

Table E-1.

Density of striped bass eggs (number/100m³), by date, in the lower
Roanoke River (Stations 1-12) for the period 1984-1991. Period N = Night.

Species = *Morone saxatilis*

Stage = 0

DATE	S T A T I O N													AVE.
	P	1	2	3	4	5	6	7	8	9	10	11	12	
05/18/84 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
05/22/84 N	3	3	0	0	0	1	0	0	0	0	0	0	1	1
05/23/84 N	0	5	3	2	1	0	0	0	0	0	0	0	1	1
05/25/84 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/27/84 N	0	2	1	0	0	0	0	0	0	0	0	0	0	0
05/29/84 N	3	0	0	0	0	0	0	0	0	0	0	0	0	0
05/31/84 N	0	0	2	0	0	0	0	0	0	0	0	0	0	0
06/02/84 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/04/84 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
06/08/84 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
06/10/84 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
06/14/84 N	.	.	.	.	.	.	.	.	0	0	0	0	0	0
06/16/84 N	.	.	.	.	.	.	.	.	0	0	0	0	0	0
06/18/84 N	.	.	.	.	.	.	.	.	0	0	0	0	0	0
Ave. Density	1	1	1	0	0	0	0	0	0	0	0	0	0	0
Ave. Volume	372	356	331	329	246	200	243	202	200	198	203	224	259	
n (efforts)	7	7	7	7	11	11	11	14	14	14	14	14	131	
04/26/85 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
04/28/85 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
04/30/85 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
05/02/85 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
05/04/85 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/06/85 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/08/85 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/10/85 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/12/85 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/85 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/16/85 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/18/85 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
05/20/85 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
05/22/85 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
05/24/85 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
05/26/85 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
05/29/85 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
06/02/85 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
06/06/85 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
06/10/85 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
Ave. Density	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ave. Volume	39	41	38	38	48	50	52	52	51	46	51	48	46	
n (efforts)	7	7	7	7	15	20	19	20	20	20	20	20	182	
05/01/86 N	26	0	0	0	0	0	0	0	0	0	0	0	0	2
05/03/86 N	0	2	0	0	0	0	0	0	0	0	0	0	0	0

Species = *Morone saxatilis*

Stage = 0

DATE	S T A T I O N													AVE.
	P	1	2	3	4	5	6	7	8	9	10	11	12	
05/05/86 N		8	0	0	0	0	0	0	0	0	0	0	0	1
05/07/86 N		0	12	0	0	0	0	0	0	0	0	0	0	1
05/09/86 N		3	0	19	0	0	0	0	0	0	0	0	0	2
05/11/86 N		0	3	0	0	0	0	0	0	0	0	0	0	0
05/13/86 N		0	1	0	0	0	0	0	0	0	0	0	0	0
05/15/86 N		3	0	0	0	0	0	0	0	0	0	0	0	0
05/17/86 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/19/86 N		1	0	0	0	0	0	0	0	0	0	0	0	0
05/21/86 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/23/86 N		.	.	.	.	0	0	0	0	0	0	0	0	0
05/25/86 N		.	.	.	.	0	0	0	0	0	0	0	0	0
05/27/86 N		.	.	.	.	0	0	0	0	0	0	0	0	0
05/31/86 N		.	.	.	.	0	0	0	0	0	0	0	0	0
06/04/86 N		.	.	.	.	0	0	0	0	0	0	0	0	0
06/08/86 N		.	.	.	.	0	0	0	0	0	0	0	0	0
Ave. Density		4	2	2	0	0	0	0	0	0	0	0	0	1
Ave. Volume		39	35	38	33	40	53	51	49	52	52	49	51	45
n (efforts)		11	11	11	11	17	17	17	17	17	17	17	17	180
04/14/88 N		0	23	.	0	.	0	0	0	.	0	.	.	3
04/21/88 N		1	3	.	0	.	0	0	0	.	0	.	.	1
04/28/88 N		14	0	.	0	.	0	0	0	.	0	.	.	2
05/05/88 N		0	0	.	0	.	.	.	.	.	.	.	.	0
05/08/88 N		14	0	0	0	0	0	0	0	0	0	0	0	1
05/11/88 N		3	0	0	0	0	0	0	.	0	0	.	0	0
05/12/88 N		1	1	0	0	0	0	0	0	0	0	0	0	0
05/14/88 N		4	0	0	0	0	0	0	0	0	0	0	0	0
05/16/88 N		37	0	0	.	.	0	0	.	.	0	.	.	6
05/18/88 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/20/88 N		53	0	0	0	0	0	0	0	0	0	0	0	4
05/22/88 N		19	0	0	0	0	0	0	0	0	0	0	0	2
05/24/88 N		0	.	.	.	.	.	.	.	.	0	.	0	0
05/26/88 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/28/88 N		8	0	0	0	0	0	0	0	0	0	0	0	1
05/30/88 N		34	0	0	0	0	0	0	0	0	0	0	0	3
06/01/88 N		.	.	.	.	.	.	.	0	0	0	0	.	0
06/03/88 N		.	.	.	.	0	0	0	0	0	0	0	0	0
06/05/88 N		.	.	.	.	.	.	.	0	0	0	0	.	0
Ave. Density		12	2	0	0	0	0	0	0	0	0	0	0	1
Ave. Volume		41	43	42	42	43	39	39	39	39	38	41	37	40
n (efforts)		16	15	11	14	11	15	15	15	13	18	12	12	167
04/21/89 N		0	.	.	0	.	.	.	.	.	.	.	.	0
04/28/89 N		0	.	.	0	.	0	0	0	.	0	.	.	0

Species = *Morone saxatilis*

Stage = 0

DATE	S T A T I O N													AVE.
	P	1	2	3	4	5	6	7	8	9	10	11	12	
05/03/89 N		15	0	0	0	0	0	0	0	0	0	0	0	1
05/05/89 N		0	0	0	0	0	0	0	0	0	0	.	.	0
05/07/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/09/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/89 N		0	0	0	0	0	.	.	.	.	.	.	.	0
05/16/89 N		.	.	.	.	.	0	0	0	0	0	0	0	0
05/18/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/21/89 N		21	0	5	0	0	0	0	0	0	0	0	0	2
05/23/89 N		27	0	0	.	.	.	.	.	.	.	.	.	9
05/24/89 N		.	.	.	.	.	0	0	0	0	0	0	0	0
05/25/89 N		38	1	1	0	0	0	0	0	0	0	0	0	3
05/27/89 N		9	0	0	0	0	0	0	0	0	0	0	0	1
05/29/89 N		4	0	1	0	0	0	0	0	0	0	0	0	0
05/31/89 N		1	0	2	0	0	0	0	0	0	0	0	0	0
06/02/89 N		2	0	0	0	0	0	0	0	0	0	0	0	0
06/04/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
06/06/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
06/08/89 N		.	.	.	.	0	0	0	0	0	0	0	0	0
06/12/89 N		.	.	.	.	0	0	0	0	0	0	.	.	0
Ave. Density		7	0	1	0	0	0	0	0	0	0	0	0	1
Ave. Volume		45	45	43	46	46	48	49	47	48	46	47	47	46
n (efforts)		17	15	15	16	16	18	18	18	17	18	15	15	198
04/18/90 N		.	.	.	.	.	.	.	0	0	0	.	.	0
04/27/90 N		.	.	.	.	.	.	.	0	0	0	.	.	0
05/01/90 N		1	0	0	.	.	.	.	.	.	0	0	0	0
05/04/90 N		43	0	0	1	0	0	0	0	0	0	0	0	4
05/07/90 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/11/90 N		1	0	0	0	0	0	0	0	0	0	0	0	0
05/13/90 N		73	2	1	0	0	0	0	0	0	0	0	0	6
05/15/90 N		123	0	1	0	0	0	0	0	0	0	0	0	10
05/18/90 N		26	1	0	0	0	1	0	0	0	0	0	0	2
05/21/90 N		14	0	0	0	1	0	0	0	0	0	0	0	1
05/24/90 N		0	2	0	0	0	0	0	0	0	0	0	0	0
05/27/90 N		12	0	1	0	0	0	0	0	0	0	0	0	1
05/30/90 N		.	.	.	.	0	0	0	0	0	0	0	0	0
06/02/90 N		.	.	.	.	.	0	0	0	0	0	0	0	0
06/04/90 N		.	.	.	.	.	0	0	0	0	0	0	0	0
06/06/90 N		.	.	.	.	.	0	0	0	0	0	0	0	0
Ave. Density		29	1	0	0	0	0	0	0	0	0	0	0	3
Ave. Volume		47	45	44	48	48	41	42	43	43	42	43	44	44
n (efforts)		10	10	10	9	10	13	13	15	15	16	14	14	149
04/24/91 N		.	.	.	.	.	.	.	0	0	0	.	.	0

Species = *Morone saxatilis*

Stage = 0

S T A T I O N														
DATE	P	1	2	3	4	5	6	7	8	9	10	11	12	AVE.
05/02/91 N	.	.	.	.	.	.	0	0	0	0	0	0	0	0
05/07/91 N	16	0	0	0	0	0	0	0	0	0	0	0	0	1
05/10/91 N	19	0	0	0	0	0	0	0	0	0	0	0	0	2
05/13/91 N	13	0	0	0	0	0	0	0	0	0	0	0	0	1
05/16/91 N	51	0	0	0	0	0	0	0	0	0	0	0	0	4
05/18/91 N	27	6	0	0	0	0	0	0	0	0	0	0	0	3
05/20/91 N	24	2	0	0	0	0	0	0	0	0	0	0	0	2
05/22/91 N	1	0	0	0	0	0	0	0	0	0	0	0	0	0
05/24/91 N	26	0	2	0	0	0	0	0	0	0	0	0	0	2
05/26/91 N	29	5	0	0	0	0	0	0	0	0	0	0	0	3
05/30/91 N	.	.	.	.	.	.	0	0	0	0	0	0	0	0
Ave. Density	23	2	0	0	0	0	0	0	0	0	0	0	0	2
Ave. Volume	46	47	44	45	47	47	47	46	930	46	47	49	46	120
n (efforts)	9	9	9	9	9	9	11	11	12	12	12	11	11	125

Table E-2.

Density of striped bass eggs (number/100m³), by date, in Batchelor Bay
(Stations 13-16) and western Albemarle Sound (Stations 17-32)
for the period 1984-1991. Period N = Night.

Species = *Morone saxatilis*

Stage = 0

DATE	S T A T I O N																AVE1	AVE2
	P	13	14	15	16	17	18	20	21	22	23	24	26	28	31	32		
05/18/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/22/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/23/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/25/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/27/84 N		0	.	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/29/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/31/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/02/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/04/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/08/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/10/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/14/84 N		0	0	0	0	0	0	.	.	.	.	.	.	.	.	.	0	0
06/16/84 N		0	0	0	0	0	0	.	.	.	.	.	.	.	.	.	0	0
06/18/84 N		0	0	0	0	0	0	.	.	.	.	.	.	.	.	.	0	0
Ave. Density		0	0	0	0	0	0	.	.	.	.	.	.	.	.	.	0	0
Ave. Volume		189	192	196	185	200	189	.	.	.	.	.	.	.	.	.	190	194
n (efforts)		14	13	14	3	3	3	0	0	0	0	0	0	0	0	0	44	6
04/26/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
04/28/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
04/30/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/02/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/04/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/06/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/08/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/10/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/12/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/14/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/16/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/18/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/20/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/22/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/24/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/26/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/02/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/06/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/10/85 N		.	.	.	0	.	.	.	.	.	.	.	.	.	.	.	0	.
Ave. Density		0	0	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
Ave. Volume		52	57	54	52	.	.	.	.	.	.	.	.	.	.	.	54	.
n (efforts)		18	18	18	1	0	0	0	0	0	0	0	0	0	0	0	55	0
05/01/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/03/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/05/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.

Species = *Morone saxatilis*

Stage = 0

DATE	S T A T I O N																AVE1	AVE2
	P	13	14	15	16	17	18	20	21	22	23	24	26	28	31	32		
05/07/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/11/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/15/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/17/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/19/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/21/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/23/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/25/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/27/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/29/86 N		.	.	.	.	.	.	0	0	0	0	0	0	0	.	.	.	0
05/31/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/04/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/06/86 N		.	.	.	.	.	.	0	0	0	.	0	0	0	.	.	.	0
06/08/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/10/86 N		.	.	.	.	.	.	0	0	0	0	0	0	0	.	.	.	0
Ave. Density		0	0	0	.	.	.	0	0	0	0	0	0	0	.	.	0	0
Ave. Volume		52	51	51	.	.	.	50	52	53	48	52	51	55	.	.	51	52
n (efforts)		15	15	15	0	0	0	3	3	3	2	3	3	3	0	0	45	20
04/28/88 N		.	.	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/08/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/11/88 N		.	.	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/12/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/14/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/18/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/20/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/22/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/26/88 N		0	.	.	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/28/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/30/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/01/88 N		0	.	0	0	.	0	.	0	.	.	.	.	.	0	0	0	0
06/05/88 N		0	.	0	0	.	0	.	0	.	.	.	.	.	0	0	0	0
06/07/88 N		.	.	0	0	.	0	.	0	0	0	0	0	0	0	0	0	0
06/11/88 N		.	.	0	0	.	0	.	0	0	0	0	0	0	0	0	0	0
06/13/88 N		.	.	0	0	.	0	.	0	0	0	0	0	0	0	0	0	0
06/15/88 N		.	.	0	.	.	0	0	0	0	.	.	0	0	0	0	0	0
Ave. Density		0	.	0	0	.	0	0	0	0	0	0	0	0	0	0	0	0
Ave. Volume		40	.	40	42	.	40	48	34	39	40	40	38	37	39	41	41	40
n (efforts)		11	0	16	14	0	6	1	6	4	3	3	4	4	6	6	41	43
05/03/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/07/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/09/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/16/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.

