



Reports

1949

Weekly oyster spatfall on shellbags, 1948 & 1949 in the James River seed area

J. D. Andrews Virginia Fisheries Laboratory

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WEEKLY OYSTER SPATFALL ON SHELLBAGS, 1948 & 1949

IN

THE JAMES RIVER SEED AREA

DATA SHEETS FOR

WRECK SHOAL IN 1948

AND

BROWN SHOAL, WRECK SHOAL AND DEEP WATER SHOAL, 1949

JAY D. ANDREWS

VIRGINIA INSTITUTE OF MARINE SCIENCE



Archives VINS SH 345 VS

28	May-1 0				spat counted	per bu.	Span Der	day per	S-UK
		Jun	13	shellfaces 0	0	0	spat per shell 0	shell (94	
10	Jun-17	Jun	7	0,0	0	0	0	0	
17	Jun-24	Jun	7	0,0	0	0	0	0	
24	Jun- 1	Jul	7	0,0	0	. 0	0	0	
ı	Jul- 8	Jul	7	4,4	8	480	.80	.11	
8	Jul -1 5	Jul	7	11,13	24	1,440	2.40	•34	
15	Jul-22	Jul	7	32,23,38,51	7/1/1	4,320	7.20	1.03	
22	Jul-29	Jul	7	30,40,26,19	115	3,450	5 .7 5	.82	
29	Jul- 5	Aug	7	9,28,12,15	6L	1,920	3.20	•46	
5	A ug -1 2	Aug	7	49,53,34,37	173	5,190	8.65	1.24	
12	Aug-19	Aug	.7	76,96,51,64	287	8,610	14.35	2.05	
19	Aug-26	Aug	7	76,91,163,91	421	12,630	21.05	3.01	
26	Aυg- 2	Sep	7	242,159,193,122	716	21,480	35.80	5.11	
2	Sep-9 5	Sep	7	75,81,50,62	268	ે, ૦૫૦	13.40	1.91	
9	Sep-16	ÇeŞ	7	106,124	230	13,800	23.00	3.29	
16	Sep-24	Sep	8	132,192,125,141	591	17,730	29.55	3.69	
24	Sep-30	Sep	6	15,26	41	2,460	4.10	•68	
30	Sep- 7	Oct	7	3	3	360	.60	•09	

^{*}To convert total spat counted to number of spat per bushel of shells, double actual count and multiply by 600 (shells per bushel) divided by number of shellfaces examined. Because of rugosity of back of valves, more spat usually set there than on the face of valves.

Spat Strike - Wreck Shoal - 1948

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	Spat counted	Spat per bushel	Spat per shell	Percentage of total set
l July*	98	3,085	101,910	169.85	100.0
8 July	91	3,077	101,430	169.05	99•5
15 July	84	3,053	99,990	166.65	98.1
22 July	77	2,909	95,670	159.45	93•9
29 Jul y	7 0	2,794	92,220	153,70	90•5
5 Aug	63	2,730	90,300	150.50	88.6
12 A ug	56	2,557	85,110	141.85	83.5
19 A ug	49	2,270	76 , 500	127.50	75.1
26 A ug	42	1,849	63,870	106.45	62.7
2 Sep	35	1,133	42,390	70.65	41.6
9 ^S ep	2 8	865	34,350	57.25	33.7
16 Sep	21	635	20,550	34.25	20.2
24 Sep	13	1,1,	2,820	4.70	2.8
30 Se p	7	3	360	•60	•4

^{*}No spat were found on shells placed in the water prior to 1 July 1948.

Weekly Oyster Spatfall on Shellbags, 1948 in The James River Seed Area

Data on 20 to 40 Shellfaces from

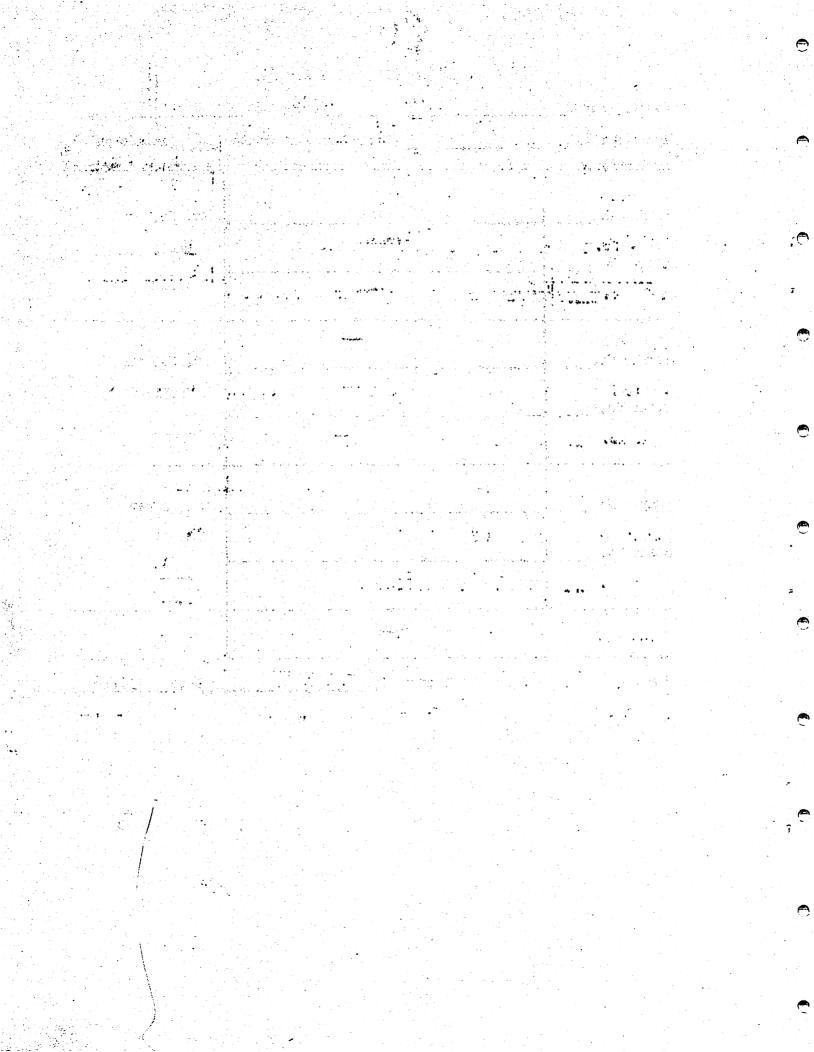
> Quarter-Bushel Shellbags 28 May to 7 October, 1948

