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1947

Weekly oyster spatfall on shellbags, 1947, in the James River seed area

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WEEKLY OYSTER SPATFALL ON SHELLBAGS, 1947

IN

THE JAMES RIVER SEED AREA

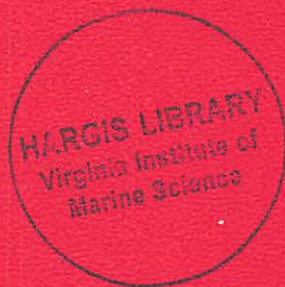
DATA SHEETS FOR

THREE STATIONS MONITORED WEEKLY

Nansemond Ridge (in Hampton Roads)

Wreck Shoal

Deep Water Shoal



JAY D. ANDREWS

VIRGINIA INSTITUTE OF MARINE SCIENCE

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JAMES RIVER SEED AREA

Weekly Spatfall in Quarter-Bushel Shellbags, 1947

Nansemond Ridge, Wreck Shoal, and Deep Water Shoal

(18 May to 8 November 194⁷)

Twenty clean (washed), unfouled, flat valves were paint marked, shaken in a washtub with filler shells to distribute evenly and poured into a one-inch mesh, chicken wire bag (2 ft. wide roll of wire made into shellbags 10 to 12 inches in diameter). These bags were laid flat on the bottom with a rope attached to a stake. Duplicate bags were exposed weekly in the early years.

The shell bags were exposed for 7 days usually, and after drying, spat were counted on the smooth inner face only. The shells were selected for uniformity of size at about 3 inches. These counted about 600 per bushel. To determine total counts per bushel for comparison with natural cultch, counts were doubled to get spatfall per shell and multiplied by 30 to approximate a bushel measure.

Newly-set barnacles were counted individually but bryozoans were counted by colonies which were small and discrete after only one week of exposure.

The sample numbers refer to brass tags on the shellbags for identity by stations.

The angle of shells to currents is randomized in shellbags, which accounts for wide variations in number of spat per shell.

Jay D. Andrews
J. D. Andrews

Weekly Spat Strike -- Nansmond Ridge - 1947.

(In Shellbags)

Dates set	Days set	Number of spat per bushel			Number of spat per shell	Spat per day per shell
		Station 1	Station 2	Average		
23 May - 30 May	7	0	0	0	0	0
30 May - 12 June	13	0	0	0	0	0
12 June - 19 June	7	0	0	0	0	0
19 June - 27 June	8	60	0	30	0	0
27 June - 3 July	6	0	0	0	0	0
3 July - 11 July	8	60	0	30	0	0
11 July - 18 July	7	480	240*	360	.60	.09
18 July - 25 July	7	900	480	690	1.15	.16
25 July - 31 July	6	1,560	720	1,140	1.90	.32
31 July - 8 Aug.	8	2,460	960	1,710	2.85	.36
8 Aug. - 15 Aug.	7	14,040	9,900	11,970	19.95	2.85
15 Aug. - 22 Aug.	7	17,520	23,160*	20,340	33.30	4.84
22 Aug. - 29 Aug.**	7	4,380	2,280	3,330	5.55	.79
29 Aug. - 4 Sept	6	13,140	11,160	12,150	20.25	3.37
4 Sept - 12 Sept	8	8,460	8,880	8,670	14.45	1.81
12 Sept - 19 Sept	7	5,040	7,560	6,300	10.50	1.50
19 Sept - 27 Sept	8	1,380	780*	1,080	1.80	.23
27 Sept - 2 Oct.	5	240	120	180	.30	.06
2 Oct. - 10 Oct.	14	60	180	120	.20	.014
10 Oct. - 24 Oct.	8	0*	0*	0	0	0
24 Oct. - 6 Nov.	13	0*	0*	0	0	0

*counted by Tresselt

** shells were muddied - see wreck shoal for this week. JDA

Spat Strike - Nansemond Ridge - 1947. *JAY DONALD ANDREWS*

Compilation of strike data to show accumulative potential set of spat after certain dates - based on counts of weekly spat strikes.

Week beginning	No. of setting days	Station 1	Station 2	Average	Number of spat per shell	Percentage of total set
11 July*	83	69,600	66,240	67,920	113.20	100.0 %
18 July	76	69,120	66,000	67,560	112.60	99.5 %
25 July	69	68,220	65,520	66,870	111.45	98.5 %
31 July	63	66,660	64,800	65,730	109.55	96.8 %
8 Aug.	55	64,200	63,840	64,020	106.70	94.3 %
15 Aug.	48	50,160	53,940	52,050	86.75	76.6 %
22 Aug.	41	32,640	30,780	31,710	52.85	46.7 %
29 Aug.	34	28,260	28,500	28,380	47.30	41.8 %
4 Sept	28	15,120	17,340	16,230	27.05	23.9 %
12 Sept	20	6,660	8,460	7,560	12.60	11.1 %
19 Sept	13	1,620	900	1,260	2.10	1.9 %
27 Sept	5	240	120	180	.30	.3 %
2 Oct.	0	0	0	0	0	0

*No spat were found on shells placed in the water prior to July 11, 1947.

Weekly Spat Strike -- Wreck Shoal - 1947.

(In Shellbags)

Dates set	Days set	Number of spat per bushel			Number of spat per shell	Spat per day per shell
		Station 3	Station 4	Average		
21 May-28 May	7	0	0	0	0	0
28 May-10 Jun	13	0	0	0	0	0
10 Jun-18 Jun	8	0	0	0	0	0
18 Jun-25 Jun	7	0	0	0	0	0
25 Jun-1 Jul	6	0	0	0	0	0
1 Jul-9 Jul	8	0	0	0	0	0
9 Jul-16 Jul	7	2,700	2,040	2,370	3.95	.56
16 Jul-23 Jul	7	1,080	1,800	1,440	2.40	.34
23 Jul-30 Jul	7	7,260*	4,680	5,970	9.95	1.42
30 Jul-6 Aug	7	7,560	10,500*	9,030	15.06	2.15
6 Aug-14 Aug	8	16,680	17,460*	17,070	28.45	3.56
14 Aug-21 Aug	7	54,020*	33,960	33,990	56.65	8.09
21 Aug-28 Aug	7	37,440	37,740*	37,590	62.65	8.95
28 Aug-5 Sept	6	44,880	27,660*	36,270	60.45	10.07
3 Sept-11 Sept	8	19,200*	33,300	26,250	43.75	5.47
11 Sept-18 Sept	7	15,060	6,540*	10,800	18.00	2.57
18 Sept-26 Sept	8	6,900	3,300*	5,100	8.50	1.06
26 Sept-2 Oct	6	2,160*	2,440	2,300	3.83	.64
2 Oct-9 Oct	7	120	0*	60	.1	.01
9 Oct-17 Oct	8	0	60*	30	0	0
17 Oct-23 Oct	6	0*	0*	0	0	0
23 Oct-6 Nov	14	0*	0*	0	0	0

*counted by Tresselt.

Spat Strike - Wreck Shoal - 1947.

JAY DONALD ANDREWS

Compilation of strike data to show accumulative potential set of spat after certain dates - based on counts of weekly spat strikes.

Week beginning	No. of setting days	Number of spat per bushel			Number of spat per shell	Percentage of total set
		Station 3	Station 4	Average		
9 Jul.*	85	195,140	181,420	188,280	313.81	100.0 %
16 Jul..	78	192,440	179,380	185,910	309.86	98.7 %
23 Jul.	71	191,160	177,580	184,370	307.29	97.8 %
30 Jul.	64	183,900	172,900	178,400	297.34	94.8 %
6 Aug.	57	176,340	162,400	169,370	282.28	90.0 %
14 Aug.	49	159,660	144,940	152,300	253.83	80.9 %
21 Aug.	42	125,640	110,980	118,310	197.18	62.8 %
28 Aug.	35	88,200	73,240	80,720	134.53	42.9 %
3 Sept.	29	43,320	45,580	44,450	74.08	23.6 %
11 Sept.	21	24,120	12,280	18,200	30.33	9.7 %
18 Sept.	14	9,060	5,740	7,400	12.33	3.9 %
26 Sept.	6	2,160	2,440	2,300	3.83	1.2 %
2 Oct.	0	0	0	0	0	0

*No spat were found on shells placed in the water prior to July 9, 1947.

This table shows about 5% of the potential strike set in July, 70% in August, and 25% in September. Unless there was a highly favorable survival rate for the July set (the reverse appears to be true) it seems that the July set was a negligible factor in the 1947 strike. Eighty percent of the total potential strike occurring after the middle of August.

There were approximately eighty-five (85) days in the 1947 summer season when spat set on shells at Wreck Shoal.

Weekly Spat Strike — Deep Water Shoals - 1947.
(In Shellbags)

Dates set	Days set	Number of spat per bushel			Number of spat per shell	Spat per day per shell
		Station 5	Station 6	Average		
21 May -29 May	8	0	0	0	0	0
29 May -11 June	13	0	0	0	0	0
11 June-18 June	7	0	0	0	0	0
18 June-26 June	8	0	0	0	0	0
26 June-2 July	6	—	0	0	0	0
2 July-10 July	8	0	0	0	0	0
10 July-17 July	7	0	180	90	.15	.02
17 July-24 July	7	120	0	60	.1	.01
24 July-30 July	6	300*	180	240	.4	.07
30 July- 8 Aug.	9	2,520	1,740*	2,130	3.55	.39
8 Aug.-14 Aug.	6	540	1,080*	810	1.35	.23
14 Aug.-21 Aug.	7	840	1,140*	990	1.65	.24
21 Aug.-28 Aug.	7	6,540	2,940*	4,740	7.90	1.13
28 Aug.- 4 Sept	7	6,840	3,060*	4,950	8.25	1.18
4 Sept-11 Sept	7	3,720	3,180*	3,450	5.75	.82
11 Sept-18 Sept	7	600	480*	540	.9	.13
18 Sept-26 Sept	8	780	360*	570	.95	.12
26 Sept- 2 Oct.	6	300*	120	210	.35	.06
2 Oct.- 9 Oct.	7	0	60*	30	0	0
9 Oct.-17 Oct.	8	0	0*	0	0	0
17 Oct.-23 Oct.	6	0*	0*	0	0	0
23 Oct.- 6 Nov.	14	0*	0*	0	0	0

*counted by E. Treesselt

Spat Strike - Deep Water Shoals - 1947.

Compilation of strike data to show accumulative potential set of spat after certain dates - based on counts of weekly spat strikes.

Week beginning	No. of setting days	Station 5	Station 6	Average	Number of spat per shell	Percentage of total set
10 July*	84	23,100	14,460	18,780	31.30	100.0 %
17 July	77	23,100	14,280	18,690	31.15	99.5 %
24 July	70	22,980	14,280	18,630	31.05	99.2 %
30 July	64	22,680	14,100	18,390	30.65	97.9 %
8 Aug.	55	20,160	12,360	16,260	27.10	86.6 %
14 Aug.	49	19,620	11,280	15,450	25.75	82.3 %
21 Aug.	42	18,780	10,140	14,460	24.10	77.0 %
28 Aug.	35	12,240	7,200	9,720	16.20	51.8 %
4 Sept	28	5,400	4,140	4,770	7.95	25.4 %
11 Sept	21	1,680	960	1,320	2.20	7.0 %
18 Sept	14	1,080	480	780	1.30	4.2 %
26 Sept	6	300	120	210	35	1.1 %
2 Oct.	0	0	0	0	0	0

*No spat were found on shells placed in the water orior to July 10, 1947.

Quarter
← Weekly, Spatfall on Brown Shoal, 1947
in

The James River Seed Area

Data on 20 to 40 Shellfaces
from

Quarter-Bushel Shellbags

18 May to 8 November, 1947

Jay D. Andrews

VIMS

JAY DONALD ANDREWS
"Counter"

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 18-24 May 1947

Period set 21-28 May

Type of shell Quinn's 600 per bu - factor 30

Sample No. 1 Stake No. 1

Size of sample counted 20 shells inside only - factor 2

Oyster spat	None																	No. per bu.														
																		Av. size														
Fouling organisms	Barnacles	1	8	5	1	1	7	6	2	2	1	1	2	1	9	3	0	2	<u>367</u>	5	4	1	2	0	6	2	1	5	4	1	<u>407</u>	No. per bu. <u>24,420</u>
	Bryozoa																	No. per bu.														

additions & calculations by C.M.E.L.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge

Week of 18-24 May 1947

Period set 23-30 May

Type of shell Quinn's (600 per bu.) Factor 30

Sample No. 5 Stake No. 1 Size of sample counted 20 shells inside shell-factor of 2

Oyster	None													No. per bu.											
														Av. size											
Fouling organisms	Barnacles	12	1	1	17	3	44	25	6	16	6	14	1	53	1	1	12	1	50	0	57	(32)	Av. = 16 per shell No. per bu. <u>19,260</u>		
	Ostracods							1						= 1									No. per bu. <u>60</u>		
	Amphipods				1	1									= 2									No. per bu. <u>120</u>	
	Isopods				3	1	6	1	2						= 13									No. per bu. <u>780</u>	
	Copepods				11		2	1	12						= 26									No. per bu. <u>1,560</u>	

See sample 77.6 for remarks

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge

Week of 18-24 May 1947

Period set 23-30 May

Type of shell Quinn's (600 per bu.) Factor 30

Sample No. 6 Stake No. 2 Size of sample counted 20 shells Inside only - Factor of 2

Oyster spat	None		No. per bu.
			Av. size
Fouling organisms	Barnacles	$\frac{3}{6} / \frac{13}{9} / \frac{1}{1} / \frac{12}{0} / \frac{0}{0} / \frac{9}{4} / \frac{34}{11} / \frac{6}{15} / \frac{1}{5} / \frac{7}{1} / \frac{10}{4} = 151$	Av. 7.6 per shell No. per bu. <u>9,060</u>
			No. per bu.

* Several Isopods on shell size of barnacles. Many shells had a large no. of small roundish areas covered with sand. The spots appeared to have a sticky base to which sand particles had stuck

5m2

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge

Week of 8-14 Jun 1947

Period set 1100 May 30 - 0950 Jun 12

Type of shell Quinn's (600 per bu) Factor 30

Sample No. 11 Stake No. 1 Size of sample counted 20 shells inside only - factor of 2

Oyster	None		No. per bu.	
spat			Av. size	
Fouling organisms	Barnacles	0/3/0/1/0/3/0/4/2/0 ⁽¹³⁾	79/2/2/1/1/0/0/7/23/2 ⁽¹²³⁾ Av. 6.8 per shell = 136	No. per bu. 8,160
	Serpulids	1 ⁽¹⁾	= 1	No. per bu. 60
	Sponge spots	4/4/2/1/0/0/3/0 ⁽¹⁴⁾	2/0/2/2/0/2/2/2 ⁽¹²⁾ = 26	1,560
	Crepidula	1/1/ ⁽²⁾	1 1 ⁽²⁾ = 4	240

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge

Week of 8-14 Jun 1947

Period set 1100 May 30 - 1030 Jun 12

Type of shell Quinni (600 per bu) Factor 30

Sample No. 12 Stake No. 2 Size of sample counted 20 shells inside only - factor of 2

Oyster	None		No. per bu.
spat			Av. size
Fouling organisms	Barnacles	2/5/3/11/2/26/27/24/2/1 ⁽¹⁰³⁾	11/4/13/9/2/7/3/18/13/4 ^{(84) Av. 7.4 per shell} = 187
	Serpulids	1/ ⁽¹⁾	1 1 ⁽²⁾ = 3
	Sponge spots	1/0/1/2/ ⁽⁴⁾	3 2 ⁽⁵⁾ = 9
	Bryozoan colonies	1/ 1 ⁽²⁾	= 2
			11,220
			180
			540
			120

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge

Week of 15-21 June 1947

Period set 1000 Jun 12 to 1100 Jun 19

Type of shell Quinn's (600 shells per bu.) ^{Factor 30}

Sample No. 17 Stake No. 1 Size of sample counted 20 shells Inside of shell only ^{Factor of 2}

Oyster	None		No. per bu.
spat			Av. size
	Top	Bottom	
Fouling	Barnacles	0/4/1/1/0/4/4/0/0/0 ⁽¹⁴⁾ 0/0/1/0/3/1/4/2/1/1 ⁽¹³⁾	Av. 1.4 per shell = 27 No. per bu. 1,620
	Sponge spots	2/5/0/11/8/8/2/6/3/0 ⁽⁴⁵⁾ 1/1/0/2/4/3/14/0/7/7 ⁽³⁹⁾	Av. 4.2 per shell = 84 No. per bu. 5,040
organisms	Serpulids		
	Sabellids	4/	1/
	Bryozoa colonies		1/

Fish eggs on shells (Gobiosox?) 4H
 A no. of young drills are found sticking on the shells
 Shells facing out on the outside of the bag seem to get
 the best set of barnacle & sponge spots.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge

Week of 8-14 June 1947

Period set 1030 Jun 12 - 1220 Jun 19

Type of shell Quinni (600 per shell) LARGE

Sample No. 18 Stake No. 2 Size of sample counted 20 shells inside only Factor 30
Factor 2

Oyster	None										No. per bu.												
spat	(spicules)										Av. size												
	BRISTY SPONGE 0 0 0 0 0 0 0 0																						
Fouling	Barnacles	0	0	0	0	1	0	2	0	6	0	1	1	1	0	1	0	0	1	(9)	(5)	= 14	No. per bu. 840
organisms	SERPULIIDS	0	0	0	0	0	0	0	0	0	Crepidula	1									No. per bu.		
	Red SPONGE SPOTS	0	0	0	0	0	0	0	0	0													
	Bryozoa Colony	0	0	0	0	0	0	0	0	0													

M.E.L.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge

Week of JUNE 22-28 1947

Period set 19 JUNE to 27 Jun

Type of shell Quinn's (600 per bu) Factor 30

Sample No. 23 Stake No. 1 Size of sample counted 20 shells inside only -factor 2

Oyster spat	0,0,0,1 ↑ No 4 = 350										No. per bu. <u>60</u>				
											Av. size				
Fouling organisms	16 17 18 19 20														
	Barnacles	1	1	0	1	0	0	1	0	1	⑤	0 1 1 0 1 0 0	③	= 8	No. per bu. <u>480</u>
	SPONGE SPOTS	0	0	0	0						1/0		①	= 1	No. per bu. <u>60</u>
	BRYOZOA	0	0	0	1	0				1	②	Membranipora	①	= 3	<u>180</u>
Serpulids								2		②	1	①	= 3	<u>180</u>	

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge

Week of JUNE 22-28 1947

Period set 19 JUNE - 27 June

Type of shell Quinn's (600 per bu) Factor 30

Sample No. 24 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster	None										No. per bu.											
											Av. size											
Fouling organisms	Barnacles	2	0	0	0	0	0	0	2	(4) = 16	0	2	2	0	3	2	0	2	1	(12)	No. per bu.	960
	Sponge spot	1	8	10	0	(19) = 21	1	0	0	0	0	0	1	0	0	0	0	0	(2)	No. per bu.	1260	
	BRYZOA					(2) = 2	2	0	0	0	0	0	0	0	0	0	0	0	(2)		120	
	SERPULIDS					(2) = 5	0	0	3	0	0	0	0	0	0	0	0	0	(3)		300	

Note 1-3 counted while fresh, the rest much later so the sponge spots may have all faded.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge

Week of Jun 29 to July 5 1947

Period set 27 Jun to 3 July

Type of shell Quinn's (600 per bu) factor

Sample No. 29 Stake No. 1 Size of sample counted 20 shells inside only - factor 2
12 Aug 47

Oyster	None																				No. per bu.														
spat																					Av. size														
Fouling organisms	Barneclis	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$\textcircled{1}$	1	0	0	0	0	0	0	0	0	0	0	$\textcircled{1}$	= 2	No. per bu. <u>120</u>
	Serpulids	1	2	2		1															$\textcircled{6}$	2	3		4		4					$\textcircled{13}$	= 19	No. per bu. <u>1440</u>	
	Bryozoa Membranipora			1																	$\textcircled{1}$	1											$\textcircled{1}$	= 2	<u>120</u>
	Sponge spot					1															$\textcircled{1}$												= 1	<u>60</u>	

Several cemented sand grain tubes. I wonder if all the sponge spots have faded?