Species = *Morone saxatilis*

Stage = 0

S T A T I O N																		
DATE	P	13	14	15	16	17	18	20	21	22	23	24	26	28	31	32	AVE1	AVE2
05/18/89	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/21/89	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/24/89	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/25/89	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/27/89	N	0	.	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/29/89	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/31/89	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/02/89	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/04/89	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/06/89	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/08/89	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/10/89	N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0
06/14/89	N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0
06/16/89	N	.	.	0	.	.	.	.	.	.	.	.	.	.	0	0	0	0
06/18/89	N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0
Ave.Density		0	.	0	0	.	0	0	0	0	0	0	0	0	0	0	0	0
Ave.Volume		173	.	50	50	.	49	54	48	46	50	49	45	50	48	42	91	48
n (efforts)		15	0	19	14	0	3	3	3	3	3	3	3	3	4	3	48	31
04/25/90	N	1	.	0	0	.	0	.	.	.	.	.	.	.	.	.	0	0
05/01/90	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/04/90	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/07/90	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/11/90	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/13/90	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/15/90	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/18/90	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/23/90	N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0
05/24/90	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/26/90	N	.	.	0	.	.	0	0	0	.	.	.	.	0	.	.	0	0
05/27/90	N	.	.	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/29/90	N	.	.	.	.	.	.	.	0	0	.	.	.	.	0	0	.	0
05/30/90	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/02/90	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/06/90	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/08/90	N	.	.	.	.	.	.	.	.	.	.	.	.	.	0	0	.	0
06/10/90	N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0
06/13/90	N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0
06/15/90	N	.	.	.	.	.	.	.	.	.	0	0	.	.	.	.	.	0
06/17/90	N	.	.	0	.	.	0	0	0	0	0	0	0	0	.	0	0	0
Ave.Density		0	.	0	0	.	0	0	0	0	0	0	0	0	0	0	0	0
Ave.Volume		46	.	48	48	.	48	48	49	46	46	46	46	47	46	46	47	47
n (efforts)		12	0	18	12	0	6	5	5	5	6	5	4	5	5	6	42	52

Species = *Morone saxatilis*

Stage = 0

DATE	P	S T A T I O N															AVE1	AVE2
		13	14	15	16	17	18	20	21	22	23	24	26	28	31	32		
04/17/91 N	0	.	0	0	.	0	.	.	.	.	.	.	.	.	.	.	0	0
04/30/91 N	0	.	0	0	.	0	.	.	.	.	.	.	.	.	.	.	0	0
05/02/91 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/07/91 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/10/91 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/13/91 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/16/91 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/20/91 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/21/91 N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0	0
05/22/91 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/23/91 N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0	0
05/24/91 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/25/91 N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0	0
05/26/91 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/28/91 N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0	0
05/30/91 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/01/91 N	.	.	0	.	.	0	0	0	.	.	.	.	.	.	0	0	0	0
06/03/91 N	.	.	0	.	.	0	0	0	.	.	.	.	.	.	.	.	0	0
06/05/91 N	.	.	.	.	.	.	.	.	0	0	0	0	0	0	0	.	.	0
Ave. Density	0	.	0	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0
Ave. Volume	55	.	47	48	.	46	45	42	45	46	46	46	45	46	45	50	45	45
n (efforts)	12	0	18	12	0	8	6	6	5	5	5	5	5	5	6	5	42	56

Table E-3.

Density of striped bass larvae (number/100m³), by date, in the lower Roanoke River (Stations 1-12) for the period 1984-1991. Period N = Night.

Species = *Morone saxatilis*

Stage = 1

DATE	S T A T I O N													AVE.
	P	1	2	3	4	5	6	7	8	9	10	11	12	
05/18/84 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
05/22/84 N	26	3	1	4	1	1	1	0	0	0	0	0	0	3
05/23/84 N	17	69	53	103	19	7	3	0	8	154	4	113	46	46
05/25/84 N	3	7	0	0	0	0	0	0	1	6	0	0	1	1
05/27/84 N	4	48	18	67	18	12	22	0	5	4	1	3	17	17
05/29/84 N	40	87	27	32	1	4	10	0	47	2	8	33	24	24
05/31/84 N	3	2	3	2	1	44	3	35	2	9	0	2	9	9
06/02/84 N	0	1	0	2	0	0	0	0	0	0	0	0	0	0
06/04/84 N	.	.	.	.	0	0	0	0	0	0	0	0	0	0
06/08/84 N	.	.	.	.	0	1	2	1	7	0	4	1	2	2
06/10/84 N	.	.	.	.	0	0	2	0	2	2	0	0	1	1
06/14/84 N	.	.	.	.	.	.	.	0	0	0	0	0	0	0
06/16/84 N	.	.	.	.	.	.	.	0	0	0	0	0	0	0
06/18/84 N	.	.	.	.	.	.	.	0	0	0	0	0	0	0
Ave. Density	13	31	15	30	4	6	4	3	5	13	1	11	11	11
Ave. Volume	372	356	331	329	246	200	243	202	200	198	203	224	259	259
n (efforts)	7	7	7	7	11	11	11	14	14	14	14	14	131	131
04/26/85 N	.	.	.	.	.	4	25	2	0	11	0	2	6	6
04/28/85 N	.	.	.	.	.	35	6	0	9	4	0	4	8	8
04/30/85 N	.	.	.	.	.	5	11	0	23	20	3	71	19	19
05/02/85 N	.	.	.	.	.	7	24	0	7	6	2	1	7	7
05/04/85 N	91	21	47	153	8	89	39	11	20	16	1	6	42	42
05/06/85 N	76	45	73	45	655	25	22	7	8	0	13	0	81	81
05/08/85 N	70	117	72	288	97	257	346	2	13	0	1	6	106	106
05/10/85 N	73	141	1226	273	65	153	41	35	76	0	15	0	175	175
05/12/85 N	24	21	77	149	196	680	768	41	313	0	17	0	190	190
05/14/85 N	85	61	73	18	0	23	16	186	124	0	27	0	51	51
05/16/85 N	3	34	44	30	104	200	.	5	4	66	12	3	46	46
05/18/85 N	.	.	.	.	.	55	33	1	94	1	15	15	31	31
05/20/85 N	.	.	.	.	44	4	22	9	3	14	2	27	16	16
05/22/85 N	.	.	.	.	48	55	81	1	0	1	5	1	24	24
05/24/85 N	.	.	.	.	8	14	1	1	1	1	1	28	7	7
05/26/85 N	.	.	.	.	16	0	2	1	0	0	3	0	3	3
05/29/85 N	.	.	.	.	1	3	3	0	2	0	0	3	1	1
06/02/85 N	.	.	.	.	1	12	2	8	0	2	0	0	3	3
06/06/85 N	.	.	.	.	1	6	0	0	1	0	0	0	1	1
06/10/85 N	.	.	.	.	0	0	2	0	0	2	0	0	1	1
Ave. Density	60	63	230	137	83	81	76	16	35	7	6	8	67	67
Ave. Volume	39	41	38	38	48	50	52	52	51	46	51	48	46	46
n (efforts)	7	7	7	7	15	20	19	20	20	20	20	20	182	182
05/01/86 N	95	115	59	3	6	0	0	0	0	0	2	0	23	23
05/03/86 N	34	170	49	131	12	25	0	4	94	11	6	6	45	45

Species = *Morone saxatilis*

Stage = 1

S T A T I O N														
DATE	P	1	2	3	4	5	6	7	8	9	10	11	12	AVE.
05/05/86	N	42	133	108	27	3	38	30	7	94	0	20	33	45
05/07/86	N	37	43	84	283	214	196	100	58	45	330	109	105	134
05/09/86	N	195	92	63	17	4	75	12	73	29	27	281	48	76
05/11/86	N	122	617	2229	123	240	109	0	20	44	224	20	47	316
05/13/86	N	5	23	43	49	61	329	115	32	73	1	42	710	124
05/15/86	N	23	28	77	24	1	109	0	597	237	20	293	10	118
05/17/86	N	0	14	10	22	0	73	58	2	82	16	0	105	32
05/19/86	N	11	17	37	30	0	17	0	9	16	15	6	24	15
05/21/86	N	38	72	39	54	14	4	36	0	8	41	3	7	26
05/23/86	N	.	.	.	.	10	45	51	23	263	420	42	224	135
05/25/86	N	.	.	.	.	7	49	3	15	17	27	21	66	26
05/27/86	N	.	.	.	.	7	52	8	1	30	32	6	30	21
05/31/86	N	.	.	.	.	7	185	43	1	3	0	15	110	45
06/04/86	N	.	.	.	.	10	1	2	3	2	3	0	5	3
06/08/86	N	.	.	.	.	2	0	0	0	1	2	1	0	1
Ave. Density		55	120	254	69	35	77	27	50	61	69	51	90	80
Ave. Volume		39	35	38	33	40	53	51	49	52	52	49	51	45
n (efforts)		11	11	11	11	17	17	17	17	17	17	17	17	180
04/14/88	N	0	0	.	0	.	0	0	0	.	0	.	.	0
04/21/88	N	0	0	.	0	.	0	0	0	.	0	.	.	0
04/28/88	N	2	0	.	1	.	0	0	0	.	0	.	.	1
05/05/88	N	0	0	.	0	.	.	.	.	.	.	.	.	0
05/08/88	N	4	0	0	0	0	0	1	0	1	0	1	0	1
05/11/88	N	17	10	3	6	0	0	1	.	0	0	.	0	4
05/12/88	N	117	2	3	9	0	6	0	0	7	0	0	0	12
05/14/88	N	24	67	547	94	17	94	20	0	0	2	50	11	77
05/16/88	N	175	8	23	.	.	590	81	.	.	2919	.	.	633
05/18/88	N	91	42	428	258	14	278	88	69	206	114	159	26	148
05/20/88	N	39	8	51	122	6	188	43	238	503	243	89	404	161
05/22/88	N	44	388	89	119	4	244	51	14	32	41	28	16	89
05/24/88	N	84	.	.	.	.	.	.	.	.	167	.	342	198
05/26/88	N	33	359	116	141	12	216	16	21	289	37	16	37	108
05/28/88	N	3	16	19	32	2	121	39	16	1053	88	263	93	146
05/30/88	N	4	2	1	29	7	79	30	40	45	93	27	35	33
06/01/88	N	.	.	.	.	.	.	.	16	10	16	5	.	12
06/03/88	N	.	.	.	.	1	306	1	12	366	1	33	10	91
06/05/88	N	.	.	.	.	.	.	.	5	16	14	20	.	14
Ave. Density		40	60	116	58	6	141	25	29	194	207	58	81	85
Ave. Volume		41	43	42	42	43	39	39	39	39	38	41	37	40
n (efforts)		16	15	11	14	11	15	15	15	13	18	12	12	167
04/21/89	N	0	.	.	0	.	.	.	.	.	.	.	.	0
04/28/89	N	0	.	.	0	.	0	0	0	.	0	.	.	0

Species = *Morone saxatilis*

Stage = 1

DATE	S T A T I O N													AVE.
	P	1	2	3	4	5	6	7	8	9	10	11	12	
05/03/89 N		0	7	0	0	0	1	0	0	0	0	0	0	1
05/05/89 N		0	1	0	0	2	0	0	0	1	0	.	.	0
05/07/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/09/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/89 N		0	0	0	0	0	.	.	.	.	.	.	.	0
05/16/89 N		.	.	.	.	.	0	0	0	0	0	0	0	0
05/18/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/21/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/23/89 N		0	1	0	.	.	.	.	.	.	.	.	.	0
05/24/89 N		.	.	.	.	.	0	0	0	0	0	0	0	0
05/25/89 N		0	5	0	4	0	1	3	0	0	1	0	0	1
05/27/89 N		0	0	0	1	1	0	0	0	0	0	0	0	0
05/29/89 N		1	6	2	1	3	0	1	0	3	18	0	5	3
05/31/89 N		15	1	0	1	0	0	0	0	0	1	0	0	2
06/02/89 N		571	383	10	1	2	0	0	0	0	0	0	0	81
06/04/89 N		2	0	7	0	2	2	1	20	7	4	15	9	6
06/06/89 N		42	2	1	1	1	0	1	0	2	0	1	0	4
06/08/89 N		.	.	.	.	9	8	24	2	2	2	33	0	10
06/12/89 N		.	.	.	.	0	0	5	0	1	0	.	.	1
Ave. Density		37	27	1	1	1	1	2	1	1	1	3	1	6
Ave. Volume		45	45	43	46	46	48	49	47	48	46	47	47	46
n (efforts)		17	15	15	16	16	18	18	18	17	18	15	15	198
04/18/90 N		.	.	.	.	.	.	.	0	0	0	.	.	0
04/27/90 N		.	.	.	.	.	.	.	0	0	2	.	.	1
05/01/90 N		2	1	0	.	.	.	.	.	.	1	2	0	1
05/04/90 N		10	4	0	6	2	0	1	1	3	1	0	4	3
05/07/90 N		29	1	1	7	1	2	3	0	0	2	4	0	4
05/11/90 N		162	24	6	26	4	16	5	2	29	0	54	1	27
05/13/90 N		0	14	7	59	6	41	141	3	74	11	1	14	31
05/15/90 N		0	2	8	6	1	1	4	0	22	0	6	0	4
05/18/90 N		0	3	6	5	0	8	2	0	10	4	53	2	8
05/21/90 N		0	0	1	3	1	4	1	2	17	0	9	19	5
05/24/90 N		8	10	6	8	1	144	96	0	78	71	15	5	37
05/27/90 N		0	6	0	4	0	6	2	0	1	0	2	0	2
05/30/90 N		.	.	.	.	0	0	1	0	0	0	0	0	0
06/02/90 N		.	.	.	.	.	0	0	0	0	0	0	0	0
06/04/90 N		.	.	.	.	.	4	0	0	0	0	0	1	1
06/06/90 N		.	.	.	.	.	0	0	0	0	0	0	0	0
Ave. Density		21	7	3	14	2	17	20	1	16	6	11	3	10
Ave. Volume		47	45	44	48	48	41	42	43	43	42	43	44	44
n (efforts)		10	10	10	9	10	13	13	15	15	16	14	14	149
04/24/91 N		.	.	.	.	.	.	.	1	0	0	.	.	0