Jay D. Andrews VIMS

Oyster ground_	Wrech Shoal	Period set 2	8 may to 10 Sun 4
Type of shell	Mo.	of shells counted	/O (inside only)
Sample No. 300 Stake No. 3	0,		Av. No. per shell
Sample No			Av. No. per shell
Sample No			Av. No per shell
	Total	0	Av.
Remarks:		S.D. andrew	Date 10 Jun 48
See note	Ta 10 June 48		

Oyster ground	Wyech Shoal Period set_	10-17 Jun 48
Type of shell	No. of shells counted	20 (inside only)
	0-0-0-0-0-0-0-0-0	Av. No. per shell
Sample No		Av. No. per shell
Sample No		Av. No per
	Total O	Av. O
Remarks: On occ D did on they	counted by R.L. HOFFMAN asional barnacle (less than /persh	

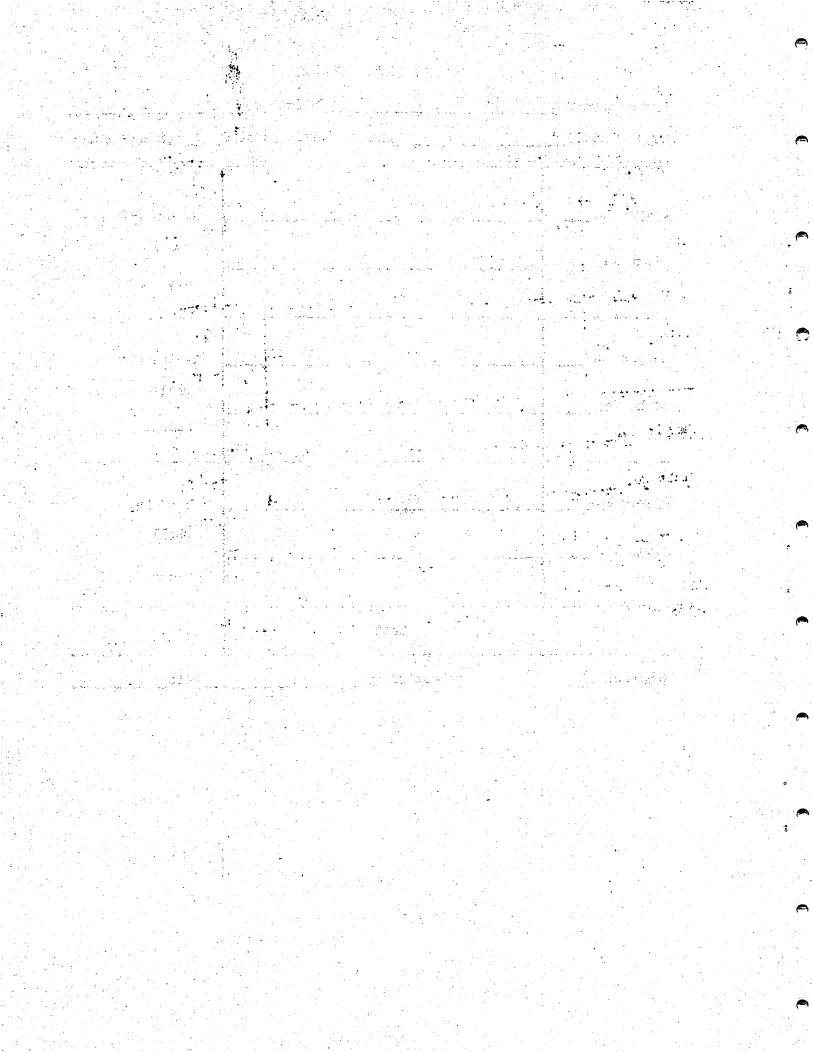
Oyster ground	Wreck Shoal	Period	d set /7	to 24 Jun 48
	Ellnotti No.			
Sample No. 302 Stake No. 3	0,0,0,0,0,0,0,0			Av. No. per shell
Sample No		mit hills on we		Av. No. per
Stake No.				DITOLLI.
Sample No				Av. No per
Stake No.	and with the second			shell.
	Total	0		Av.
Remarks:		P. L. Hof Cheched	SDA	Date 6-15-48
only an occa	sional Membrampor	a sen.	otherw	ise the shells



Oyster ground_	Wreck Shoal Period set	24Jun 20 / July 48
Type of shell	Elliatti No. of shells cour	nted 20 (inside only)
Sample No. 303	0,0,0,0,0,0,0,0,0,0	Av. No. per shell
Sample No		Av. No. per
Sample No		Av. No per
Sendo-standing and an environment of contract of contr	Total	Av.
Remarks: Barnacles. Bryozoa.	checked by R.L. Hoffman checked by SDK only 4 very small ones seen. a little on 2 shells - occasional	

State

Oyster ground	Wreck Shoal	Period set	1 to 8 Jul 48
Type of shell	Elliotti No. of	shells counted	20 (inside only)
Sample No. 304 Stake No.	0,0,0,3,0,1,0,0,0,0, 0,0,0,1,0,0,0,2,0,1 Size 250,275,250,250,475,30	= 4	Av. No. per shell
Sample No			Av. No. per
Sample No			Av. No per
	Total	8	Av4
Remarks:	Counted by	D. andrews	Date 9 Jul 48
	erage 15-20 per shell; ;	nembranysira	6-8 per shell
all these first	oyster you are very small	l and probably hell at all.	set Tou 8th of



Oyster ground a	IRECK SHOAL JAMES RIV	JER Period	d set	8-15 Jul 48
	Fliotts No.			
	2-1-1-0-0-3-1-1-	(= 11 3BA = 13	Av. No. per shell
Sample No.	enterioren de la company d			Av. No. per
Stake No.				shell
				entition (Shreigh-regulations)
Sample No.	en de la companya de			Av. No per
Stake No.	and the second s			shell
tion to the state of the state	Total		/	Av. /, 2
Remarks:	Counted by	R.L. HOFFMA J.D. And	draws	Date 16 Jul 48
Barna de 19 ment 2 Acant 1	4 64 5 135	= 12	. 4 . 1	
These were were were	very clean shells - nu	dist, v	eny litt	le Jouling, Spal