JAY DONALD ANDREWS

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge Week of 29 Jun to 5 July 1947
 Period set 27 Jun to 3 Jul 47 Type of shell Quinn's (600 per bu) Factor 30
 Sample No. 30 Stake No. 2 Size of sample counted 20 shells (inside only) Factor 2

Oyster spat	No oyster spat										No. per bu. 0												
											Av. size												
Fouling organisms	Barnacles	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	= 1	No. per bu. 60	
	Bryozoa colonies <i>Acanth</i>					1															= 1	60	
	Serpulids	2	2	3		1		2													2	= 14	840

Remarks: No bryozoa seen on these shells - they are the cleanest shells I remember having seen all year. Counted by J. D. Andrews Date Mar 17, 1948

LF

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground NANSEMOND RIDGE

Week of JULY 6-12 1947


Period set 3 JULY to 11 July

Type of shell Quinn's (600 per bu.) Factor 30

Sample No. 35 Stake No. 1 Size of sample counted 20 shells (INSIDE ONLY) factor 2

Oyster	275/													No. per bu.										
	SIZE SPAT													60										
spat	NO. SPAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0,1	Av. size								
	BRISTLY SPOTS	1	0	0	0	0	0	0	0	0	0	0	0	0	1									
Fouling organisms	Barnacles	2	5	3	11	7	1	3	7	5	1	4	5	20	6	4	1	2	1	0	21	(45)	= 109	No. per bu.
	Serpulids	19	9	5	14	12	14	19	4	19	3	15	13	29	23	14	12	39	9	2	7	(118)	= 281	No. per bu.
	Sponge SPOTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	= 1
	BRYZOA COLONIES	1	0	0	2	0	2	1	2	3	1	1	1	3	1	1	1	1	1	1	1	(11)	= 27	1620

Folliculma

Moderate no of collapsed bluish bottle-shaped annelid tubes (annellid with two processes like this  shell surface). The bryozoan colonies in the second group of shells were not merely concentrated but each had at least one dense animal. A number of mud + sand grain tubes (corrupted type) on shells.

10 extra shells in bag not counted

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge Week of 6-12 July 1947
 Period set 3 Jul to 11 Jul 47 Type of shell Quinn's (600 per bu) Factor 30
 Sample No. 36 Stake No. 2 Size of sample counted 20 shells (inside only) Factor 2

Oyster	0,0,0,0,0,0,0,0,0														No. per bu.									
	0,0,0,0,0,0,0,0,0,0														0									
spat															Av. size									
Fouling organisms	Barnacles	13	1	2		2		8	1	7	(34)	14	1	5	12	1	0	(33)	= 67	4,020				
	Bryozoa ^{7mm} colonies							1				1				1		= 3	180					
	Acant	3					1		2			2		1				= 9	540					
	Serpulids	16	4	2	1	12	25	15	7	2	3	(37)	28	26	17	22	8	2	1	2	2	(108)	= 195	11,700
	Yellow Spongy												1									= 1	60	

Remarks:

Counted by J.D. Andrews Date 16 Mar 48

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge Week of 13-19 July 1947
 Period set 11 Jul to 18 Jul 47 Type of shell Quinnie (600 per bu) Factor 30
 Sample No. 44 Stake No. 2 Size of sample counted 20 shells (inside only) Factor 2

Oyster	0,0,3,0,0,1,0,0,0,0 = 4															No. per bu.										
	0,3,0,0,0,0,0,1,0 = 4 = 8															480										
spat																Av. size										
Fouling organisms	Barnacles	11	5	4	5	6	1	3	1	10	2	48	7	7	1	0	3	6	4	2	3	2	(33) = 81	No. per bu.		
	Bryozoa ^{Mont} colonies	3										1	5	1	10							1	1	(13) = 25		
	Acant	2		2	1							1	10									2	1	(10) = 11	1,500 1,660	
	Serpulids	1	11	6	2	4	3	5	1	2	3	30	6	4									1	1	(10) = 56	3,360
	Yellow sponge												0	1										1	(1) = 5	

Remarks: * *Folliculina*

Counted by J. D. Andrews Date 12 Mar 48

23

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge Week of _____ 194
 Period set 11 Jul to 18 Jul 47 Type of shell Quivins (600 per bu) Factor 30
 Sample No. 42 Stake No. 2 Size of sample counted 20 shells (inside only) Factor 2

Oyster	1 0 0 1 1 1 0 0 0 0 0 3 1 0 0 0 0 0 0 0 0 0 0 1	No. per bu.
spat		Av. size
Fouling organisms	Barnacles 27 1 6 11 8 4 8 1 26 14 10 0 0 4 2 13 2 1 2 4 0	No. per bu. = 138 / 8280
	Bryozoa colonies 1 1 2 0 1 1 2 4 0 12 1 1 0 2 1 1 2 7 2 0	= 29 / 1740
	Serpulids 9 1 0 2 12 1 1 1 0 0 1 1 3 30	23 / 1380

Remarks: _____ Counted by of Threlk Date _____

23

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge

Week of 20-26 July 1947

Period set 18 July - 25 July

Type of shell Quinn's (600 per bu) - factor 30

Sample No. 47 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster	1,3,0,0,0,1,2,0,0,1 = 8															No. per bu.										
	= 15															900										
spat	0,1,1,0,1,1,1,0,1 = 7															Av. size										
Fouling organisms	Barnacles	14	29	49	33	31	53	23	20	42	55	19	33	76	5	12	33	6	7	31	19	4	(415)	(299)	No. per bu.	
		= 714																						42840		
	Membranipora			1	4	2	2			1	3		1					2	2					(13)	(5) = 18	No. per bu.
	Bryozoa																							(7)	(2) = 9	1080
	Acanthodesia		1		1	1	2		1	1					1			1						(7)	(2) = 9	540
Serpulids			14	13	10	9		4	12	8	(70)	6	9	5	7	9	11	5		7			(59) = 129		7740	
Bristly Sponge				4	1					1	(6)	1	1	1									(4) = 10		600	

Anomia
 Many sea spiders on these shells. A considerable no of filarous cases of *Corophium* + a few sand cases of an annelid

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge Week of 20-26 July 47 194 47
 Period set 18 July to 25 July 47 Type of shell Quinn's (600 per bu) Factor 30
 Sample No. 48 Stake No. 2 Size of sample counted 20 shells (inside only) Factor 2

Oyster	0, 1, 0, 0, 1, 0, 0, 0, 1, 1, = 4 = 8															No. per bu.	480								
spat	0, 0, 0, 0, 0, 2, 0, 1, 1 = 4															Av. size									
Fouling organisms	Barnacles	5	28	54	56	18	30	47	32	26	2	40	9	31	15	8	24	15	3	17	5	No. per bu.	27,900		
	Bryozoa colonies										6	1										7		420	
	Acant		1	2	1				1	2													7		420
	Serpulids	6	4	7	6	3	27	10	9	4	8	7	18	12	14	5	7	7	6	6			166		9,960
	Yellow sponge	1		1		1	2				1	1	2		2								11		660
Crepidula														1								1		60	

Remarks: All the spat were large (around 1 mm) except one. Counted by J. D. Andrews Date 17 Mar 48
No bryozoa seen.

JAY DONALD ANDREWS

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge Week of 27 Jul to 2 Aug 1947
 Period set 25 July to 31 July 1947 Type of shell Quinn's 600 per bu Factor 30
 Sample No. 53 Stake No. 2 Size of sample counted 20 shells (inside only) Factor 2

Oyster	2, 1, 0, 1, 1, 0, 0, 2, 5, 1 = 13 1, 0, 0, 1, 0, 4, 3, 0, 1, 3 = 13 = 26																				No. per bu. 1,560				
spat																					Av. size				
Fouling organisms	Barnacles	36	24	32	36	35	27	29	18	117	36	390	13	39	3	17	4	11	48	14	11	33	= 582	No. per bu. 34,920	
	Bryozoa colonies																						= 1	60	
	Ment																							= 7	420
	Acan	1			3	1										2								= 14	2,640
	Serpulids	1	3		2	1	1				3			27	4	4						1		= 18	1,080
Yellow sponge		2		3		4		2				1			2	2		1		1			= 10	600	

Remarks: Crepidula form. 2 1
 Counted by J.D. Andrews Date 127 Mar 48

Most of spat quite small

Handwritten initials

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge


Week of Jul 27 - Aug 2 1947

Period set 1000 Jul 25 to 0930 Jul 31

Type of shell Quinn's (600 per shell) ^{Factor 30}

Sample No. 54 Stake No. 2 Size of sample counted 20 shells - inside only - factor 2

Oyster	0, 2, 0, 2, 0, 4°, 2, 2, 0, 0 0, 0, 0, 0, 0, 0, 0, 0, 0	= 12 = 0	The shells in the top of the bag had spat but none was found in the bottom. = 12 predation?	No. per bu. <u>720</u>
spat	550, 1175 1750, 375 975, 1325, 1100, 1050 475, 575 575, 550			Av. size
Tingle (319)				
Fouling organisms	Barnacles	2 201 36 13 23 63 1 3 2 5 4 10 39 10 2 14 4 5 5 26	= 468	No. per bu. <u>28,080</u>
	Serpulid tubes	0 5 4 2 0 3 0 0 (14)	= 60	No. per bu. <u>3600</u>
	Bristly sponge	1 2 1 (5)	= 11	<u>660</u>
	Bryozoa	3 0 1 2 1 (7)	= 14	<u>840</u>
	Crepidula	0 1 2 (3) 1	= 4	<u>240</u>

Several *Corophium* with cases on shells. Some shells have sperm like objects rather abundantly. Shell 6 had over a dozen *Corophium* cases some with animals inside. Most of these cases turned up at the open end thus  Tubes were made of bits of sand + debris + well cemented together. Usually in colonies. A lot of *Caprellia* around these tubes + on this shell.

4° means 4 spat of which one was drilled

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge Week of 3-9 Aug 47 194 7
 Period set 31 July to 8 Aug 1947 Type of shell Quinni (600 per bu) Factor 30
 Sample No. 59 Stake No. 2 Size of sample counted 20 shells (inside only) Factor 2

Oyster	3,4,0,1,1,0,1,4,0,2 = 16														No. per bu.											
	2,0,2,4,2,0,5,1,6,3 = 25														2,460											
spat															Av. size											
Fouling organisms	Barnacles	39	90	115	8	9	5	18	10	7	17	318	9	7	33	10	15	26	71	6	21	23	621	= 539	No. per bu.	
	Bryozoa ^{min.} colonies																							= 1	60	
	^{Acant}		1	1					1		2													3	= 10	600
	Scarpulids	33	0					1			1			1	1									14	= 51	3,060
	Yellow sponge	1		3		2	3	1	6	2	2		2	1			1	9			2	0		= 35	2,100	

Remarks: Both large and small spat.

Counted by J.D. Andrews Date 10 Mar 48

27

Name	Date	Grade	Section	Teacher

Page No.

Date

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge Week of 3-9 Aug 1947
 Period set 31 July - 8 Aug 47 Type of shell Quinn's (600 per bu) Factor 30
 Sample No. 60 Stake No. 2 Size of sample counted 20 shells (inside only) Factor 2

Oyster	1,0,0,1,3,0,0,2,0,0 = 7															No. per bu. 960								
	1,1,1,0,0,1,4,0,0 = 9 = 16																							
spat																Av. size								
Fouling organisms	Barnacles	2	0	15	5	10	23	8	40	5	10	2	5	3	4	11	3	13	20	1	18	= 198	No. per bu. 11,880	
	Bryozoa ^{Ment.} colonies									1		1	1		1							= 4	240	
	Acant			1		2	1		1					1	2	1			2				= 11	660
	Serpulids					1	3	7					1	1				1					= 14	840
	Yellow sponge		4	1	3	3	3	6	3				4	4	2	3	2	2	7		3		= 50	3,000
																						= 6	360	

Remarks: Crepidula fornicata 1 1 2 1 1 1 Counted by J. D. Andrews Date 11 Mar 48

More sponge, fewer barnacles and oyster spat than in sample 59 counted yesterday.

LB

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge

Week of Aug 10-16 1947

Period set 1500 Aug 8 to 0900 Aug 15

Type of shell Quinn's (600 per bu) Factor 30

Sample No. 65 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster	28, 6, 4, 12, 13, 10, 7, 11, 6, 24 = 121		No. per bu.	
	16, 9, 3, 17, 4, 19, 27, 3, 5, 10 = 113	= 234	14,040	
spat	300, 175, 225, 500, 300, 375, 625, 500, 550, 475, 300, 275, 375, 250, 875, 550, 350, 475, 500, 400, 300, 625, 400, 350, 400, 525, 325, 475, 250, 300, 550, 1375, 575, 375, 525, 1500, 250, 500, 300, 625, 275, 275, 1225, 975, 475, 500, 275, 625, 575, 450, 300, 275, 475, 550, 600, 300, 425, 350, 500, 500, 750, 1050, 250, 500, 1000, 275, 275, 625, 550, 400, 450, 475, 425, 550, 325, 325, 400, 340, 450, 550, 375, 625, 425, 375, 250, 625, 275, 275, 850, 2875, 800, 300, 500, 625, 375, 450, 1125, 250, 475, 275, 275, 500, 400, 250, 650, 375, 600, 400, 300, 300, 1750, 375, 550, 1250, 675, 250, 425, 275, 275, 525, 400			Av. size
Fouling organisms	Barnacles	38 2 3 10 31 5 5 5 5 31 4 6 4 17 14 21 11 0 5 10 = 227	No. per bu. 13,620	
	Bryozoa Acanthodesmia Colonies	1 1 1 2	No. per bu. 420	
	Membranipora	2 1 1	No. per bu. 600	
	Bristly sponge	4 1 4 1 4	No. per bu. 420	
Serpulids	2 1 3 3 1 4 = 7	No. per bu. 360		
Crepidula	1 1 1 2 5 1 1 = 6	No. per bu. 360		

Shells 1420 — 875, 800, 500, 625, 475, 2500, 525, 375, 550, 875, 550, 325, 450, 500, 275, 400 | 375, 275, 750, 475, 375, 575, 400, 650, 325 | 500, 725, 750 | 250, 300, 375, 250, 275, 250, 425, 300, 450, 1250, 250, 650, 1275, 550, 2300, 250, 400 | 450, 275, 750, 575 | 750, 400, 325, 375, 1025, 500, 350, 575, 2050, 500, 375, 275, 475, 300, 450, 275, 325, 400, 300 | 475, 425, 250, 250, 550, 250, 500, 275, 300, 475, 450, 500, 400, 450, 550, 400, 625, 450, 300, 600, 550, 250, 275, 500, 450, 1750, 375 | 250, 250, 500 | 300, 625, 350, 325, 625 | 350, 250, 375, 475, 400, 375, 250, 375, 300, 325,

I can see no evidence of drill activity by the usual boring method on these week-old oysters. One drill was found in the shell bag - the first. Few mortalities among spat are apparent

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge Week of 10-16 Aug 1947
 Period set 8 Aug to 15 Aug 47 Type of shell Quinn's 600 per bu. Factor 30
 Sample No. 66 Stake No. 2 Size of sample counted 20 shells (inside only) Factor 2

Oyster	9, 10, 10, 7, 9, 1, 21, 8, 9, 13 = 97	= 165	No. per bu.	9,900
spat	5, 4, 6, 6, 2, 8, 5, 13, 9, 10, = 68		Av. size	
		(116)	(96)	
Fouling organisms	Barnacles	19 21 47 16 13 2 2 1 4 6 6 36 2 2 7 2 12 3 14 = 212	No. per bu.	12,720
	Bryozoa colonies			120
	Ascant	1		
	Serpulids	1		420
	Yellow sponge	1		540
	Crepidula	2		120

Remarks:

Counted by J.D. Andrews Date 12 Mar 48

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge Week of 17-23 Aug. 194 7
 Period set 15 Aug to 22 Aug 47 Type of shell Quinn's (600 per bu) Factor 30
 Sample No. 71 Stake No. 2 Size of sample counted 20 shells (inside only) Factor 2

Oyster	10, 16, 23, 5, 23, 5, 12, 13, 40, 7 = 154													No. per bu.								
	5, 18, 7, 6, 15, 18, 14, 5, 12, 38 = 138													17,520								
spat	Scars 11 = 292													Av. size								
Fouling organisms	Barnacles	21	9	349	0	39	110	11	165	29	4	5	26	24	155	100	2	49	31	16	245 = 1330	No. per bu.
																						79,800
	Bryozoa colonies																				1 2 = 8	480
	Acant							3					1	1								
	Serpulids																				1 = 1	60
Yellow Sponge																				1 = 1	60	
Crepidula							1													2 2 = 5	300	

Remarks: Some extremely large spat and most spat several days old.
 Only one little spot of sponge seen. Very few Bryozoa.