Species = Morone saxatilis		Stage = 1												
		STATION												
DATE	P	1	2	3	4	5	6	7	8	9	10	11	12	AVE.
05/02/91 N		.	4	.	.	.	0	0	0	0	0	0	1	0
05/07/91 N		0	54	17	20	9	4	0	0	1	0	0	0	1
05/10/91 N		212	52	8	31	13	17	3	0	4	1	0	2	28
05/13/91 N		250	253	101	120	31	31	22	11	21	3	16	6	35
05/16/91 N		148	34	64	87	201	630	48	39	82	29	43	93	81
05/18/91 N		21	35	24	72	0	93	6	22	120	118	26	136	127
05/20/91 N		59	13	12	105	64	335	80	20	473	5	86	3	73
05/22/91 N		25	9	1	26	11	14	2	18	151	41	69	49	80
05/24/91 N		15	9	7	15	1	35	17	5	57	5	15	5	15
05/26/91 N		19	9	7	15	1	35	17	5	18	12	29	8	15
05/30/91 N		.	.	.	.	.	158	49	7	74	45	18	58	59
Ave. Density		83	52	26	53	37	121	21	11	84	22	27	33	47
Ave. Volume		46	47	44	45	47	47	46	930	46	47	49	46	120
n (efforts)		9	9	9	9	9	11	11	12	12	12	11	11	125

Table E-4.

Density of striped bass larvae (number/100m³), by date, in Batchelor Bay
and western Albemarle Sound (Stations 17-32)
for the period 1984-1991. Period N = Night.

Species = *Morone saxatilis*

Stage = 1

DATE	S T A T I O N																AVE1	AVE2
	P	13	14	15	16	17	18	20	21	22	23	24	26	28	31	32		
05/18/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/22/84 N		0	0	1	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/23/84 N		0	1	1	.	.	.	.	.	.	.	.	.	.	.	.	1	.
05/25/84 N		13	1	0	.	.	.	.	.	.	.	.	.	.	.	.	5	.
05/27/84 N		8	.	1	.	.	.	.	.	.	.	.	.	.	.	.	5	.
05/29/84 N		33	0	2	.	.	.	.	.	.	.	.	.	.	.	.	12	.
05/31/84 N		5	0	0	.	.	.	.	.	.	.	.	.	.	.	.	2	.
06/02/84 N		3	1	1	.	.	.	.	.	.	.	.	.	.	.	.	2	.
06/04/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/08/84 N		18	1	2	.	.	.	.	.	.	.	.	.	.	.	.	7	.
06/10/84 N		3	4	0	.	.	.	.	.	.	.	.	.	.	.	.	3	.
06/14/84 N		0	0	0	0	0	0	.	.	.	.	.	.	.	.	.	0	0
06/16/84 N		0	0	0	0	0	0	.	.	.	.	.	.	.	.	.	0	0
06/18/84 N		0	0	0	0	0	0	.	.	.	.	.	.	.	.	.	0	0
Ave.Density		6	1	1	0	0	0	.	.	.	.	.	.	.	.	.	2	0
Ave.Volume		189	192	196	185	200	189	.	.	.	.	.	.	.	.	.	190	194
n (efforts)		14	13	14	3	3	3	0	0	0	0	0	0	0	0	0	44	6
04/26/85 N		0	1	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
04/28/85 N		15	1	0	.	.	.	.	.	.	.	.	.	.	.	.	5	.
04/30/85 N		1	0	2	.	.	.	.	.	.	.	.	.	.	.	.	1	.
05/02/85 N		3	0	0	.	.	.	.	.	.	.	.	.	.	.	.	1	.
05/04/85 N		0	1	2	.	.	.	.	.	.	.	.	.	.	.	.	1	.
05/06/85 N		0	1	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/08/85 N		9	0	0	.	.	.	.	.	.	.	.	.	.	.	.	3	.
05/10/85 N		3	2	6	.	.	.	.	.	.	.	.	.	.	.	.	3	.
05/12/85 N		4	21	41	.	.	.	.	.	.	.	.	.	.	.	.	22	.
05/14/85 N		21	9	8	.	.	.	.	.	.	.	.	.	.	.	.	13	.
05/16/85 N		0	2	8	.	.	.	.	.	.	.	.	.	.	.	.	3	.
05/18/85 N		3	1	1	.	.	.	.	.	.	.	.	.	.	.	.	2	.
05/20/85 N		1	0	8	.	.	.	.	.	.	.	.	.	.	.	.	3	.
05/22/85 N		0	0	2	.	.	.	.	.	.	.	.	.	.	.	.	1	.
05/24/85 N		1	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/26/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/02/85 N		0	1	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/06/85 N		1	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/10/85 N		.	.	.	0	.	.	.	.	.	.	.	.	.	.	.	0	.
Ave.Density		3	2	4	0	.	.	.	.	.	.	.	.	.	.	.	3	.
Ave.Volume		52	57	54	52	.	.	.	.	.	.	.	.	.	.	.	54	.
n (efforts)		18	18	18	1	0	0	0	0	0	0	0	0	0	0	0	55	0
05/01/86 N		2	0	0	.	.	.	.	.	.	.	.	.	.	.	.	1	.
05/03/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/05/86 N		42	3	0	.	.	.	.	.	.	.	.	.	.	.	.	15	.

Species = *Morone saxatilis*

Stage = 1

DATE	S T A T I O N																AVE1	AVE2
	P	13	14	15	16	17	18	20	21	22	23	24	26	28	31	32		
05/07/86 N	448	77	38	.	.	.	.	.	.	.	.	.	.	.	.	.	188	.
05/11/86 N	4	12	10	.	.	.	.	.	.	.	.	.	.	.	.	.	9	.
05/15/86 N	86	11	21	.	.	.	.	.	.	.	.	.	.	.	.	.	39	.
05/17/86 N	8	10	7	.	.	.	.	.	.	.	.	.	.	.	.	.	8	.
05/19/86 N	24	5	1	.	.	.	.	.	.	.	.	.	.	.	.	.	10	.
05/21/86 N	1	1	2	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.
05/23/86 N	3	12	0	.	.	.	.	.	.	.	.	.	.	.	.	.	5	.
05/25/86 N	53	16	1	.	.	.	.	.	.	.	.	.	.	.	.	.	23	.
05/27/86 N	7	5	1	.	.	.	.	.	.	.	.	.	.	.	.	.	4	.
05/29/86 N	.	.	.	.	.	.	.	0	1	0	0	0	0	0	.	.	.	0
05/31/86 N	0	2	4	.	.	.	.	.	.	.	.	.	.	.	.	.	2	.
06/04/86 N	0	0	1	.	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/06/86 N	.	.	.	.	.	.	.	0	0	0	.	0	0	0	.	.	.	0
06/08/86 N	2	2	0	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.
06/10/86 N	.	.	.	.	.	.	.	0	0	0	0	0	0	0	.	.	.	0
Ave. Density	45	10	6	.	.	.	.	0	0	0	0	0	0	0	.	.	20	0
Ave. Volume	52	51	51	.	.	.	.	50	52	53	48	52	51	55	.	.	51	52
n (efforts)	15	15	15	0	0	0	0	3	3	3	2	3	3	3	0	0	45	20
04/28/88 N	.	.	0	.	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/08/88 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/11/88 N	.	.	0	.	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/12/88 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/14/88 N	1	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/18/88 N	46	.	1	209	.	.	.	.	.	.	.	.	.	.	.	.	86	.
05/20/88 N	50	.	9	9	.	.	.	.	.	.	.	.	.	.	.	.	23	.
05/22/88 N	15	.	12	8	.	.	.	.	.	.	.	.	.	.	.	.	12	.
05/26/88 N	97	.	.	5	.	.	.	.	.	.	.	.	.	.	.	.	51	.
05/28/88 N	141	.	1	10	.	.	.	.	.	.	.	.	.	.	.	.	51	.
05/30/88 N	83	.	14	30	.	.	.	.	.	.	.	.	.	.	.	.	42	.
06/01/88 N	33	.	3	20	.	8	.	39	.	.	.	.	.	.	1	0	19	12
06/05/88 N	3	.	6	0	.	1	.	7	.	.	.	.	.	.	7	0	3	4
06/07/88 N	.	.	0	1	.	6	.	0	0	1	0	0	0	0	0	0	1	1
06/11/88 N	.	.	1	1	.	1	.	5	0	0	0	0	0	0	0	0	1	1
06/13/88 N	.	.	0	0	.	0	.	0	0	0	0	0	0	1	2	0	0	0
06/15/88 N	.	.	6	.	.	0	1	3	0	.	.	0	0	0	0	0	6	1
Ave. Density	43	.	3	21	.	3	1	9	0	0	0	0	0	0	2	0	22	2
Ave. Volume	40	.	40	42	.	40	48	34	39	40	40	38	37	39	41	41	41	40
n (efforts)	11	0	16	14	0	6	1	6	4	3	3	4	4	6	6	6	41	43
05/03/89 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/07/89 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/09/89 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/16/89 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.

Species = *Morone saxatilis*

Stage = 1

DATE	P	S T A T I O N															AVE1	AVE2
		13	14	15	16	17	18	20	21	22	23	24	26	28	31	32		
05/18/89 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/21/89 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/24/89 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/25/89 N	0	.	0	1	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/27/89 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/29/89 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/31/89 N	0	.	1	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/02/89 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/04/89 N	38	.	2	15	.	.	.	.	.	.	.	.	.	.	.	.	18	.
06/06/89 N	0	.	2	4	.	.	.	.	.	.	.	.	.	.	.	.	2	.
06/08/89 N	20	.	2	2	.	.	.	.	.	.	.	.	.	.	.	.	8	.
06/10/89 N	.	.	3	.	.	1	0	0	0	0	0	0	0	0	0	.	3	0
06/14/89 N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0	0
06/16/89 N	.	.	0	.	.	.	.	.	.	.	.	.	.	.	0	1	0	1
06/18/89 N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0	0
Ave. Density	4	.	1	2	.	0	0	0	0	0	0	0	0	0	0	0	2	0
Ave. Volume	173	.	50	50	.	49	54	48	46	50	49	45	50	48	42	91	48	
n (efforts)	15	0	19	14	0	3	3	3	3	3	3	3	3	3	4	3	48	31
04/25/90 N	2	.	0	1	.	0	.	.	.	.	.	.	.	.	.	.	1	0
05/01/90 N	7	.	2	4	.	.	.	.	.	.	.	.	.	.	.	.	4	.
05/04/90 N	4	.	1	1	.	.	.	.	.	.	.	.	.	.	.	.	2	.
05/07/90 N	10	.	10	8	.	.	.	.	.	.	.	.	.	.	.	.	9	.
05/11/90 N	23	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	8	.
05/13/90 N	5	.	9	11	.	.	.	.	.	.	.	.	.	.	.	.	8	.
05/15/90 N	0	.	3	3	.	.	.	.	.	.	.	.	.	.	.	.	2	.
05/18/90 N	12	.	2	2	.	.	.	.	.	.	.	.	.	.	.	.	6	.
05/23/90 N	.	.	2	.	.	0	0	0	0	0	0	0	0	0	6	0	2	1
05/24/90 N	7	.	0	1	.	.	.	.	.	.	.	.	.	.	.	.	3	.
05/26/90 N	.	.	0	.	.	2	4	8	.	.	.	.	.	1	.	.	0	4
05/27/90 N	.	.	3	.	.	.	.	.	.	.	.	.	.	.	.	.	3	.
05/29/90 N	.	.	.	.	.	.	.	.	1	0	.	.	.	.	5	1	.	2
05/30/90 N	1	.	2	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/02/90 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/06/90 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/08/90 N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0	0	.	0
06/10/90 N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0	0
06/13/90 N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0	0
06/15/90 N	.	.	.	.	.	.	.	.	.	.	0	1	.	.	.	.	.	1
06/17/90 N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	.	0	0	0
Ave. Density	6	.	2	3	.	0	1	2	0	0	0	0	0	0	2	0	4	1
Ave. Volume	46	.	48	48	.	48	48	49	46	46	46	46	47	46	46	47	47	
n (efforts)	12	0	18	12	0	6	5	5	5	6	5	4	5	5	5	6	42	52