Oyster ground WRECK SHOAL, JAMES RIVER Period set UVLY 15-22,1948						
Type of shell	ELLIOTT'S No.	of shells c	counted	20 (inside o	nly)
	3-4-1-1-3-3-4- 2-0-2-3-4-1-3-0			Av. N	lo. per	The control of the co
Sample No.		the charge of the case when the charge of the case of		Ay. N	o, per	
Stake No.				she	11	
				# Dritter of June 1	pr-religion (granes	
Sample No		tier of general die dies gewone der deutsche geben der deutsche des deutsche des deutsche des deutsche des deu Deutsche deutsche		Av. N	o per	
Stake No.	distribute and purpose of the control of the contro	nationalists - the entire the entire the editorial and editorial to entire		she	11	
	Managangka di makandha kandhagkangi i danaki di kangka dinagkahaki alba Managangka ma makang			Uniconne		
	Total				2.25	
Remarks:	Counted by	R. L. HOFFMAN	N rews	Date	23 JULY 1 28 JULY 1	948
Bamales 2	10/0/0/0/0/0/0/0/0/0/0/0/0/0/0/0/0/0/0/	0				
These shells	had some dirt and sand	on them but	almes	1 no	Pouling at	all,
- 141	11/ 1 1	. + /-				

t #thites in a literature and the second of the second o

(

Oyster ground	Wreck Shoal Period set	15-22 Jul 48
Type of shell	Mo. of shells counted	1 20 (inside only)
Sample No. 307 Stake No. 3	1-3-6-3-4-3-8-4-3-3 = 38 8-3-2-5-5-2-5-6-11-4 = 51	Av. No. per
Sample No.		Av. No. per
Sample No		Av. No per
Stake No.		SHOLL
	Total 89	Av. 4.45
Remarks:	Counted by S. P. Condress	Date 26 Jul 48
Bamada / / / / / / / / / / / / / / / / / /	12 2 1 0 0 = 6 = -1 12 2 1 2 1 = 14 = 1 pershell	
almost no	, fouling. Mod amounts of dick	

we will will be The second secon n de la companya de la co The state of the s and the second s A CONTRACTOR OF THE CONTRACTOR

Oyster ground w	Period set	JULY 22-29, 1948
Type of shell	No. of shells counted	1 20 (inside only)
Sample No. 308 Stake No.	4-0-3-6-0-4-9-2-2-2= 30 3-6-7-2-5-5-2-0-8-2=40	Av. No. per shell
Sample No. 309 Stake No.	0-1-5-1-0-4-7-1-6-1=26 0-0-4-0-3-3-2-2-4-1=19 45	Av. No. per shell 2,25
Sample No	derdend block with the standard and the property and an extend of a second of	Av. No per
Stake No.	Padritonana an arigh an congruence originan consistant mathematical consistant description and consistant and c	shell
		quid auto-conductions
Polyments about the second of the second of the second	Total 115	Av. 2.88
Remarks:	Counted by J.D. Andrews	JULY 30, 1948 Date 2 Aug 48
none of the	k 4/0/1/6 / 10/ = 5 12/2 / 5/5/ 6 = 20 membrangera well developed as mi Island B.	
,	and 2/10/0/2/0/00 = 5	

L. State The Regis Tiess T. Zerts

Oyster ground_	Wreck Shoal Period set	29 Jul to 5 Aug
	No. of shells counted	
Sample No.3//	2-0-1-3-0-2-0-1-02 9	Av. No. per
Stake No. 3	5-2-2-1-3-0-4-3-1-7 = 28	shell
inhibit up satura		1.85
manufalphones and manufacture desired and a second	3 7	
Sample No. 3/0	6" 1-0-1-0-2-3-0-3-0-2 = 12	Av. No. per
Stake No.	1-1-3-2-0-0-1-1-1-5 = 15	shell
		1.35
	27	
Sample No	and and a special control of the second seco	Av. No per
Stake No.		shell
Namiford and State		Antonio androna
		Av. 1.6
Remarks: 7.	oddiodd by	Date 9 Aug 48
311)0000/2/	0/2/5/0	-
Scarcely any	Souling - clean - 200 dirt	

i. Diane San Allend 250 - 100 - 120 - 1 1. · Andrew

Oyster ground a	IRECIK SHOAL		Perio	i set A	16057	5-12,1	948
Type of shell_	este des reconstruits segunda en managant a descript non en ma	No. of	shells	counted	20	_(inside	only)
Sample No. 312 Stake No.	7-6-3-11-7 3-3-0-1-2				S	No. per hellface 5.10	
Sample No. 3/3 Stake No.	1-2-5-8-4. 4-5-3-9-3-	-			sl	No. per nellface	
Stake No.			e de la companya de l			No per	
Remarks:	Coun	Total A.I. ted by J	. NoFFMA	173 N (1-10)	,	4.28 8-16-H	X
o/1/0/1/0/	-10/1/0/0 -	6 =					in Security of

Oyster ground u	RECK SHORLS, JAMES RIVER Feriod set A	UGUST 12-19, 1948
Type of shell	No. cf shells counted	(inside only)
Hoffman Sample No.314 Andrews Stake No.	12-7-14-12-4-6-8-5-7-1= 76 11-2-7-7-7-22-9-12-6-13= 96	Av. No. per shell 8.60
Hoffman Sample No. 315 Andran Stake No.	+1 +3 10-1-4-13-4-7-0-6-3-3=51 12-16-6-2-4-5-13-3-1-2=64 115	Av. No. per shell 5.75
Sample No		Av. No per shell
pungs-selteralization (punk-sense dipin) with volume the startification	Total 287	Av. 7./8
Remarks:	Counted by T.D. Andrew	8-19-48 Date 16 Sept 48
Barnacles of	0/0/0/1/6/3/2/2/1 = 15 - 93 = 5per sh	e//

(34) Barnacles 0/9/6/0/5/0/1/54/9/1 -- 78

(315)

Oyster ground 0	VRECK SHOAL Period set A	UG. 19-26, 1948
Type of shell	Elliates No. of shells counted	(inside only)
check by Andrews -; Sample No. 316	12 +5 0 +1 +2 22-14-5-9-3-5-3-4-6-5= 76	Av. No. per
Stake No.	13-2-17-6-6-10-4-13-6-14 = 91	shell _8,35
Sample No. 3/7	36-17-6-24-21-18-12-9-4-16:163	Av. No. per
Stake No.	5-6-6-17-14-2-6-6-19-10=91	shell. _12.70
Sample No		Av. No per
Stake No.		
		Av. 10.53
Remarks: 316) Barnacles menb.	Counted by $\frac{RL \cdot RoFF ann}{J \cdot D} = \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = \frac{1}{2}$	Date 30 Aug 48
P17 Barnacles 4 Ment	10/8/2/1/5-13/0/0/5- = 28 = 3	

