River .....	Baskahegan River .....	Danforth, Washington County .....	May 16	28,000
		Do .....	Sandy Brook .....	do .....	May 23	20,000
		Do .....	do .....	do .....	May 24	28,000
		Do .....	Baskahegan River .....	do .....	May 25	28,000
		Do .....	Sandy Brook .....	do .....	May 26	28,000
		Saco River .....	Saco and Ellis Rivers .....	Bartlett, New Hampshire .....	May 27	35,000
		Penobscot River .....	Mattawamkeag River .....	Bancroft .....	May 30	15,000
		Kennebec River .....	Maranscock Lake .....	Rendfield, Kennebec County .....	May 31	8,000
Androscoggin River .....	Lake Auburn .....	Auburn .....	June 1	20,000		



	Machias	Machias River	Great Brook	Whitneyville		2,000
		Do	Dan Hill Brook	do		2,000
		Do	Longfellow Brook	do		7,000
	Mount Kineo	Denny's River		Dennysville		3,900
		Kennebec River	Masterman Brook	Tomhegan Township	June 22	20,000
		Do	Shaw Brook	Day's Academy Grant	July 2	20,000
		Do	Mansell Brook	Somerset County	July 2	10,000
		Do	West Outlet	do	July 2	19,450
		Do	Moosehead Lake	Piscataquis County	July 2	10,000
	Norway	Presumpscot River	Rogers' Brook	Bridgeton, Cumberland County	May 19	9,975
		Do	Carsley and Eddison Brooks	Harrison, Cumberland County	May 20	5,500
		Do	Crooked River	Norway, Oxford County	May 24	23,800
		Do	do	do	May 25	20,000
		Do	do	do	May 26	19,950
		Do	do	do	June 4	6,772
	Rangely	Androscoggin	Rangely Lakes and tributaries	Franklin and Oxford Counties	June 1-10	89,000
Maryland	Baltimore	Octorara River	Octorara River	De Graw's Mill	April 5	10,000
		Elk River	Elk River	Cecil County	April 5	6,432
		Great N. E. Creek	Stone Run	do	April 5	7,000
		Potomac River	Potomac River	Oakland	April 17	20,000
		Do	Conococheague Creek	Hagerstown	April 19	20,000
		Do	Potomac River	Bloomington	April 20	40,000
		Do	do	Sir John's Run	April 26	20,000
Massachusetts	Winchester	Merrimack River	Nashua headwaters		May -	48,000
Minnesota	Saint Paul	Saint Croix River	White Bear Lake	Ramsey County	March 9	10,000
		Prior Lake	Prior Lake	Scott County	March 11	10,000
		Saint Croix River	Forest Lake	Washington County	March 24	10,000
		Cannon River	Lake Kasota	Waterville, Le Sueur County	March 31	10,000
			Lake Elvstan	Janesville, Waukeca County	April 5	10,000
		Mississippi River	Lake Minnetonka	Minneapolis	April 7	10,000
New Hampshire	Plymouth	Merrimack River	Contoocook River	Hillsborough, Hillsborough County	May 3	30,000
		Do	Pennigewasset River	Compton, Grafton County	May 3-31	365,000
New Jersey	Bloomsbury	Delaware River	Delaware River		March 28	30,000
		Do	do	Shoemaker's Eddy, Warren County, between Columbia and Flatbrookville.	March 29	30,000
		Do	do		April 1	30,000
		Do	do		April 2	20,000
		Do	do		April 4	18,643
North Carolina	Morganton	Catawba River	Mill Creek	Old Fort, McDowell County	March 28	5,000
		Do	Linville River	Morganton	March 29	4,000
		Do	do	do	March 30	2,000
Pennsylvania	Corry	Susquehanna River	Towanda Creek	Towanda, Bradford County	April 26	24,335
	Baltimore, Md.	Do	Juniata River	Huntingdon County	April 26	22,000
		Do	Lycoming Creek	Lycoming County	April 28	26,000
		Do	Juniata River	Huntingdon County	April 30	27,000
Wisconsin	Walworth	Illinois River	Geneva Lake	Walworth County		1,000
						1,640,738