Species = *Morone saxatilis*

Stage = 1

DATE	P	S T A T I O N															AVE1	AVE2
		13	14	15	16	17	18	20	21	22	23	24	26	28	31	32		
04/17/91 N		0	.	0	0	.	0	.	.	.	.	.	.	.	.	.	0	0
04/30/91 N		0	.	0	0	.	0	.	.	.	.	.	.	.	.	.	0	0
05/02/91 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/07/91 N		1	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/10/91 N		0	.	0	2	.	.	.	.	.	.	.	.	.	.	.	1	.
05/13/91 N		22	.	6	41	.	.	.	.	.	.	.	.	.	.	.	23	.
05/16/91 N		30	.	69	14	.	.	.	.	.	.	.	.	.	.	.	38	.
05/20/91 N		675	.	9	306	.	.	.	.	.	.	.	.	.	.	.	330	.
05/21/91 N		.	.	68	.	.	7	33	21	18	1	35	0	0	2	0	68	12
05/22/91 N		101	.	11	8	.	.	.	.	.	.	.	.	.	.	.	40	.
05/23/91 N		.	.	0	.	.	0	1	2	4	0	1	7	1	2	11	0	3
05/24/91 N		17	.	2	12	.	.	.	.	.	.	.	.	.	.	.	10	.
05/25/91 N		.	.	5	.	.	0	44	1	0	0	0	0	0	0	1	5	5
05/26/91 N		0	.	5	2	.	.	.	.	.	.	.	.	.	.	.	2	.
05/28/91 N		.	.	0	.	.	1	0	3	0	0	0	0	0	5	2	0	1
05/30/91 N		1	.	3	0	.	.	.	.	.	.	.	.	.	.	.	1	.
06/01/91 N		.	.	0	.	.	1	22	0	.	.	.	.	.	0	0	0	5
06/03/91 N		.	.	1	.	.	0	9	3	.	.	.	.	.	.	.	1	4
06/05/91 N		.	.	.	.	.	.	.	.	0	0	0	1	0	0	.	.	0
Ave. Density		71	.	10	32	.	1	18	5	4	0	7	2	0	2	3	38	4
Ave. Volume		55	.	47	48	.	46	45	42	45	46	46	46	45	46	45	50	45
n (efforts)		12	0	18	12	0	8	6	6	5	5	5	5	5	6	5	42	56

Table E-5.

Density of white perch eggs (number/100m³), by date, in the lower Roanoke River (Stations 1-12) for the period 1984-1991. Period N = Night.

Species = *Morone americanus*

Stage = 0

DATE	S T A T I O N													AVE.
	P	1	2	3	4	5	6	7	8	9	10	11	12	
05/18/84 N	.	.	.	.	.	12	1	4	0	0	1	1	0	2
05/22/84 N	7	23	33	13	5	1	26	0	0	24	0	6	12	
05/23/84 N	2	10	21	29	0	0	0	0	0	0	0	5	6	
05/25/84 N	0	0	2	0	0	0	0	0	0	0	0	0	0	
05/27/84 N	0	1	0	0	0	0	0	0	0	0	0	0	0	
05/29/84 N	0	0	0	0	0	0	0	0	0	0	0	0	0	
05/31/84 N	0	0	0	0	0	0	0	0	0	0	0	0	0	
06/02/84 N	0	0	0	0	0	0	0	0	0	0	0	0	0	
06/04/84 N	.	.	.	.	0	0	0	0	0	0	0	0	0	
06/08/84 N	.	.	.	.	0	0	0	0	0	0	0	0	0	
06/10/84 N	.	.	.	.	3	0	0	0	0	0	0	0	0	
06/14/84 N	.	.	.	.	.	.	.	0	0	0	0	0	0	
06/16/84 N	.	.	.	.	.	.	.	0	0	0	0	0	0	
06/18/84 N	.	.	.	.	.	.	.	0	0	0	0	0	0	
Ave. Density	1	5	8	6	2	0	3	0	0	2	0	1	2	
Ave. Volume	372	356	331	329	246	200	243	202	200	198	203	224	259	
n (efforts)	7	7	7	7	11	11	11	14	14	14	14	14	131	
04/26/85 N	.	.	.	.	.	0	0	0	0	0	0	0	0	
04/28/85 N	.	.	.	.	.	0	0	0	0	0	0	0	0	
04/30/85 N	.	.	.	.	.	0	0	0	0	0	0	0	0	
05/02/85 N	.	.	.	.	.	0	0	0	0	0	0	0	0	
05/04/85 N	0	0	0	0	0	0	0	0	0	0	0	0	0	
05/06/85 N	0	0	0	0	0	0	0	0	0	0	0	0	0	
05/08/85 N	1	1	0	0	0	0	0	0	0	0	0	0	0	
05/10/85 N	0	0	0	0	0	0	0	0	0	0	0	0	0	
05/12/85 N	1	0	0	0	0	0	0	0	0	0	0	0	0	
05/14/85 N	0	0	0	0	0	0	0	0	0	0	0	0	0	
05/16/85 N	0	0	0	0	0	0	0	0	0	0	0	0	0	
05/18/85 N	.	.	.	.	.	0	0	0	0	0	0	0	0	
05/20/85 N	.	.	.	.	0	0	0	0	0	0	0	0	0	
05/22/85 N	.	.	.	.	0	0	0	0	0	0	0	0	0	
05/24/85 N	.	.	.	.	0	0	0	0	0	0	0	0	0	
05/26/85 N	.	.	.	.	0	0	0	0	0	0	0	0	0	
05/29/85 N	.	.	.	.	0	0	0	0	0	0	0	0	0	
06/02/85 N	.	.	.	.	0	0	0	0	0	0	0	0	0	
06/06/85 N	.	.	.	.	0	0	0	0	0	0	0	0	0	
06/10/85 N	.	.	.	.	0	0	0	0	0	0	0	0	0	
Ave. Density	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ave. Volume	39	41	38	38	48	50	52	52	51	46	51	48	46	
n (efforts)	7	7	7	7	15	20	19	20	20	20	20	20	182	
05/01/86 N	23	3	0	0	0	0	0	0	0	0	0	0	2	
05/03/86 N	11	50	3	0	0	0	0	0	0	0	0	0	5	

Species = *Morone americanus*

Stage = 0

DATE	S T A T I O N													AVE.
	P	1	2	3	4	5	6	7	8	9	10	11	12	
05/05/86 N		18	8	6	0	1	0	0	0	0	0	0	0	3
05/07/86 N		9	18	3	0	0	0	0	0	0	0	0	0	2
05/09/86 N		5	8	0	0	0	0	0	0	0	0	0	0	1
05/11/86 N		4	0	0	0	0	0	0	0	0	0	0	0	0
05/13/86 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/86 N		2	1	0	0	0	0	0	0	0	0	0	0	0
05/17/86 N		5	7	2	0	1	0	0	0	0	0	0	0	1
05/19/86 N		0	2	1	0	0	0	0	0	0	0	0	0	0
05/21/86 N		1	0	0	0	0	0	0	0	0	0	0	0	0
05/23/86 N		.	.	.	.	0	0	0	0	0	0	0	0	0
05/25/86 N		.	.	.	.	0	0	0	0	0	0	0	0	0
05/27/86 N		.	.	.	.	0	0	0	0	0	0	0	0	0
05/31/86 N		.	.	.	.	0	0	0	0	0	0	0	0	0
06/04/86 N		.	.	.	.	0	0	0	0	0	0	0	0	0
06/08/86 N		.	.	.	.	0	0	0	0	0	0	0	0	0
Ave. Density		7	9	1	0	0	0	0	0	0	0	0	0	1
Ave. Volume		39	35	38	33	40	53	51	49	52	52	49	51	45
n (efforts)		11	11	11	11	17	17	17	17	17	17	17	17	180
04/14/88 N		9	6	.	0	.	0	0	0	.	0	.	.	2
04/21/88 N		8	12	.	0	.	0	0	0	.	0	.	.	3
04/28/88 N		39	6	.	0	.	0	0	0	.	0	.	.	6
05/05/88 N		37	2	.	0	.	.	.	.	.	.	.	.	13
05/08/88 N		39	11	8	1	0	0	0	0	0	0	0	0	5
05/11/88 N		48	4	2	0	0	0	0	.	0	0	.	0	5
05/12/88 N		20	4	1	0	0	0	0	0	0	0	0	0	2
05/14/88 N		28	4	0	1	0	0	45	0	0	0	0	0	7
05/16/88 N		6	0	0	.	.	0	0	.	.	0	.	.	1
05/18/88 N		0	2	1	0	0	0	0	0	0	0	0	0	0
05/20/88 N		3	0	1	0	0	1	1	0	0	0	0	0	1
05/22/88 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/24/88 N		0	.	.	.	.	.	.	.	.	0	.	0	0
05/26/88 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/28/88 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/30/88 N		0	0	0	0	0	0	0	0	0	0	0	0	0
06/01/88 N		.	.	.	.	.	.	.	0	0	0	0	.	0
06/03/88 N		.	.	.	.	0	1	4	0	0	0	0	0	1
06/05/88 N		.	.	.	.	.	.	.	0	0	0	0	.	0
Ave. Density		15	3	1	0	0	0	3	0	0	0	0	0	2
Ave. Volume		41	43	42	42	43	39	39	39	39	38	41	37	40
n (efforts)		16	15	11	14	11	15	15	15	13	18	12	12	167
04/21/89 N		0	.	.	5	.	.	.	.	.	.	.	.	3
04/28/89 N		3	.	.	1	.	0	0	0	.	0	.	.	1

Species = *Morone americanus*

Stage = 0

S T A T I O N														
DATE	P	1	2	3	4	5	6	7	8	9	10	11	12	AVE.
05/03/89 N		11	7	5	0	0	0	0	0	0	0	0	0	2
05/05/89 N		2	4	4	0	0	0	0	0	0	0	.	.	1
05/07/89 N		5	7	2	0	0	0	0	0	0	0	0	0	1
05/09/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/89 N		0	0	0	0	0	.	.	.	.	.	.	.	0
05/16/89 N		.	.	.	.	.	0	0	0	0	0	0	0	0
05/18/89 N		0	0	0	0	0	0	0	0	0	0	0	1	0
05/21/89 N		0	1	2	0	0	0	0	0	0	0	0	0	0
05/23/89 N		0	1	2	.	.	.	.	.	.	.	.	.	1
05/24/89 N		.	.	.	.	.	0	0	0	0	0	0	0	0
05/25/89 N		0	0	1	3	0	0	0	0	0	0	0	0	0
05/27/89 N		1	1	0	0	0	0	0	0	0	0	0	0	0
05/29/89 N		1	0	0	1	0	0	0	0	0	0	0	0	0
05/31/89 N		0	0	0	0	0	2	0	0	0	0	0	0	0
06/02/89 N		11	0	0	0	0	0	0	0	0	0	0	0	1
06/04/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
06/06/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
06/08/89 N		.	.	.	.	0	0	0	0	0	0	0	0	0
06/12/89 N		.	.	.	.	0	0	0	0	0	0	.	.	0
Ave. Density		2	1	1	1	0	0	0	0	0	0	0	0	0
Ave. Volume		45	45	43	46	46	48	49	47	48	46	47	47	46
n (efforts)		17	15	15	16	16	18	18	18	17	18	15	15	198
04/18/90 N		.	.	.	.	.	.	.	0	4	0	.	.	1
04/27/90 N		.	.	.	.	.	.	.	0	0	1	.	.	0
05/01/90 N		0	0	0	.	.	.	.	.	.	0	0	0	0
05/04/90 N		4	0	0	0	0	0	0	0	0	0	0	0	0
05/07/90 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/11/90 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/13/90 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/90 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/18/90 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/21/90 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/24/90 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/27/90 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/30/90 N		.	.	.	.	0	0	0	0	0	0	0	0	0
06/02/90 N		.	.	.	.	.	0	0	0	0	0	0	0	0
06/04/90 N		.	.	.	.	.	0	0	0	0	0	0	0	0
06/06/90 N		.	.	.	.	.	0	0	0	0	0	0	0	0
Ave. Density		0	0	0	0	0	0	0	0	0	0	0	0	0
Ave. Volume		47	45	44	48	48	41	42	43	43	42	43	44	44
n (efforts)		10	10	10	9	10	13	13	15	15	16	14	14	149
04/24/91 N		.	.	.	.	.	.	.	0	0	6	.	.	2

Species = *Morone americanus*

Stage = 0

S T A T I O N														
DATE	P	1	2	3	4	5	6	7	8	9	10	11	12	AVE.
05/02/91 N	.	.	.	.	.	.	2	0	0	0	0	0	0	0
05/07/91 N	0	1	3	0	0	0	0	0	0	0	0	0	0	0
05/10/91 N	1	4	0	0	0	0	0	0	0	0	0	0	0	0
05/13/91 N	0	0	1	0	0	0	0	0	0	0	0	0	0	0
05/16/91 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/18/91 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/20/91 N	0	0	0	0	0	0	0	2	0	0	0	0	0	0
05/22/91 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/24/91 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/26/91 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/30/91 N	.	.	.	.	.	.	0	0	0	0	0	0	0	0
Ave. Density	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Ave. Volume	46	47	44	45	47	47	47	46	930	46	47	49	46	120
n (efforts)	9	9	9	9	9	9	11	11	12	12	12	11	11	125

Table E-6.