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	Former than the second set and set at the second secon	
(gino emisso);)	No. of anothe counter	Ifode lo equi
	40.1	
gog .olfvA	3	Sample No. 3M
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190		
Lisme		Stake No.
		59/4
		oli oliquae
Liene		Stake No.
. VA	LasoT	
Date	Counted by	

Oyster ground	Wreck Shoal Period set	26 Aug to 2 Sept 4.
Type of shell	No, of shells counted	
		The state of the s
Sample No. 318	16-25-43-32-20-9-23-45-8-21=	Av. No. per
Stake No. 2	10-42-21-11-15-8-19-13-19-3=159	shell-face
		20.05
	401	
Sample No.319	9-8-36-8-30-7-26-15-21-33=193	Av. No. per
Stake No. 3	7-12-16-8-5-10-6-18-11-29=122	shellface
		15.75
	315	
Sample No		Av. No per
		shell
Stake No.		SHOTT
	Total 7/6	Av. /7.90
Remarks:	Counted by JD Andrews	Date 24 Sept 48
Barnacles 6 7 4 Memb 1 4	1/27/13/2/10/15/7/23 = 151 = 15 per	
Shell 1 - all th	we spot have either gird set or died without a 500 most around 300 and many gird set	1 growing.

Sample No. 11.

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Counted by Colored by Date

Oyster ground_	Wrech Shoal Period set	2-9 Sept 48
Type of shell	Elliotts No. of shells counted	니○ (inside only)
Sample No. 320 Stake No. 2	11-4-5-4-14-13-7-6-2-9= 75 19-5-6-5-15-7-6-15-6-7=81	Av. No. per shell
Sample No. 32/ Stake No. 3	7-4-3-2-10-2-13-3-3-3 = 50 5-3-5-5-3-16-8-10-2-5 = 62	Av. No. per shell
Sample No		Av. No per
	Total 26F	Av. 6,7
Remarks:	Counted by J.D. Andrews	Date 27 Sept 48

(2) Barnacles 0/7/1/11/9/0/3/13/0/0 = 44 = 4 per shell

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		Stake No.
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Andrew Common of the Common of		ool aldrei
	***************************************	Sacks 2004
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	ii. <u> </u>	

Oyster ground_	Wreck Shoal	Period set	9-16 Sep 48
	No.		
Sample No. 322	18-18-3-9-1-9-10-	5-5-11= 89	Av. No. per
Stake No.	6-12-4-8-16-17-6-	9-2-1 = 81	shell
andromentous valuables resulpture de vigo quantum de vigo quantum se		170	
Sample No.323	8-6-22-10-4-11-26-	.9-2-8 = 106	Av. No. per
Stake No.	27-6-14-19-10-8-17-	3-9-11- 124	shell
		230	_11.5
Sample No.			Av. No per
Stake No	Madden transfer a series de l'autorité de l'apprés de l'apprés de l'apprés de l'apprés de l'apprés de l'apprés		shell
NAME OF THE OWNER, THE PARTY OF THE OWNER, T	Total	230	Av. // /
Remarks: Barnacles 1/	Counted by _2 38 16 49 65 273 21 6		Date <u>2 Nov 48</u>
		. 10 01 0	1 91

* This sample was misplaced and thought lost. It was discovered ofter data had been written up so that to include would mister agreet deal of works Iteme, this bag no 322 has not been included in tabulations, No great variation is misolaid anyway JAR

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Av. No per	·	
1 4	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Stake Wo.
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Oyster ground_	Wreak Shoal Period set	16-24 Sept. 48
Type of shell	No. of shells counted	d 40 (inside only)
Sample No. 323	17-9-10-9-11-25-18-14-17-2=132	Av. No. per
Stake No. 3_	26-17-11-7-1-6-27-32-22-43= 192	shell
attenance of the section of the section of	324	16.2
Sample No. 324	1 2-22-28-6-3-12-5-23-10-15=126	Av. No. per
Stake No. 2	15-15-15-6-5-20-15-9-20-21=141	shell
	267	13.35
Sample No.		Av, No per
Stake No.		shell
		and the same of th
-	Total 591	Av. 14.8
Remarks:	Counted by JD Andreus	Date Sept 48
Barnacles	14/24/1/40/5/36/44/43/34/39 Sarge amount of o	hing + sand for one w
memb.	14/24/1/40/5/36/44/43/24/39 Sarge amount of o 6/1/24/1/40/5/36/44/43/24/39 Sarge amount of o = 2 Show some growth - a	about 300 - 400 M but won.
Barnacles	17/25/35/61/48/18/15/37/232/17 = 505	Av= 39 pershel
memb	11 1/1/1/2/1 = 12	= 1 perile //

Carlo Control THE PARTY OF THE P 15 ्रात्रक क्षेत्रकार ूर्ड होता । इ.स.च्या क्षेत्र वा बावाय त्याप्त 15. 10. 15. TET. AA. TO Bek 58° 10° 138 agejj 1.377 Š (Wind windami)

Oyster ground	Wrech Shoal	Per	iod set	24-30 Sept 48
				20 (inside only)
Sample No. 324	3-1-1-0-1-2-3		= 15	Av. No. per shell
Sample No. 327	3-2-3-2-5-0-	-2-1-4-4-	- 26	Av. No. per shell
Sample No.				Av. No per
Stake No.				shell
	Тс	otal	ЦΙ	Av. 2.05
Remarks: Barnacles 15/29 Quite Clean of	1/4/0/1/3/0/1/11/4	i by $J.D.7$	Andrews	Date 6 Oct 48

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Oyster ground Wyeck Shoal		Period set 30 Sept to 70ct 48			
					/o (inside only)
Sample No. 328	0-1-0-0-0	-0-0-	-0-2	= 3	Av. No. per
Stake No.				3	shell
skendikus	de la companya de la	Port out a Mineral Constitution of States and			13
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Sample No					Av. No. per
Stake No.					shell
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Sample No	and protection when the constitution to the constitution and the constitution and the constitution of the constitution and the constitution and the constitution are constitution as the constitution and the constitution are constitution as the constitution and the constitution are constitution as the constitution and constitution are constitution as the constitution are constitution are constitution are constitution are constitution as the constitution are constitution are constitution as the constitution are constitution are constitution are constitution as the constitution are				Ava No per
Stake No.	MODELE STATE OF THE SECTION AND SECTION ASSESSMENT ASSE	norm and a discount and a discount of			shell
					tirdan buran diserja o
Magnetic Control of the Control of t	T	otal		3	Av. , 3
Remarks:	Counte	d by	TO, A.	polrews	Date 29 Dec 48
Barnacles 4/6/58/28/8/19/12/57/89/51 = 332 = 332 hell.					