Counted by J. D. Andrews Date 8 Mar 48

L.P.

JAY DONALD ANDREWS

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge Week of 17-23 August 1947
 Period set 15 Aug to 22 Aug 47 Type of shell Quinn's (600 per bu)
 Sample No. 72 Stake No. 2 Size of sample counted 20 shells inside only $2 \times 30 = 60$ factor

Oyster spat	8 30 7 9 52 43 6 7 15 11 (188) 25 43 8 7 39 20 19 8 6 20 (198) = 386																				No. per bu. <u>23,160</u>			
																					Av. size			
Fouling organisms	Barnacles	79	8	51	3	20	27	55	49	18	16	(427)	32	42	13	5	16	35	13	22	3	4	(185) = 612	No. per bu. <u>36,720</u>
	ACANTHODESIA				1		1		1	2	1	(6)	0								1	1	(2) = 8	No. per bu. <u>480</u>
	CREPIDULA											1												3

189
55
244
x3
727

by E. Trasselt - Jan 31, 48

WORKING SHEET OF THE BUREAU OF THE UNITED STATES DEPARTMENT OF AGRICULTURE

STATE OF _____ COUNTY OF _____

NAME OF THE _____

DATE OF _____

No.	Name of the _____	Quantity	Value	Remarks

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge

Week of 24-30 Aug 1947

Period set 22 Aug to 29 Aug

Type of shell Quinn's (600 per bu) - factor 30

Sample No. 77 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster	2, 0, 2, 7, 2, 2, 7, 7, 2, 2 = 33										No. per bu.													
	8, 2, 3, 0, 4, 13, 1, 2, 3, 4 = 40										4,380													
spat	2500, 2450 2500, 2250 500, 1750, 1800, 800, 2250, 800, 550										Av. size													
	2750, 3000, 2800, 3500, 600, 2000, 1050, 400, 1950, 1775 3000																							
	550, 2500, 475, 875, 3000, 1250, 1900, 550, 625, 2500,																							
Fouling organisms	Barnacles	14	0	33	33	2	13	24	66	10	6	47	10	3	4	16	10	3	8	0	5	246	No. per bu.	26,830
	Acanthodesia											1	1	1								4 = 4	No. per bu.	240
	Bryozoa					1																3 = 5	No. per bu.	300
	Membranipora																							
	Serpulids						1		2			1								1		5 = 5		300
Anomia							1	1													2 = 2		120	
Crepidula											1				1						2 = 2		120	

Shells exceptionally muddy for Nansemond Ridge
 Some extremely large spat in this sample. I believe this sample caught the tail end of a brood and perhaps the beginning of another judging from the size of the spat

Counted by JDA

JAY DONALD ANDREWS

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge Week of 24-30 Aug 1947
 Period set 22 Aug - 29 Aug. 47 Type of shell Quinn's (600 per bu) Factor 30
 Sample No. 78 Stake No. 2 Size of sample counted 20 shells (inside only) Factor 2

Oyster	2, 1, 1, 1, 0, 7, 2, 0, 0, 1 = 15 1, 2, 1, 2, 6, 0, 1, 4, 1, 5 = 23 = 38	No. per bu. 2780
spat		Av. size
Fouling organisms	Barnacles * 0 0 9 5 14 1 5 2 2 8 0 (9) 0 0 1 13 0 2 1 1 1 2 1 (40) = 131	No. per bu. 2860
	Bryozoa colonies Acanth 1 = 2	120
	Serpulids 1 = 1	60

Remarks:

large % of barnacles dead.

Counted by J.D. Andrews Date 5 Mar 48

C. formata III
 Very few barnacles were present except on a few outside shells.

Most of the spat in this sample were exceptionally large with a few very late set spat. This combined with the low number of spat makes me wonder what happened to this brood because fairly large counts were obtained the weeks before & after this one. Was it weather - heavy tides or whelms - muddy shells?

J.D.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

9 Sept 1947
E.F. Tresselt
(1st counts)

Checked by
JDA 9 Sept 47

Oyster ground Nansemond Ridge

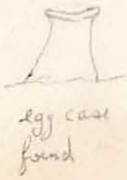
Week of 31 Aug - 6 Sept 1947

Period set 29 Aug - 4 Sept

Type of shell Quinn's (600 per bu) - factor 30

Sample No. 83 Stake No. 1 Size of sample counted 20 shells inside only - factor

Oyster spat	E.F.T	16	7	5	0	1	4	10	5	9	5	12	2	5	10	15	12	14	4	2	6	No. per bu. <u>13,140</u>	
	JDA	18	8	8	0	2	5	16	6	13	15	18	6	7	22	17	19	22	7	3	7		= 144 = 219
											62 (91)										82 (128)	Av. size	
Fouling organisms	Barnacles	8	11	21	14	1	0	4	16	21	5	14	8	6	9	11	5	8	0	5	1	No. per bu. <u>18,900</u>	
		9	16	26	31	1	0	6	18	4	14	12	6	0	12	3	8	9	1	7	1		= 277 315
	Membranipora	2	0	0	0	1	0	0	0	0	78 112											203 199 = 1	No. per bu. ⁶⁰ <u>180</u>
	Acanthodesia	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	= 3	
	Anomia							1				1						1	1			4	240



Counted 24 Sept 47 JDA

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge

Week of 31 Aug - 6 Sept 1947

Period set 29 Aug - 4 Sept

Type of shell Quinn's (600 per bu) - factor 30

Sample No. 84 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster	7, 10, 3, 14, 9, 5, 11, 11, 3, 7 = 80															No. per bu. <u>11,160</u>								
	12, 11, 5, 7, 11, 5, 9, 37, 2, 7 = 106																							
spat																Av. size								
Fouling organisms	Barnacles	2	4	20	26	11	9	5	19	11	60	(167)	8	30	0	28	40	1	7	19	0	14	(147)	No. per bu. <u>18,840</u>
																								No. per bu.
	Membranipora				3							(3)				2	1		1				(4) = 7	420
	Bryozoa Acanthodesia		1					1				(2)			1	2			2				(5) = 7	420
Anomia	1		1				1				(3)	3	1	1	3							(8) = 11	660	
Crepidula																						(1) = 1	60	

Nearly all the barnacles are small. Oyster larvae all size - mostly small, under 500µ

Counted 22 Sept 47 JDA

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge

Week of 7-13 Sept. 1947

Period set 11 Sept - 12 Sept

Type of shell Quinn's (600 per bu) - factor 30

Sample No. 89 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster	4, 6, 3, 5, 14, 4, 6, 17, 4, 16, = 81															No. per bu. 8,460										
	= 141																									
spat	3, 7, 8, 6, 3, 12, 3, 5, 8, 5 = 60															Av. size										
Fouling organisms	Barnacles	1	0	0	0	0	2	0	3	2	11	2	(42)	19	19	0	1	2	1	6	4	0	5	(57)	= 105	No. per bu. 6,300
	Serpulids	1											(2)	4										(4)	= 6	No. per bu. 360
	Membranipora														1									(1)		
	Acanthodesia																							(1)		
	Anomia							1																(2)		
Crepidula							1																(1)			

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Counted 24 Sept 47 JDA

Oyster ground Nansemond Ridge

Week of 7-13 Sept 1947

Period set 4 Sept. - 12 Sept

Type of shell Quinns (600 per bu) - factor 30

Sample No. 90 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster	8, 2, 8, 12, 11, 6, 8, 5, 5, 1 = 66															No. per bu. <u>8,880</u>									
	9, 4, 5, 2, 7, 7, 5, 14, 6, 23 = 82																								
spat	= 148															Av. size									
Fouling organisms	Barnacles	1	2	1	3	0	2	22	0	1	0	(32)	17	1	0	7	2	1	5	2	6	0	(41)	No. per bu. <u>4,380</u>	
	Serpulids		1	2			1					(4)			3	2		1					(6) = 10	No. per bu. <u>600</u>	
	Bryozoa Acanthodesia		1	2	1			4					(8)	1	1	1	1			1				(5) = 13	<u>780</u>
	Anomia			1				1	1				(3)				1	1						(2) = 5	<u>300</u>
	Crepidula		1									(1)											= 1		

Most of the oyster spat are small - around 375-400 μ.

1 Anomia 3mm in size.

JAY DONALD ANDREWS

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge Week of 14-20 Sept 1947
 Period set 12 Sept to 19 Sept 1947 Type of shell Quinn's (600 per bu) Factor 30
 Sample No. 95 Stake No. 2 Size of sample counted 20 shells (inside only) Factor 2

Oyster	3, 4, 5, 3, 5, 0, 2, 4, 3, 4 = 33	= 84	No. per bu.
	4, 1, 7, 10, 11, 3, 4, 5, 2, 4 = 51		5040
spat			Av. size
Fouling organisms	Barnacles	2 4 3 2 0 0 1 4 7 8 14 ⁽¹⁰⁸⁾ 0 1 3 1 4 2 9 7 14 0 0 ⁽¹²²⁾ = 230	No. per bu. 13800
	^{Acanthodesia} Bryozoa colonies		120
	Serpulids		120
	Crepidula		
	Anomia		

Remarks: One shell of each series of 10 had a considerable no. of barnacles outside exposure?

Counted by J.D. Andrews Date 15 Apr 48

L.J.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge

Week of 14-20 Sept 1947

Period set 12 Sept - 19 Sept.

Type of shell Quinni (600 per bu) factor 30

Sample No. 96 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster	7, 7, 8, 4, 4, 4, 2, 0, 6, 9 = 51															No. per bu.									
	2, 12, 4, 5, 14, 7, 3, 6, 9, 13 = 75																7,560								
spat	= 126															Av. size									
	1100, 400, 375, 500, 1950, 975, 400, 375, 600, 925, 1375, 800, 525, 1425.																								
Fouling organisms	Barnacles	3	2	3	0	4	0	0	0	2	1	(15)	6	0	6	3	6	0	1	6	3	3	(24)	= 49	No. per bu.
	Serpulids	2	1									(3)			2	1					1		(4)	7	No. per bu.
	Bryozoa Acanthodesia			1		1	2	1	1	2	(8)	1								2	1	1		(5)	13

Anostracae

These shells are remarkably clean of dirt & fouling organisms. No outside shells observed with any no. of barnacles

M.E.L.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge Week of 21-27 Sept 1947
 Period set 19 Sept to 27 Sept 47 Type of shell Quinn's (600 per bu) Factor 30
 Sample No. 101 Stake No. 2 Size of sample counted 20 shells (inside only) Factor 2

Oyster	0, 1, 0, 0, 6, 2, 0, 2, 0, 0 = 5 = 23	No. per bu. 1380																																																																																																																														
	2, 2, 4, 4, 0, 1, 0, 1, 2, 2 = 18																																																																																																																															
spat		Av. size																																																																																																																														
Fouling organisms	<table border="1"> <tr> <td>Barnacles</td> <td>29</td><td>9</td><td>4</td><td>1</td><td>1</td><td>6</td><td>2</td><td>0</td><td>1</td><td>1</td><td>0</td><td>2</td><td>9</td><td>1</td><td>0</td> <td>(207)</td> <td>2</td><td>7</td><td>1</td><td>3</td><td>1</td><td>5</td><td>3</td><td>6</td><td>0</td><td>1</td><td>2</td><td>0</td> <td>(104)</td> <td>= 311</td> <td>No. per bu.</td> <td>18,660</td> </tr> <tr> <td>Bryozoa colonies</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td>= 1</td> <td></td> <td>60</td> </tr> <tr> <td>Serpulids</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td></td> <td></td> <td></td> </tr> </table>	Barnacles	29	9	4	1	1	6	2	0	1	1	0	2	9	1	0	(207)	2	7	1	3	1	5	3	6	0	1	2	0	(104)	= 311	No. per bu.	18,660	Bryozoa colonies																												= 1		60	Serpulids																																																														
	Barnacles	29	9	4	1	1	6	2	0	1	1	0	2	9	1	0	(207)	2	7	1	3	1	5	3	6	0	1	2	0	(104)	= 311	No. per bu.	18,660																																																																																															
	Bryozoa colonies																												= 1		60																																																																																																	
	Serpulids																																																																																																																															

Remarks: _____ Counted by J. D. Andrews Date 18 Mar 48

27

Table with multiple columns and rows, containing faint text and a grid structure. The text is mostly illegible due to fading.

GENERAL OFFICE OF THE DISTRICT OF COLUMBIA

JAY DONALD ANDREWS

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge

Week of _____ 194__

Period set 19 Sept to 27 Sept 47

Type of shell Quinn's (600 per bu.)

Sample No. 102 Stake No. 2 Size of sample counted 20 shells inside only - factor 60

Oyster	1	0	1	3	0	0	1	1	0	0	7	1	0	2	1	0	0	0	0	2	0	No. per bu. <u>780</u>	
	= 13																						
spat																					Av. size		
Fouling organisms	Barnacles	11	2	14	6	15	9	8	5	15	1	86	11	9	5	16	1	0	12	16	2	6	No. per bu. <u>13960</u>
	CREPIDULA FORNICATA											1										1	No. per bu. <u>120</u>

By: E. Prussalt

4.2

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge Week of 28 Sept to 4 Oct 1947
 Period set 27 Sept to 2 Oct 47 Type of shell Quinn's (600 per bu) Factor 30
 Sample No. 107 Stake No. 2 Size of sample counted 20 shells (inside only) Factor 2

Oyster	0,0,0,0,1,0,0,0,1,0 = 2	No. per bu. 240																									
	0,0,0,0,1,0,0,0,0,1 = 2																										
spat		Av. size																									
Fouling organisms	Barnacles	<table border="1"> <tr> <td>102</td><td>5</td><td>2</td><td>1</td><td>0</td><td>8</td><td>0</td><td>0</td><td>1</td><td>3</td> <td>(122)</td> <td>27</td><td>1</td><td>2</td><td>1</td><td>2</td><td>2</td><td>0</td><td>4</td><td>2</td><td>0</td><td>13</td> <td>(90)</td> <td>= 112</td> </tr> </table>	102	5	2	1	0	8	0	0	1	3	(122)	27	1	2	1	2	2	0	4	2	0	13	(90)	= 112	No. per bu. 12,720
	102	5	2	1	0	8	0	0	1	3	(122)	27	1	2	1	2	2	0	4	2	0	13	(90)	= 112			
	Bryozoa colonies																										
	Serpulids																										

Remarks: All four spat very small - almost larval size.

Counted by J.D. Andrews Date 22 Apr 48

23

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge Week of _____ 194 7
 Period set 27 Sept to 2 Oct 47 Type of shell _____ Factor 30
 Sample No. 108 Stake No. _____ Size of sample counted 20 shells (inside only) Factor 2

Oyster	0,0,0,0,0,0,0,0,0,0		No. per bu.
	0,0,0,0,0,0,2,0,0,0		
spat			Av. size
Fouling organisms	Barnacles	0,0,0,0,7,0,0,1,0,0 ⁽⁸⁾ 0,0,2,1,13,9,0,14,0,5 ⁽¹⁴⁾ = 52	No. per bu. 3,120
	Bryozoa colonies		
	Serpulids		

Remarks:

Counted by J.D. Andrews Date 23 Apr 48

23

Serial No.	Details of the asset	Acquisition Date	Acquisition Cost	Present Value

TOTAL ASSETS TO THIS DATE

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge

Week of 12-18 Oct 1947

Period set 2 Oct to 16 Oct

Type of shell Quinni (600 per bu) factor-30

Sample No. 113 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster spat	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0 = 1 1,000,000,000,000															No. per bu. <u>60</u>						
																Av. size						
Fouling organisms	(2107) = 4294 (2189)																					
	Barnacles	3/4	383	447	274	107	165	131	54	207	25	146	145	286	202	645	144	272	138	142	67	No. per bu. <u>257640</u>
	<i>Mictrastropora</i>	0	1	10	9	2	2	4	9	7	0	(44) = 73	8	3	2	0	5	1	1	0	2	7

Counted by JDA

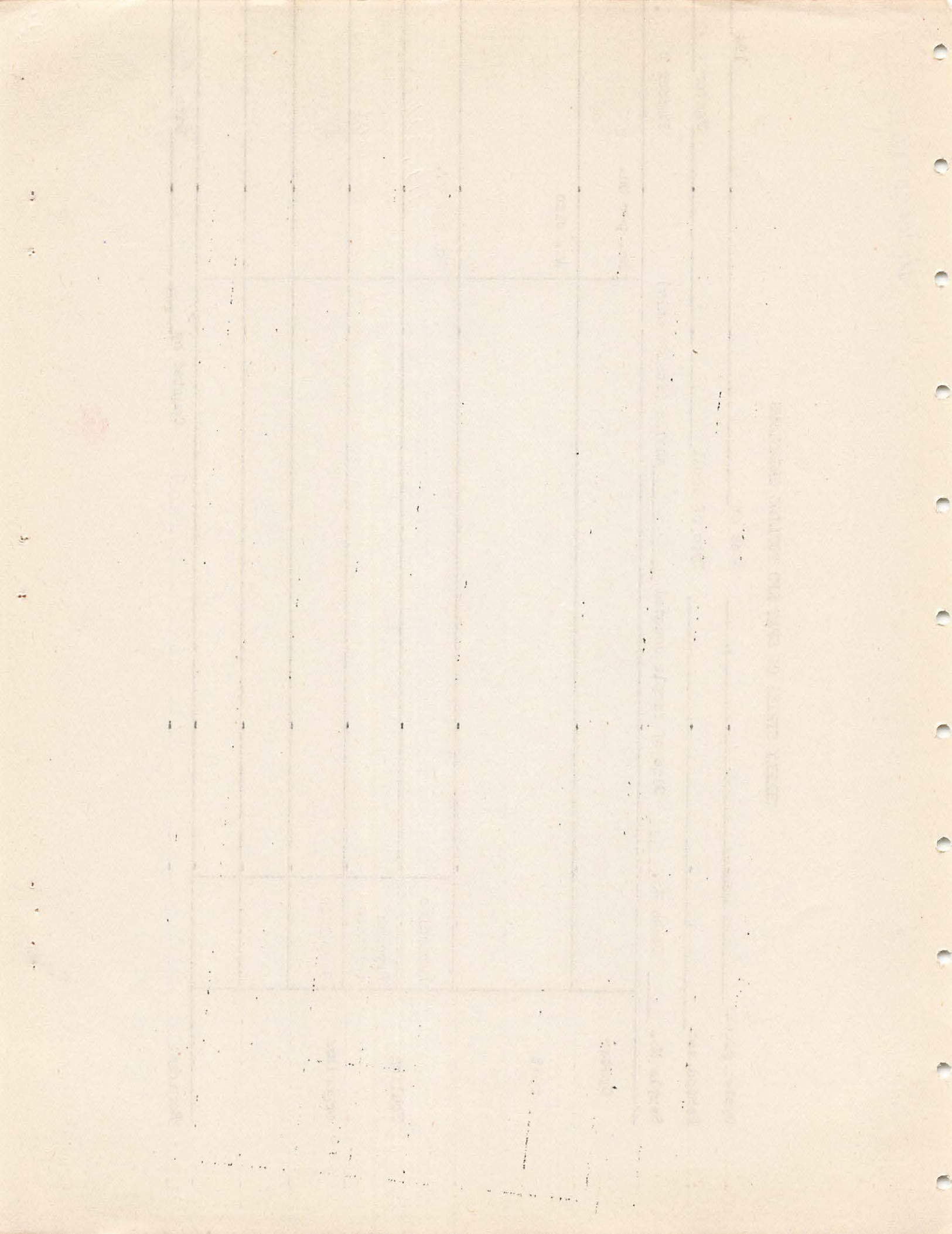
WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge Week of 12-18 Oct 48 1948
 Period set 2 Oct to 16 Oct 48 Type of shell Quinn's (600 per bu) Factor 30
 Sample No. 114 Stake No. 2 Size of sample counted 20 shells (inside only) Factor 2

Oyster	0,0,0,1,1,0,0,0,0 = 2															= 3		No. per bu.						
	0,0,0,0,0,0,0,0,1 = 1																	180						
spat																		Av. size						
Fouling organisms	Barnacles	98	48	175	76	256	81	59	139	56	23	54	88	27	43	21	135	113	118	100	162	(1011) (861) (1872)		No. per bu.
	^{Microbryozoa} Bryozoa colonies	1			3				2	(6)			8										0 = 14	112,320
	Serpulids																			1				= 1

Remarks: I dont understand why there are so many barnacles Counted by J.D. Andrews Date 26 Apr 48
 on this set of shells compared to the previous period.

