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POST-SEASON POPULATION ESTIMATES OF WILD TROUT
IN EXPERIMENTAL SECTIONS OF THE
PIGEON RIVER, 1949-58

By William C. Latta

Since the establishment of the Pigeon River Trout Research Station in 1949, annual population estimates have been made of trout in the experimental sections of the Pigeon River each fall after the close of the fishing season (second Sunday in September). The original experimental water was comprised of four sections (A, B, C and D) each approximately 1.2 miles long; however, in 1953 a fifth section (E), of about equal length, was added at the upstream end of the experimental area, increasing the length of the experimental area to about 6 miles. All of the annual reports include a more detailed description of the experimental sections (see Latta, 1961, for a complete listing of annual reports). The annual reports also include the annual fall population estimates. In the reports for the years 1949 through 1958, the population size was calculated (by the mark-and-recapture method) for trout of four size categories: (1) 0 to 3.9 inches, (2) 4.0 to 6.9 inches, (3) 7.0 to 9.9 inches, and (4) 10.0 inches and longer, for all species combined and for the entire 6 miles of experimental waters as a unit (or 4.8 miles until

1953). Then, the estimate for each size category was proportioned, on the basis of total number of fish caught in two trips through the experimental water with an electric shocker (one trip to mark, the second, a week later, to recapture), into number of fish in each section of stream, and then further broken down into number of each species and number in each 1-inch group. This method does not make allowance for differences in catchability within each size category, among species, and among different sections, and is therefore less accurate than estimates based on calculations made separately for each 1-inch group of each species for each section^V (the procedure followed for the present report). In each year, there were some 1-inch groups in which few or no fish were taken either in the first or second run with the shocker. These groups were combined with an adjoining 1-inch group. The combined groups were kept as small as possible with the objective of maintaining the relationship between size and catchability and still obtaining a reasonable population estimate. Trout 12 inches long and longer were grouped in the tables but not necessarily so in the estimates.

Errors were found in some of the summaries of the field data for the years 1949-58; these were corrected and all summaries were checked before the estimates were calculated by the new method.

Pounds of trout in the population estimates was computed as the product of number and average weight of fish in each 1-inch group. The

^V Personal communication with Don W. Hayne.

figure on average weight was the unweighted mean of weights at 0.1-inch intervals from length-weight formulae for Pigeon River trout (Cooper and Benson, 1951).

The estimated numbers and weights of trout of different species (brook, brown and rainbow) and lengths in the experimental sections of the Pigeon River in the fall, 1949 through 1958 (after close of the trout fishing season) are given in Tables 1-10. A summary of the fall population estimates, 1949-58, is given in Table 11. These data include only wild trout.

The population estimates presented in this report should replace those given in the annual reports for the years 1949-58. Since 1959, all estimates for the experimental sections of the Pigeon River have been calculated as described here and all analyses and evaluations have used the recalculated data.

Gerald F. Myers, Harold H. Brado and Doyle E. Edson assisted in the long and monotonous chore of checking the summaries of the field data.

Literature cited

Cooper, Edwin L., and Norman G. Benson. 1951. The coefficient of condition of brook, brown and rainbow trout in the Pigeon River, Otsego County, Michigan. *Prog. Fish-Cult.*, 13(4): 181-192.

Latta, William C. 1961. The twelfth annual creel census and progress report, Pigeon River Trout Research Station, 1960. Mich. Inst. Fish. Res., Rept. 1632, unpublished, 43 p.

Report approved by G. P. Cooper

Typed by M. S. McClure

Table 1.--Estimated numbers and weights of trout of different species and lengths in the experimental sections of the Pigeon River in the fall of 1949
(after close of the trout fishing season)

Stream section	Inch groups ¹	Brook trout		Brown trout		Rainbow trout		Total	
		Num- ber	Weight (pounds)	Num- ber	Weight (pounds)	Num- ber	Weight (pounds)	Num- ber	Weight (pounds)
A	1	...	...	...	...	...	...	...	...
	2	7	0.04	10	0.06	...	...	17	0.10
	3	65	0.98	86	1.38	...	...	151	2.36
	4	83	2.66	43	1.46	...	...	126	4.12
	5	83	4.81	...	...	...	...	83	4.81
	6	114	10.94	21	2.06	...	...	135	13.00
	7	20	2.92	27	4.05	6	0.90	53	7.87
	8	4	0.84	22	4.77	...	...	26	5.61
	9	1	0.29	9	2.72	...	...	10	3.01
	10	1	0.39	7	2.85	...	...	8	3.24
	11	...	...	12	6.40	...	...	12	6.40
	12+	...	...	16	15.16	...	...	16	15.16
Total		378	23.87	253	40.91	6	0.90	637	65.68
Pounds per acre			3.33		5.71		0.13		9.17
B	1	...	...	...	...	...	...	...	...
	2	33	0.20	77	0.46	...	...	110	0.66
	3	303	4.54	721	11.54	1	0.02	1,025	16.10
	4	176	5.63	35	1.19	...	...	211	6.82
	5	131	7.60	11	0.66	...	...	142	8.26
	6	241	23.14	65	6.37	...	...	306	29.51
	7	17	2.48	100	15.00	3	0.45	120	17.93
	8	4	0.84	24	5.21	...	...	28	6.05
	9	1	0.29	12	3.62	...	...	13	3.91
	10	...	...	34	13.84	...	...	34	13.84
	11	...	...	7	3.73	...	...	7	3.73
	12+	...	...	14	12.11	...	...	14	12.11
Total		906	44.72	1,100	73.73	4	0.47	2,010	118.92
Pounds per acre			7.58		12.50		0.08		20.16
C	1	...	...	...	...	...	...	...	...
	2	157	0.94	17	0.10	...	...	174	1.04
	3	1,273	19.10	338	5.41	3	0.05	1,614	24.56
	4	221	7.07	33	1.12	...	...	254	8.19
	5	221	12.82	3	0.18	...	...	224	13.00
	6	298	28.61	71	6.96	...	...	369	35.57
	7	63	9.20	102	15.30	...	...	165	24.50
	8	3	0.63	26	5.64	...	...	29	6.27
	9	...	...	6	1.81	...	...	6	1.81
	10	...	...	15	6.10	...	...	15	6.10
	11	...	...	3	1.60	...	...	3	1.60
	12+	...	...	17	14.91	...	...	17	14.91
Total		2,236	78.37	631	59.13	3	0.05	2,870	137.55
Pounds per acre			14.54		10.97		0.01		25.52

(continued)

Table 1.--concluded

Stream section	Inch groups↓	Brook trout		Brown trout		Rainbow trout		Total	
		Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)
D	1	...	...	...	...	...	...	...	...
	2	62	0.37	7	0.04	...	...	69	0.41
	3	970	14.55	66	1.06	...	...	1,036	15.61
	4	309	9.89	13	0.44	...	...	322	10.33
	5	312	18.10	3	0.18	...	...	315	18.28
	6	412	39.55	29	2.84	...	...	441	42.39
	7	144	21.02	73	10.95	1	0.15	218	32.12
	8	32	6.75	24	5.21	...	...	56	11.96
	9	5	1.46	16	4.83	...	...	21	6.29
	10	...	...	15	6.10	...	...	15	6.10
	11	...	...	5	2.66	...	...	5	2.66
	12+	2	1.32	16	15.49	...	...	18	16.81
Total		2,248	113.01	267	49.80	1	0.15	2,516	162.96
Pounds per acre			20.00		8.81		0.03		28.84
All sections	1	...	...	...	...	...	...	...	...
	2	259	1.55	111	0.66	...	...	370	2.21
	3	2,611	39.17	1,211	19.39	4	0.07	3,826	58.63
	4	789	25.25	124	4.21	...	...	913	29.46
	5	747	43.33	17	1.02	...	...	764	44.35
	6	1,065	102.24	186	18.23	...	...	1,251	120.47
	7	244	35.62	302	45.30	10	1.50	556	82.42
	8	43	9.06	96	20.83	...	...	139	29.89
	9	7	2.04	43	12.98	...	...	50	15.02
	10	1	0.39	71	28.89	...	...	72	29.28
	11	...	...	27	14.39	...	...	27	14.39
	12+	2	1.32	63	57.67	...	...	65	58.99
Total		5,768	259.97	2,251	223.57	14	1.57	8,033	485.11
Pounds per acre			8.73		7.51		0.05		16.29

↓ Length groups range from 2.0-2.9 inches, 3.0-3.9, 4.0-4.9 inches, etc.