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Carry Survey Control of the Control	のでは、「一個など、「Common Common Com	The second of th

Weetly Oyster Spatfall on Brown Shoal, 1949

The James River Seed Area

Data on 10 to 40 shellfaces from Quarter-Bushel Shellbags

6 July to 31 October, 1949

Weekly Spat Strike - Brown Shoal - 1949

Dates Set	Days Set	Number of Spat Counted on Groups of 10 Shells faces	Total of Spat Counted	Number of Spat per Bushel (600 Shells per Bushel)	Average Number of Spat per Shell	Spat per Day per Shell
6 Jul-12 Jul	6	29	29	3,480	5.80	•97
12 Jul-19 Jul	7	58	58	6,960	11.60	1.66
19 Jul-26 Jul	. 7	3	3	360	0.60	0.01
26 Jul- 2 Aug	7	59 , 89	148	8,880	14.80	2.11
2 Aug- 9 Aug	7	136,162	298	17,880	29.80	4.26
9 Aug-16 Aug	7	329,346,302	977	39,080	65.13	9.30
16 Aug-23 Aug	7,	215,277,424,258	1,174	35,220	58.70	8.38
23 Aug-30 Aug	7	269,237,280,375	1,161	34,830	58.05	8.29
30 Aug- 6 Sep	7	173,182,89,116	560	16,800	28.00	4.00
6 Sep-14 Sep	8	184,172,68,67	491	14,730	24.55	3.07
14 Sep-21 Sep	7	40,40,50,54	184	5,520	9.20	1.31
21 Sep-28 Sep	7	15,12,7,9	43	1,290	2.15	0.31
28 Sep- 5 Oct	7	11,8	19	1,140	1.90	0.27
5 Oct-31 Oct	•	3	3 .	360	0.60	0.01

Spat Strike - Brown Shoal - 1949

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

Week Beginning	Number of Setting Days	Spat Counted	Spat per Bushel	Spat per Shell	Percentage of Total Set
6 Jul	91	5,148	186,530	310.88	100.00
म्प द्रा	85	5,119	183,050	305.08	98.1
TO JUL	78	5,061	176,090	293.48	94.4
26 Jul	71	5,058	175,730	292.88	94.2
2 Aug	49	ዕ ፲6 ⁴ ቱ	166,850	278.08	89.5
9 Aug	57	म , 612	148,970	248,28	79.9
16 Aug	50	3,635	109,890	183.15	58.9
23 Aug	1 3	2,461	74,670	124.45T	٠.0
30 Aug	36	1,300	39,840	04.33	4.12
6 Sep	29	740	23,040	38.40	म.च
14 Sep	51	249	7,310	13.85	3.9
21 Sep	14	6	2,790	4.65	1.5
28 Sep	7	57	1,500	2,50	0.8
5 Oct		ω	360	0.60	0.0
					Q ox

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Weekly Spat Strike - Wreck Shoal - 1949 (Shellbags)

		(Shell	baga)	Number of		
Dates Set	Days Set	Number of Spat Counted on Groups of 10 Shellsfaces	Total of Spat Counted	Spat per Bushel (600 Shells per Bushel)	Average Number of Spat per Shell	Spat per Day per Shell
14 Jun-23 Jun	9	0	0	0	0.0	0.0
23 Jun-28 Jun	5	0	0	0	0.0	0.0
28 Jun- 6 Jul	8 .	1	1	120	0.2	0.03
6 Jul-12 Jul	6	15	15	1,800	3.00	0.50
12 Jul-19 Jul	7	22	22	2,640	4.40	0.60
19 Jul-26 Jul	7	8	8	960	1.60	0.23
26 Jul- 2 Aug	7	38,81	119	7,140	11.90	1.70
2 Aug- 9 Aug	7	198,158	356	21,360	35.60	5.10
9 Aug-16 Aug	7	220,109	329	19,740	32.90	4.70
16 Aug-23 Aug	7	150,170,234,183	737	22,110	36.85	5.30
23 Aug-30 Aug	7	219,161,189,162	731	21,930	36.55	5.20
30 Aug- 6 Sep	7	70,61,90,57	278	8,340	13.90	2.00
6 Sep-14 Sep	8	64,59,79,87	289	8,670	14.45	1.80
14 Sep-21 Sep	7	42,75,80,99	296	8,880	14.80	2.10
21 Sep-28 Sep	7	34,44,53,38	169	5,199	8.67	1.24
28 Sep- 5 Oct	7	2	2	240	0.40	0.06
5 Oct- 2 Nov	-	3	3	360	0,60	0.02

Spat Strike - Wreck Shoal - 1949

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

Week Beginning	Number of Setting Days	Spat Counted	Spat per Bushel	Spat per Shell	Percentage of Total Set
28 Jun	99	3,355	129,489	215.81	100.0
6 Jul	91	3,354	129,369	215.61	99•9
12 Jul	85	3,339	127,569	212.61	98.5
19 Jul	78	3,317	124,929	208.21	96.5
26 Jul	71	3,309	123,969	206.61	95.7
2 Aug	64	3,190	116,829	194.71	90.2
9 Aug	57	2,834	95,469	159.11	73.7
16 Aug	50	2,505	75,729	126.21	58.5
23 Aug	43	1,768	53,619	89.36	41.4
30 Aug	36	1,037	31,689	52.81	24.5
6 Sep	29	759	23,349	38.91	18.0
14 Sep	21	470	14,679	24.46	11.3
21 Sep	14	174	5,799	9.66	4.5
28 Sep	7	5	600	1.00	0.5
5 Oct	-	3	360	0.60	0.3

01/k

Weekly Spat Strike - Deep Water Shoal - 1949 (Shellbare)