Density of white perch eggs (number/100m³), by date, in Batchelor Bay
(Stations 13-16) and western Albemarle Sound (Stations 17-32)
for the period 1984-1991. Period N = Night.

Species = *Morone americanus*

Stage = 0

DATE	S T A T I O N																AVE1	AVE2
	P	13	14	15	16	17	18	20	21	22	23	24	26	28	31	32		
05/18/84 N		2	0	0	.	.	.	.	.	.	.	.	.	.	.	.	1	.
05/22/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/23/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/25/84 N		2	0	1	.	.	.	.	.	.	.	.	.	.	.	.	1	.
05/27/84 N		0	.	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/29/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/31/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/02/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/04/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/08/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/10/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/14/84 N		0	0	0	0	0	0	.	.	.	.	.	.	.	.	.	0	0
06/16/84 N		0	0	0	0	0	0	.	.	.	.	.	.	.	.	.	0	0
06/18/84 N		0	0	0	0	0	0	.	.	.	.	.	.	.	.	.	0	0
Ave. Density		0	0	0	0	0	0	.	.	.	.	.	.	.	.	.	0	0
Ave. Volume		189	192	196	185	200	189	.	.	.	.	.	.	.	.	.	190	194
n (efforts)		14	13	14	3	3	3	0	0	0	0	0	0	0	0	0	44	6
04/26/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
04/28/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
04/30/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/02/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/04/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/06/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/08/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/10/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/12/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/14/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/16/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/18/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/20/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/22/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/24/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/26/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/02/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/06/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/10/85 N		.	.	.	0	.	.	.	.	.	.	.	.	.	.	.	0	.
Ave. Density		0	0	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
Ave. Volume		52	57	54	52	.	.	.	.	.	.	.	.	.	.	.	54	.
n (efforts)		18	18	18	1	0	0	0	0	0	0	0	0	0	0	0	55	0
05/01/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/03/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/05/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.

Species = *Morone americanus*

Stage = 0

DATE	P	S T A T I O N															AVE1	AVE2
		13	14	15	16	17	18	20	21	22	23	24	26	28	31	32		
05/07/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/11/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/15/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/17/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/19/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/21/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/23/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/25/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/27/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/29/86 N		.	.	.	.	.	.	0	0	0	0	0	0	0	.	.	.	0
05/31/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/04/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/06/86 N		.	.	.	.	.	.	0	0	0	.	0	0	0	.	.	.	0
06/08/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/10/86 N		.	.	.	.	.	.	0	0	0	0	0	0	0	.	.	.	0
Ave. Density		0	0	0	.	.	.	0	0	0	0	0	0	0	.	.	0	0
Ave. Volume		52	51	51	.	.	.	50	52	53	48	52	51	55	.	.	51	52
n (efforts)		15	15	15	0	0	0	3	3	3	2	3	3	3	0	0	45	20
04/28/88 N		.	.	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/08/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/11/88 N		.	.	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/12/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/14/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/18/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/20/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/22/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/26/88 N		0	.	.	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/28/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/30/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/01/88 N		0	.	0	0	.	0	.	0	.	.	.	.	.	0	0	0	0
06/05/88 N		0	.	0	0	.	0	.	0	.	.	.	.	.	0	0	0	0
06/07/88 N		.	.	0	0	.	0	.	0	0	0	0	0	0	0	0	0	0
06/11/88 N		.	.	0	0	.	0	.	0	0	0	0	0	0	0	0	0	0
06/13/88 N		.	.	0	0	.	0	.	0	0	0	0	0	0	0	0	0	0
06/15/88 N		.	.	0	.	.	0	0	0	0	.	.	0	0	0	0	0	0
Ave. Density		0	.	0	0	.	0	0	0	0	0	0	0	0	0	0	0	0
Ave. Volume		40	.	40	42	.	40	48	34	39	40	40	38	37	39	41	41	40
n (efforts)		11	0	16	14	0	6	1	6	4	3	3	4	4	6	6	41	43
05/03/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/07/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/09/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/16/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.

Species = *Morone americanus*

Stage = 0

DATE	P	S T A T I O N															AVE1	AVE2
		13	14	15	16	17	18	20	21	22	23	24	26	28	31	32		
05/18/89 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/21/89 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/24/89 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/25/89 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/27/89 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/29/89 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/31/89 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/02/89 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/04/89 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/06/89 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/08/89 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/10/89 N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	.	0	0
06/14/89 N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0	0
06/16/89 N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0	0
06/18/89 N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0	0
Ave. Density	0	.	0	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0
Ave. Volume	173	.	50	50	.	49	54	48	46	50	49	45	50	48	42	91	48	48
n (efforts)	15	0	19	14	0	3	3	3	3	3	3	3	3	4	3	48	31	31
04/25/90 N	1	.	0	0	.	0	.	.	.	.	.	.	.	.	.	.	0	0
05/01/90 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/04/90 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/07/90 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/11/90 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/13/90 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/15/90 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/18/90 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/23/90 N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0	0
05/24/90 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/26/90 N	.	.	0	.	.	0	0	0	.	.	.	.	0	.	.	.	0	0
05/27/90 N	.	.	0	.	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/29/90 N	.	.	.	.	.	.	.	.	0	0	.	.	.	.	0	0	.	0
05/30/90 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/02/90 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/06/90 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/08/90 N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0	0	.	0
06/10/90 N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0	0
06/13/90 N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0	0
06/15/90 N	.	.	.	.	.	.	.	.	.	0	0	.	.	.	.	.	.	0
06/17/90 N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	.	0	0	0
Ave. Density	0	.	0	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0
Ave. Volume	46	.	48	48	.	48	48	49	46	46	46	46	47	46	46	47	47	47
n (efforts)	12	0	18	12	0	6	5	5	5	6	5	4	5	5	6	42	52	52

Species = *Morone americanus*

Stage = 0

DATE	P	S T A T I O N															AVE1	AVE2
		13	14	15	16	17	18	20	21	22	23	24	26	28	31	32		
04/17/91 N	0	.	0	0	.	0	.	.	.	.	.	.	.	.	.	.	0	0
04/30/91 N	0	.	0	0	.	0	.	.	.	.	.	.	.	.	.	.	0	0
05/02/91 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/07/91 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/10/91 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/13/91 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/16/91 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/20/91 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/21/91 N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0	0
05/22/91 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/23/91 N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0	0
05/24/91 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/25/91 N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0	0
05/26/91 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/28/91 N	.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0	0
05/30/91 N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/01/91 N	.	.	0	.	.	0	0	0	.	.	.	.	.	.	0	0	0	0
06/03/91 N	.	.	0	.	.	0	0	0	.	.	.	.	.	.	.	.	0	0
06/05/91 N	.	.	.	.	.	.	.	.	0	0	0	0	0	0	0	.	.	0
Ave. Density	0	.	0	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0
Ave. Volume	55	.	47	48	.	46	45	42	45	46	46	46	46	45	46	45	50	45
n (efforts)	12	0	18	12	0	8	6	6	5	5	5	5	5	5	6	5	42	56

Table E-7.

Density of white perch (*Morone americanus*) larvae (number/100m³), by date, in the lower Roanoke River (Stations 1-12) for the period 1984-1991. Period N = Night.

Species = *Morone americanus*

Stage = 1

DATE	STATION													AVE.
	P	1	2	3	4	5	6	7	8	9	10	11	12	
05/18/84 N	.	.	.	.	.	0	11	4	1	2	9	4	30	8
05/22/84 N	2	8	6	9	4	4	1	0	0	0	0	0	3	3
05/23/84 N	0	2	2	18	1	1	1	0	0	1	7	0	11	4
05/25/84 N	0	1	2	0	0	0	4	0	2	0	4	0	0	1
05/27/84 N	0	1	0	2	0	0	0	1	2	0	0	0	4	1
05/29/84 N	0	0	0	0	1	0	0	0	0	0	0	1	0	0
05/31/84 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/02/84 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/04/84 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
06/08/84 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
06/10/84 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
06/14/84 N	.	.	.	.	.	.	.	.	0	0	0	0	0	0
06/16/84 N	.	.	.	.	.	.	.	.	0	0	0	0	0	0
06/18/84 N	.	.	.	.	.	.	.	.	0	0	0	0	0	0
Ave. Density	0	2	1	4	1	1	1	1	0	0	1	0	3	1
Ave. Volume	372	356	331	329	246	200	243	202	200	198	203	224	259	
n (efforts)	7	7	7	7	11	11	11	14	14	14	14	14	131	
04/26/85 N	.	.	.	.	.	257	251	218	55	275	152	162	196	
04/28/85 N	.	.	.	.	.	167	69	69	188	147	201	215	151	
04/30/85 N	.	.	.	.	.	19	52	11	117	89	91	215	85	
05/02/85 N	.	.	.	.	.	87	48	12	73	582	78	107	141	
05/04/85 N	4	3	24	32	41	138	67	69	184	216	12	166	80	
05/06/85 N	1	1	11	5	8	18	20	64	47	0	82	10	22	
05/08/85 N	9	5	3	1	1	18	20	4	5	25	8	103	17	
05/10/85 N	0	2	0	2	1	7	8	3	14	3	1	0	3	
05/12/85 N	0	2	0	1	0	1	1	4	6	5	4	4	2	
05/14/85 N	0	0	0	0	0	0	0	0	0	0	2	1	0	
05/16/85 N	0	0	1	0	1	4	1	0	3	0	0	0	1	
05/18/85 N	.	.	.	.	.	16	4	0	0	1	1	0	3	
05/20/85 N	.	.	.	.	12	3	8	4	0	0	0	1	4	
05/22/85 N	.	.	.	.	4	14	6	0	1	0	0	2	3	
05/24/85 N	.	.	.	.	6	11	4	1	1	1	1	5	4	
05/26/85 N	.	.	.	.	3	2	0	0	0	0	1	1	1	
05/29/85 N	.	.	.	.	0	0	0	0	3	0	0	0	0	
06/02/85 N	.	.	.	.	0	0	0	0	0	0	0	0	0	
06/06/85 N	.	.	.	.	0	0	0	0	0	0	0	0	0	
06/10/85 N	.	.	.	.	0	0	0	0	0	0	0	0	0	
Ave. Density	2	2	6	6	5	38	29	23	35	67	32	50	25	
Ave. Volume	39	41	38	38	48	50	52	52	51	46	51	48	46	
n (efforts)	7	7	7	7	15	20	19	20	20	20	20	20	182	
05/01/86 N	33	13	2	8	17	22	38	39	58	5	45	28	26	
05/03/86 N	58	71	71	23	11	17	10	23	68	3	10	10	31	

Species = *Morone americanus*

Stage = 1

DATE	P	S T A T I O N												AVE.
		1	2	3	4	5	6	7	8	9	10	11	12	
05/05/86 N		123	71	56	15	8	87	77	5	151	9	23	19	54
05/07/86 N		116	75	82	44	27	107	28	4	28	12	31	23	48
05/09/86 N		109	87	90	25	16	31	38	7	4	21	9	52	41
05/11/86 N		66	46	27	45	42	16	3	0	12	8	4	12	23
05/13/86 N		36	19	20	12	16	72	21	19	94	36	27	81	38
05/15/86 N		4	5	7	4	5	24	11	16	41	5	5	2	11
05/17/86 N		0	4	2	4	0	4	6	0	14	7	3	8	4
05/19/86 N		7	1	3	18	3	4	17	0	10	6	1	1	6
05/21/86 N		3	2	6	0	0	0	12	2	4	2	5	1	3
05/23/86 N		.	.	.	.	0	4	1	0	2	6	0	0	2
05/25/86 N		.	.	.	.	0	3	1	0	4	4	0	2	2
05/27/86 N		.	.	.	.	0	4	3	1	4	1	0	1	2
05/31/86 N		.	.	.	.	5	5	1	0	2	0	0	0	2
06/04/86 N		.	.	.	.	1	0	0	1	1	0	0	0	0
06/08/86 N		.	.	.	.	0	0	0	0	0	0	0	0	0
Ave. Density		51	36	33	18	9	23	16	7	29	7	10	14	21
Ave. Volume		39	35	38	33	40	53	51	49	52	52	49	51	45
n (efforts)		11	11	11	11	17	17	17	17	17	17	17	17	180
04/14/88 N		0	0	.	6	.	10	6	0	.	9	.	.	5
04/21/88 N		2	5	.	2	.	0	5	2	.	1	.	.	3
04/28/88 N		17	19	.	15	.	14	33	8	.	6	.	.	16
05/05/88 N		36	8	.	2	.	.	.	.	.	.	.	.	15
05/08/88 N		17	29	8	9	0	2	8	0	3	2	4	7	7
05/11/88 N		60	30	13	16	11	24	10	.	16	3	.	0	18
05/12/88 N		52	21	23	14	2	3	7	1	34	15	3	0	15
05/14/88 N		19	40	24	14	7	46	29	3	47	19	35	1	24
05/16/88 N		22	18	12	.	.	66	14	.	.	22	.	.	26
05/18/88 N		9	6	15	9	4	49	25	10	28	3	6	7	14
05/20/88 N		6	7	14	1	1	11	6	8	17	3	9	5	7
05/22/88 N		4	11	4	1	2	13	4	3	1	3	16	8	6
05/24/88 N		2	.	.	.	.	.	.	.	.	0	.	0	1
05/26/88 N		3	2	3	0	1	3	4	0	7	2	3	0	2
05/28/88 N		1	0	0	0	1	0	0	0	0	0	0	0	0
05/30/88 N		1	2	0	0	0	0	0	0	4	0	0	0	1
06/01/88 N		.	.	.	.	.	.	.	0	0	0	0	.	0
06/03/88 N		.	.	.	.	0	4	0	0	0	0	0	0	1
06/05/88 N		.	.	.	.	.	.	.	0	0	0	0	.	0
Ave. Density		16	13	10	6	3	16	10	2	12	5	6	2	9
Ave. Volume		41	43	42	42	43	39	39	39	39	38	41	37	40
n (efforts)		16	15	11	14	11	15	15	15	13	18	12	12	167
04/21/89 N		1	.	.	12	.	.	.	.	.	.	.	.	6
04/28/89 N		1	.	.	5	.	13	14	1	.	4	.	.	6