Table 2.--Estimated numbers and weights of trout of different species and lengths in the experimental sections of the Pigeon River in the fall of 1950
(after close of the trout fishing season)

Stream section	Inch groups ¹	Brook trout		Brown trout		Rainbow trout		Total	
		Num- ber	Weight (pounds)	Num- ber	Weight (pounds)	Num- ber	Weight (pounds)	Num- ber	Weight (pounds)
A	1	...	...	...	...	...	...	...	...
	2	37	0.22	3	0.02	...	...	40	0.24
	3	348	5.22	28	0.45	1	0.02	377	5.69
	4	236	7.55	25	0.85	...	...	261	8.40
	5	84	4.87	...	...	...	...	84	4.87
	6	56	5.38	10	0.98	...	...	66	6.36
	7	56	8.18	40	6.00	...	...	96	14.18
	8	12	2.53	27	5.86	1	0.22	40	8.61
	9	2	0.59	11	3.32	...	...	13	3.91
	10	2	0.79	10	4.07	...	...	12	4.86
	11	...	...	18	9.59	...	...	18	9.59
	12+	...	...	8	7.67	...	...	8	7.67
Total		833	35.33	180	38.81	2	0.24	1,015	74.38
Pounds per acre			4.94		5.42		0.03		10.39
B	1	...	...	...	...	...	...	...	...
	2	60	0.36	63	0.38	...	...	123	0.74
	3	556	8.34	588	9.41	...	...	1,144	17.75
	4	304	9.73	105	3.57	...	...	409	13.30
	5	55	3.19	12	0.72	1	0.06	68	3.97
	6	140	13.44	60	5.88	3	0.29	203	19.61
	7	79	11.53	89	13.35	1	0.15	169	25.03
	8	13	2.74	20	4.34	...	...	33	7.08
	9	2	0.59	10	3.02	...	...	12	3.61
	10	...	...	20	8.14	...	...	20	8.14
	11	...	...	4	2.13	...	...	4	2.13
	12+	...	...	9	8.35	...	...	9	8.35
Total		1,209	49.92	980	59.29	5	0.50	2,194	109.71
Pounds per acre			8.46		10.05		0.08		18.59
C	1	...	...	...	...	...	...	...	...
	2	186	1.12	8	0.05	...	...	194	1.17
	3	1,507	22.60	150	2.40	3	0.05	1,660	25.05
	4	1,079	34.53	90	3.06	...	...	1,169	37.59
	5	190	11.02	8	0.48	...	...	198	11.50
	6	495	47.52	195	19.11	3	0.29	693	66.92
	7	73	10.66	108	16.20	3	0.45	184	27.31
	8	4	0.84	35	7.60	...	...	39	8.44
	9	...	...	4	1.21	...	...	4	1.21
	10	...	...	10	4.07	...	...	10	4.07
	11	...	...	2	1.07	...	...	2	1.07
	12+	...	...	16	14.23	...	...	16	14.23
Total		3,534	128.29	626	69.48	9	0.79	4,169	198.56
Pounds per acre			23.80		12.89		0.15		36.84

(continued)

Table 2.--concluded

Stream section groups ¹	Inch groups	Brook trout		Brown trout		Rainbow trout		Total	
		Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)
D	1	...	...	...	...	...	...	...	...
	2	55	0.33	11	0.07	6	0.04	72	0.44
	3	854	12.81	106	1.70	21	0.34	981	14.85
	4	684	21.89	37	1.26	...	...	721	23.15
	5	570	33.06	7	0.42	...	...	577	33.48
	6	468	44.93	81	7.94	1	0.10	550	52.97
	7	96	14.02	99	14.85	1	0.15	196	29.02
	8	19	4.01	43	9.33	...	...	62	13.34
	9	3	0.88	11	3.32	...	...	14	4.20
	10	...	...	16	6.51	...	...	16	6.51
	11	...	...	3	1.60	...	...	3	1.60
	12+	1	0.66	16	15.49	...	...	17	16.15
Total		2,750	132.59	430	62.49	29	0.63	3,209	195.71
Pounds per acre			23.47		11.06		0.11		34.64
All sections	1	...	...	...	...	...	...	...	...
	2	338	2.03	85	0.52	6	0.04	429	2.59
	3	3,265	48.97	872	13.96	25	0.41	4,162	63.34
	4	2,303	73.70	257	8.74	...	...	2,560	82.44
	5	899	52.14	27	1.62	1	0.06	927	53.82
	6	1,159	111.27	346	33.91	7	0.68	1,512	145.86
	7	304	44.39	336	50.40	5	0.75	645	95.54
	8	48	10.12	125	27.13	1	0.22	174	37.47
	9	7	2.06	36	10.87	...	...	43	12.93
	10	2	0.79	56	22.79	...	...	58	23.58
	11	...	...	27	14.39	...	...	27	14.39
	12+	1	0.66	49	45.74	...	...	50	46.40
Total		8,326	346.13	2,216	230.07	45	2.16	10,587	578.36
Pounds per acre			11.63		7.73		0.07		19.43

¹ Length groups range from 2.0-2.9 inches, 3.0-3.9, 4.0-4.9 inches, etc.

Table 3.--Estimated numbers and weights of trout of different species and lengths in the experimental sections of the Pigeon River in the fall of 1951
(after close of the trout fishing season)

Stream section	Inch groups↓	Brook trout		Brown trout		Rainbow trout		Total	
		Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)
A	1	...	...	...	...	...	...	...	...
	2	20	0.12	...	...	3	0.02	23	0.14
	3	468	7.02	189	3.02	11	0.18	668	10.22
	4	285	9.12	175	5.95	...	...	460	15.07
	5	18	1.04	2	0.12	...	...	20	1.16
	6	56	5.38	18	1.76	...	...	74	7.14
	7	84	12.26	30	4.50	8	1.20	122	17.96
	8	55	11.60	32	6.94	4	0.87	91	19.41
	9	6	1.76	10	3.02	1	0.30	17	5.08
	10	3	1.18	3	1.22	...	...	6	2.40
	11	3	1.54	4	2.13	...	...	7	3.67
	12+	...	...	1	1.06	1	0.68	2	1.74
Total		998	51.02	464	29.72	28	3.25	1,490	83.99
Pounds per acre			7.13		4.15		0.45		11.73
B	1	...	...	...	...	...	...	...	...
	2	210	1.26	7	0.04	9	0.05	226	1.35
	3	1,090	16.35	161	2.58	125	2.00	1,376	20.93
	4	393	12.58	242	8.23	...	...	635	20.81
	5	82	4.76	2	0.12	...	...	84	4.88
	6	102	9.79	54	5.29	1	0.10	157	15.18
	7	51	7.45	107	16.05	3	0.45	161	23.95
	8	4	0.84	57	12.37	1	0.22	62	13.43
	9	2	0.59	16	4.83	...	...	18	5.42
	10	...	...	5	2.04	...	...	5	2.04
	11	...	...	9	4.80	...	...	9	4.80
	12+	...	...	12	11.43	...	...	12	11.43
Total		1,934	53.62	672	67.78	139	2.82	2,745	124.22
Pounds per acre			9.09		11.49		0.48		21.06
C	1	...	...	...	...	...	...	...	...
	2	326	1.96	3	0.02	...	...	329	1.98
	3	2,197	32.96	181	2.90	...	...	2,378	35.86
	4	492	15.74	46	1.56	...	...	538	17.30
	5	105	6.09	6	0.36	2	0.12	113	6.57
	6	264	25.34	65	6.37	9	0.88	338	32.59
	7	134	19.56	139	20.85	25	3.75	298	44.16
	8	22	4.64	84	18.23	2	0.43	108	23.30
	9	4	1.17	43	12.99	...	...	47	14.16
	10	4	1.58	12	4.88	...	...	16	6.46
	11	2	1.03	9	4.80	...	...	11	5.83
	12+	...	...	12	12.46	...	...	12	12.46
Total		3,550	110.07	600	85.42	38	5.18	4,188	200.67
Pounds per acre			20.42		15.85		0.96		37.23