		(Shell	.bags)	Number of		
Dates Set	Days Set	Number of Spat Counted on Groups of 10 Shelfaces	Total of Spat Counted	Spat per Bushel (600 Shells per Bushel)	Average Number of Spat per Shell	Spat per Day per Shell
14 Jun-23 Jun	9	0	0	o `	0.0	0.0
23 Jun-28 Jun	5	0	0	. 0	0.0	0.0
28 Jun- 6 Jul	8	0	0	0	0.0	0.0
6 Jul-12 Jul	6	0	0	0	0.0	0.0
12 Jul-19 Jul	7	•	0	• 0	0.0	0.0
19 Jul-26 Jul	7	1	1	120	.20	.03
26 Jul- 2 Aug	7	0	0	0	0.0	0.0
2 Aug- 9 Aug	7	1,2	3	180	0.30	0.04
9 Aug-16 Aug	7	28,24	52	3,120	5.20	0.74
16 Aug-23 Aug	7	4,11,7	22	880	1.47	0.21
23 Aug- 6 Sep	14	6,7,0	13	520	0.87	0.06
6 Sep-14 Sep	8	1,1	2	120	0.20	0.03
14 Sep-21 Sep	7	5	5	600	1.00	0.14
21 Sep-28 Sep	7	0	0	0	0.0	0.0
28 Sep- 5 Oct	7	ı	1	120	0.20	0.03

Weekly Spat Strike - Deep Water Shoal - 1949 (Shellbags)

		(Shell	bags)	Number of		
Dates Set	Days Set	Number of Spat Counted on Groups of 10 Shellfaces	Total of Spat Counted	Spat per Bushel (600 Shells per Bushel)	Average Number of Spat per Shell	Spat per Day per Shell
14 Jun-23 Jun	9	o .	0	o `	0.0	0.0
23 Jun-28 Jun	5	0	0	. 0	0.0	0.0
28 Jun- 6 Jul	8	0	0	0	0.0	0.0
6 Jul-12 Jul	6	0	0	0	0.0	0.0
12 Jul-19 Jul	7	0	0	0	0.0	0.0
19 Jul-2 6 Jul	7	1.	1	120	.20	•03
26 Jul- 2 Aug	7	o	0	. 0	0.0	0.0
2 Aug- 9 Aug	7	1,2	3	180	0.30	0.04
9 Aug-16 Aug	7	28,24	52	3,120	5.20	0.74
16 Aug-23 Aug	7	4,11,7	22	880	1.47	0.21
23 Aug- 6 Sep	14	6,7,0	13	520	0.87	0.06
6 Sep-14 Sep	8	1,1	2	120	0.20	0.03
14 Sep-21 Sep	7	5	5	600	1.00	0.14
21 Sep-28 Sep	7	o	o	0 -	0.0	0.0
28 Sep- 5 Oct	7	1	1	120	0.20	0.03

Oyster ground	Brown Shoal Period set_	6-12 July 1949
	No. of shells counted	
Sample No. 204	7-6-4-1-1-2-0-1-6 = 29	Av. No. per shell
		Av. No. per shell
		Av. No per shell
	Total 29	Av. 2.9
Remarks:	Counted by J.D. Andrews	Date 14 Jul 49
Barnacle 1 15 (Membrompoin 1 Acenthodesia 1 Barnacle 3 Mem 1 Acom 0		aver for shell 3,2

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Oyster ground_	Brown Shoal Period set	12-19 July 1949
Type of shell_	No. of shells counted	//o (inside only)
Sample No. 205	11-6-12-9-3-2-3-4-6-2=58	Av. No. per shell
Sample No		Av. No. per
Stake No. Cyster ground	TOTAL CAST OF DEALSAID	Av. No per
Type of Juell	Total 58	(insite only) Ave 5.8
Remarks:	Counted by J.D. Andrews	Date 20 Til 49
Barnacle memb. 0	5 1 1 0 3 2 3 0 0 = 16 2 1 2 7 7 0 0 0 = 13	50 Aur p. Shell 1.6 1.3
Sample 10.		av. No. ver
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Mate, per	Counted by	Remarks No.
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	de Soines	Stake No. Oyster ground
(inside only)	No. of shalls counted	Libria to say!
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Av. No. per		Sample He.
req regresva		Sample No.
Liens		Stake No.
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		Sample lio.
nsbell	Counted by	Reserva: Stake No.
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Av. No per		Sample No.
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Toda Castr	Countried by	* SARMY

Oyster ground	Brown Shoul (207) Period set 19	July - July 26 49
Type of shell 0	yster No. of shells counted	(inside only)
		the state of the s
Sample No. 207 Stake No.	0-0-1-0-1-0-1-0-0-0=3	Av. No. per
		page and the state of
Sample No.		Av. No. per
Stake No.		shell
Imp(p=continue)		estal aprime all others
Sample No		Av. No per
Stake No.		shell
and the same of th		
	Total 3	Av. 3
Remarks:	Counted by D. Haven	
Barnocles 4 3/ montranpa 100 ceanth 00	25324333 = 32	mem = av. p. shell acrit & 3.2
		count Deb St

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Oyster ground F	Brown Shorts Period set g	why 26 - Ceny 2		
Type of shell oyster No. of shells counted 10 (inside only)				
Sample No. 208 Stake No.	1-5-4-8-6-3-4-3-20-5=59	Av. No. per shell 5.9		
Sample No		Av. No. per		
Sample No		Av. No per		
Danasala		Av. 5.9		
Remarks: Bun 4 2 5 2 ment 2 2 1 0 acut 1 2 0 not us much	Counted by D. H 2 1 4 1 8 0 = 29 4 2 2 1 1 0 = 15 0 0 0 0 0 = 4 forling as 209	Date any 11 1449 av p. shell 2.9 1.5		

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Date A Land		

	rown Should Period set	
Type of shell	No. of shells cour	(HIBIGO OILI)
Sample No. 209	13-22-2-0-2-7-6-8-11-18	Av. No. per
Stake No.		8.9
Sample No		Av. No. per
Stake No.		
Sample No		Av. No per
Stake No.		
	Total	89 Av. 8.9
Remarks:	Counted by D. H	Date Aug 11 19
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filens 1.8		Stake No V.
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ted for her	and the second s	Sample No.
, floria		Stake No.
		,
Av. No per		Sample No.
LUmle		Stake No.
AAA	Total	