JDA 13



WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge

Week of 19-25 Oct 1947

Period set 16 Oct to 24 Oct 47

Type of shell Quinnis 600 per bu. factor 30

Sample No. 125 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster	none										No. per bu.													
	<u>70</u>										<u>0</u>													
spat											Av. size													
Fouling organisms	Barnacles	3	25	9	1	15	11	24	9	31	(101)	3	9	6	24	9	0	58	19	16	3	(147)	=248	No. per bu.
		<u>70</u>										<u>14,880</u>												
												No. per bu.												
											<u>0</u>													

REMARKS - I am omitting Spat + Bryozoan counts since none were observed, E. Tresselt Nov. 24, 1947

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge

Week of 19-25 Oct 1947

Period set 16 Oct to 24 Oct 47

Type of shell Quinn's 600 per bu - factor 30

Sample No. 126 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster spat	NO SPAT															No. per bu.								
																0								
Fouling organisms	Barnacles	5	1	2	1	0	0	3	3	1	0	20	1	0	3	0	4	1	1	0	1	0	11	No. per bu.
		5 1 2 1 0 0 3 3 1 0 20 1 0 3 0 4 1 1 0 1 0 11 → 0 → 0															2220 = 37							
																	No. per bu.							
																	0							

By: E. Passelt Nov. 24, 1947

27

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Nansemond Ridge

Week of 2-8 Nov 1947

Period set 24 Oct to 6 Nov 47

Type of shell Quinnis - 600 per bu - factor 30

Sample No. 131 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster spat	No SPAT															No. per bu. <u>0</u>										
																Av. size <u> </u>										
Fouling organisms	Barnacles	0	5	2	9	3	0	7	0	3	3	(18)	0	0	3	3	0	2	4	2	6	0	5	(43)	= 121	No. per bu. <u>7260</u>
																									No. per bu. <u>0</u>	

By E. Tresselt Nov. 19, 1947

LJA

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

S. F. Prescott Nov 12, 1947

Oyster ground Nansemond Ridge

Week of — 194—

Period set 24 Oct to 6 Nov 47

Type of shell Quinn's (600 per bu) factor 30

Sample No. 132 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																				No. per bu.				
																					0				
spat																					Av. size				
Fouling	Barnacles	1	1	4	2	7	5	4	2	1	0	1	46	5	6	0	3	0	0	7	2	2	0	25	No. per bu.
		= 71																							4260
organisms	Membranipora	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No. per bu.
		0																							0

Found one Crepidula

pd
L. J.

Weekly Spatfall on Wreck Shoal, 1947
in

The Tampa River Seed Area

Data on Setting of Oysters and Fouling Organisms
on

20 to 40 Shellfacs in Shellbags

28 May to 2 November, 1947

Jay D. Anderson
VIMS

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 8-14 June 1947

Period set 1500 May 28 to 1600 Jun 10

Type of shell Quinni (600 per bu.) Factor 30

Sample No. 7 Stake No. 1 Size of sample counted 20 shells Inside only - Factor of 2

Oyster spat	None		No. per bu.
			Av. size
Fouling organisms	Barnacles	0/42/0/25/2/2/22/3/6/0/102 // 1/2/1/0/0/2/6/1/20/2	Av. 6.9 per shell = 137 No. per bu. 8,220
	Bryozoa colonies	7/	= 7 No. per bu. 420

5/12

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 8-14 June 1947

Period set 1500 May 28 to 1600 Jun 10

Type of shell Quinn's (600 per bu). Factor 30

Sample No. 8 Stake No. 2 Size of sample counted 20 shells inside only - factor of 2

Oyster spat	None		No. per bu.
			Av. size
Fouling organisms	Barnacles	0/1/8/2/16/0/9/2/1/3 ⁽¹²⁴⁾ 2/2/2/1/59/76/34/2/2/9 ⁽¹⁸⁹⁾ Av. 15.6 = 313	No. per bu. 18,780
	Bryozoa colonies	1/ = 1	No. per bu. 60

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of June 15-21 1947

Period set 1600 Jun 10 - 1015 Jun 18

Type of shell Quinn's (600 per bu.) Factor 30

Sample No. 13 Stake No. 1 Size of sample counted 20 shells inside only - Factor of 2

Oyster	None		No. per bu.
spat			Av. size
Fouling organisms	Barnacles	0/0/0/0/0/0/0/2/0/0 0/0/2/0/0/0/1/0/0/0 ⁽²⁾ = 5 ⁽³⁾	No. per bu. 300
	Bryozoa (colonies)	1/ = 1	No. per bu. 60

More dirt seems to settle on the shells each week. It is held on by a considerable amount of sticky material - ? what it is.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of June 15-21 1947

Period set 1600 Jun 10 - 1230 Jun 18

Type of shell Quinn's Factor 30

Sample No. 14 Stake No. 2 Size of sample counted 20 shells inside only - Factor of 2

Oyster spat	None		No. per bu.
			Av. size
Fouling organisms	Barnacles	0/1/0/5 [*] /0/0/1/0/1/0 // 0/0/0/0/0/2/0/1/0/0 = 11	No. per bu. 660
	Bryozoa		No. per bu. 60

* outside shell facing out

5m81

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 22-28 June 1947

Period set 1015 Jun 18 to 1530 June 25

Type of shell Quinn's (600 per bu.) Factor 30

Sample No. 19 Stake No. 1 Size of sample counted 20 shells (inside only) Factor 2

Oyster spat	None		No. per bu.
			Av. size
Fouling organisms	Barnacles	1/3/0/0/1/0/0/0/1/0 // 0/0/1/0/0/0/1/1/1/0	No. per bu. 600
	Bryozoa colonies	1	No. per bu.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 22-28 Jun 1947

Period set 1230 Jun 18 to 1600 Jun 25

Type of shell Quinn's (600 per bu) Factor 30

Sample No. 20 Stake No. 2 Size of sample counted 20 shells (inside only) Factor 2

Oyster spat	None		No. per bu.
			Av. size
Fouling organisms	Barnacles	o/o/o/o/o/o/o/o/o/o // o/o/o/o/o/o/o/o/o/o = o	No. per bu. o
			No. per bu.

Most of shells are fairly clean of fine sediments + dirt films - some coarse material stuck to shells in spots. Not much evidence of heavy silting

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of Jun 29 - Jul 5 1947

Period set 1530 Jun 25 to Jul 1 (1040)

Type of shell Quinni (600 per bu.) Factor 30

Sample No. 25 Stake No. 1 Size of sample counted 20 shells *(inside only) Factor 2*

Oyster	<i>None</i>		No. per bu.
spat			Av. size
Fouling organisms	Barnacles	$1/0/0/0/0/0/4/1/0/$ ^⑥ // $2/0/0/1/0/0/0/0/0/1/$ ^④ = 10	No. per bu. <i>600</i>
			No. per bu.

Fish eggs on inside of shell // quite a heavy coating of sticky dirt - bacteria or diatom layer on shell

MEK

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of June 29 - July 5 1947

Period set 1600 Jun 25 to 1125 Jul 1

Type of shell Quinn's (600 per bu.) Factor 30

Sample No. 26 Stake No. 2 Size of sample counted 20 shells *(inside only) Factor 2*

Oyster spat	None		No. per bu.
			Av. size
Fouling organisms	Barnacles	1/0/1/0/0/0/0/0/0/0 ² 0/0/0/0/0/0/0/0/0/0 ² = 2	No. per bu. 120
	Sponge spat	1/	No. per bu. 60

MEL

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of JULY 1-9 1947

Period set 1 JULY to 9 July

Type of shell Quinn's (600 per bu) Factor 30

Sample No. 31 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster	None										No. per bu.														
spat											Av. size														
Fouling organisms	Barnacles	15	1	2	0	13	3	1	1	3	3	(42)	79	(37)	1	9	3	2	2	1	6	2	2	9	No. per bu. 4740
	Bryozoa colonies	0	2	8	2	1	37	11	3	3	2	(69)	91	(22)	0	2	2	8	1	1	2	0	3	3	No. per bu. 5460

Serpulid-like sand tubes ||

Folliculina



Many bluish bottle shaped or flask shaped structures inside a more transparent bag - size of

? Membranopora individuals but only 1 ind in every case (colony)

MANY Fish eggs on few shells

DATE OF ORDER _____

NAME OF ORDERING PARTY _____

ADDRESS OF ORDERING PARTY _____

TELEPHONE NO. _____

CITY _____

STATE _____

ZIP CODE _____

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 6-12 Jul 1947

Period set 1125 Jul 1 - 1030 Jul 9

Type of shell Quinns (600 per bu) Factor 30

Sample No. 32 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster	None		No. per bu.
spat			Av. size
Fouling organisms	Barnacles	0/3/5/1/1/0/0/0/2/1 ⁽¹³⁾	4/0/5/0/0/1/7/1/0/1 ⁽¹⁹⁾ Av. 1.6 per shell No. per bu. 32 1920
	Bryozoa Colonies	1/15*/0/3/3/1/2/4/1/9 ⁽³⁸⁾	0/1/12/3/1/11/2/4/1/1 ⁽³⁶⁾ Av. 3.7 per shell No. per bu. 74 4440

* mostly single animals

sand tube like serpulids // //

DATE OF DEATH: _____

PLACE OF DEATH: _____

CAUSE OF DEATH: _____

DECEASED'S SIGNATURE: _____

WITNESSES' SIGNATURES: _____

DATE: _____

S.F. Truesdell
Sept. 18, 1947

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 13-19 July 1947

Period set 9 July - 16 July

Type of shell Quinn's (600 per bu) factor - 30

Sample No. 37 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster	1 0 3 1 2 0 3 1 3 3 (17) 0 3 3 0 4 4 1 1 5 7 (28) = 45																			No. per bu.	
																				<u>2700</u>	
spat																				Av. size	
Fouling organisms	Barnacles	3 11 7 4 4 3 7 4 3 6 (52) 9 1 3 8 4 3 1 4 2 12 (47) = 99																			No. per bu.
	Membranipora	9 4 0 7 5 9 19 5 8 4 (70) 15 5 12 0 4 0 14 40 26 11 (127) = 197																			No. per bu.

Note: - Membranipora very abundant - ancestrula not counted
- Spat were small and scarce

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Counted by J. D. Andrews

Oyster ground WRECK SHOALS

Week of JULY 13-19 1947

Period set 9 JULY to 16 July

Type of shell Purini (600 per bu) factor 30

Sample No. 38 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster	// - III - I - III - III - I - II - 2, 0, 0 = 21										No. per bu. <u>2,040</u>												
	0, 0, 0, 2, 3, 3, 1, 2, 1, 1 = 13 = 34																						
size of spat in spat microns	300, 275 500, 675, 700 275 275, 525, 425, 275, 275 825, 475, 925, 550, 425 525 525, 250										Av. size												
	275, 250 650, 250 275, 450, 1100 425, 275, 650 375 350 325 300																						
Fouling organisms	Barnacles	11	7	12	9	8	3	10	3	1	6	(70) = 158	6	8	4	9	4	8	4	3	2	6	(88) = 9,480
	Bryozoa colonies	15	6	25	11	5	4	26	11	11	35	(9*) (149) = 300	(5*)	(1*)	(2*)	(4*)	(5*)	(1*)	(1*)	(2*)	(4*)	(23) = 18,000	
	Membranopora													23	7	15	13	27	32	2	7	9	16

* Ancestrula only
 10-20 inclusive counted 12 Aug 47
 Quite a no. of blind bottle shaped annelid tubes. (Folliculina)

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 20-26 July 1947

Period set 1330 Jul 16 to 1200 Jul 23

Type of shell Quinn's (600 per bu) Factor 30

Sample No. 43 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster	0, 3, 0, 0, 0, 2, 3, 3, 0, 0	= 11	= 18	No. per bu.
	0, 0, 1, 0, 0, 0, 2, 2, 1, 1	= 7		<u>1,080</u>
spat	375, 250, 550 250, 375 1050, 375, 375 300, 250, 350,			Av. size
	300 875, 275 300, 250 300 275			
Fouling	Barnacles	4/11 1/6/6/5/6/3/11/4 ⁽⁵⁷⁾	2/7/2/2/5/10/5/4/5/14 ⁽⁵⁶⁾	= 113 No. per bu. <u>6,780</u>
	Bryozoan colonies	1/1 ⁽²⁾		= 2 No. per bu. <u>120</u>
organisms				

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 20-26 July 1947

Period set 1330 Jul 16 to 1200 Jul 23

Type of shell Quinn's (600 per bu) Factor 30

Sample No. 44 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster	3, 1, 0, 1, 1, 0, 2, 0, 2, 2	= 12	= 30	No. per bu.			
	0, 2, 1, 4, 0, 4, 1, 4, 0, 2	= 18		1,800			
spat	250, 250, 325 375 425 550 875, 250 350, 375 375, 525			Av. size			
	400, 250 400 550, 450, 350, 275 250, 250, 275, 325 875 1050, 275, 925, 325 275, 450						
Fouling	Barnacles	1 7 7 7 12 2 9 1 14 8	(68)	35 66 36 20 14 8 18 7 4 26	(234)	= 302	No. per bu.
	Bryozoa colonies	7 0 0 6 0 1 10 0 10 16	(50)	0 1 9 8 2 6 0 16 2	(36)	86	No. per bu.
organisms							

* 6 were lone mother animals

Most of barnacles large having set early in week

Most Bryozoa colonies consist only of mother animal. Noticeably reduced from last week - at least colonies are.

Many of the oyster spat showed no new growth but were apparently only cemented to shell. Rather than believe I picked up the bag just after a swarm of larvae decided to strike, I would suggest a high mortality among these spat under 300 μ - in other words a failure to succeed in striking

There seems to be a smaller set this week than last - particularly of larger spat.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

E.F. Truesell
Sept. 13, 1947

Oyster ground Wreck Shoal

Week of 27 July - 2 Aug 1947

Period set 23 July - 30 July

Type of shell Quinn's (600 per bu) factor 30

Sample No. 49 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster spat	<div style="display: flex; justify-content: space-between;"> 5 5 6 3 11 5 6 3 10 4 58 4 16 3 9 3 4 13 6 2 3 63 = (121) </div>																				No. per bu. <u>7260</u>			
																					Av. size			
Fouling organisms	Barnacles	31	97	43	130	308	56	20	42	74	44	(1133)	19	11	30	12	15	6	89	83	19	18	(584)	No. per bu. <u>103,020</u>
	Membranipora	7	0	0	1	3	0	0	5	0	0	(16)			7				2				(9)	No. per bu. <u>1500</u>
	Serpulids ^{note*}				14		17	0		0		(21)	28	0	0	0							(28)	(59)

* I am quite sure the serpulids were on old shells previously exposed at a higher salinity

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 27 July - 2 Aug. 1947

Period set 23 July - 30 July

Type of shell Quinni (600 per bu) Factor

Sample No. 50 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster	6, 5, 16, 3, 3, 0, 2, 2, 3, 2 = 42 2, 4, 6, 6, 5, 1, 4, 3, 2, 3 = 36	= 78	No. per bu. <u>4,680</u>
spat	<p>950, 475, 325, 475, 425, 400 525, 500, 875, 325, 1550 425, 525, 700, 450, 700, 625, 750, 1000, 1550</p> <p>500, 550, 800, 750, 825, 1050, 450 1125, 875, 375 750, 325, 250 275, 1050 550, 475 250, 425, 400 </p> <p>1125, 375 </p> <p>See below = 2464</p>		Av. size
Fouling organisms	Barnacles	114 180 166 97 156 96 180 53 158 126 92 82 72 212 127 126 166 103 38 120	(1326) = 2464 (1138) No. per bu. <u>14,784.0</u>
	Bryozoa colonies <i>Membranipora</i>	2 2 ^{Circular} 1 15 6 5 3 30 3 2 1 1 2 1* 6 2 18	(5) (30) (18) No. per bu. <u>2,880</u>
		= 48	

4-10 done 11 Aug
11-20 - 13 Aug

* Ancestrata only

Size of Spat (No. 10-20) 625, 625 | 1125, 450, 1550, 450 | 475, 375, 375, 400, 625, 600 | 575, 250, 375, 625,
250, 275 | 300, 300, 275, 250, 375, 375 | 500, 550, 250, 475 | 275, 250, 375 | 525, 625 | 300, 350, 250 |

Barnacles of all sizes.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of Aug 3-9 1947

Period set 1100 Jul 30 to Aug 6

Type of shell Quinnis (600 per bu.) Factor 30

Sample No. 55 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster	5, 10, 4, 14, 4, 3, 2, 7, 5, 2 = 56 (704) record 10 6, 10, 20, 8, 3, 3, 2, 7, 10, 1 = 70 = 126 375, 1375, 1050, 650, 425, 875, 600, 650, 375, 350, 500, 875, 1000, 775, 1250, 700, 675, 600, 1125, 950, 925, 650															No. per bu.								
	250, 450, 350, 1525, 1250, 625, 1375, 500, 1150, 1000, 1025, 1050, 950, 975, 750, 1050, 975, 825, 1125, 1150, 750, 475, 250, 250, 1025, 1250, 950, 900, 1125, 1000, 925, 475, 1100, 725, 700, 800, 825, 1025, 1525, 800, 375, 375, 875, 1000, 500, 675, 350, 1125, 550, 375, 350, 1000, 1000, 625, 625, 2000, 1250, 575, 425, 750, 325, 850, 525, 500, 250, 450, 550, 1025, 1250, 1275, 900, 375, 1000, 1250, 1000, 750, 1050, 650, 1250, 600, 1000, 975, 675, 450, 1000, 875, 625, 500, 750, 800, 250, 675															Av. size								
Fouling organisms	Barnacles	2	79	6	4	44	70	17	84	9	14	304	2	59	24	14	10	39	22	17	10	= 830	No. per bu.	
	Bryozoa colonies	1*																					= 1	No. per bu.
	Membranipora		0	2	1		2	1				1						2	1				= 10	No. per bu.
	Artemia Crepidula	1	0	0									2	1				1	2				= 7	No. per bu.