(continued)

Table 3.--concluded

Stream section	Inch groups ¹	Brook trout		Brown trout		Rainbow trout		Total	
		Num- ber	Weight (pounds)	Num- ber	Weight (pounds)	Num- ber	Weight (pounds)	Num- ber	Weight (pounds)
D	1	...	...	...	...	...	...	...	...
	2	370	2.22	5	0.03	...	...	375	2.25
	3	3,088	46.32	90	1.44	...	...	3,178	47.76
	4	641	20.51	42	1.43	...	...	683	21.94
	5	500	29.00	5	0.30	8	0.48	513	29.78
	6	559	53.66	75	7.35	89	8.72	723	69.73
	7	313	45.70	184	27.60	70	10.50	567	83.80
	8	107	22.58	66	14.32	3	0.65	176	37.55
	9	30	8.79	19	5.74	2	0.60	51	15.13
	10	6	2.36	35	14.24	...	...	41	16.60
	11	4	2.06	12	6.40	...	...	16	8.46
	12+	4	3.89	30	24.38	...	...	34	28.27
Total		5,622	237.09	563	103.23	172	20.95	6,357	361.27
Pounds per acre			41.96		18.27		3.71		63.94
All sections	1	...	...	...	...	...	...	...	...
	2	926	5.56	15	0.09	12	0.07	953	5.72
	3	6,843	102.65	621	9.94	136	2.18	7,600	114.77
	4	1,811	57.95	505	17.17	...	...	2,316	75.12
	5	705	40.89	15	0.90	10	0.60	730	42.39
	6	981	94.17	212	20.77	99	9.70	1,292	124.64
	7	582	84.97	460	69.00	106	15.90	1,148	169.87
	8	188	39.66	239	51.86	10	2.17	437	93.69
	9	42	12.31	88	26.58	3	0.90	133	39.79
	10	13	5.12	55	22.38	...	...	68	27.50
	11	9	4.63	34	18.13	...	...	43	22.76
	12+	4	3.89	55	49.33	1	0.68	60	53.90
Total		12,104	451.80	2,299	286.15	377	32.20	14,780	770.15
Pounds per acre			15.18		9.61		1.08		25.87

¹ Length groups range from 2.0-2.9 inches, 3.0-3.9, 4.0-4.9 inches, etc.

Table 4.--Estimated numbers and weights of trout of different species and lengths in the experimental sections of the Pigeon River in the fall of 1952
(after close of the trout fishing season)

Stream section	Inch groups ¹	Brook trout		Brown trout		Rainbow trout		Total	
		Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)
A	1	...	...	...	...	...	...	...	...
	2	167	1.00	7	0.04	2	0.01	176	1.05
	3	679	10.18	148	2.37	1	0.02	828	12.57
	4	315	10.08	91	3.09	4	0.14	410	13.31
	5	28	1.62	11	0.66	...	...	39	2.28
	6	96	9.22	9	0.88	1	0.10	106	10.20
	7	49	7.15	42	6.30	10	1.50	101	14.95
	8	18	3.80	28	6.08	4	0.87	50	10.75
	9	4	1.17	7	2.11	...	...	11	3.28
	10	2	0.79	2	0.81	1	0.41	5	2.01
	11	1	0.52	1	0.53	...	...	2	1.05
	12+	2	1.68	19	16.33	...	...	21	18.01
Total		1,361	47.21	365	39.20	23	3.05	1,749	89.46
Pounds per acre			6.59		5.47		0.43		12.49
B	1	...	...	...	...	...	...	...	...
	2	636	3.82	126	0.76	5	0.03	767	4.61
	3	1,624	24.36	547	8.75	156	2.50	2,327	35.61
	4	333	10.66	291	9.89	117	3.98	741	24.53
	5	60	3.48	6	0.36	1	0.06	67	3.90
	6	106	10.18	12	1.18	4	0.39	122	11.75
	7	30	4.38	91	13.65	4	0.60	125	18.63
	8	2	0.42	37	8.03	1	0.22	40	8.67
	9	...	...	18	5.44	...	...	18	5.44
	10	...	...	9	3.66	...	...	9	3.66
	11	...	...	6	3.20	...	...	6	3.20
	12+	1	1.02	41	38.87	...	...	42	39.89
Total		2,792	58.32	1,184	93.79	288	7.78	4,264	159.89
Pounds per acre			9.88		15.90		1.32		27.10
C	1	...	...	...	...	...	...	...	...
	2	666	4.00	105	0.63	78	0.47	849	5.10
	3	2,493	37.40	425	6.80	17	0.27	2,935	44.47
	4	631	20.19	339	11.53	10	0.34	980	32.06
	5	175	10.15	7	0.42	...	...	182	10.57
	6	299	28.70	14	1.37	...	...	313	30.07
	7	132	19.27	54	8.10	2	0.30	188	27.67
	8	38	8.02	54	11.72	1	0.22	93	19.96
	9	18	5.27	10	3.02	...	...	28	8.29
	10	4	1.58	30	12.21	...	...	34	13.79
	11	2	1.03	9	4.80	...	...	11	5.83
	12+	2	1.32	23	26.13	...	...	25	27.45
Total		4,460	136.93	1,070	86.73	108	1.60	5,638	225.26
Pounds per acre			25.40		16.09		0.30		41.79

(continued)

Table 4.--concluded

Stream section	Inch groups ¹	Brook trout		Brown trout		Rainbow trout		Total	
		Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)
D	1	...	...	...	...	...	...	...	...
	2	1,089	6.53	29	0.17	4	0.02	1,122	6.72
	3	2,856	42.84	470	7.52	72	1.15	3,398	51.51
	4	551	17.63	270	9.18	...	...	821	26.81
	5	254	14.73	3	0.18	...	...	257	14.91
	6	336	32.26	8	0.78	...	...	344	33.04
	7	178	25.99	43	6.45	1	0.15	222	32.59
	8	22	4.64	40	8.68	...	...	62	13.32
	9	20	5.86	10	3.02	2	0.60	32	9.48
	10	15	5.91	8	3.26	...	...	23	9.17
	11	15	7.72	10	5.33	1	0.53	26	13.58
	12+	...	...	40	44.09	...	...	40	44.09
Total		5,336	164.11	931	88.66	80	2.45	6,347	255.22
Pounds per acre			29.05		15.69		0.43		45.17
All sections	1	...	...	...	...	...	...	...	...
	2	2,558	15.35	267	1.60	89	0.53	2,914	17.48
	3	7,652	114.78	1,590	25.44	246	3.94	9,488	144.16
	4	1,830	58.56	991	33.69	131	4.46	2,952	96.71
	5	517	29.98	27	1.62	1	0.06	545	31.66
	6	837	80.36	43	4.21	5	0.49	885	85.06
	7	389	56.79	230	34.50	17	2.55	636	93.84
	8	80	16.88	159	34.51	6	1.31	245	52.70
	9	42	12.30	45	13.59	2	0.60	89	26.49
	10	21	8.28	49	19.94	1	0.41	71	28.63
	11	18	9.27	26	13.86	1	0.53	45	23.66
	12+	5	4.02	123	125.42	...	...	128	129.44
Total		13,949	406.57	3,550	308.38	499	14.88	17,998	729.83
Pounds per acre			13.66		10.36		0.50		24.52

¹ Length groups range from 2.0-2.9 inches, 3.0-3.9, 4.0-4.9 inches, etc.