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Oyster ground	Brown Shpa Period set 2	-9 Aug 1949
Type of shell	No. of shells counted	// (inside only)
Deminta Mo. %10	12-5-6-10-8-57-29-4-7 = 136	Av. No. per
Sample No.		Av. No. per
Stake No.		
Sample No		Av. No per
Stake No.		shell
	Total 136	Av. +3.6
Remarks:	Counted by J.D. Andrews	Date 9 Aug 49 av. p. Shell
Raynerles 4	-9-01/12 17	

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(vine ebiani)			.oH		Type of shell
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Oyster ground_	Brown Shoa Period set	2-9 Aug 1949
Type of shell	No. of shells counter	
Sample No. 2// Stake No.	12-32-5-33-4-16-7-19-16-18	Av. No. per shell
Sample No.		Av. No. per
Stake No.		shell
Sample No		Av. No per
	Total /62	Av _a 16.2
Remarks: Barnaile: 0-	Counted by J.D. Andrews	Date 10 Aug 42 as poshell
2		. 5.6

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MALIAN OVERLE SPATFALL

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Cyster ground	Period set	THAT WAS THE
Tiple of shell	No. of shells cour	(inside only)
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Sample No.	\$1 - \$1 - \$1 - \$1 - \$1 - \$2 - \$ - \$ - \$ 5 - \$5.	red foll va
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ample No.		AV. No. per
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10.04	The second	· · · · · · · · · · · · · · · · · · ·
	Total	Ave
enarks:	ted bistaged	Date

WEEKLY OYSTER SPATFALL			
Oyster ground Brown Shools. Period set aug 9- aug 16			
Type of shell 0	No. of shells counted	10 (inside only)	
Sample No. 212 Stake No.	26-36-74-17-23-18-24-8-28	Av. No. per shell	
Sample No		Av. No. per shell	
Sample No		Av. No per shell	
para-angah masa ay ay amama a ahada da dabana.	Total 329	Av. 32.9	

Counted by D. 14

at-p. shell

me

Remarks:

. 14

Oyster ground A	Brown Shoal	Period set	9-16 Aug 1949
Type of shell_	No. o	f shells counted	20 (inside only)
Sample No. 2/3 Stake No.	21-30-31-33-19-1 22-53-20-48-18-15-		Av. No. per
Sample No			Av. No. per shell
Sample No			Av. No per shell
	Total	648	Av. 32.4
Remarks:	Counted by	JD, Andrews	Date 18 Aug 48
Mend. 4- Anomia	11-1-3-8-42-3 3-11-0-7 1-1-	-11 = 36 - = 2	4.

RUS

Oyster ground	Brown Shouls Period set	Rug 16-23-1949
Type of shell	No. of shells counted	20 (inside only)
Sample No. 214 Stake No.	10-42-32-20-11-21-30-23-49-39=1144-38-13-88-34-25-89-34-28-	277 31 = 424 Av. No. per shell
Sample No		Av. No. per shell
Sample No		Av. No per shell
-, 49	Total. 701	Av. 35.05
Remarks:	Counted by D. Haven	av.p. shell
Barreles 3 mener. 1 Gent 0	4 18 25 2 42 = 94 0 3 9 1 3 = 17 0 0 0 0 0 = 0	3.0

Oyster ground_	Brown Sheal Period set	16-23 Aug 1949
Type of shell	. No. of shells counted	20 (inside only)
Sample No. 2/5	11-24-18-18-31-18-19-12-8-99=258	Av. No. per
Stake No.	12-20-22-30-40-10-14-17-12-38:215	
	nadio VIII to Materia, and also as an assign company, banks as repair on a new constitution, by which is a subject on	
Sample No		Av. No. per
Stake No.		shell

Sample No		Av. No per
Stake No.		shell
	Total 473	Av. 23.65
Remarks:	Counted by J.D. Andrews	av.p. skell
	3-101-36-7-24-79-23-6-6-17-3	

RUS

Oyster ground	Brown Shoal Period set	23-30 Aug 1949
Type of shell	No. of shells counted	20 (inside only)
Sample No. 217 Stake No	18-32-28-13-9-22-54-8-59-26=269 10-23-34-20-25-26-12-21-41-25:237	Av. No. per shell
Sample No		Av. No. per shell
Sample No		Av. No per shell
	Total. 506	Av. 25,3
Remarks: Barnacles 11-1.	Counted by JD, Andrews 5-63-54-27-29-32-7-97-7 = 342	as p. shell

Marly all very small sgrat - most just set, the rest under 500

1 RND

Oyster ground	Brown	Shouls		Period	d set	23-30	Aug 419
Type of shell							
Sample No.218 Stake No.		21-33- -25-39-				Av. No	o. per
Sample No						Av. No	
Sample No						Av. No	
		T	otal		655	Av.	32,75
Remarks:		Counte	i by	Derter	Haven	Date	Cont 1/9

On this sate ___ the interior sold to the Va Fisher Laboraty: (Mr. D. Haven) a tolal of I has find _ yer lt. will be remitted by comments with the Juliu Mor. at 6 pen b · Received of _ a lotal of 60 thoi of C.sh with a forest volene of 40 dillers. The amount will be untied by commenceth cher. Darter Hoven

Oyster ground	Brown Shoal Per	riod set 30	Aug to 6 Sep 19219
Type of shell	No. of shel	ls counted 2	(inside only)
Sample No. 2/9	4-6-17-13-12-44-19-18-31-	A	Av. No. per
Stake No.	6-25-6-58-13-5-13-4-27-2.	3 5 /82	shell
Sample No.		A	lv. No. per
Stake No			shell
Sample No		Α	av. No per
Stake No.			
	Total	355 A	v. 17.75
Remarks: Barnacles 340-	Counted by J.D. 234-188-270-112-131-91-71-		as. p. Ste

ws.

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WLEKLY OYSTER SPATFALL

Oyster ground Browns Should	Period set 30 Aug to 6 Sep 48
Type of shell oyster No. of	
Sample No. 220 9-6-15-17-8-7-6 Stake No. 6-13-15-3-11-20-13	6-8-6-7 8.9 Av. No. per -6-14-10= 116 shell
Stake No.	Av. No. per shell
Stake No.	Av. No per shell
Total.	20,5 Av. 10.25
Remarks: Counted by De	xter Haven Date 70ct49

W.