* circular colonies

Most of the barnacles are very large this week and must have set early. A small percentage of small dead barnacles are present suggesting mortality rather than a late-in-the-week set. The oyster spat are also large on the average.

I had not expected the *Crepidula* at Wreck Shoal.

□ around *Crepidula*

E. F. Tresselt
Sept. 16, 1947

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 3-9 August 1947

Period set 30 July - 6 Aug

Type of shell Quinn's (600 per bu) factor 30

Sample No. 56 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster	7 15 3 7 4 5 15 8 5 2 <u>(71)</u> 9 9 11 2 13 13 17 7 10 4 <u>(104)</u> <u>=175</u>																		No. per bu. <u>10,500</u>							
	spat																		Av. size <u>=587</u> <u>(263)</u>							
Fouling organisms	Barnacles	48	7	0	29	7	19	16	8	2	38	6	<u>(324)</u>	12	0	12	9	19	19	10	5	31	38	18	No. per bu. <u>35,220</u>	
	Bryozoa																									No. per bu. <u>=81</u>
	Membranipora	4	3	1	12	0	2	0	1	20	9	<u>(52)</u>	0	3	1	1	0	19	0	1	2	2	<u>(29)</u>		No. per bu. <u>4,860</u>	
	Tingles																									
	Polychaeta																									

NOTE: - found app. $\frac{1}{2}$ doz. small oyster drills, no! 800A some attached to spat; no drill holes observed on spat
 - shells in this basket were old; some had old tube worms; discarded these shells
 - Polychaeta (class) with sand grain tube observed,
 * anacithula not counted

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 10-16 August 1947

Period set 6 Aug - 14 Aug

Type of shell Purpuric (600 per bu) factor 30

Sample No. 61 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster	13, 17, 13, 13, 10, 13, 14, 29, 17, 15 = 154															No. per bu. 16,680									
	14, 13, 11, 5, 10, 10, 8, 8, 31, 14 = 124																								
spat	1750, 425, 1500, 1225, 675, 550, 400, 450, 750, 350, 300, 550, 500,															Av. size									
Fouling	Barnacles	20	23	43	4	5	2	5	88	93	12	(295)	2	12	14	3	14	11	19	8	11	72	(166)	461	No. per bu. 27,660
	<i>Membranipora</i> Bryozoa	1	1		1	1				17*	13	1	(35)	3	2		2	5	2			1	(15)	50	No. per bu. 3,000
organisms																									

* 6 ancestrula in addition
 outside of shell 13 = 8 spat
 Most of the barnacles had just set.

Counted 8 Sep 47

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

E. F. Tresselt
Sept. 19, 1947

Oyster ground Wreck Shoal

Week of 10-16 Aug 1947

Period set 6 Aug 47 - 14 Aug 47

Type of shell Quinn's (600 per bu) factor 30

Sample No. 62 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster spat	11 12 14 6 8 31 9 16 25 12 (144) 3 11 18 21 11 12 19 7 40 5 (147) = 291																				No. per bu. <u>17,460</u>	
																					Av. size <u>2</u>	
Fouling organisms	Barnacles	13 4 1 2 7 8 6 40 26 5 27 11 (212) 1 28 16 25 5 5 25 5 11 5 (126) = 338																		No. per bu. <u>20,280</u>		
	Bryozoa Colonies*																					No. per bu.
	Membranipora	4 16 19 26 4 9 17 2 6 10 (113) 0 4 4 4 2 1 2 0 17 2 11 (65) 178																		<u>10,680</u>		

* anemone not counted

Note: - Counted 9 drills on shells, some on spat, all near spat; no drill holes observed.
- Spat varied in size

E.F.T.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

E. Truselt
Sept. 10, 1947

Oyster ground Wreck Shoal

Week of 17-23 Aug 1947

Period set 14 Aug - 21 Aug

Type of shell Quinn's (600 per bu) - Factor 30

Sample No. 67 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster spat	40	90	19	52	10	20	23	22	12	(26)	9	22	12	11	45	23	17	109	14	44	(306)	= 567	No. per bu. 34,020											
																							Av. size											
Fouling organisms	Barnacles										273	76	100	3	103	107	66	48	57	58	(89)	81	116	16	62	38	57	122	45	16	45	(598)	= 1489	No. per bu. 89,340
	BRYOZOA																									= 17	No. per bu.							
	Membranipora										1	0	1	13	0	0	0	0	0	0	(13)	0	0	0	0	0	0	0	0	0	0	(2)	10	20

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 17-23 Aug 1947

Period set 14 Aug. to 21 Aug

Type of shell Quinni (600 per bu) factor 30

Sample No. 68 Stake No. 1 Size of sample counted 20 shells

Oyster	50, 31, 41, 17, 11, 22, 28, 21, 30, 12 = 263															No. per bu. 33,960									
	48, 79, 17, 21, 14, 17, 44, 14, 10, 39 = 303																								
spat	1050, 1125, 1150, 800, 375, 950, 350, 1450, 1100, 850, 975, 1425, 700, 725, 1375, 1375, 1750, 800, 1300, 1500, 1175, 1875, 1525, 1150, 850, 1750, 275, 550, 1125, 700, 975, 1825, 400, 725, 1625, 1800, 300, 625, 275, 1250, 975, 1550, 1750, 300, 975, 1500, 1775, 1500, 550, 1475															Av. size									
Fouling organisms	Barnacles	153	20	84	0	14	0	185	53	52	2	(563)	188	3	17	26	10	34	17	2	18	(216)	= 779	No. per bu. 46,740	
	Membranipora	2	1	2				1				(6)	2	4									(11)	= 17	No. per bu. 1,020
	Bryozoa																								
	Acanthodesia																								

Membranipora colonies only 2 or 3 zoecia
 Although some spat are usually found along with a heavy set of barnacles on a shell, this week whole sections of shells + some entire shells have many spat with no barnacles at all. Angle of exposure involved.

E.F. Truesell
Sept. 22, 1947

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 17-23 Aug 1947

Period set 14 Aug to 21 Aug

Type of shell Quinni (600 per bu) - factor 30

Sample No. 68 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster	16	35	23	138	89	10	13	28	(163)	3	14	13	43	26	84	34	13	14	24	(268)	= 431	No. per bu. <u>25,860</u>																					
	spat																					Av. size																					
Fouling	Barnacles																			3	2	16	20	4	7	15	21	0	0	(88)	6	3	0	59	4	8	12	3	7	8	(183)	= 271	No. per bu. <u>16,260</u>
	Membranipora																			1	0	4	1	6	3	2	0	0	1	(12)	0	0	0	0	0	0	3	0	0	0	(3)	= 15	No. per bu. <u>900</u>
organisms																																											

Notes: - a few drills(?) found on or near spat; no drill holes
- good percentage of spat were large & well developed.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 24-30 Aug 1947

Period set 21 Aug - 28 Aug 47

Type of shell Quinn's (600 per bu) - factor 30

Sample No. 73 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster	23, 29, 88, 30, 40, 22, 18, 17, 10, 25 = 302		= 624	No. per bu.
	23, 19, 32, 20, 51, 38, 28, 14, 76, 20 = 322			37, 440
spat	325, 950, 1375, 1050, 675, 1025, 1100, 1000, 275, 1250, 375, 750, 925, 1075, 1250, 1225, 625, 250, 750, 625, 400, 1200, 1125, 1500, 1625, 1675, 2700, 1700, 875, 1375, 1625, 500, 1450, 625, 800, 600, 1275, 1000, 1600, 875, 1500, 750, 950, 700, 300, 1000, 1050, 1000, 1350, 1500, 1000			Av. size
Fouling organisms	Barnacles	29 51 61 67 12 26 74 79 2 211	(612) 13 73 16 11 26 15 33 8 13 3	(211) = 823 No. per bu. 49,380
	Tingle	1		No. per bu.
	Membranipora	1		= 1 60

Many barnacles caught in metamorphosis - half way out of the cypid case

E.F. Truesell
Sept. 20, 1947

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 24-30 Aug. 1947

Period set 21 Aug to 28 Aug.

Type of shell Quinni (600 per bu) factor 30

Sample No. 74 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster spat	33 33 18 38 36 22 12 42 7 63 (304) 25 48 23 13 4 57 77 31 21 26 (325) = 629																				No. per bu. <u>37,740</u>			
																					Av. size			
Fouling organisms	Barnacles	150	46	0	93	20	35	1	9	0	22	(376)	1	6	1	4	1	32	85	6	0	1	(137)	= 513 No. per bu. <u>39,780</u>
	Acanthodesia				1																			= 64 No. per bu. <u>3870</u>
	Membranipora	0	4	0	2	1	3	0	25	0	0	(35)	0	4	1	0	0	4	17	1	0	2	(29)	
	Single Shells	1	0									(1)												

Note: - spat tended to be well developed; majority large but some had just struck.
 - Membranipora scattered; heavy on some shells
 - spat very abundant on most shells.

MEL

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 31 Aug - 6 Sept 1947

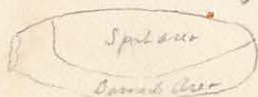
Period set 28 Aug - 3 Sept

Type of shell Quinn's (600 per bu) - factor

Sample No. 79 Stake No. 1 Size of sample counted 20 shells inside only

Oyster	40, 35, 48, 36, 61, 88, 40, 15, 23, 19, = 405		= 748	No. per bu.		
	38, 19, 10, 61, 72, 25, 36, 17, 33, 32 = 343			44,880		
spat				Av. size		
Fouling organisms	Barnacles	54 25 12 78 20 29 96 21 1 15	(451)	No. per bu. 45,660		
		74 9 1 87 14 9 48 50 4 14	(310)			
	Anomia		1?	(1)	No. per bu. 180	
				(2) = 3		
	Membranopora			2	(2) = 2	120

No evidence of Bryozoa colonies. Many shells have a rather heavy coat of tightly stuck dirt. Most of oyster spat are small - around 500µ or less. It is again striking that where barnacles are set thickest there are few spat + vice versa. (See shell 7 particularly) A comparison of whole shells does not begin to show the story. I drew a line on this shell separating what I call barnacle area from spat area & counted the no of each in both areas.



Barnacle Area	Barnacle	Spat
	85	4
Spat Area	11	36

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

E. F. Truesdell
Sept. 15, 1947

Oyster ground Wreck Shoal

Week of 31 Aug - 6 Sept 1947

Period set 28 Aug - 3 Sept

Type of shell Quinni (600 per bu) factor 30

Sample No. 80 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster	49 23 21 21 8 13 44 54 24 17 274 22 20 11 21 28 25 10 10 18 22 187																				No. per bu.				
	= 461																				<u>27,660</u>				
spat																					Av. size				
Fouling organisms	Barnacles	10	3	5	0	22	3	7	8	0	10	40	215	9	3	34	4	3	21	0	13	89	13	189	No. per bu.
	Bryozoa																					= 404	<u>29,240</u>		
	Membranipora	0	2	0	0	0	1	0	0	1	0	4	0	0	0	0	0	0	3	0	0	1	4	= 8	No. per bu.
	Jingle Shells																					①			

NOTE:

- discarded shells with excessive no. of barnacles
- spat ran small
- note colonial hydrazoa on shells 5, 13, and filamentous algae on shells 5, 1, 2, 13

MEJ

55
133
148

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 7-13 Sept 1947

Period set 3 Sept to 11 Sept 47

Type of shell Quinn's 600 per bu. factor 30

Sample No. 85 Stake No. 1

Size of sample counted 20 shells inside only - factor 2

Oyster spat	5 22 17 10 22 6 8 12 15 15 (132) 15 55 27 10 18 9 10 3 14 31 (188) = 320																				No. per bu. 19200
																					Av. size
Fouling organisms	Barnacles	0 20 11 5 11 11 3 0 2 4 (67) 19 16 3 0 0 0 0 0 2 5 (35) = 102																			No. per bu. 6120
	Membranipora	0 0 2 0 29 6 2 0 1 1 (41) 0 0 6 0 0 1 0 0 0 5 (6) = 47																			No. per bu. 3820

COUNTED BY: E. Tresselt

LD

Counted by Tresselt + Andrews
11 Sept, 47

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 7-13 Sept 1947

Period set 3-11 Sept.

Type of shell Quinn's (400 per bu) - factor 30

Sample No. 86 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster	45, 24, 24, 49, 31, 16, 17, 18, 40, 52, 24, 24, 33, 13, 27, 15, 19, 29, 39																No. per bu.						
	$\begin{array}{r} 16 \\ \hline 316 \end{array}$																239 = 555	33,300					
spat	Mostly small spat around 500μ																Av. size						
Fouling organisms	Barnacles	2	30	7	4	11	19	3	26	7	9	1	4	10	8	1	6	4	2	7	22	= 183	No. per bu. 10,980
	Membranipora		1	15	0	0	1	0	2	1	0	0	0	1	0	17		5	2	2		= 47	No. per bu. 2,820
	Bryozoa																						

M&F

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 14-20 Sept 1947

Period set 11 Sept to 18 Sept

Type of shell Quinn's (600 per bu) - factor 30

Sample No. 91 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster	9, 14, 11, 16, 8, 24, 16, 4, 13, 10 = 125		= 251	8, 31, 19, 13, 11, 9, 14, 6, 13, 2 = 126		No. per bu.					
					15,060						
spat						Av. size					
Fouling organisms	Barnacles	43385	80392	981512	(251)	232276283822619	(267)	= 458	No. per bu.		
	<i>Membranipora</i>	2		2131	(9)	111		1	(13)	= 22	No. per bu.
	<i>Bryozoa colonies</i>										

The shells this week are strikingly clear. Scarcely a one has any coat of slime or dirt. Can this be the time of year when scouring occurs or is it due to this recent spell of heavy winds & abnormal tides? Most of the shells appear cleaner than when put down. Nearly all of these spat are small, mostly under 500µ. This is surprising considering the drop from last week. I would have expected a few old large spat, set early in the week, representing the tail end of the big brood. These are the beginning of a ^{new} brood with a lag of 4 or 5 days since the last brood passed.

E. F. Trussell
Sept 23, 1947

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 14-20 Sept 1947

Period set 11 Sept to 18 Sept

Type of shell Quinni (600 per bu) factor 30

Sample No. 92 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster spat	4 7 8 11 10 2 3 4 2 5 <u>56</u> 6 5 3 7 3 4 7 6 4 8 <u>53</u> = 109																				No. per bu. <u>6540</u>					
																					Av. size					
Fouling organisms	Barnacles	12	24	8	15	1	6	0	1	0	0	<u>67</u>	13	6	0	5	5	0	3	3	2	2	9	<u>66</u>	= 133	No. per bu. <u>7,980</u>
	Membranipora	2	0	0	0	0	0	1	19	0	0	<u>23</u>	1	0	0	0	1	0	0	0	2	4	<u>8</u>	= 29 30	No. per bu. <u>1,800</u>	

Note: - 3 drills(?)^{no!} observed on spat.
 - a few sand tubes observed,
 - spat few; size varied-

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 21-27 Sept 1947

Period set 18 Sept - 26 Sept

Type of shell Quinn's (100 per bu) - factor 30

Sample No. 97 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster	6, 6, 10, 2, 6, 7, 12, 7, 5, 7 = 68															No. per bu. 6,900															
	7, 1, 9, 3, 4, 8, 4, 3, 1, 7 = 47																														
spat																Av. size															
Fouling organisms	Barnacles	33	9	36	15	47	16	9	2	4	9	24	10	1	39	11	19	6	5	4	2	7	19	22	0	31	(485)	= 911	No. per bu. 54,660		
	Membranipora	5			1										(6)	1							2				(3)	= 9	No. per bu. 540		
	Bryozoa																														
	Mussel								1	1					(2)														= 2	120	

Most of shells extra ordinarily clean - some scrupulously scoured - no slime layer or dirt
 Most of barnacles small many without hard shell yet
 Most oysters under 400µ
 I can find no mussels on the back of these shells; if the hooked mussel spawns as early here as the edible mussel does in Milford Bay, late August plantings would avoid them for a full year

RECORD OF SET OF OSTREA AND ANOMIA ON SHELLS IN WIRE BAGS
(Size in mm.)