Table 5.--Estimated numbers and weights of trout of different species and lengths in the experimental sections of the Pigeon River in the fall of 1953
(after close of the trout fishing season)

Stream section	Inch groups ¹	Brook trout		Brown trout		Rainbow trout		Total	
		Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)
A	1	...	...	...	...	...	...	...	...
	2	410	2.46	35	0.21	5	0.03	450	2.70
	3	538	8.07	173	2.77	2	0.03	713	10.87
	4	108	3.46	72	2.45	...	...	180	5.91
	5	292	16.94	10	0.60	...	...	302	17.54
	6	196	18.82	38	3.72	2	0.20	236	22.74
	7	63	9.20	68	10.20	4	0.60	135	20.00
	8	18	3.80	30	6.51	2	0.43	50	10.74
	9	6	1.76	8	2.42	...	...	14	4.18
	10	6	2.36	7	2.85	...	...	13	5.21
	11	1	0.52	11	5.86	...	...	12	6.38
	12+	5	3.30	19	22.55	...	...	24	25.85
Total		1,643	70.69	471	60.14	15	1.29	2,129	132.12
Pounds per acre			9.87		8.40		0.18		18.45
B	1	...	...	...	...	...	...	...	...
	2	1,132	6.79	24	0.14	8	0.05	1,164	6.98
	3	911	13.66	236	3.78	9	0.14	1,156	17.58
	4	172	5.50	76	2.58	...	...	248	8.08
	5	305	17.69	55	3.30	1	0.06	361	21.05
	6	209	20.06	117	11.47	5	0.49	331	32.02
	7	41	5.99	105	15.75	10	1.50	156	23.24
	8	10	2.11	54	11.72	3	0.65	67	14.48
	9	4	1.17	10	3.02	1	0.30	15	4.49
	10	...	...	8	3.26	1	0.41	9	3.67
	11	3	1.54	18	9.59	...	...	21	11.13
	12+	2	1.68	32	37.97	...	...	34	39.65
Total		2,789	76.19	735	102.58	38	3.60	3,562	182.37
Pounds per acre			12.91		17.39		0.61		30.91
C	1	...	...	...	...	...	...	...	...
	2	576	3.46	10	0.06	2	0.01	588	3.53
	3	1,794	26.91	213	3.41	8	0.13	2,015	30.44
	4	261	8.35	370	12.58	...	...	631	20.93
	5	650	37.70	5	0.30	1	0.06	656	38.06
	6	478	45.89	89	8.72	21	2.06	588	56.67
	7	109	15.91	221	33.15	18	2.70	348	51.76
	8	24	5.06	90	19.53	12	2.60	126	27.19
	9	27	7.91	22	6.64	2	0.60	51	15.15
	10	10	3.94	22	8.95	2	0.81	34	13.70
	11	2	1.03	18	9.59	...	...	20	10.62
	12+	8	5.78	41	45.50	...	...	49	51.28
Total		3,939	161.94	1,101	148.43	66	8.97	5,106	319.34
Pounds per acre			30.05		27.54		1.66		59.25

(continued)

Table 5.--concluded

Stream section	Inch groups ¹	Brook trout		Brown trout		Rainbow trout		Total	
		Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)
D	1	...	...	...	...	...	...	...	...
	2	822	4.93	6	0.04	1	0.01	829	4.98
	3	1,455	21.82	42	0.67	2	0.03	1,499	22.52
	4	431	13.79	24	0.82	...	...	455	14.61
	5	652	37.82	4	0.24	...	...	656	38.06
	6	413	39.65	67	6.57	10	0.98	490	47.20
	7	119	17.37	157	23.55	16	2.40	292	43.32
	8	34	7.17	89	19.31	2	0.43	125	26.91
	9	10	2.93	24	7.25	2	0.60	36	10.78
	10	2	0.79	10	4.07	1	0.41	13	5.27
	11	8	4.12	12	6.40	...	...	20	10.52
	12+	4	2.80	41	65.52	...	...	45	68.32
Total		3,950	153.19	476	134.44	34	4.86	4,460	292.49
Pounds per acre			27.11		23.80		0.86		51.77
E	1	...	...	...	...	...	...	...	...
	2	538	3.23	1	0.01	...	...	539	3.24
	3	1,165	17.48	43	0.69	...	...	1,208	18.17
	4	335	10.72	52	1.77	...	...	387	12.49
	5	679	39.38	4	0.24	1	0.06	684	39.68
	6	466	44.74	32	3.14	4	0.39	502	48.27
	7	81	11.83	176	26.40	8	1.20	265	39.43
	8	19	4.01	89	19.31	1	0.22	109	23.54
	9	6	1.76	16	4.83	...	...	22	6.59
	10	4	1.58	3	1.22	...	...	7	2.80
	11	...	...	3	1.60	...	...	3	1.60
	12+	1	0.66	33	51.59	...	...	34	52.25
Total		3,294	135.39	452	110.80	14	1.87	3,760	248.06
Pounds per acre			23.88		19.54		0.33		43.75
All sections	1	...	...	...	...	...	...	...	...
	2	3,478	20.87	76	0.46	16	0.10	3,570	21.43
	3	5,863	87.94	707	11.32	21	0.33	6,591	99.59
	4	1,307	41.82	594	20.20	...	...	1,901	62.02
	5	2,578	149.53	78	4.68	3	0.18	2,659	154.39
	6	1,762	169.16	343	33.62	42	4.12	2,147	206.90
	7	413	60.30	727	109.05	56	8.40	1,196	177.75
	8	105	22.15	352	76.38	20	4.33	477	102.86
	9	53	15.53	80	24.16	5	1.50	138	41.19
	10	22	8.67	50	20.35	4	1.63	76	30.65
	11	14	7.21	62	33.04	...	...	76	40.25
	12+	20	14.22	166	223.13	...	...	186	237.35
Total		15,615	597.40	3,235	556.39	167	20.59	19,017	1,174.38
Pounds per acre			20.07		18.69		0.69		39.45

¹ Length groups range from 2.0-2.9 inches, 3.0-3.9, 4.0-4.9 inches, etc.

Table 6.--Estimated numbers and weights of trout of different species and lengths in the experimental sections of the Pigeon River in the fall of 1954
(after close of the trout fishing season)