Species = *Morone americanus*

Stage = 1

DATE	S T A T I O N													AVE.
	P	1	2	3	4	5	6	7	8	9	10	11	12	
05/03/89 N		1	2	0	3	0	0	1	0	4	1	0	1	1
05/05/89 N		0	0	1	0	6	1	9	0	1	2	.	.	2
05/07/89 N		2	2	5	2	2	7	0	2	0	3	0	3	2
05/09/89 N		0	0	0	3	1	1	0	1	2	2	2	1	1
05/15/89 N		3	0	4	5	5	.	.	.	.	.	.	.	4
05/16/89 N		.	.	.	.	.	1	7	2	3	4	3	4	4
05/18/89 N		0	0	10	1	2	17	4	0	1	2	2	5	4
05/21/89 N		1	0	0	3	0	2	0	3	0	5	0	2	1
05/23/89 N		1	0	2	.	.	.	.	.	.	.	.	.	1
05/24/89 N		.	.	.	.	.	2	0	1	5	2	4	7	3
05/25/89 N		0	1	0	0	4	2	1	1	2	7	2	0	2
05/27/89 N		2	0	1	7	3	15	3	1	3	6	8	5	5
05/29/89 N		2	2	1	5	3	3	2	3	0	2	2	2	2
05/31/89 N		0	0	2	0	2	2	1	4	3	1	0	3	2
06/02/89 N		1	0	2	0	2	2	1	1	0	1	0	1	1
06/04/89 N		2	1	1	1	1	1	1	0	0	1	1	0	1
06/06/89 N		0	0	0	0	0	0	0	1	0	0	0	0	0
06/08/89 N		.	.	.	.	0	0	0	0	0	0	0	0	0
06/12/89 N		.	.	.	.	0	0	0	0	0	0	.	.	0
Ave. Density		1	1	2	3	2	4	3	1	1	3	2	2	2
Ave. Volume		45	45	43	46	46	48	49	47	48	46	47	47	46
n (efforts)		17	15	15	16	16	18	18	18	17	18	15	15	198
04/18/90 N		.	.	.	.	.	.	.	3	22	8	.	.	11
04/27/90 N		.	.	.	.	.	.	.	26	56	64	.	.	49
05/01/90 N		3	2	1	.	.	.	.	.	.	7	12	1	5
05/04/90 N		4	0	0	0	2	17	16	8	4	3	17	1	6
05/07/90 N		0	0	1	2	2	17	1	0	1	0	4	4	3
05/11/90 N		1	0	2	3	0	22	3	1	8	4	6	1	4
05/13/90 N		0	0	0	1	1	5	2	1	8	0	0	2	2
05/15/90 N		0	0	0	2	1	1	0	0	1	1	0	0	1
05/18/90 N		0	2	0	0	0	3	3	3	1	0	0	2	1
05/21/90 N		0	0	0	0	0	0	0	1	1	0	0	0	0
05/24/90 N		0	0	0	0	0	1	0	1	1	0	0	0	0
05/27/90 N		0	0	0	0	0	1	0	0	0	0	0	0	0
05/30/90 N		.	.	.	.	0	0	0	0	0	0	0	0	0
06/02/90 N		.	.	.	.	.	0	0	0	0	1	0	0	0
06/04/90 N		.	.	.	.	.	3	0	0	0	0	0	0	0
06/06/90 N		.	.	.	.	.	0	1	0	0	0	0	0	0
Ave. Density		1	0	0	1	1	5	2	3	7	5	3	1	2
Ave. Volume		47	45	44	48	48	41	42	43	43	42	43	44	44
n (efforts)		10	10	10	9	10	13	13	15	15	16	14	14	149
04/24/91 N		.	.	.	.	.	.	.	1	7	5	.	.	4

Species = *Morone americanus*

Stage = 1

S T A T I O N														
DATE	P	1	2	3	4	5	6	7	8	9	10	11	12	AVE.
05/02/91 N	.	.	.	.	.	.	16	18	4	13	20	6	5	12
05/07/91 N	0	2	1	2	2	2	0	0	2	5	0	0	3	1
05/10/91 N	4	4	1	8	0	2	2	4	1	2	0	1	0	2
05/13/91 N	0	6	1	1	5	1	1	1	0	1	0	2	0	2
05/16/91 N	3	0	2	0	1	1	1	0	3	1	1	0	0	1
05/18/91 N	1	0	0	1	0	0	2	0	12	3	0	10	5	3
05/20/91 N	0	1	1	0	0	0	1	0	0	2	0	2	1	1
05/22/91 N	0	0	1	0	0	0	2	0	0	0	0	0	0	0
05/24/91 N	0	0	0	0	0	1	0	0	0	1	0	0	0	0
05/26/91 N	0	0	0	0	0	1	0	0	0	0	0	1	0	0
05/30/91 N	.	.	.	.	.	.	0	0	0	0	0	0	0	0
Ave.Density	1	2	1	1	1	1	2	2	2	3	2	2	1	2
Ave.Volume	46	47	44	45	47	47	47	46	930	46	47	49	46	120
n (efforts)	9	9	9	9	9	9	11	11	12	12	12	11	11	125

Table E-8.

Density of white perch (*Morone americanus*) larvae (number/100m³), by date,
in Batchelor Bay (Stations 13-16) and western Albemarle Sound (Stations 17-32)
for the period 1984-1991. Period N = Night.

Species = *Morone americanus*

Stage = 1

DATE	S T A T I O N																AVE1	AVE2
	P	13	14	15	16	17	18	20	21	22	23	24	26	28	31	32		
05/18/84 N		5	5	2	.	.	.	.	.	.	.	.	.	.	.	.	4	.
05/22/84 N		0	2	0	.	.	.	.	.	.	.	.	.	.	.	.	1	.
05/23/84 N		0	10	1	.	.	.	.	.	.	.	.	.	.	.	.	4	.
05/25/84 N		2	1	0	.	.	.	.	.	.	.	.	.	.	.	.	1	.
05/27/84 N		0	.	3	.	.	.	.	.	.	.	.	.	.	.	.	2	.
05/29/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/31/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/02/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/04/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/08/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/10/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/14/84 N		0	0	0	0	0	0	.	.	.	.	.	.	.	.	.	0	0
06/16/84 N		0	0	0	1	0	0	.	.	.	.	.	.	.	.	.	0	0
06/18/84 N		0	0	0	0	0	0	.	.	.	.	.	.	.	.	.	0	0
Ave. Density		0	1	0	0	0	0	.	.	.	.	.	.	.	.	.	1	0
Ave. Volume		189	192	196	185	200	189	.	.	.	.	.	.	.	.	.	190	194
n (efforts)		14	13	14	3	3	3	0	0	0	0	0	0	0	0	0	44	6
04/26/85 N		254	50	26	.	.	.	.	.	.	.	.	.	.	.	.	110	.
04/28/85 N		491	0	258	.	.	.	.	.	.	.	.	.	.	.	.	250	.
04/30/85 N		87	12	83	.	.	.	.	.	.	.	.	.	.	.	.	61	.
05/02/85 N		54	4	12	.	.	.	.	.	.	.	.	.	.	.	.	23	.
05/04/85 N		4	53	22	.	.	.	.	.	.	.	.	.	.	.	.	26	.
05/06/85 N		3	1	0	.	.	.	.	.	.	.	.	.	.	.	.	1	.
05/08/85 N		70	1	9	.	.	.	.	.	.	.	.	.	.	.	.	26	.
05/10/85 N		3	3	10	.	.	.	.	.	.	.	.	.	.	.	.	5	.
05/12/85 N		0	1	12	.	.	.	.	.	.	.	.	.	.	.	.	4	.
05/14/85 N		0	0	1	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/16/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/18/85 N		1	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/20/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/22/85 N		0	0	2	.	.	.	.	.	.	.	.	.	.	.	.	1	.
05/24/85 N		0	0	1	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/26/85 N		2	0	0	.	.	.	.	.	.	.	.	.	.	.	.	1	.
06/02/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/06/85 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/10/85 N		.	.	.	0	.	.	.	.	.	.	.	.	.	.	.	0	.
Ave. Density		54	7	24	0	.	.	.	.	.	.	.	.	.	.	.	21	.
Ave. Volume		52	57	54	52	.	.	.	.	.	.	.	.	.	.	.	54	.
n (efforts)		18	18	18	1	0	0	0	0	0	0	0	0	0	0	0	55	0
05/01/86 N		9	15	9	.	.	.	.	.	.	.	.	.	.	.	.	11	.
05/03/86 N		12	15	52	.	.	.	.	.	.	.	.	.	.	.	.	26	.
05/05/86 N		21	7	45	.	.	.	.	.	.	.	.	.	.	.	.	24	.

Species = *Morone americanus*

Stage = 1

DATE	P	S T A T I O N															AVE1	AVE2
		13	14	15	16	17	18	20	21	22	23	24	26	28	31	32		
05/07/86	N	61	23	29	.	.	.	.	.	.	.	.	.	.	.	.	38	.
05/11/86	N	21	9	0	.	.	.	.	.	.	.	.	.	.	.	.	10	.
05/15/86	N	8	1	6	.	.	.	.	.	.	.	.	.	.	.	.	5	.
05/17/86	N	8	1	0	.	.	.	.	.	.	.	.	.	.	.	.	3	.
05/19/86	N	1	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/21/86	N	4	0	0	.	.	.	.	.	.	.	.	.	.	.	.	1	.
05/23/86	N	1	1	0	.	.	.	.	.	.	.	.	.	.	.	.	1	.
05/25/86	N	1	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/27/86	N	0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/29/86	N	.	.	.	.	.	.	1	2	0	0	0	0	0	.	.	.	0
05/31/86	N	0	2	0	.	.	.	.	.	.	.	.	.	.	.	.	1	.
06/04/86	N	0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/06/86	N	.	.	.	.	.	.	0	0	0	.	0	0	0	.	.	.	0
06/08/86	N	0	0	1	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/10/86	N	.	.	.	.	.	.	0	0	0	0	0	0	0	.	.	.	0
Ave. Density		10	5	9	.	.	.	0	1	0	0	0	0	0	.	.	8	0
Ave. Volume		52	51	51	.	.	.	50	52	53	48	52	51	55	.	.	51	52
n (efforts)		15	15	15	0	0	0	3	3	3	2	3	3	3	0	0	45	20
04/28/88	N	.	.	5	.	.	.	.	.	.	.	.	.	.	.	.	5	.
05/08/88	N	9	.	3	1	.	.	.	.	.	.	.	.	.	.	.	4	.
05/11/88	N	.	.	21	.	.	.	.	.	.	.	.	.	.	.	.	21	.
05/12/88	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/14/88	N	0	.	0	2	.	.	.	.	.	.	.	.	.	.	.	1	.
05/18/88	N	0	.	0	21	.	.	.	.	.	.	.	.	.	.	.	7	.
05/20/88	N	11	.	0	7	.	.	.	.	.	.	.	.	.	.	.	6	.
05/22/88	N	13	.	2	0	.	.	.	.	.	.	.	.	.	.	.	5	.
05/26/88	N	0	.	.	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/28/88	N	0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/30/88	N	3	.	3	1	.	.	.	.	.	.	.	.	.	.	.	2	.
06/01/88	N	0	.	0	0	.	0	.	0	.	.	.	.	.	0	4	0	1
06/05/88	N	0	.	0	0	.	0	.	0	.	.	.	.	.	1	0	0	0
06/07/88	N	.	.	0	0	.	0	.	0	0	0	4	0	0	0	0	0	0
06/11/88	N	.	.	0	0	.	0	.	0	0	0	0	0	0	0	0	0	0
06/13/88	N	.	.	1	0	.	0	.	0	0	0	1	0	1	0	0	1	0
06/15/88	N	.	.	0	.	.	0	0	0	0	.	.	0	1	0	0	0	0
Ave. Density		3	.	2	2	.	0	0	0	0	0	2	0	1	0	1	3	0
Ave. Volume		40	.	40	42	.	40	48	34	39	40	40	38	37	39	41	41	40
n (efforts)		11	0	16	14	0	6	1	6	4	3	3	4	4	6	6	41	43
05/03/89	N	1	.	0	1	.	.	.	.	.	.	.	.	.	.	.	1	.
05/07/89	N	2	.	0	5	.	.	.	.	.	.	.	.	.	.	.	2	.
05/09/89	N	2	.	0	0	.	.	.	.	.	.	.	.	.	.	.	1	.
05/16/89	N	0	.	3	1	.	.	.	.	.	.	.	.	.	.	.	1	.