Oyster ground Wreck Shoal Period set 18 Sept to 26 Sept 47 Sample No. 98 Stake No. 2

Type of shell Quinn's (600 per bu) Size of sample counted 20 shells (inside only) Factor 60

Oyster spat	Live	1 1 1 5 5 4 2 11 5 1 (36) 1 2 3 2 1 2 2 3 1 2 (19) = 55																				No. per bu. <u>3300</u>
	Dead																					
	Boxes																					
	Drilled																					
	Others																					
	Scars																					
Anomia	BARNACLES	0 3 1 0 8 1 2 17 0 1 (107) 0 29 1 5 9 1 0 5 0 2 (52) = 159																				No. ov. <u>9,540</u>

Counted by E. Truett Date Dec 20, 47

Handwritten initials

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

E. F. Tresselt
Oct. 6, 1947

Oyster ground Wreck Shoal

Week of 28 Sept - 4 Oct 1947

Period set 26 Sept to 2 Oct

Type of shell Quinine (600 per bu) - factor 30

Sample No. 103 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster spat		1 1 2 2 6 0 1 0 3 0 <u>16</u> 2 1 1 2 3 2 2 3 1 3 <u>20</u> = 36	No. per bu. <u>2160</u>
			Av. size
Fouling organisms	Barnacles	1 4 0 1 1 0 1 0 0 0 <u>18</u> 1 3 0 0 0 2 2 1 0 1 2 <u>30</u> = 48	No. per bu. <u>2880</u>
	BRYOZOA	<u>0</u> <u>0</u> = 0	No. per bu.

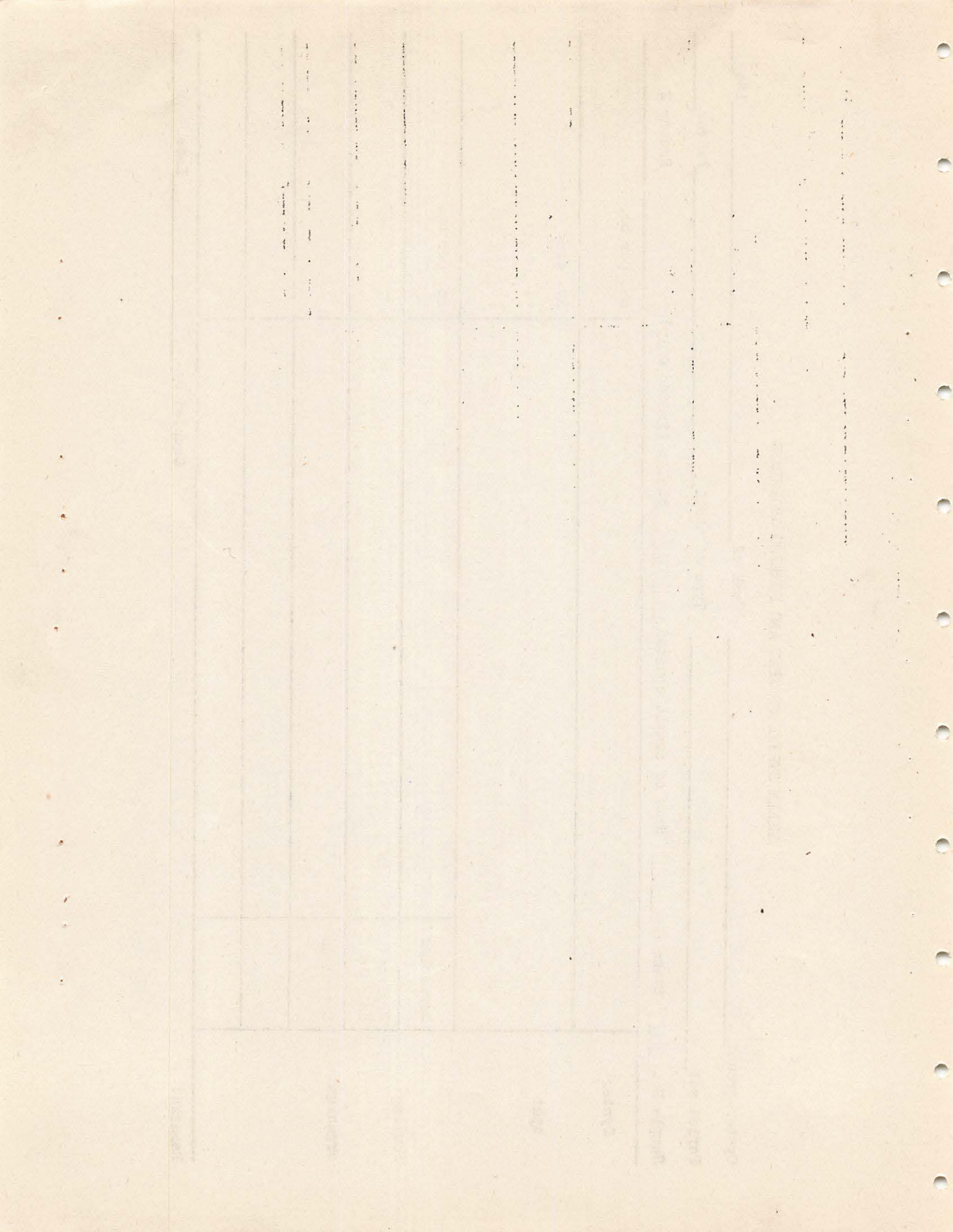
WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal Week of 30 Sept to 4 Oct 1947
 Period set 26 Sept to 2 Oct Type of shell Quinn's (600 per bu) Factor 20
 Sample No. 104 Stake No. 2 Size of sample counted 30 shells (inside only) Factor 2

Oyster	1, 3, 13, 7, 1, 2, 1, 4, 2, 0 = 34										No. per bu.													
	2, 6, 2, 3, 2, 1, 0, 0, 0, 1 = 17										2,440													
spat	2, 0, 1, 1, 0, 0, 1, 2, 3, 0 = 10										Av. size													
	61																							
Fouling organisms	(194) (79)										No. per bu.													
	Barnacles	22	6	4	2	1	8	1	3	2	11	29	13	10	2	3	6	10	1	15	14	5	= 396	15,840
	Bryozoa Mem colonies	0																						
	Acanth	0																						
	Serpulids																							
	Barnacles	5	9	5	4	4	2	2	3	1	17	6	2											

Remarks: most of barnacles quite late in the week set. Very little dirt. No Bryozoa observed. Counted by J. D. Andrews Date 3 Mar 48

L.J.



WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal

Week of 5-11 Oct 1947

Period set 2 Oct to 9 Oct.

Type of shell Quinni (600 per bu) factor 30

Sample No. 109 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster	0,1,0,0,0,0,0,0,0 = 1		= 2			No. per bu.																					
	0,0,0,0,0,0,0,0,1 = 1					<u>120</u>																					
spat						Av. size																					
Fouling organisms	Barnacles	10	1	6	2	2	7	0	6	1	9	1	0	(72)	7	2	1	4	0	0	2	4	8	1	55	= 127	No. per bu.
																										<u>7620</u>	
																										No. per bu.	

ME 2

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

E. Russell, Nov. 5, 1947

Oyster ground Wreck Shoal

Week of 5-11 Oct 1947

Period set 2 Oct to 9 Oct

Type of shell Quinni (600 per bu) Factor 30

Sample No. 110 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster spat	0 0 0 0 1 7 0 0 0 0 0 1 7 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	(10) These two shells should have been discarded. Previous exposure!	No. per bu. 0
			Av. size
Fouling organisms	Barnacles: 2 1 3 2 1 4 4 9 4 6 3 (48) 6 0 3 0 3 0 3 2 9 0 (26) = 74		No. per bu. 4440
	MEMBRANIPORA 0 0 0 0 0 0 0 0 0 0 (0) 0 0 0 0 0 0 0 0 0 0 (0) = 0		No. per bu. 0

Note: -Barnacles were small,
 -I do not consider the spat count shown above to be accurate because spat that did occur were bleached; numbers were out of proportion to rest of shells. The shells with spat were probably set at some previous time

Jr

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal Week of 12-18 Oct 1947
 Period set 9 Oct to 17 Oct 47 Type of shell Quinni (600 per bu) Factor 30
 Sample No. 115 Stake No. 1 Size of sample counted 20 shells (inside only) Factor 2

Oyster	0,0,0,0,0,0,0,0,0,0,0,0												No. per bu.															
	0,0,0,0,0,0,0,0,0,0,0,0												0															
spat													Av. size															
Fouling organisms	Barnacles	19	30	20	24	48	33	33	47	34	21	(307)	26	74	9	9	9	52	78	21	6	44	(352)	= 637	No. per bu.			
	Bryozoa memb. colonies												1												= 1	38,220		
	Serpulids																											60

Remarks: *These shells were generally covered with a thin layer of silt + much dirtier than the clean shells counted in 104 last night. Many of the barnacles were several days old. Only on 2 box colony of Bryozoa seen.*

Counted by J. D. Andrews Date 4 Mar 48

L.J.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

E. Thruswell - Nov. 7, 1947

Oyster ground Wreck Shoal

Week of 12-18 Oct 1947

Period set 9 Oct to 17 Oct

Type of shell Quinn's (600 per bu) Factor 30

Sample No. 116 Stake No. 2

Size of sample counted 20 shells inside only - factor 2

Oyster	0 0 0 0 0 0 0 0 0 0 ① 0 0 1 0 0 0 0 0 0 0 ① = 1																			No. per bu.				
																				<u>60</u>				
spat																				Av. size				
Fouling	Barnacles	30	33	5	60	10	29	5	5	32	17	②226	152	89	56	10	29	52	24	19	31	18	④480	No. per bu.
		<u>= 706</u>																						<u>42,360</u>
organisms	Membranipora	0	0	0	0	0	0	0	0	0	0	①	0	0	0	1	0	0	0	0	0	0	① = 1	No. per bu.
		<u>60</u>																						

Note: Several shells had spat on fringes, but were assumed to be spat set at some other time, since they were large + bleached.

23

RECORD OF SET OF OSTREA AND ANOMIA ON SHELLS IN WIRE BAGS
(Size in mm.)

Oyster ground Wreck Shoal Period set 17 Oct to 23 Oct 47 Sample No. 121 Stake No. 1

Type of shell Quinni (600 per bu) Size of sample counted 20 shells (inside only) Factor 60

Oyster spat	Live																					70				
	Dead	Boxes	Drilled																							
			Others																							
	Scars																									
Anomia		BARNACLES	6	6	5	5	7	0	4	9	13	8	63	1	0	1	5	0	0	3	9	32	5	56	= 119	7140 per bu.

Counted by E. T. Arnold Date Dec 20 '47

Handwritten initials

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground WRECK SHOAL (weekly) Week of 2-8-NOV 47 194
 Period set 23 Oct to 6 Nov 47 Type of shell Quinn's 600 per bu Factor 30
 Sample No. 127 Stake No. 1 Size of sample counted 20 shells (inside only) Factor 2

Oyster	NONE										No. per bu.	0														
spat											Av. size															
Fouling organisms	Barnacles	1	3	9	1	4	1	8	6	3	0	36	3	7	9	3	1	3	7	0	0	2	2	46	No. per bu.	4920
	Bryozoa colonies	NONE											0													
	Serpulids																									

Remarks:

Counted by E. Thresselt Date Nov 28, '47

[Handwritten initials]

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Wreck Shoal Week of 2-8 Nov 1947
 Period set 23 Oct to 6 Nov 47 Type of shell Quinni-600 per bu-factor 30
 Sample No. 128 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster													No. per bu.												
spat	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
Fouling organisms	Barnacles	4	2	0	8	10	1	2	2	4	8	H	5	1	2	1	6	0	1	4	1	2	23	= 64	No. per bu.
	MEMBRANIPORA	0	0	0	0	0	0	0	0	0	0	0	0									1	1	= 1	No. per bu.

By E. T. Russell, Nov. 1947

23

MEMBER STATES OF STATE AND FOUNDED ORGANIZATION WITH FOUNDED ORGANIZATION

Operator number of 100 Operator number of 100

Period of time of 100 Period of time of 100

No. per bu.	Operator	No. per bu.	Operator
Av. size	Av. size	Av. size	Av. size
No. per bu.	Operator	No. per bu.	Operator
No. per bu.	Operator	No. per bu.	Operator
Av. size	Av. size	Av. size	Av. size
Av. size	Av. size	Av. size	Av. size

Weekly Spatfall on Deep Water Shoal, 1947
in
The Jammu River Seed Area

Data on Settling of Oysters and Fouling Organisms
on

20 to 40 shellfaced in $\frac{1}{4}$ Bu. Shellbags

Jay D. Andrews

VIMS

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals

Week of 18-24 May 1947

Period set 21 May - 29 May

Type of shell Quinn's (600 per bu.) Factor 30

Sample No. 3 Stake No. 1 Size of sample counted 26 shells inside shell - factor of 2

Oyster spat	None		No. per bu.
			Av. size
Fouling organisms	Barnacles	6/7/14/2/23/10/6/5/15/5 ⁽⁹³⁾ 52/23/2/4/3/1/1/0/45/0 ⁽¹³¹⁾	Av. 11.2 per shell No. per bu. <u>13,440</u>
			No. per bu.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals

Week of 18-24 May 1947

Period set 21 May - 29 May

Type of shell Quinn's (600 per bu) Factor 60

Sample No. 4 Stake No. 2 Size of sample counted 10 shells inside only - factor of 2

Oyster spat	None		No. per bu. _____
			Av. size _____
Fouling organisms	Barnacles	51/8/92/2/68/5/10/30/4/24	Av. 29.4 per shell = 294 No. per bu. <u>35,280</u>
			No. per bu. _____

<p>NAME</p>	<p>ADDRESS</p>	<p>CITY</p>	<p>STATE</p>	<p>ZIP</p>
<p>DATE</p>	<p>TIME</p>	<p>LOCATION</p>	<p>WEATHER</p>	<p>OTHER</p>
<p>REMARKS</p>	<p>DESCRIPTION OF OBSERVATION</p>			

NAME OF OBSERVER _____
 TITLE OF OBSERVER _____
 ORGANIZATION _____
 ADDRESS _____
 CITY _____ STATE _____ ZIP _____

THIS REPORT IS REQUIRED BY THE NATIONAL BUREAU OF METEOROLOGY

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals *

Week of 8-14 Jun 1947

Period set 1100 May 29 - 1345 Jun 11

Type of shell Quinn's (600 per bu.) Factor 30

Sample No. 9 Stake No. 1 Size of sample counted 20 shells inside only - factor of 2

Oyster spat	None		No. per bu.
			Av. size
Fouling organisms	Barnacles	75/2/10/7/5/5/1/2/3/2 ⁽¹¹²⁾ 16/8/11/2/4/4/6/1/2/1 ⁽⁵⁵⁾	Av. 8.4 per shell = 167
			No. per bu. 10,020
			No. per bu.

* Shells covered with algae like growth + dirt

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals*

Week of 8-14 Jun 1947

Period set 1100 May 29 - 1020 Jun 11

Type of shell Quinn's (600 per bu) Factor 30

Sample No. 10 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster spat	None		No. per bu.
			Av. size
Fouling organisms	Barnacles	17/0/3/0/0/1/6/0/2/1 ⁽³⁰⁾ 3/10/6/0/0/1/2/4/3/4 ⁽³³⁾	Av. 3.2 per shell No. per bu. = 63 3,780
			No. per bu.

* Shells covered with algae-like growth + dirt

Date	Time	Location	Description	Remarks	Temperature	Humidity	Wind	Weather
1918	10:00	Camp	Clear	75	60	5	S	Clear
1918	11:00	Camp	Clear	78	62	5	S	Clear
1918	12:00	Camp	Clear	80	65	5	S	Clear
1918	13:00	Camp	Clear	82	68	5	S	Clear
1918	14:00	Camp	Clear	85	70	5	S	Clear

UNITED STATES GEOLOGICAL SURVEY

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals

Week of June 15-21 1947

Period set 1345 Jun 11 to 1630 Jun 18

Type of shell Quinn's (600 per bu.) ^{Factor 30}

Sample No. 15 Stake No. 1 Size of sample counted 20 shells *inside only - Factor 2*

Oyster spat	None		No. per bu.
			Av. size
Fouling organisms	Barnacles	13 0 1 12 3 2 1 12 4 0 4 14* 1 4 10 0 0 1 3 10 = 95	No. per bu. 5,700
		<div style="display: flex; justify-content: space-between;"> ↑ Top ↑ Bottom </div>	No. per bu.

* outside shell quite a lot of dirt settled on shells

JAY DONALD ANDREWS

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals

Week of 8-14 June 1947

Period set 1020 Jun 11 to 17 Jun 18

Type of shell Quinni (600 per bu) Factor 30

Sample No. 16 Stake No. 2 Size of sample counted 20 shells INSIDE ONLY-factor 2

Oyster	None										No. per bu.												
spat											Av. size												
Fouling organisms	BRISTLY SPONGE	0	0	0	0	0	0	0	0	0													
	Barnacles	6	7	4	18	1	8	6	7	32	3	2	0	7	4	5	1	1	1	1	AV. 4.4 per shell = 87	No. per bu. 5,220	
	SEAPHLIDS	0	0	0	0	0	0	0	0	0													
	SPONGE SPOTS	0	0	0	0	0	0	0	0	0													
	BRIZOA COLONIES	0	0	2	0	0	0	1	0	2	2	2	2	1	3	1	0	0	3	3	0	= 22	1,320

BRIZOA LIKE COLONIES BUT SMALLER TOO NUMEROUS TO COUNT OR ABOUT 2/3rd COUNTED.
of shells

ME

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2048
2049
2050

RECEIVED OF _____
 THE SUM OF _____
 FOR _____
 THIS _____ DAY OF _____
 19____

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals

Week of 15-21 June 1947

Period set 1630 June 18 to 13³ Jun 26

Type of shell Quinn's (600 per bu) Factor 30

Sample No. 21 Stake No. 1 Size of sample counted 20 shells (INSIDE ONLY) Factor 2

Oyster	None										No. per bu.	
	spat										Av. size	
Fouling organisms	Bristly Sponge	0	0	0	0	0	0	0	0	0		
	Barnecl:s	4	1	0	1	0	0	1	0	0	0/0/0/0/0/0/0/0/0/0/	= 7 420
	SERPENTIDS	0	0	0	4	0	0	0	0	0	(4) These must have been on an old shell previously exposed. = 4	240
	Red SPONGE SPOT	0	0	0	0	0	0	0	0	0		
	BRYOZOA COLONIES	3	2	2	1	1	3	2	0	5	(21) 3/11/6/6/1/7/9/5/7/8 (63) = 84	5040

BRYOZOA LIKE COLONIES BUT SMALLER. FIFTEEN ON ONE SHELL.
 Most of the bryozoa colonies are very small - at least half being a single cell.