Stream section	Inch groups ¹	Brook trout		Brown trout		Rainbow trout		Total	
		Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)
A	1	7	0.01	...	...	...	...	7	0.01
	2	675	4.05	14	0.08	3	0.02	692	4.15
	3	919	13.78	250	4.00	...	...	1,169	17.78
	4	116	3.71	26	0.88	...	...	142	4.59
	5	165	9.57	3	0.18	...	...	168	9.75
	6	320	30.72	33	3.23	3	0.29	356	34.24
	7	48	7.01	86	12.90	1	0.15	135	20.06
	8	16	3.38	22	4.77	...	...	38	8.15
	9	10	2.93	10	3.02	...	...	20	5.95
	10	6	2.36	8	3.26	...	...	14	5.62
	11	3	1.54	...	...	...	...	3	1.54
	12+	...	...	16	14.14	...	...	16	14.14
Total		2,285	79.06	468	46.46	7	0.46	2,760	125.98
Pounds per acre		11.04		6.49		0.06		17.59	
B	1	...	...	...	...	...	...	...	...
	2	814	4.88	18	0.11	18	0.11	850	5.10
	3	1,539	23.08	324	5.18	12	0.19	1,875	28.45
	4	326	10.43	96	3.26	1	0.03	423	13.72
	5	346	20.07	4	0.24	3	0.18	353	20.49
	6	228	21.89	46	4.51	13	1.27	287	27.67
	7	76	11.10	50	7.50	2	0.30	128	18.90
	8	10	2.11	76	16.49	2	0.43	88	19.03
	9	4	1.17	20	6.04	...	...	24	7.21
	10	4	1.58	16	6.51	...	...	20	8.09
	11	...	...	50	26.65	...	...	50	26.65
	12+	...	...	25	31.95	...	...	25	31.95
Total		3,347	96.31	725	108.44	51	2.51	4,123	207.26
Pounds per acre		16.32		18.38		0.43		35.13	
C	1	...	...	...	...	...	...	...	...
	2	341	2.05	20	0.12	1	0.01	362	2.18
	3	2,102	31.53	275	4.40	6	0.10	2,383	36.03
	4	623	19.94	280	9.52	...	...	903	29.46
	5	336	19.49	2	0.12	...	...	338	19.61
	6	343	32.93	7	0.69	3	0.29	353	33.91
	7	175	25.55	110	16.50	4	0.60	289	42.65
	8	49	10.34	51	11.07	2	0.43	102	21.84
	9	9	2.64	36	10.87	1	0.30	46	13.81
	10	5	1.97	57	23.20	...	...	62	25.17
	11	1	0.52	32	17.06	1	0.53	34	18.11
	12+	1	0.66	51	52.81	...	...	52	53.47
Total		3,985	147.62	921	146.36	18	2.26	4,924	296.24
Pounds per acre		27.39		27.15		0.42		54.96	

(continued)

Table 6.--concluded

Stream section	Inch groups ¹	Brook trout		Brown trout		Rainbow trout		Total	
		Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)
D	1	...	...	...	...	...	...	...	...
	2	763	4.58	4	0.02	...	...	767	4.60
	3	2,082	31.23	190	3.04	...	...	2,272	34.27
	4	590	18.88	112	3.81	...	...	702	22.69
	5	524	30.39	3	0.18	1	0.06	528	30.63
	6	367	35.23	4	0.39	...	...	371	35.62
	7	168	24.53	31	4.65	3	0.45	202	29.63
	8	49	10.34	20	4.34	3	0.65	72	15.33
	9	30	8.79	20	6.04	...	...	50	14.83
	10	4	1.58	10	4.07	1	0.41	15	6.06
	11	3	1.54	33	17.59	...	...	36	19.13
	12+	3	2.49	60	84.93	...	...	63	87.42
Total		4,583	169.58	487	129.06	8	1.57	5,078	300.21
Pounds per acre			30.01		22.84		0.28		53.13
E	1	...	...	...	...	...	...	...	...
	2	605	3.63	6	0.04	...	...	611	3.67
	3	2,247	33.70	179	2.86	...	...	2,426	36.56
	4	708	22.66	241	8.19	...	...	949	30.85
	5	344	19.95	8	0.48	...	...	352	20.43
	6	447	42.91	...	...	...	...	447	42.91
	7	98	14.31	27	4.05	1	0.15	126	18.51
	8	14	2.95	22	4.77	...	...	36	7.72
	9	6	1.76	8	2.42	...	...	14	4.18
	10	2	0.79	6	2.44	...	...	8	3.23
	11	...	...	16	8.53	...	...	16	8.53
	12+	...	...	21	25.41	...	...	21	25.41
Total		4,471	142.66	534	59.19	1	0.15	5,006	202.00
Pounds per acre			25.16		10.44		0.03		35.63
All sections	1	7	0.01	...	...	...	...	7	0.01
	2	3,198	19.19	62	0.37	22	0.14	3,282	19.70
	3	8,889	133.32	1,218	19.48	18	0.29	10,125	153.09
	4	2,363	75.62	755	25.66	1	0.03	3,119	101.31
	5	1,715	99.47	20	1.20	4	0.09	1,739	100.91
	6	1,705	163.68	90	8.82	19	1.85	1,814	174.35
	7	565	82.50	304	45.60	11	1.65	880	129.75
	8	138	29.12	191	41.44	7	1.51	336	72.07
	9	59	17.29	94	28.39	1	0.30	154	45.98
	10	21	8.28	97	39.48	1	0.41	119	48.17
	11	7	3.60	131	69.83	1	0.53	139	73.96
	12+	4	3.15	173	209.24	...	...	177	212.39
Total		18,671	635.23	3,135	489.51	85	6.95	21,891	1,131.69
Pounds per acre			21.34		16.44		0.23		38.01

¹Length groups range from 2.0-2.9 inches, 3.0-3.9, 4.0-4.9 inches, etc.

Table 7.--Estimated numbers and weights of trout of different species and lengths in the experimental sections of the Pigeon River in the fall of 1955
(after close of the trout fishing season)

Stream section	Inch groups↓	Brook trout		Brown trout		Rainbow trout		Total	
		Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)
A	1	...	...	...	...	...	...	...	...
	2	313	1.88	45	0.27	2	0.01	360	2.16
	3	202	3.03	380	6.08	2	0.03	584	9.14
	4	56	1.79	60	2.04	1	0.03	117	3.86
	5	203	11.77	20	1.20	...	...	223	12.97
	6	175	16.80	43	4.21	3	0.29	221	21.30
	7	24	3.50	46	6.90	4	0.60	74	11.00
	8	17	3.59	21	4.56	...	...	38	8.15
	9	5	1.46	7	2.11	...	...	12	3.57
	10	7	2.76	6	2.44	1	0.41	14	5.61
	11	1	0.52	10	5.33	...	...	11	5.85
	12+	...	...	27	25.78	...	...	27	25.78
Total		1,003	47.10	665	60.92	13	1.37	1,681	109.39
Pounds per acre			6.58		8.51		0.19		15.28
B	1	2	T	...	...	...	...	2	T
	2	486	2.92	49	0.29	3	0.02	538	3.23
	3	258	3.87	505	8.08	2	0.03	765	11.98
	4	53	1.70	79	2.69	...	...	132	4.39
	5	168	9.74	14	0.84	1	0.06	183	10.64
	6	106	10.18	151	14.80	3	0.29	260	25.27
	7	56	8.18	91	13.65	...	...	147	21.83
	8	8	1.69	33	7.16	...	...	41	8.85
	9	1	0.29	11	3.32	...	...	12	3.61
	10	1	0.39	42	17.09	...	...	43	17.48
	11	...	...	12	6.40	...	...	12	6.40
	12+	...	...	17	16.05	...	...	17	16.05
Total		1,139	38.96	1,004	90.37	9	0.40	2,152	129.73
Pounds per acre			6.60		15.32		0.07		21.99
C	1	2	T	...	...	...	...	2	T
	2	871	5.23	55	0.33	4	0.02	930	5.58
	3	707	10.60	571	9.14	24	0.38	1,302	20.12
	4	83	2.66	253	8.60	1	0.03	337	11.29
	5	345	20.01	10	0.60	...	...	355	20.61
	6	176	16.90	126	12.35	2	0.20	304	29.45
	7	32	4.67	110	16.50	5	0.75	147	21.92
	8	29	6.12	51	11.07	...	...	80	17.19
	9	4	1.17	7	2.11	...	...	11	3.28
	10	2	0.79	14	5.70	1	0.41	17	6.90
	11	1	0.52	13	6.93	...	...	14	7.45
	12+	...	...	43	48.64	...	...	43	48.64
Total		2,252	68.67	1,253	121.97	37	1.79	3,542	192.43
Pounds per acre			12.74		22.63		0.33		35.70

(continued)