Species = *Morone americanus*

Stage = 1

DATE	P	S T A T I O N															AVE1	AVE2
		13	14	15	16	17	18	20	21	22	23	24	26	28	31	32		
05/18/89 N		4	.	3	3	.	.	.	.	.	.	.	.	.	.	.	3	.
05/21/89 N		3	.	4	4	.	.	.	.	.	.	.	.	.	.	.	4	.
05/24/89 N		3	.	4	10	.	.	.	.	.	.	.	.	.	.	.	6	.
05/25/89 N		6	.	7	9	.	.	.	.	.	.	.	.	.	.	.	7	.
05/27/89 N		0	.	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/29/89 N		5	.	3	7	.	.	.	.	.	.	.	.	.	.	.	5	.
05/31/89 N		1	.	3	5	.	.	.	.	.	.	.	.	.	.	.	3	.
06/02/89 N		2	.	0	5	.	.	.	.	.	.	.	.	.	.	.	2	.
06/04/89 N		1	.	3	3	.	.	.	.	.	.	.	.	.	.	.	2	.
06/06/89 N		1	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/08/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/10/89 N		.	.	1	.	.	4	6	1	0	1	0	0	0	0	0	1	1
06/14/89 N		.	.	0	.	.	0	0	0	1	0	0	0	0	0	1	0	0
06/16/89 N		.	.	0	.	.	.	.	.	.	.	.	.	.	0	1	0	1
06/18/89 N		.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0
Ave. Density		2	.	2	4	.	1	2	0	0	0	0	0	0	0	1	2	1
Ave. Volume		173	.	50	50	.	49	54	48	46	50	49	45	50	48	42	91	48
n (efforts)		15	0	19	14	0	3	3	3	3	3	3	3	3	4	3	48	31
04/25/90 N		80	.	41	138	.	9	.	.	.	.	.	.	.	.	.	86	9
05/01/90 N		38	.	19	15	.	.	.	.	.	.	.	.	.	.	.	24	.
05/04/90 N		15	.	2	21	.	.	.	.	.	.	.	.	.	.	.	13	.
05/07/90 N		12	.	11	50	.	.	.	.	.	.	.	.	.	.	.	24	.
05/11/90 N		4	.	0	6	.	.	.	.	.	.	.	.	.	.	.	3	.
05/13/90 N		3	.	2	2	.	.	.	.	.	.	.	.	.	.	.	2	.
05/15/90 N		1	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/18/90 N		1	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/23/90 N		.	.	0	.	.	0	1	0	2	0	4	1	0	0	0	0	1
05/24/90 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/26/90 N		.	.	4	.	.	1	4	0	.	.	.	.	0	.	.	4	1
05/27/90 N		.	.	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/29/90 N		.	.	.	.	.	.	.	.	2	1	.	.	.	10	5	.	5
05/30/90 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/02/90 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/06/90 N		0	.	0	1	.	.	.	.	.	.	.	.	.	.	.	0	.
06/08/90 N		.	.	.	.	.	.	.	.	.	.	.	.	.	0	0	.	0
06/10/90 N		.	.	0	.	.	0	0	1	0	0	0	0	1	0	1	0	0
06/13/90 N		.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0
06/15/90 N		.	.	.	.	.	.	.	.	.	0	0	.	.	.	.	.	0
06/17/90 N		.	.	0	.	.	0	0	0	0	0	1	0	0	.	0	0	0
Ave. Density		13	.	4	19	.	2	1	0	1	0	1	0	0	2	1	12	1
Ave. Volume		46	.	48	48	.	48	48	49	46	46	46	46	47	46	46	47	47
n (efforts)		12	0	18	12	0	6	5	5	5	6	5	4	5	5	6	42	52

Species = *Morone americanus*

Stage = 1

DATE	S T A T I O N																AVE1	AVE2
	P	13	14	15	16	17	18	20	21	22	23	24	26	28	31	32		
04/17/91 N	1	.	.	0	1	.	1	.	.	.	.	.	.	.	.	.	1	1
04/30/91 N	9	.	.	0	0	.	0	.	.	.	.	.	.	.	.	.	3	0
05/02/91 N	7	.	.	1	2	.	.	.	.	.	.	.	.	.	.	.	3	.
05/07/91 N	1	.	.	0	2	.	.	.	.	.	.	.	.	.	.	.	1	.
05/10/91 N	0	.	.	2	6	.	.	.	.	.	.	.	.	.	.	.	3	.
05/13/91 N	1	.	.	11	4	.	.	.	.	.	.	.	.	.	.	.	6	.
05/16/91 N	3	.	.	0	1	.	.	.	.	.	.	.	.	.	.	.	1	.
05/20/91 N	2	.	.	0	3	.	.	.	.	.	.	.	.	.	.	.	2	.
05/21/91 N	.	.	.	4	.	.	0	0	8	5	7	5	0	0	0	0	4	3
05/22/91 N	2	.	.	0	2	.	.	.	.	.	.	.	.	.	.	.	1	.
05/23/91 N	.	.	.	1	.	.	1	0	5	1	0	2	1	5	5	1	1	2
05/24/91 N	0	.	.	1	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/25/91 N	.	.	.	1	.	.	5	6	5	0	1	0	3	1	1	1	1	2
05/26/91 N	0	.	.	1	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/28/91 N	.	.	.	0	.	.	0	0	0	0	0	0	0	0	4	0	0	0
05/30/91 N	0	.	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/01/91 N	.	.	.	0	.	.	0	0	1	.	.	.	.	.	0	0	0	0
06/03/91 N	.	.	.	0	.	.	0	0	0	.	.	.	.	.	.	.	0	0
06/05/91 N	.	.	.	.	.	.	.	.	.	0	0	0	0	0	0	.	.	0
Ave. Density	2	.	.	1	2	.	1	1	3	1	2	2	1	1	2	0	2	1
Ave. Volume	55	.	.	47	48	.	46	45	42	45	46	46	46	45	46	45	50	45
n (efforts)	12	0	0	18	12	0	8	6	6	5	5	5	5	5	6	5	42	56

Table E-9.

Density of undifferentiated *Morone* larvae (number/100m³), by date, in the lower Roanoke River (Stations 1-12) for the period 1984-1991. Period N = Night.

Species = Morone species

Stage = 1

DATE	STATION													AVE.
	P	1	2	3	4	5	6	7	8	9	10	11	12	
05/18/84 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
05/22/84 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/23/84 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/25/84 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/27/84 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/29/84 N	0	0	0	0	0	0	0	0	0	0	0	5	0	0
05/31/84 N	0	0	0	0	0	0	10	0	3	0	4	0	4	2
06/02/84 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/04/84 N	.	.	.	.	.	0	0	0	0	0	0	0	0	0
06/08/84 N	.	.	.	.	.	0	0	1	2	0	0	1	2	1
06/10/84 N	.	.	.	.	.	0	0	0	0	0	0	1	0	0
06/14/84 N	.	.	.	.	.	.	.	.	0	0	0	0	1	0
06/16/84 N	.	.	.	.	.	.	.	.	0	0	0	0	0	0
06/18/84 N	.	.	.	.	.	.	.	.	0	0	0	0	0	0
Ave. Density	0	0	0	0	0	0	1	0	0	0	0	1	0	0
Ave. Volume	372	356	331	329	246	200	243	202	200	198	203	224	259	
n (efforts)	7	7	7	7	11	11	11	14	14	14	14	14	131	
04/26/85 N	.	.	.	.	.	.	0	0	0	0	0	0	0	0
04/28/85 N	.	.	.	.	.	.	5	5	7	3	0	4	4	4
04/30/85 N	.	.	.	.	.	.	3	3	1	10	19	4	64	15
05/02/85 N	.	.	.	.	.	.	3	8	1	0	25	9	1	7
05/04/85 N	0	0	0	1	2	28	0	41	33	17	23	19	14	14
05/06/85 N	0	0	4	1	97	2	6	91	13	3	36	9	22	22
05/08/85 N	0	0	6	0	14	18	57	12	2	0	18	0	11	11
05/10/85 N	0	0	0	6	7	16	103	51	23	0	2	1	17	17
05/12/85 N	0	0	0	2	25	23	58	40	160	0	28	2	28	28
05/14/85 N	0	0	0	0	0	29	11	61	83	0	9	0	16	16
05/16/85 N	0	0	0	0	9	94	.	0	14	17	8	4	13	13
05/18/85 N	.	.	.	.	.	14	31	0	26	0	1	8	11	11
05/20/85 N	.	.	.	.	55	10	12	16	0	4	2	13	14	14
05/22/85 N	.	.	.	.	40	0	58	11	3	0	30	0	18	18
05/24/85 N	.	.	.	.	5	5	1	1	2	0	4	114	17	17
05/26/85 N	.	.	.	.	34	6	18	14	5	0	8	0	11	11
05/29/85 N	.	.	.	.	4	13	2	2	12	1	1	2	5	5
06/02/85 N	.	.	.	.	10	27	3	6	3	10	1	14	9	9
06/06/85 N	.	.	.	.	12	9	10	0	9	0	0	4	6	6
06/10/85 N	.	.	.	.	3	3	3	1	0	0	0	2	2	2
Ave. Density	0	0	1	1	21	16	20	18	20	5	9	13	10	10
Ave. Volume	39	41	38	38	48	50	52	52	51	46	51	48	46	46
n (efforts)	7	7	7	7	15	20	19	20	20	20	20	20	182	
05/01/86 N	0	0	0	0	0	0	0	1	0	0	2	0	0	0
05/03/86 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species = Morone species

Stage = 1

DATE	S T A T I O N													AVE.
	P	1	2	3	4	5	6	7	8	9	10	11	12	
05/05/86 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/07/86 N		0	0	0	0	0	0	0	0	4	0	0	0	0
05/09/86 N		0	0	0	0	0	0	0	7	0	0	0	0	1
05/11/86 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/13/86 N		0	0	0	0	0	0	0	1	0	0	0	0	0
05/15/86 N		0	0	0	0	0	0	0	1	0	0	0	0	0
05/17/86 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/19/86 N		0	0	0	0	0	0	0	0	0	0	0	3	0
05/21/86 N		0	0	0	0	0	0	0	1	0	0	0	1	0
05/23/86 N		.	.	.	.	0	0	0	3	0	0	0	0	0
05/25/86 N		.	.	.	.	0	0	0	0	1	0	0	0	0
05/27/86 N		.	.	.	.	0	0	0	0	0	0	0	0	0
05/31/86 N		.	.	.	.	1	0	0	0	0	0	0	0	0
06/04/86 N		.	.	.	.	0	0	0	0	2	0	0	2	0
06/08/86 N		.	.	.	.	0	4	4	2	0	5	0	0	2
Ave. Density		0	0	0	0	0	0	0	1	0	0	0	0	0
Ave. Volume		39	35	38	33	40	53	51	49	52	52	49	51	45
n (efforts)		11	11	11	11	17	17	17	17	17	17	17	17	180
04/14/88 N		0	0	.	0	.	0	0	0	.	0	.	.	0
04/21/88 N		0	0	.	0	.	0	0	0	.	0	.	.	0
04/28/88 N		0	0	.	0	.	0	0	0	.	0	.	.	0
05/05/88 N		0	0	.	0	.	.	.	.	.	.	.	.	0
05/08/88 N		0	0	0	0	0	2	0	0	0	0	0	0	0
05/11/88 N		0	0	0	0	0	0	0	.	0	0	.	0	0
05/12/88 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/88 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/16/88 N		0	0	0	.	.	0	0	.	.	0	.	.	0
05/18/88 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/20/88 N		0	1	0	0	0	0	0	0	0	0	0	0	0
05/22/88 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/24/88 N		0	.	.	.	.	.	.	.	.	0	.	0	0
05/26/88 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/28/88 N		0	0	1	0	0	0	0	0	0	0	0	0	0
05/30/88 N		0	0	0	0	0	0	0	0	0	0	0	0	0
06/01/88 N		.	.	.	.	.	.	.	0	0	0	0	.	0
06/03/88 N		.	.	.	.	0	0	0	0	0	0	0	0	0
06/05/88 N		.	.	.	.	.	.	.	0	0	0	0	.	0
Ave. Density		0	0	0	0	0	0	0	0	0	0	0	0	0
Ave. Volume		41	43	42	42	43	39	39	39	39	38	41	37	40
n (efforts)		16	15	11	14	11	15	15	15	13	18	12	12	167
04/21/89 N		0	.	.	0	.	.	.	.	.	.	.	.	0
04/28/89 N		0	.	.	0	.	0	0	0	.	0	.	.	0