No. 1	100	100	100	100	100
No. 2	100	100	100	100	100
No. 3	100	100	100	100	100
No. 4	100	100	100	100	100
No. 5	100	100	100	100	100
No. 6	100	100	100	100	100
No. 7	100	100	100	100	100
No. 8	100	100	100	100	100
No. 9	100	100	100	100	100
No. 10	100	100	100	100	100

of 100

to 100

to 100

to 100

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground DEEP WATER SHOALS

Week of JUNE 22-28 1947

Period set 18 JUNE to 26 Jun

Type of shell Quinn's (600 per bu.) Factor

Sample No. 22 Stake No. 2 Size of sample counted 20 shells (inside only) - factor 2

Oyster	None										No. per bu.												
spat											Av. size												
	Bristly Sponges 0 0 0 0 0 0 0 0 0 0																						
Fouling organisms	Barnacles	0	0	0	2	0	0	0	0	1	0	③ = 6	2	1	③	No. per bu. 360							
	SERPHELIDS	0	0	0	0	0	0	0	0	0	0	0				No. per bu.							
	Red SPONGE SPOTS	0	0	0	0	0	0	0	0	0	0												
	BRYZOA Colonies	3	0	1	0	1	1	0	0	2	0	⑧ = 42	2	1	⑤	2520							
												Membranipora	1	2*	4*	3 ^(2*)	2*	3 ^(1*)	4*	3*	2 ^(1*)	5 ^(1*)	②⑨

* Ancestrula only

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals

Week of June 29 - July 5 1947

Period set 1100 Jun 26 to 1030 Jul 2

Type of shell Quinn's (600 per bu) Factor 30

Sample No. 28 Stake No. 2 Size of sample counted 20 shells *(inside only)* Factor 2

Oyster spat	<i>None</i>		No. per bu.
			Av. size
Fouling organisms	Barnacles	1/7/0/0/1/0/2/1/1/0 ⁽¹³⁾ // 0/0/0/0/0/0/3/0/0/0 ⁽³⁾ = 16	No. per bu. <i>960</i>
			No. per bu.

met

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals

Week of 6-12 July 1947

Period set 1230 Jul 2 - 1100 Jul 10

Type of shell Quinn's (600 per bu.) Factor 30

Sample No. 33 Stake No. 1 Size of sample counted 20 shells (inside only) factor 2

Oyster	None															No. per bu.							
spat																Av. size							
Fouling organisms	Barnacles	11	1	9	50*	17	3	11	9	5	4	2	10	15	3	1	9	4	12	0	9	Av. 9.3 per shell = 185	No. per bu. 17,100
	Bryozoa colonies	2	0	0	0	2	4	3	0	0	1	2	3	0	2	0	1	0	3	1	0	= 24	No. per bu. 1,440

First four shells observed immediately after taking up while still wet - nothing new.
 Quite a lot of dirt has settled on shells
 * outside shell
 ✓ A network of jelly like tubes over this shell

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground DEEP WATER Shoals

Week of JULY 6-12 1947

Period set 2 JULY to 10 Jul

Type of shell QUINNS (600 per bu) Factor 30

Sample No. 34 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster	None												No. per bu.									
	NO SPAT												Av. size									
Fouling organisms	Bristly SPONGE	0	0	0	0	0	0	0	0	0	0	0	0									
	Barnacles	20	8	14	17	10	9	4	2	11	4	7	2	16	19	15	9	7	11	2	2	No. per bu. 11,340
	SERPULIDS	0	0	0	0	0	0	0	0	0	0	0	0									
	RED SPONGE SPOTS	0	0	0	0	0	0	0	0	0	0	0	0									
	BRYZOA Colonies	1	1	1	2	1	1	0	0	0	0	0	1	3	2	4	3	4	4	8	3	No. per bu. 2,340

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals

Week of 13-19 July 1947

Period set 1100 Jul 10 to 1115 Jul 17

Type of shell Quinn's (600 per bu.) Factor 30

Sample No. 39 Stake No. 1 Size of sample counted 20 shells inside only - Factor of 2

Oyster spat	None										No. per bu.					
											Av. size					
Fouling organisms	Barnacles	10	5	12	4	18	3	9	5	15	3	3	9/22/5/27/9/18/16/11/25/27	169	Av. 20.9 per shell	No. per bu.
	Bryozoa colonies	1	0	0	0	0	0	0	0	0	0	0			= 418	25080
															= 1	No. per bu.
															60	

Nearly all shells covered with spongy head like white bodies - apparently without tails this time. These shells are much dirtier than Wreck Shoal shells - a regular coat of sand grains, dirt & silt.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals

Week of 13-19 July 1947

Period set 1100 Jul 10 to 1115 July 17

Type of shell Purpuris (600 per bu.) Factor 30

Sample No. 40 Stake No. 2 Size of sample counted 20 shells inside only - Factor 2

Oyster	0-0-0-0-2-0-0-0-1-0		0 → 0 → 0 = 3	No. per bu. <u>180</u>
spat	(5) 525-800	(9) 325		Av. size
Fouling	Barnacles	7/7/7/13/15/14/76/13/0/2	(156) 4/0/8/5/21/4/32/12/19/42 = 308	Av. 15.2 per shell No. per bu. <u>18,180</u>
organisms		1	= 2	No. per bu. <u>120</u>

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals

Week of 20-26 July 1947

Period set 1115 Jul 17 to 1230 Jul 24

Type of shell Quinn's (600 per bu) Factor 30

Sample No. 45 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster	= 0		No. per bu.
	0,1,0,0,0,1	= 2	
spat	300,250		Av. size
Fouling	Barnacles	14 25 9 27 14 51 13 7 8 7 7 6 10 19 9 13 29 53 6 2	No. per bu.
	Bryozoa colonies	5 1 2 0 0 5 4 2 0 2 1 0 1 2 3 5 6 4 1 0	No. per bu.
organisms			

* outside shell facing out

These shells had the usual coating of dirt characteristic of DWS. The yellow green spots I have not noticed particularly before.
 Most of the Bryozoa ^{colonies} consist mostly of the *amantula*.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals

Week of 20-26 Jul 1947

Period set 1115 Jul 17 to 1100 Jul 24

Type of shell Quinn's (600 per bu) Factor 30

Sample No. 46 Stake No. 2 Size of sample counted 20 shells inside only - factor - 2

Oyster	None										No. per bu.												
spat											Av. size												
Fouling	Barnacles	4	7	13	15	24	5	2	11	7	3 ⁽⁹¹⁾	25	9	22	4	19	11	22	3	10	7 ⁽¹³²⁾	= 223	No. per bu. 13,380
		0	3	0	2	1	2	0	6 ⁽⁷⁴⁾	2	1	2	0	2	2	1	1	1	0 ⁽¹²⁾	= 26	No. per bu. 1,560		
organisms																							

JDA. Numerous small ^{green} yellow flakes on shell - some peeling. These may be part of thin membrane covering shell after shucking as a definite layer of material peel off when rubbed. Also many of the white granular or spore-head-like structures.

Range of barnacles set this week 375 - 12504 in width

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

E.F. Prescott, Oct. 22, '47

Oyster ground Deep Water Shoals

Week of 20-26 July 1947

Period set 24 July 47 to 30 Jul 47

Type of shell Quinis (600 per bu) Factor 30

Sample No. 51 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster	0 0 0 0 1 0 0 0 0 1 ② 0 1 0 0 0 1 0 0 1 0 ③ = 5	No. per bu. <u>300</u>
spat		Av. size _____
Fouling organisms	Barnacles 18 88 78 16 72 28 32 8 24 93 ④ 27 19 18 15 45 19 38 26 9 9 1 67 ⑤ 347 = 774	No. per bu. <u>46,440</u>
	MEMBRANIPORA 1 1 1 0 0 1 0 0 1 1 ⑥ 1 1 2 1 0 0 2 0 0 0 ⑦ = 13	No. per bu. <u>780</u>

2.3

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals

Week of July 27-Aug 2 1947

Period set 1100 Jul 24 to 1400 Jul 30

Type of shell Quinnis (600 per bu) Factor 30

Sample No. 52 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster	0,0,0,0,0,1,0,0,0	= 1	= 3	No. per bu.
	0,0,0,1,0,0,0,1,0,0	= 2		<u>180</u>
spat	625,			Av. size
	250, 400			
Fouling	Barnacles	26 23 6 21 18 43 23 26 44 37	26 21 48 14 17 8 14 17 18 43	No. per bu.
	Bryozoa colonies	1	2 2 1	No. per bu.
organisms				

Most of the barnacles are relatively large for a 1 week set - must have set early in week. (Corrected by JD17)
 Usual millions of white sperm-head like objects.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals

Week of 3-9 August 1947

Period set 30 Jul - 8 Aug.

Type of shell Quinn's (600 per bu) factor 30

Sample No. 57 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster	3, 2, 0, 2, 1, 4, 3, 6, 0, 2 = 23															No. per bu. <u>2,520</u>										
	5, 2, 0, 2, 4, 0, 3, 0, 3, 0 = 19																									
spat																Av. size										
Fouling organisms	Barnacles	14	4	26	6	1	18	46	75	22	38	76	52	<u>558</u>	50	188	90	9	42	9	63	72	20	47	<u>590</u> =1148	No. per bu. <u>68880</u>
	Membranipora	11	9	5	3	13	4	8	10	14	6	<u>83</u>	4	1	12	5		4	5	7	8	<u>83</u>		No. per bu.		
	Bryozoa [*]														<u>9</u>	1										<u>166</u> @=10
	Acanthodesia																									

* Ancestrata not counted - many present

Most of barnacles very large

16 12

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

EF. Throsselt
Oct. 18, 1947

Oyster ground Deep Water Shoals

Week of 3-9 Aug 1947

Period set 30 Jul to 8 Aug

Type of shell Quinn's (600 per bu) factor 30

Sample No. 58 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster	0 1 6 1 1 1 1 1 0 1 <u>13</u> 1 0 2 1 3 5 2 1 0 1 <u>16</u>	= 29	No. per bu. <u>1740</u>
spat			Av. size
Fouling	Barnacles	24 12 4 20 13 4 1 28 44 37 59 35 <u>425</u> 6 7 7 13 7 5 16 2 46 18 38 8 37 <u>594</u>	= 1019 No. per bu. <u>61,140</u>
organisms	MEMBRANIPORA	4 3 2 3 11 15 3 25 10 10 <u>96</u> 8 5 20 15 14 4 13 3 8 10 <u>100</u>	= 186 No. per bu. <u>11,160</u>

Note: Shells were very dirty.
- Many spat in this basket were large and well developed.
E.F.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals

Week of Aug 10-16 1947

Period set 8 Aug. to 14 Aug

Type of shell Quinn's (600 per bu) factor 30

Sample No. 63 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster	0,0,0,1,1,2,1,0,0,0 = 5																No. per bu.							
	1,0,0,0,1,0,0,0,0,2 = 4																= 9		540					
spat	925 625 900, 600 700																Av. size							
	1025 650 900, 1125																							
Fouling	Barnacles	120	20	21	17	25	56	15	131	11	17	433	4	8	0	9	22	18	114	4	17	18	214	No. per bu.
																		38,820						
organisms	Bryozoa	(19*)	(4*)	(1*)	(2*)	(1*)	(11*)	(1*)	(7*)	(6*)	(1*)	49	(4)	(10)	(5)	(12)	(9)	(9)	(2)	(3)	(2)	(2)	58	No. per bu.
	Membranipora	31	5	4	3	2	19	3	10	4	3	84	12	15	14	14	9	15	3	7	4	5	98	10,920
																		= 182						

* Ancestrula only

Membranipora crustulenta (those in parentheses included in total.)
Acanthodesia tenuis

11-20 counted 1 Sept 47

E. Presselt
Oct 15, 1947

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals

Week of 10-16 Aug 1947

Period set 8 Aug to 14 Aug 47

Type of shell Quinnic (600 per bu) factor 30

Sample No. 64 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster spat	2 1 2 0 1 1 1 0 2 2 <u>12</u> 1 1 0 3 0 0 0 1 0 0 <u>6</u> = 18																				No. per bu. <u>1080</u>																
																					Av. size																
Fouling organisms	Barnacles	2	1	6	2	7	3	5	2	5	1	1	6	1	0	2	3	8	<u>182</u>	6	5	0	7	4	1	0	1	2	1	4	2	6	1	3	7	<u>212</u>	No. per bu. <u>23,640</u>
	Membranipora	1	9	7	7	1	4	1	0	2	4	3	8	1	3	<u>87</u>	1	5	1	2	2	3	2	4	3	1	7	7	7	1	<u>100</u>	<u>187</u>	No. per bu. <u>1,220</u>				

Note: Shells were very dirty; hard to count. Membranipora not considered too accurate.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals

Week of 17-23 August 1947

Period set 14 Aug to 21 Aug

Type of shell Quinn's (600 per bu) - factor = 30

Sample No. 69 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster	1, 2, 0, 0, 0, 1, 0, 0, 1, 1 = 6 -															No. per bu.									
	0, 1, 0, 1, 1, 0, 0, 1, 1, 3 = 8															= 14	840								
spat	550 750, 625 1500 1450 625															Av. size									
	1500 600 1000 550 600 1250, 700, 950																								
																= 380									
Fouling	Barnacles	15	90	5	39	7*	10	24	13	5	11	(219)	48	22	15	11	21	16	2	19	3	4	(161)	No. per bu.	
	Membranipora		1		7	6	*	*			*	(16*)	(6)	(35)	(58)									(119)	No. per bu.
organisms																									

* many anastrula not counted

11-20 (anestrula counted ^{first 3 shells only} in parentheses + included in total, many probably missed!

Not counted as colonies after 3rd shell unless first daughter zoecium is complete.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

E.F. Bassett
Oct. 4, 1947

Oyster ground Deep Water Shoals

Week of 17-23 Aug 1947

Period set 14 Aug to 21 Aug

Type of shell Quinn's (600 per bu) factor 30

Sample No. 70 Stake No. 2 Size of sample counted 20 shells - inside only - factor 2

Oyster spat	0 1 1 1 0 2 1 0 1 0 <u>7</u> 3 0 1 1 3 0 1 1 0 2 <u>12</u> = 19																				No. per bu. <u>1140</u>		
																					Av. size		
Fouling organisms	Barnacles	22	15	13	17	8	66	16	15	31	19	<u>222</u>	13	9	16	54	199	73	23	10	31	26	No. per bu. <u>40,560</u>
	Membranipora	22	17	9	0	7	6	12	15	8	3	<u>99</u>	3	6	17	4	3	5	15	9	2	<u>15</u>	No. per bu. <u>10,440</u>
																					= 174		

Note: - Membranipora ancestrata abundant
- Spat scarce

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals

Week of 24-30 August 1947

Period set 21 Aug - 28 Aug.

Type of shell Quinn's (600 per bu) - factor 30

Sample No. 75 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster	f	8, 4, 8, 2, 3, 9, 5, 9, 5, 3 = 56																			No. per bu. 6,540			
	f	3, 3, 12, 5, 10, 5, 5, 2, 5, 3 = 53																						
spat																					Av. size			
Fouling organisms	Barnacles	17	35	254	7	F B		135-90	43	127	56	88	24	29	69	18	35	40	235	84	66	52	54	No. per bu. 88,080
	<i>Membranipora</i>	22	77	49	17	56-21	26	18	13	11	16	315	6	5	12	33	18	56	4	15	2	10	No. per bu. 27,960	
	<i>Acanthodesia</i>	1								2		3	1					1					= 466 = 5	
	Mussels	1				1-2						0											= 2 = 2	

Only those bygoea with at least one daughter animal were counted. JD Andrews 26 Apr 48

F = face of shell
B = back

L3

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

E. F. Russell Oct. 17, 1947

Oyster ground Deep Water Shoal

Week of 24-30 Aug. 1947

Period set 21 Aug to 28 Aug.

Type of shell Quinn's (600 per bu) - factor 30

Sample No. 76 Stake No. 2 Size of sample counted 20 shells inside only - factor

Oyster	2	0	2	0	0	2	6	0	4	1	(17)	5	3	0	2	3	3	4	3	5	4	(32)	No. per bu. <u>2940</u>
	= 49																						Av. size $\frac{169}{57} = 2.96$
Fouling organisms	Barnacles	46	117	12	22	31	19	33	3	22	19	(324)	32	112	3	22	57	13	158	4	35	27	No. per bu. <u>27,780</u>
	Membranipora	38	7	0	51	20	9	18	12	23	21	(205)	43	9	55	35	36	18	27	57	66	14	No. per bu. <u>33,900</u>
= 565																							

Note: Shells were very dirty; Membranipora count not considered too accurate, E.F.R.

MEK

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals Week of 31 Aug - 6 Sept 1947
 Period set 28 Aug to 4 Sept 47 Type of shell Quinn's (600 per bu) Factor 30
 Sample No. 81 Stake No. _____ Size of sample counted 20 shells (inside only) Factor 2

Oyster	2, 9, 12, 6, 3, 6, 3, 7, 14 = 62																		No. per bu.						
	3, 7, 5, 4, 4, 12, 4, 5, 6, 2 = 52 = 114																		6,840						
spat																			Av. size						
Fouling organisms	Barnacles	6	8	9	26	45	13	55	15	27	4	(308)	2	49	4	6	36	55	6	37	12	69	(276)	= 484	No. per bu.
	Bryozoa colonies	9	4	6	10	16	2	6	6	6	4	(69)	2	19	11	12	5	18	9	1	9	6	(92)	= 161	29,040
	<small>Membranipora</small> <small>Acanthodesia</small>																								= 1
	Serpulids																								

Remarks: only colonies of Bryozoa counted not acanthodesia alone Counted by J. D. Andrews Date 27 Apr 48

23

1950

1951

1952

1953

1954

1955

1956

1957

1958

1959

1960

1961

1962

1963

1964

1965

1966

REPRODUCTION OF THIS MAP IS STRICTLY PROHIBITED

RECORD OF SET OF OSTREA AND ANOMIA ON SHELLS IN WIRE BAGS
(Size in mm.)