Table 7.--concluded

Stream section	Inch groups↓	Brook trout		Brown trout		Rainbow trout		Total	
		Num- ber	Weight (pounds)	Num- ber	Weight (pounds)	Num- ber	Weight (pounds)	Num- ber	Weight (pounds)
D	1	4	0.01	...	...	...	...	4	0.01
	2	884	5.30	9	0.05	2	0.01	895	5.36
	3	582	8.73	105	1.68	7	0.11	694	10.52
	4	196	6.27	61	2.07	1	0.03	258	8.37
	5	390	22.62	2	0.12	...	...	392	22.74
	6	300	28.80	36	3.53	...	...	336	32.33
	7	69	10.07	150	22.50	1	0.15	220	32.72
	8	31	6.54	64	13.89	1	0.22	96	20.65
	9	14	4.10	3	0.91	...	...	17	5.01
	10	4	1.58	2	0.81	...	...	6	2.39
	11	1	0.52	10	5.33	...	...	11	5.85
	12+	1	0.66	33	31.39	...	...	34	32.05
Total		2,476	95.20	475	82.28	12	0.52	2,963	178.00
Pounds per acre			16.85		14.56		0.09		31.50
E	1	...	...	...	...	...	...	...	...
	2	648	3.89	15	0.09	...	...	663	3.98
	3	535	8.02	328	5.25	2	0.03	865	13.30
	4	98	3.14	46	1.56	...	...	144	4.70
	5	492	28.54	3	0.18	2	0.12	497	28.84
	6	369	35.42	26	2.55	7	0.69	402	38.66
	7	61	8.91	115	17.25	1	0.15	177	26.31
	8	14	2.95	49	10.63	...	...	63	13.58
	9	12	3.52	12	3.62	...	...	24	7.14
	10	2	0.79	5	2.04	...	...	7	2.83
	11	2	1.03	5	2.66	...	...	7	3.69
	12+	...	...	20	20.82	...	...	20	20.82
Total		2,233	96.21	624	66.65	12	0.99	2,869	163.85
Pounds per acre			16.97		11.76		0.17		28.90
All sections	1	8	0.01	...	...	...	...	8	0.01
	2	3,202	19.22	173	1.03	11	0.06	3,386	20.31
	3	2,284	34.25	1,889	30.23	37	0.58	4,210	65.06
	4	486	15.56	499	16.96	3	0.09	988	32.61
	5	1,598	92.68	49	2.94	3	0.18	1,650	95.80
	6	1,126	108.10	382	37.44	15	1.47	1,523	147.01
	7	242	35.33	512	76.80	11	1.65	765	113.78
	8	99	20.89	218	47.31	1	0.22	318	68.42
	9	36	10.54	40	12.07	...	...	76	22.61
	10	16	6.31	69	28.08	2	0.82	87	35.21
	11	5	2.59	50	26.65	...	...	55	29.24
	12+	1	0.66	240	142.68	...	...	241	143.34
Total		9,103	346.14	4,021	422.19	83	5.07	13,207	773.40
Pounds per acre			11.63		14.18		0.17		25.98

↓ Length groups range from 2.0-2.9 inches, 3.0-3.9, 4.0-4.9 inches, etc.

Table 8.--Estimated numbers and weights of trout of different species and lengths in the experimental sections of the Pigeon River in the fall of 1956
(after close of the trout fishing season)

Stream section	Inch groups ¹	Brook trout		Brown trout		Rainbow trout		Total	
		Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)
A	1	...	...	...	...	...	...	...	...
	2	78	0.47	19	0.11	1	0.01	98	0.59
	3	246	3.69	223	3.57	3	0.05	472	7.31
	4	51	1.63	15	0.51	...	...	66	2.14
	5	62	3.60	3	0.18	...	...	65	3.78
	6	58	5.57	15	1.47	...	...	73	7.04
	7	15	2.19	14	2.10	1	0.15	30	4.44
	8	3	0.63	10	2.17	...	...	13	2.80
	9	...	...	3	0.91	...	...	3	0.91
	10	...	...	6	2.44	...	...	6	2.44
	11	...	...	5	2.66	...	...	5	2.66
	12+	4	2.81	11	15.38	...	...	15	18.19
Total		517	20.59	324	31.50	5	0.21	846	52.30
Pounds per acre			2.88		4.40		0.03		7.31
B	1	2	T	...	...	...	...	2	T
	2	178	1.07	43	0.26	2	0.01	223	1.34
	3	415	6.22	307	4.91	42	0.67	764	11.80
	4	124	3.97	31	1.05	1	0.03	156	5.05
	5	51	2.96	1	0.06	...	...	52	3.02
	6	104	9.98	15	1.47	...	...	119	11.45
	7	22	3.21	38	5.70	...	...	60	8.91
	8	2	0.42	30	6.51	...	...	32	6.93
	9	6	1.76	2	0.60	...	...	8	2.36
	10	...	...	2	0.81	...	...	2	0.81
	11	...	...	4	2.13	...	...	4	2.13
	12+	...	...	20	33.36	...	...	20	33.36
Total		904	29.59	493	56.86	45	0.71	1,442	87.16
Pounds per acre			5.02		9.64		0.12		14.78
C	1	...	...	...	...	...	...	...	...
	2	249	1.49	40	0.24	2	0.01	291	1.74
	3	1,026	15.39	218	3.49	53	0.85	1,297	19.73
	4	273	8.74	72	2.45	...	...	345	11.19
	5	133	7.71	2	0.12	...	...	135	7.83
	6	112	10.75	25	2.45	1	0.10	138	13.30
	7	50	7.30	62	9.30	8	1.20	120	17.80
	8	11	2.32	21	4.56	2	0.43	34	7.31
	9	6	1.76	6	1.81	...	...	12	3.57
	10	...	...	5	2.04	...	...	5	2.04
	11	...	...	9	4.80	...	...	9	4.80
	12+	1	0.66	17	23.13	...	...	18	23.79
Total		1,861	56.12	477	54.39	66	2.59	2,404	113.10
Pounds per acre			10.41		10.09		0.48		20.98

(continued)

Table 8.--concluded

Stream section	Inch groups↓	Brook trout		Brown trout		Rainbow trout		Total	
		Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)
D	1	...	...	...	...	...	...	...	...
	2	714	4.28	3	0.02	2	0.01	719	4.31
	3	1,538	23.07	69	1.10	26	0.42	1,633	24.59
	4	192	6.14	7	0.24	1	0.03	200	6.41
	5	202	11.72	2	0.12	...	...	204	11.84
	6	200	19.20	36	3.53	...	...	236	22.73
	7	57	8.32	105	15.75	2	0.30	164	24.37
	8	8	1.69	35	7.60	1	0.22	44	9.51
	9	3	0.88	1	0.30	...	...	4	1.18
	10	...	...	4	1.63	...	...	4	1.63
	11	...	...	8	4.26	...	...	8	4.26
	12+	1	0.83	28	28.33	...	...	29	29.16
Total		2,915	76.13	298	62.88	32	0.98	3,245	139.99
Pounds per acre			13.48		11.13		0.17		24.78
E	1	4	0.01	...	...	...	...	4	0.01
	2	1,200	7.20	4	0.02	...	...	1,204	7.22
	3	1,403	21.04	8	0.13	...	...	1,411	21.17
	4	215	6.88	6	0.20	...	...	221	7.08
	5	241	13.98	14	0.84	...	...	255	14.82
	6	221	21.22	34	3.33	...	...	255	24.55
	7	41	5.99	103	15.45	...	...	144	21.44
	8	14	2.95	26	5.64	...	...	40	8.59
	9	10	2.93	1	0.30	...	...	11	3.23
	10	3	1.18	1	0.41	...	...	4	1.59
	11	2	1.03	8	4.26	...	...	10	5.29
	12+	2	1.66	11	15.47	...	...	13	17.13
Total		3,356	86.07	216	46.05	...	...	3,572	132.12
Pounds per acre			15.18		8.12	...	...		23.30
All sections	1	6	0.01	...	...	...	...	6	0.01
	2	2,419	14.51	109	0.65	7	0.04	2,535	15.20
	3	4,628	69.41	825	13.20	124	1.99	5,577	84.60
	4	855	27.36	131	4.45	2	0.06	988	31.87
	5	689	39.97	22	1.32	...	...	711	41.29
	6	695	66.72	125	12.25	1	0.10	821	79.07
	7	185	27.01	322	48.30	11	1.65	518	76.96
	8	38	8.01	122	26.48	3	0.65	163	35.14
	9	25	7.33	13	3.92	...	...	38	11.25
	10	3	1.18	18	7.33	...	...	21	8.51
	11	2	1.03	34	18.11	...	...	36	19.14
	12+	8	5.96	87	115.67	...	...	95	121.63
Total		9,553	268.50	1,808	251.68	148	4.49	11,509	524.67
Pounds per acre			9.02		8.45		0.15		17.62