Species = Morone species

Stage = 1

DATE	STATION													AVE.
	P	1	2	3	4	5	6	7	8	9	10	11	12	
05/03/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/89 N		0	0	0	0	0	0	0	0	0	0	.	.	0
05/07/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/09/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/89 N		0	0	0	0	0	.	.	.	.	.	.	.	0
05/16/89 N		.	.	.	.	.	0	0	0	0	0	0	0	0
05/18/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/21/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/23/89 N		0	0	0	.	.	.	.	.	.	.	.	.	0
05/24/89 N		.	.	.	.	.	0	0	0	0	0	0	0	0
05/25/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/27/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/29/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/31/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
06/02/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
06/04/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
06/06/89 N		0	0	0	0	0	0	0	0	0	0	0	0	0
06/08/89 N		.	.	.	.	0	0	0	0	0	0	0	0	0
06/12/89 N		.	.	.	.	0	0	0	0	0	0	.	.	0
Ave. Density		0	0	0	0	0	0	0	0	0	0	0	0	0
Ave. Volume		45	45	43	46	46	48	49	47	48	46	47	47	46
n (efforts)		17	15	15	16	16	18	18	18	17	18	15	15	198
04/18/90 N		.	.	.	.	.	.	.	0	0	0	.	.	0
04/27/90 N		.	.	.	.	.	.	.	0	0	0	.	.	0
05/01/90 N		0	0	0	.	.	.	.	.	.	0	0	0	0
05/04/90 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/07/90 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/11/90 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/13/90 N		0	0	0	0	0	0	0	0	0	0	3	0	0
05/15/90 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/18/90 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/21/90 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/24/90 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/27/90 N		0	0	0	0	0	0	0	0	0	0	0	0	0
05/30/90 N		.	.	.	.	0	0	0	0	0	0	0	0	0
06/02/90 N		.	.	.	.	.	0	0	0	0	0	0	0	0
06/04/90 N		.	.	.	.	.	0	0	0	0	0	0	0	0
06/06/90 N		.	.	.	.	.	0	0	0	0	0	0	0	0
Ave. Density		0	0	0	0	0	0	0	0	0	0	0	0	0
Ave. Volume		47	45	44	48	48	41	42	43	43	42	43	44	44
n (efforts)		10	10	10	9	10	13	13	15	15	16	14	14	149
04/24/91 N		.	.	.	.	.	.	.	0	0	0	.	.	0

Species = Morone species

Stage = 1

DATE	S T A T I O N													AVE.
	P	1	2	3	4	5	6	7	8	9	10	11	12	
05/02/91 N	.	.	.	.	.	.	0	0	0	0	0	0	0	0
05/07/91 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/10/91 N	0	0	0	0	0	0	0	0	0	0	0	3	0	0
05/13/91 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/16/91 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/18/91 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/20/91 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/22/91 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/24/91 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/26/91 N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/30/91 N	.	.	.	.	.	.	0	0	0	0	0	0	0	0
Ave. Density	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ave. Volume	46	47	44	45	47	47	47	46	930	46	47	49	46	120
n (efforts)	9	9	9	9	9	9	11	11	12	12	12	11	11	125

Table E-10.

Density of undifferentiated *Morone* larvae (number/100m³), by date,
in Batchelor Bay and western Albemarle Sound (Stations 17-32)
for the period 1984-1991. Period N = Night.

Species = Morone species

Stage = 1

DATE	S T A T I O N																AVE1	AVE2
	P	13	14	15	16	17	18	20	21	22	23	24	26	28	31	32		
05/18/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/22/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/23/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/25/84 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/27/84 N		0	.	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/29/84 N	15	0	1	.	.	.	.	.	.	.	.	.	.	.	.	.	5	.
05/31/84 N	2	4	0	.	.	.	.	.	.	.	.	.	.	.	.	.	2	.
06/02/84 N	0	0	1	.	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/04/84 N	0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/08/84 N	1	0	0	.	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/10/84 N	0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/14/84 N	0	0	0	0	0	0	.	.	.	.	.	.	.	.	.	.	0	0
06/16/84 N	0	0	1	0	0	0	.	.	.	.	.	.	.	.	.	.	0	0
06/18/84 N	0	0	0	0	0	0	.	.	.	.	.	.	.	.	.	.	0	0
Ave.Density	1	0	0	0	0	0	.	.	.	.	.	.	.	.	.	.	0	0
Ave.Volume	189	192	196	185	200	189	.	.	.	.	.	.	.	.	.	.	190	194
n (efforts)	14	13	14	3	3	3	0	0	0	0	0	0	0	0	0	0	44	6
04/26/85 N	0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	.	0	.
04/28/85 N	41	5	9	.	.	.	.	.	.	.	.	.	.	.	.	.	18	.
04/30/85 N	17	3	14	.	.	.	.	.	.	.	.	.	.	.	.	.	11	.
05/02/85 N	0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/04/85 N	8	0	0	.	.	.	.	.	.	.	.	.	.	.	.	.	3	.
05/06/85 N	5	3	3	.	.	.	.	.	.	.	.	.	.	.	.	.	4	.
05/08/85 N	31	0	0	.	.	.	.	.	.	.	.	.	.	.	.	.	10	.
05/10/85 N	15	3	0	.	.	.	.	.	.	.	.	.	.	.	.	.	6	.
05/12/85 N	27	7	13	.	.	.	.	.	.	.	.	.	.	.	.	.	16	.
05/14/85 N	51	1	0	.	.	.	.	.	.	.	.	.	.	.	.	.	17	.
05/16/85 N	4	4	7	.	.	.	.	.	.	.	.	.	.	.	.	.	5	.
05/18/85 N	2	0	1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.
05/20/85 N	2	0	44	.	.	.	.	.	.	.	.	.	.	.	.	.	16	.
05/22/85 N	1	0	2	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.
05/24/85 N	4	0	7	.	.	.	.	.	.	.	.	.	.	.	.	.	3	.
05/26/85 N	0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/02/85 N	11	8	0	.	.	.	.	.	.	.	.	.	.	.	.	.	6	.
06/06/85 N	1	0	0	.	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/10/85 N	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	1	.
Ave.Density	12	2	6	1	.	.	.	.	.	.	.	.	.	.	.	.	5	.
Ave.Volume	52	57	54	52	.	.	.	.	.	.	.	.	.	.	.	.	54	.
n (efforts)	18	18	18	1	0	0	0	0	0	0	0	0	0	0	0	0	55	0
05/01/86 N	0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/03/86 N	0	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.
05/05/86 N	0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	.	0	.

Species = Morone species

Stage = 1

DATE	S T A T I O N																AVE1	AVE2
	P	13	14	15	16	17	18	20	21	22	23	24	26	28	31	32		
05/07/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/11/86 N		2	0	0	.	.	.	.	.	.	.	.	.	.	.	.	1	.
05/15/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/17/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/19/86 N		0	0	1	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/21/86 N		2	0	0	.	.	.	.	.	.	.	.	.	.	.	.	1	.
05/23/86 N		1	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/25/86 N		0	3	0	.	.	.	.	.	.	.	.	.	.	.	.	1	.
05/27/86 N		0	0	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/29/86 N		.	.	.	.	.	.	0	0	0	0	1	0	0	.	.	.	0
05/31/86 N		0	1	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/04/86 N		0	0	1	.	.	.	.	.	.	.	.	.	.	.	.	0	.
06/06/86 N		.	.	.	.	.	.	1	0	0	.	0	0	0	.	.	.	0
06/08/86 N		1	0	2	.	.	.	.	.	.	.	.	.	.	.	.	1	.
06/10/86 N		.	.	.	.	.	.	0	0	0	0	0	0	0	.	.	.	0
Ave. Density		0	0	0	.	.	.	0	0	0	0	0	0	0	.	.	0	0
Ave. Volume		52	51	51	.	.	.	50	52	53	48	52	51	55	.	.	51	52
n (efforts)		15	15	15	0	0	0	3	3	3	2	3	3	3	0	0	45	20
04/28/88 N		.	.	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/08/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/11/88 N		.	.	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/12/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/14/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/18/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/20/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/22/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/26/88 N		0	.	.	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/28/88 N		0	.	3	0	.	.	.	.	.	.	.	.	.	.	.	1	.
05/30/88 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/01/88 N		0	.	0	0	.	3	.	13	.	.	.	.	.	14	11	0	10
06/05/88 N		0	.	0	1	.	4	.	2	.	.	.	.	.	5	0	0	3
06/07/88 N		.	.	3	0	.	12	.	14	7	4	1	5	3	0	0	1	5
06/11/88 N		.	.	0	0	.	1	.	8	1	3	4	2	3	0	4	0	3
06/13/88 N		.	.	0	0	.	1	.	1	1	0	0	1	2	2	0	0	1
06/15/88 N		.	.	1	.	.	0	0	2	0	.	.	1	0	0	0	1	0
Ave. Density		0	.	0	0	.	3	0	7	2	2	2	2	2	3	2	0	3
Ave. Volume		40	.	40	42	.	40	48	34	39	40	40	38	37	39	41	41	40
n (efforts)		11	0	16	14	0	6	1	6	4	3	3	4	4	6	6	41	43
05/03/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/07/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/09/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/16/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.

Species = Morone species

Stage = 1

S T A T I O N																		
DATE	P	13	14	15	16	17	18	20	21	22	23	24	26	28	31	32	AVE1	AVE2
05/18/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/21/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/24/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/25/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/27/89 N		0	.	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/29/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/31/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/02/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/04/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/06/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/08/89 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/10/89 N		.	.	0	.	.	0	3	2	1	0	0	0	0	1	.	0	1
06/14/89 N		.	.	1	.	.	1	0	1	0	0	0	3	2	4	2	1	1
06/16/89 N		.	.	0	.	.	.	.	.	.	.	.	.	.	3	10	0	6
06/18/89 N		.	.	0	.	.	0	0	0	1	0	0	1	0	0	7	0	1
Ave. Density		0	.	0	0	.	0	1	1	1	0	0	1	1	2	6	0	1
Ave. Volume	173	.	.	50	50	.	49	54	48	46	50	49	45	50	48	42	91	48
n (efforts)	15	0	0	19	14	0	3	3	3	3	3	3	3	3	4	3	48	31
04/25/90 N		0	.	0	0	.	0	.	.	.	.	.	.	.	.	.	0	0
05/01/90 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/04/90 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/07/90 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/11/90 N	4	.	.	0	0	.	.	.	.	.	.	.	.	.	.	.	1	.
05/13/90 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/15/90 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/18/90 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/23/90 N		.	.	0	.	.	0	0	0	2	0	0	0	0	0	0	0	0
05/24/90 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/26/90 N		.	.	0	.	.	0	0	0	.	.	.	.	0	.	.	0	0
05/27/90 N		.	.	0	.	.	.	.	.	.	.	.	.	.	.	.	0	.
05/29/90 N		.	.	.	.	.	.	.	.	0	0	.	.	.	0	0	.	0
05/30/90 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/02/90 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/06/90 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/08/90 N		.	.	.	.	.	.	.	.	.	.	.	.	.	0	0	.	0
06/10/90 N		.	.	0	.	.	0	0	0	0	0	0	0	0	0	0	0	0
06/13/90 N		.	.	0	.	.	0	0	0	0	0	0	1	0	2	0	0	0
06/15/90 N		.	.	.	.	.	.	.	.	.	0	0	.	.	.	.	.	0
06/17/90 N		.	.	0	.	.	0	0	0	0	0	0	0	0	.	0	0	0
Ave. Density		0	.	0	0	.	0	0	0	0	0	0	0	0	0	0	0	0
Ave. Volume	46	.	.	48	48	.	48	48	49	46	46	46	46	47	46	46	47	47
n (efforts)	12	0	0	18	12	0	6	5	5	5	6	5	4	5	5	6	42	52

Species = Morone species

Stage = 1

DATE	P	S T A T I O N															AVE1	AVE2
		13	14	15	16	17	18	20	21	22	23	24	26	28	31	32		
04/17/91 N		0	.	0	0	.	0	.	.	.	.	.	.	.	.	.	0	0
04/30/91 N		0	.	0	0	.	0	.	.	.	.	.	.	.	.	.	0	0
05/02/91 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/07/91 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/10/91 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/13/91 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/16/91 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/20/91 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/21/91 N		.	.	0	.	.	0	0	0	2	0	1	0	0	0	0	0	0
05/22/91 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/23/91 N		.	.	0	.	.	0	0	0	2	2	3	0	0	1	7	0	2
05/24/91 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/25/91 N		.	.	0	.	.	0	4	1	0	0	6	2	0	0	0	0	1
05/26/91 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
05/28/91 N		.	.	0	.	.	0	0	5	0	0	0	3	1	0	3	0	1
05/30/91 N		0	.	0	0	.	.	.	.	.	.	.	.	.	.	.	0	.
06/01/91 N		.	.	0	.	.	1	0	0	.	.	.	.	.	0	3	0	1
06/03/91 N		.	.	0	.	.	0	0	1	.	.	.	.	.	.	.	0	0
06/05/91 N		.	.	.	.	.	.	.	.	0	0	0	1	0	0	.	.	0
Ave. Density		0	.	0	0	.	0	1	1	1	0	2	1	0	0	3	0	1
Ave. Volume		55	.	47	48	.	46	45	42	45	46	46	46	45	46	45	50	45
n (efforts)		12	0	18	12	0	8	6	6	5	5	5	5	5	6	5	42	56