Oyster ground Deep Water Shoals Period set 28 Aug 4 Sept 47 Sample No. 82 Stake No. 2
 Type of shell Quinn's (600 per bu) Size of sample counted 20 shells (inside only) Factor 60

Oyster spat	Live	2	5	2	2	5	3	5	5	3	0	<u>32</u>	6	1	4	0	2	2	1	1	2	0	<u>19</u> = 51	No Per bu. <u>3060</u>
	Dead																							
	Boxes																							
	Others																							
	Scars																							
Anomia	BARNACLES	17	7	10	8	1	40	13	9	13	12	<u>130</u>	6	16	15	10	3	17	2	0	19	79	<u>167</u> = 297	<u>17,820</u>
	MEMBRANIPORA	16	2	2	10	0	9	36	6	1	3	<u>75</u>	2	23	7	10	4	9	13	4	5	3	<u>80</u> = 175	<u>10,500</u>

58
79
167

Counted by E. Truitt Date Dec 20, 47

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

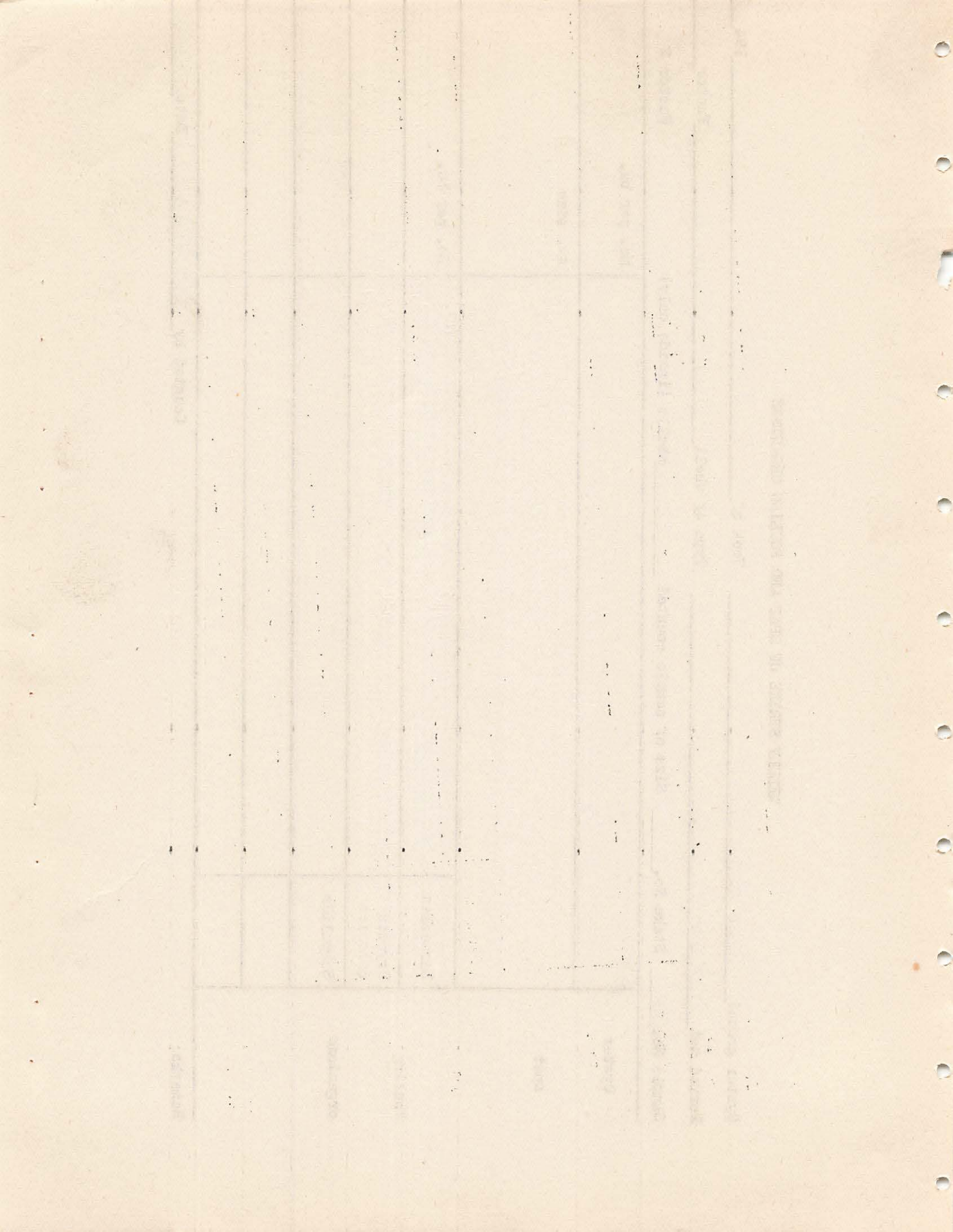
Oyster ground Deep Water Shoals Week of 7-13 Sept 1947
 Period set 4 Sept to 11 Sept Type of shell Purpuris (600 per bu) Factor 30
 Sample No. 87 Stake No. _____ Size of sample counted 20 shells (inside only) Factor 2

Oyster	3, 5, 2, 0, 3, 3, 4, 2, 12, 4 = 38															No. per bu. <u>3,720</u>																					
	2, 3, 2, 4, 0, 1, 0, 2, 1, 9 = 24 = 62																																				
spat																Av. size																					
Fouling organisms	Barnacles	12	5	6	9	10	2	3	5	9	3	15	2	6	6	18	3	18	762	32	14	5	15	5	9	2	6	9	1	2	8	1	2	2	7	78 = 1385	No. per bu. <u>83,100</u>
	Bryozoa colonies	20	15	0	1	1	15	2	1	7	5	169	10	3	0	11	1	0	0	1	0	834 = 101	<u>6,060</u>														
	Serpulids																																				

Remarks:

Counted by J. D. Andrews Date 27 Apr 48

23.



WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

E.F. Maxwell
Oct 2, 1947

Oyster ground Deep Water Shoals

Week of 7-13 Sept 1947

Period set 4 Sept. to 11 Sept.

Type of shell Quinnii (600 per shell) factor 30

Sample No. 88 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster spat	4 1 3 1 3 2 3 8 0 6 <u>(25)</u> 1 7 2 2 1 0 2 4 9 3 <u>(28)</u> = <u>(53)</u>	No. per bu. <u>3180</u>
		Av. size <u>955</u>
Fouling organisms	Barnacles 1 2 5 2 1 1 1 7 2 4 2 2 3 5 5 7 6 0 3 <u>(456)</u> 1 6 2 4 2 1 2 7 3 1 3 5 6 9 3 4 5 3	No. per bu. <u>(499)</u> <u>57,300</u>
	Membranipora 1 9 0 6 2 3 1 8 2 8 1 0 8 6 5 <u>(123)</u> 4 4 7 1 5 4 1 7 8 2 5 6 1 0	No. per bu. <u>(100)</u> <u>13,380</u> <u>= 223</u>

Note: large # of Membranipora, ancestrula.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals Week of 14-20 Sept 1947
 Period set 11 Sept to 18 Sept 47 Type of shell Quinn's (600 per bu) Factor 30
 Sample No. 93 Stake No. Size of sample counted 20 shells (inside only) Factor 2

Oyster	0,0,1,0,1,7,0,2,2,1 = 8															No. per bu. 600							
	1,0,0,0,0,0,0,0,0,1 = 2 = 10																						
spat																Av. size							
Fouling organisms	Barnacles	11	7	35	33	92	27	25	14	87	17	64	26	4	27	240	29	29	37	81	15	111	No. per bu. 66,600
	<i>Membranipora</i> Bryozoa colonies	2		1			1	1		1	2	9	1		25	2	0	4			1	1	= 43 2,580
	Serpulids																						

Remarks: *Ancestrulae not counted.*

Counted by J. D. Andrews Date 29 Apr 48

L.J.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

E.F. Tresselt
Sept. 26, '47

Oyster ground Deep Water Shoals

Week of 14-20 Sept 1947

Period set 11 Sept to 18 Sept

Type of shell Quinni (600 per bu) - factor 30

Sample No. 94 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster spat	0 1 0 2 0 0 0 0 0 0 0 0 ③ 1 0 0 2 0 0 2 0 0 0 ⑤ = 8																				No. per bu. <u>480</u>				
																					Av. size				
Fouling organisms	Barnacles	78	4	9	9	1	12	4	27	5	37	①88	6	4	17	24	4	2	26	22	10	11	3	①83	No. per bu. <u>22,260</u>
	Membranipora	3	2	3	3	2	0	4	3	1	2	②3	1	1	15	7	17	2	7	5	1	4	⑥0	No. per bu. <u>4,980</u>	

Note: - Membranipora ancestrula very abundant
- spat not found on most shells; were small

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals

Week of 21 - 27 Sept 1947

Period set 18 Sept - 26 Sept

Type of shell Quinni (600 per bu) factor 30

Sample No. 99 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster spat	1, 0, 1, 1, 0, 2, 3, 0, 0, 0 = 8																		No. per bu. <u>780</u>					
	1, 0, 1, 1, 0, 0, 0, 0, 2, 0 = 5																							
Fouling organisms	Barnacles	45	54	55	75	13	21	18	25	33	20	(526)	56	90	53	25	9	23	16	25	29	10	(336)	No. per bu. <u>51,720</u>
	Membranipora	3	1	9*	9*	14*	7	5	15	13	9	(83)	10	5	2	2	4	6	11	14	11	12	77	No. per bu. <u>4,620</u>
	Bryozoa																							

* many ancestrulae

Counted by JDA

E. Trusselt Oct. 23, '47

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals

Week of 21-27 Sept 1947

Period set 18 Sept to 26 Sept 47

Type of shell Quinni (600 per bu) Factor 30

Sample No. 100 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 1 1 0 2 0 0 0	<u>6</u>	= 6	No. per bu. <u>360</u>
spat					Av. size
Fouling organisms	Barnacles	4 1 4 5 6 6 3 1 4 1 4 4 0	<u>97</u>	15 2 7 1 2 13 9 7 9 10 0 16	<u>314</u> No. per bu. <u>18,840</u>
	MEMBRANIPORA	5 1 8 6 16 15 6 5 6 5 5	<u>87</u>	8 10 3 7 10 18 8 3 16 3 5 7	<u>152 = 239</u> No. per bu. <u>14,340</u>

L.J.

Date	Description	Particulars	Amount	Balance	Total
1911
1912
1913
1914
1915
1916
1917
1918
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1920
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1923
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 1959
 1960

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

E. Threlkett Oct. 13, '47

Oyster ground Deep Water Shoals

Week of 28 Sept - 4 Oct 1947

Period set 26 Sept to 2 Oct

Type of shell Quinni (600 per bu) factor 30

Sample No. 105 Stake No. 1 Size of sample counted 20 shells inside only - factor 2

Oyster spat	0 0 0 0 1 0 1 0 0 0 <u>(2)</u> 0 0 1 0 0 1 0 0 0 1 <u>(3)</u> = 5															No. per bu. <u>300</u>												
																Av. size												
Fouling organisms	Barnacles	5	1	3	1	7	1	4	0	5	8	7	<u>(5)</u>	3	4	2	3	7	8	0	5	2	2	1	6	3	<u>(145)</u>	No. per bu. <u>11,760</u>
	BRYOZOA Membranopora	1	0	0	0	0	0	0	0	<u>(1)</u>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	<u>(1)</u>	No. per bu. <u>120</u>	

- Note: - Barnacles were small in size
 - spat were average size.
 - Only occasional ancestrula.

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals Week of _____ 194
 Period set 26 Sept to 2 Oct 47 Type of shell Quinn's (600 per bu) Factor 30
 Sample No. 106 Stake No. 2 Size of sample counted 20 shells (inside only) Factor 2

Oyster	0,000,000,001 0,000,000,000	= 2	No. per bu. / 20
spat			Av. size
Fouling organisms	Barnacles	4 0 2 3 5 2 0 5 24 0 ⁽⁴⁵⁾ 0 0 3 1 0 5 1 1 5 1 ⁽¹⁷⁾ = 62	No. per bu. 3720
	Bryozoa colonies		
	Serpulids		

Remarks: Very clean shells

Counted by J.D. Andrews Date 29 Apr 48

2.3

Company ID

Branch

Date	Description	Amount
	Dr. Salary	
	Dr. Salary	
	Dr. Salary	
	Dr. Salary	
	Dr. Salary	
	Dr. Salary	
	Dr. Salary	
	Dr. Salary	
	Dr. Salary	

Total

Dr. Salary

Dr. Salary

RECEIVED OF THE BANK OF AMERICA

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals Week of 5-11 Oct 1947
 Period set 2 Oct to 9 Oct 47 Type of shell Quinni (600 per bu) Factor 30
 Sample No. 111 Stake No. 2 Size of sample counted 20 shells (inside only) Factor 2

Oyster	0,0,0,0,0,0,0,0,0,0										No. per bu.														
	0,0,0,0,0,0,0,0,0,0										0														
spat											Av. size														
Fouling organisms	Barnacles	4	1	7	10	9	6	0	8	10	20	(175)	4	3	4	2	10	2	2	5	0	0	(32)	= 107	No. per bu.
	Bryozoa colonies																								
	Serpulids																								

6,420

Remarks: clean shells

Counted by J. D. Andrews Date 29 Apr 48

27

NAME

DATE

PERIOD

DESCRIPTION

AMOUNT

DATE

TOTAL

TOTAL

REMARKS

DATE

AMOUNT

DATE

TOTAL

DATE

REMARKS

DATE

DATE

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoal

Week of 5-11 Oct 1947

Period set 2 Oct to 9 Oct 47

Type of shell Quinnis 600 per bu. - factor 30

Sample No. 112 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster																= 1	No. per bu. <u>60</u>								
																	Av. size <u> </u>								
Fouling organisms	Barnacles	4	2	1	0	1	2	6	0	1	4	0	6	0	8	1	1	2	0	1	7	1	39	= 57	No. per bu. <u>3420</u>
	MEMBRANIPORA	0																					0		No. per bu. <u>0</u>

Counted by E. Trammelt - Dec. 20, '47

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals Week of 12-18 Oct 1947
 Period set 9 Oct to 17 Oct 47 Type of shell Quinn's (600 per bu) Factor 30
 Sample No. 117 Stake No. Size of sample counted 20 shells (inside only) Factor 2

Oyster	○															No. per bu.								
	○																							
spat																Av. size								
Fouling organisms	Barnacles	10	11	6	8	15	13	58	11	5	4	(141)	22	14	16	6	14	13	8	18	1	37	149 = 290	No. per bu. 17,400
	Bryozoa colonies	None																						
	Serpulids																							

Remarks: clean Counted by J. D. Andrews Date 30 Apr 48

L.J.

<p>Number of</p>													
<p>...</p>													
<p>...</p>													

...

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS *E. Throssel Nov. 10, 1947*

Oyster ground Deep Water Shoals

Week of 12-18 Oct 1947

Period set 9 Oct to 17 Oct

Type of shell Quinnis (600 per bu.) factor 30

Sample No. 118 Stake No. 2 Size of sample counted 20 shells *inside only - factor 2*

Oyster	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																				No. per bu.		
																					<u>0</u>		
spat																					Av. size		
Fouling	Barnacles	5	23	11	12	0	2	11	9	10	1	84	8	24	5	32	19	19	10	18	17	152	No. per bu.
																						<u>14160</u>	
organisms	Membranipora	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No. per bu.
																						<u>0</u>	

27

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS *E. Transit Nov. 5, 1947*

Oyster ground Deep Water Shoals

Week of 19-25 Oct 1947

Period set 19 Oct 47 to 23 Oct 47

Type of shell Quinn's (600 per bu) factor 30

Sample No. 23 Stake No. _____ Size of sample counted 20 shells inside only - factor 2

Oyster spat	000000000000 (0) 000000000000 (0) = 0	No. per bu. 0
		Av. size
Fouling organisms	Barnacles 11440011010 (22) 4100440 111 (16) = 38	No. per bu. 2280
	MEMBRANIPORA 0000000000 (0) 0000000000 (0) = 0	No. per bu. 0

Note: Spat scars observed (16) did not look recent (bleached, etc.)

27

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals

Week of 19-25 Oct 1947

Period set 17 Oct to 23 Oct 47

Type of shell Quinn's 600 per bu. - factor 30

Sample No. 124 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster spat	NONE		No. per bu. <u>0</u>
			Av. size <u> </u>
Fouling organisms	Barnacles	0 0 0 1 2 1 1 1 1 0 <u>7</u> 2 0 0 2 2 5 0 0 2 0 <u>13</u> <u>=20</u>	No. per bu. <u>1200</u>
			No. per bu. <u>0</u>

COUNTED BY E. Tansell NOV. 28, '47

22

WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground Deep Water Shoals Week of 2-8 Nov 1947
 Period set 23 Oct to 6 Nov 47 Type of shell Quinn's - 600 per bu - factor 30
 Sample No. 129 Stake No. 1 Size of sample counted, 20 shells inside only - factor 2

Oyster	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	= 0	No. per bu. <u>0</u>
spat				Av. size
Fouling organisms	Barnacles	6 4 1 0 0 4 10 2 1 12 (40)	1 4 1 0 3 0 0 1 0 12 (22)	= 62 No. per bu. <u>3720</u>
	Membranipora	0 0 0 0 0 0 1 0 0 0 (1)	0 0 0 0 0 0 0 0 0 0 0 (0)	= 1 No. per bu. <u>60</u>

Counted by: E. F. Tresselt

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WEEKLY STRIKE OF SPAT AND FOULING ORGANISMS

Oyster ground DEEP WATER SHOAL

Week of 5 Nov 47 1947

Period set 23 Oct to 5 Nov 47

Type of shell Quinn's 600 per bu. - factor 30

Sample No. 130 Stake No. 2 Size of sample counted 20 shells inside only - factor 2

Oyster																No. per bu.										

spat																Av. size										

Fouling	Barnacles	2	1	2	1	2	10	0	8	5	12	2	(54)	3	11	0	5	2	4	2	3	1	2	1	(61)	No. per bu.
																										= 115
organisms	MEMBRANIPORA		2		1								(3)	1	1										(2)	No. per bu.
																										= 5

COUNTED BY E. TRENSIEF Nov 28, 47

2.26