↓ Length groups range from 2.0-2.9 inches, 3.0-3.9, 4.0-4.9 inches, etc.

Table 9.--Estimated numbers and weights of trout of different species and lengths in the experimental sections of the Pigeon River in the fall of 1957
(after close of the trout fishing season)

Stream section	Inch groups ¹	Brook trout		Brown trout		Rainbow trout		Total	
		Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)
A	1	...	...	...	...	...	...	...	...
	2	252	1.51	90	0.54	...	...	342	2.05
	3	277	4.16	373	5.97	1	0.02	651	10.15
	4	104	3.33	50	1.70	...	...	154	5.03
	5	4	0.23	...	...	...	...	4	0.23
	6	35	3.36	12	1.18	1	0.10	48	4.64
	7	34	4.96	24	3.60	2	0.30	60	8.86
	8	14	2.95	32	6.94	4	0.87	50	10.76
	9	2	0.59	15	4.53	1	0.30	18	5.42
	10	...	...	2	0.81	...	...	2	0.81
	11	...	...	10	5.33	...	...	10	5.33
	12+	...	...	24	30.08	...	...	24	30.08
Total		722	21.09	632	60.68	9	1.59	1,363	83.36
Pounds per acre			2.95		8.47		0.22		11.64
B	1	...	...	...	...	...	...	...	...
	2	238	1.43	324	1.94	...	...	562	3.37
	3	476	7.14	543	8.69	1	0.02	1,020	15.85
	4	161	5.15	48	1.63	...	...	209	6.78
	5	10	0.38	...	...	...	...	10	0.38
	6	48	4.61	14	1.37	1	0.10	63	6.08
	7	28	4.09	34	5.10	2	0.30	64	9.49
	8	2	0.42	20	4.34	...	...	22	4.76
	9	...	...	2	0.60	1	0.30	3	0.90
	10	...	...	2	0.81	...	...	2	0.81
	11	...	...	8	4.26	...	...	8	4.26
	12+	4	2.81	14	19.12	...	...	18	21.93
Total		967	26.03	1,009	47.86	5	0.72	1,981	74.61
Pounds per acre			4.41		8.11		0.12		12.64
C	1	...	...	...	...	...	...	...	...
	2	363	2.18	22	0.13	1	0.01	386	2.32
	3	1,415	21.22	347	5.55	3	0.05	1,765	26.82
	4	347	11.10	101	3.43	...	...	448	14.53
	5	96	5.57	...	...	...	...	96	5.57
	6	136	13.06	5	0.49	...	...	141	13.55
	7	149	21.75	17	2.55	1	0.15	167	24.45
	8	61	12.87	22	4.77	4	0.87	87	18.51
	9	11	3.22	9	2.72	...	...	20	5.94
	10	1	0.39	3	1.22	...	...	4	1.61
	11	1	0.52	9	4.80	...	...	10	5.32
	12+	...	...	9	10.22	...	...	9	10.22
Total		2,580	91.88	544	35.88	9	1.08	3,133	128.84
Pounds per acre			17.04		6.66		0.20		23.90

(continued)

Table 9.--concluded

Stream section	Inch groups ¹	Brook trout		Brown trout		Rainbow trout		Total	
		Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)	Num-ber	Weight (pounds)
D	1	...	...	...	...	...	...	...	...
	2	449	2.69	4	0.02	...	...	453	2.71
	3	1,153	17.30	50	0.80	1	0.02	1,204	18.11
	4	236	7.55	28	0.95	1	0.03	265	8.54
	5	103	5.97	...	...	...	...	103	5.97
	6	252	24.19	3	0.29	...	...	255	24.48
	7	164	23.94	7	1.05	1	0.15	172	25.14
	8	47	9.92	14	3.04	...	...	61	12.96
	9	10	2.93	10	3.02	...	...	20	5.95
	10	5	1.97	3	1.22	...	...	8	3.19
	11	7	3.60	4	2.13	...	...	11	5.73
	12+	12	9.33	40	40.48	1	0.68	53	50.49
Total		2,438	109.39	163	53.00	4	0.88	2,605	163.27
Pounds per acre			19.36		9.38		0.16		28.90
E	1	...	...	...	...	...	...	...	...
	2	206	1.24	...	...	...	...	206	1.24
	3	978	14.67	4	0.06	...	...	982	14.73
	4	76	2.43	3	0.10	...	...	79	2.53
	5	184	10.67	...	...	...	...	184	10.67
	6	246	23.62	2	0.20	...	...	248	23.82
	7	107	15.62	4	0.60	...	...	111	16.22
	8	18	3.80	8	1.74	1	0.22	27	5.76
	9	5	1.46	2	0.60	...	...	7	2.06
	10	3	1.18	...	...	...	...	3	1.18
	11	1	0.52	2	1.07	...	...	3	1.59
	12+	...	...	23	25.02	...	...	23	25.02
Total		1,824	75.21	48	29.39	1	0.22	1,873	104.82
Pounds per acre			13.27		5.18		0.04		18.49
All sections	1	...	...	...	...	...	...	...	...
	2	1,508	9.05	440	2.63	1	0.01	1,949	11.69
	3	4,299	64.49	1,317	21.07	6	0.11	5,622	85.67
	4	924	29.56	230	7.81	1	0.03	1,155	37.40
	5	397	22.82	...	...	...	...	397	22.82
	6	717	68.84	36	3.53	2	0.20	755	72.57
	7	482	70.36	86	12.90	6	0.90	574	84.16
	8	142	29.96	96	20.83	9	1.96	247	52.75
	9	28	8.20	38	11.47	2	0.60	68	20.27
	10	9	3.54	10	4.06	...	...	19	7.60
	11	9	4.64	33	17.59	...	...	42	22.23
	12+	16	12.14	110	124.92	1	0.68	127	142.74
Total		8,531	323.60	2,396	226.81	28	4.49	10,955	554.90
Pounds per acre			10.87		7.62		0.15		18.64

¹ Length groups range from 2.0-2.9 inches, 3.0-3.9, 4.0-4.9 inches, etc.

Table 10. --Estimated numbers and weights of trout of different species and lengths in the experimental sections of the Pigeon River in the fall of 1958
(after close of the trout fishing season)

Stream section	Inch groups↓	Brook trout		Brown trout		Rainbow trout		Total	
		Num- ber	Weight (pounds)	Num- ber	Weight (pounds)	Num- ber	Weight (pounds)	Num- ber	Weight (pounds)
A	1	...	...	...	...	...	...	...	...
	2	54	0.32	44	0.26	...	...	98	0.58
	3	200	3.00	773	12.37	2	0.03	975	15.40
	4	93	2.98	180	6.12	...	...	273	9.10
	5	56	3.25	2	0.12	...	...	58	3.37
	6	89	8.54	26	2.55	...	...	115	11.09
	7	57	8.32	79	11.85	...	...	136	20.17
	8	13	2.74	35	7.60	2	0.43	50	10.77
	9	5	1.46	8	2.42	...	...	13	3.88
	10	5	1.97	1	0.41	...	...	6	2.38
	11	2	1.03	1	0.53	...	...	3	1.56
	12+	...	...	14	16.42	...	...	14	16.42
Total		574	33.61	1,163	60.65	4	0.46	1,741	94.72
Pounds per acre			4.70		8.47		0.06		13.23
B	1	...	...	...	...	...	...	...	...
	2	469	2.81	153	0.92	1	0.01	623	3.74
	3	686	10.29	948	15.17	12	0.19	1,646	25.65
	4	87	2.78	205	6.97	3	0.10	295	9.85
	5	73	4.23	6	0.36	...	...	79	4.59
	6	112	10.75	38	3.72	...	...	150	14.47
	7	18	2.63	59	8.85	...	...	77	11.48
	8	4	0.84	51	11.07	...	...	55	11.91
	9	2	0.59	4	1.21	...	...	6	1.80
	10	1	0.39	2	0.81	...	...	3	1.20
	11	...	...	3	1.60	...	...	3	1.60
	12+	...	...	10	12.81	...	...	10	12.81
Total		1,452	35.31	1,479	63.49	16	0.30	2,947	99.10
Pounds per acre			5.99		10.76		0.05		16.80
C	1	...	...	...	...	...	...	...	...
	2	755	4.53	256	1.54	1	0.01	1,012	6.08
	3	1,267	19.00	1,056	16.90	27	0.43	2,350	36.33
	4	124	3.97	175	5.95	1	0.03	300	9.95
	5	240	13.92	2	0.12	...	...	242	14.04
	6	291	27.94	39	3.82	1	0.10	331	31.86
	7	135	19.71	57	8.55	...	...	192	28.26
	8	46	9.71	32	6.94	...	...	78	16.65
	9	19	5.57	9	2.72	...	...	28	8.29
	10	5	1.97	1	0.41	1	0.41	7	2.79
	11	1	0.52	9	4.80	...	...	10	5.32
	12+	...	...	23	25.64	...	...	23	25.64
Total		2,883	106.84	1,659	77.39	31	0.98	4,573	185.21
Pounds per acre			19.82		14.36		0.18		34.36

(continued)

Table 10.--concluded

Stream section	Inch groups ¹	Brook trout		Brown trout		Rainbow trout		Total	
		Num- ber	Weight (pounds)	Num- ber	Weight (pounds)	Num- ber	Weight (pounds)	Num- ber	Weight (pounds)
D	1	...	...	...	...	...	...	...	...
	2	952	5.71	374	2.24	...	...	1,326	7.95
	3	1,602	24.03	1,004	16.06	...	...	2,606	40.09
	4	215	6.88	180	6.12	...	...	395	13.00
	5	501	29.06	2	0.12	...	...	503	29.18
	6	379	36.38	42	4.12	...	...	421	40.50
	7	153	22.34	49	7.35	...	...	202	29.69
	8	57	12.03	15	3.26	...	...	72	15.29
	9	35	10.26	5	1.51	...	...	40	11.77
	10	3	1.18	3	1.22	...	...	6	2.40
	11	3	1.54	4	2.13	...	...	7	3.67
	12+	3	2.49	20	24.37	...	...	23	26.86
Total		3,903	151.90	1,698	68.50	...	...	5,601	220.40
Pounds per acre			26.89		12.12	...	...		39.01
E	1	...	...	...	...	...	...	...	...
	2	719	4.31	13	0.08	...	...	732	4.39
	3	1,163	17.44	345	5.52	...	...	1,508	22.96
	4	240	7.68	98	3.33	...	...	338	11.01
	5	366	21.23	1	0.06	...	...	367	21.29
	6	190	18.24	12	1.18	...	...	202	19.42
	7	61	8.91	34	5.10	...	...	95	14.01
	8	16	3.38	14	3.04	...	...	30	6.42
	9	13	3.81	4	1.21	...	...	17	5.02
	10	2	0.79	3	1.22	...	...	5	2.01
	11	1	0.52	4	2.13	...	...	5	2.65
	12+	...	...	4	6.49	...	...	4	6.49
Total		2,771	86.31	532	29.36	...	...	3,303	115.67
Pounds per acre			15.22		5.18	...	...		20.40
All sections	1	...	...	...	...	...	...	...	...
	2	2,949	17.68	840	5.04	2	0.02	3,791	22.74
	3	4,918	73.76	4,126	66.02	41	0.65	9,085	140.43
	4	759	24.29	838	28.49	4	0.13	1,601	52.91
	5	1,236	71.69	13	0.78	...	...	1,249	72.47
	6	1,061	101.85	157	15.39	1	0.10	1,219	117.34
	7	424	61.91	278	41.70	...	...	702	103.61
	8	136	28.70	147	31.91	2	0.43	285	61.04
	9	74	21.69	30	9.07	...	...	104	30.76
	10	16	6.30	10	4.07	1	0.41	27	10.78
	11	7	3.61	21	11.19	...	...	28	14.80
	12+	3	2.49	71	85.73	...	...	74	88.22
Total		11,583	413.97	6,531	299.39	51	1.74	18,165	715.10
Pounds per acre			13.90		10.06		0.06		24.02

¹ Length groups range from 2.0-2.9 inches, 3.0-3.9, 4.0-4.9 inches, etc.

Table 11.--Summary of fall population estimates of wild trout, Pigeon River, 1949-58

Year	Number	Weight	Pounds	Number	Weight	Pounds	Number	Weight	Pounds
		(pounds)	per acre		(pounds)	per acre		(pounds)	per acre
		Section A			Section B			Section C	
1949	637	65.68	9.17	2,010	118.92	20.16	2,870	137.55	25.52
1950	1,015	74.38	10.39	2,194	109.71	18.59	4,169	198.56	36.84
1951	1,490	83.99	11.73	2,745	124.22	21.06	4,188	200.67	37.23
1952	1,749	89.46	12.49	4,264	159.89	27.10	5,638	225.26	41.79
1953	2,129	132.12	18.45	3,562	182.37	30.91	5,106	319.34	59.25
1954	2,760	125.98	17.59	4,123	207.26	35.13	4,924	296.24	54.96
1955	1,681	109.39	15.28	2,152	129.73	21.99	3,542	192.43	35.70
1956	846	52.30	7.31	1,442	87.16	14.78	2,404	113.10	20.98
1957	1,363	83.36	11.64	1,981	74.61	12.64	3,133	128.84	23.90
1958	1,741	94.72	13.23	2,947	99.10	16.80	4,573	185.21	34.36

		Section D			Section E			All sections	
1949	2,516	162.96	28.84	...	...	...	8,033	485.11	16.29
1950	3,209	195.71	34.64	...	...	...	10,587	578.36	19.43
1951	6,357	361.27	63.94	...	...	...	14,780	770.15	25.87
1952	6,347	255.22	45.17	...	...	...	17,998	729.83	24.52
1953 ¹	4,460	292.49	51.77	3,760	248.06	43.75	19,017	1,174.38	39.45
1954	5,078	300.21	53.13	5,006	202.00	35.63	21,891	1,131.69	38.01
1955	2,963	178.00	31.50	2,869	163.85	28.90	13,207	773.40	25.98
1956	3,245	139.99	24.78	3,572	132.12	23.30	11,509	524.67	17.62
1957	2,605	163.27	28.90	1,873	104.82	18.49	10,955	554.90	18.64
1958	5,601	220.40	39.01	3,303	115.67	20.40	18,165	715.10	24.02

¹ Section E added in 1953.