Oyster ground_	Brown Shoals Period s	set 6-14 Sept 49
Type of shell	No. of shells co	ounted 20 (inside only)
Sample No. 223 Stake No	11-21-14-11-36-37-22-16-3-13 = 1 31-6-5-16-34-17-3-30-13-17 = 1	Av. No. per
Sample No		Av. No. per shell
Sample No		Av. No per shell
	Total 3	56 Av. / 7.8
Remarks:	Counted by JDAndre	w Date 19 Sept 49
Rayner In 110 10	5 31 01 -	

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Oyster ground B	rown Shoal - James R. Period set	6 to 14 Sept 194
Type of shell	No. of shells counted	(inside only)
Sample No. 225	6-3-5-1-15-15-3-14-6-0=68	Arr No mon
Stake No.	16-10-5-2-3-8-3-2-6-12 =64	Av. No. per
Sample No		Av. No. per
Stake No.		shell
Sample No		Av. No per
Stake No		shell
	Total 135	Av. 6.75
Remarks:	Counted by STresself	
very dirty	shells! & J. D. Andrew	n

Oyster ground_	Brown Shoal Period set	14-21 Sept 49
	No. of shells counted	
September all the proposition of the second		
Sample No. 226	3-3-4-0-3-4-3-6-9-5= 40	Av. No. per
Stake No.	1-3-2-13-0-1-6-2-5-7= 40	shell
		padaga - na naga-gla-mpang
Sample No.		Av. No. per
Stake No.		shell
Access of the second se		
Sample No		Av. No per
Stake No.		shell
		Martin region being a region
Bartiniste (IRA deplesión el estandica y cabula, el cabula.	Total. 80	Av. 4.0
Remarks:	Counted by JDAndrews	Date 26 Sept 49
Barnacles 2-18	-20-87-16-4-35-42-43-72 = 3	39 aw.p.t
most 1	-14-2-1	

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Oyster ground	Shown Shool, I ame	Regriod set	14-21 Sept 49
	No.		
		<i></i>	The state of the s
Sample No. 227	6-5-3-9-5-3-3-6-6-4 $17-8-7-3-1 = 104$	-7-1-4-0-6	Av. No. per
			shell
Stake No.	First 10 = 50		5.2
	Second 10 = 54		
Sample No			Av. No. per
Stake No.			shell
			эмпрогодин финофициалия
Sample No			Av. No per
			shell
Stake No.			
	Total	10\$	Av. 5.2\$
Remarks:	Counted by	E Tresself	Date 22 Sept 49

Thells dirty

Oyster ground	Frown Shoal - Jamegriod set	21-28 Sept 49
	No. of shells counted	
Sample No. 228 Stake No	5-0-2-1-1-2-0-3-0-1 = 15 2-1-1-4-3-0-0-0-1-0=12	Av. No. per shell.
Sample No		Av. No. per shell
Sample No	*	Av. No per shell
	Total 27	Av. /,35
Remarks:	Counted by & Thesself	Date 10/6/49

Oyster ground	sown Shoal-James	Period set_	21-28 Sept 49
	No.		
Sample No.230 Stake No.	0-0-2-0-1-0-0-1-2	-/ = 7 2-2 = 16	Av. No. per shell
Sample No			Av. No. per shell
Sample NoStake No			Av. No per shell
	Total	16	Av8
Remarks:	Counted by	E, Tresself	Date 4 Oct 49

Oyster ground_	Brown Sheal Period set	28 Sept to 50ct
Type of shell	No. of shells counted	20 (inside only)
		Control of the second control of the second
Sample No. 233	0-2-0-0-1-0-1-3-4 = 11	Av. No. per
Stake No.	1-1-1-0-1-0-0-0-0-4 = 8	shell
antiminate ,		Marie Anna Marie M
Sample No		Av. No. per
Stake No.		shell
		kings object on control or
Sample No		Av. No per
Stake No.		shell
		gletyn rywer yn rhyn y gwedd
Bartines and about the second of the second of the second	Total 19	Av. , 95
Remarks:	Counted by J.D. Andrews	
Barnacles 0-	0-0-0-7-188-2-0-0-1 = 198	av. f. skill

Oyster ground_	Brown Shoal	Period set	5 to 31 Oct 49
Type of shell	No.	of shells counted	/o (inside only)
Sample No. 234 Stake No/_	0-0-1-0-0-1-	0-1-0-0=3	Av. No. per
Sample No			Av. No. per shell
Sample No			Av. No per
	Total	3	Av. ,3
Remarks:	Counted by	ETherset	Date Jan 26,50

D	11	12	13	1 +	15	6	7	18	19	10	=
Bornaelis	59	4	94	75	4	19	5	64	5	43	= 382
Membran-	0	0		2			1	D	0	-	= 5

aviper shell 38.2 .05

Weekly Oyster Spatfall on Wrech Shoal, 1949 IN The James River Seed Area

Data on 10 to 40 Shellfaces

Two Parter-Bushel Shellbags

14 June to 2 November, 1949

Jay D. Androws VIMS

1949 Weekly Shellbag Spat Counts (Shellfaces of clean WIEKLY OYSTER SPATFALL Shells each week)

Oyster ground	Wreck Shoal Period set 1	1-23 June 1949
	No. of shells counted	
Sample No. /	0-0-0-0-0-0-0-0	Av. No. per shell
Sample No		Av. No. per
Stake No.		Av. No per shell
	Total 0	Av. O
Remarks:	Counted by J.D. And rews	Date 25 Jun 1949
Membran, pira Barnacles	15-24-2-1-12-30-19-13-3-8 = 127 -2 -2-1 = 5	av. per sheel 12,7

water very fresh - only membrangine colonies with two units counted - most of. the above had 2-4 units.

	Winter over a constraint	
	Jee solred	27 Tage 2.25 (46) 2.37
	ejmeo allada lo "oli	Link to ent
req politiva		
		· · · · · · · · · · · · · · · · · · ·
*		Sample No.
shell		Stake No.
	· · · · · · · · · · · · · · · · · · ·	*
meg off vA		Sample No.
		Stake No.
4 3		
,vA	Totel	
Date 14 Tile	Counted by	Remarka.

Oyster ground	Wreck Shoal Period set	23-28 June 1949
Type of shell	No. of shells counted	// (inside only)
Sample No. 2	0-0-0-0-0-0-0-0	Av. No. per shell
Sample No		Av. No. per
Sample No		Av. No per
	Total	Av.
Remarks:	Counted by J.D. Andrews	Date 30 Jun 194
Barnacles 1-	0-0-0-1-0-0-0-0-0 = 2	av. p. shell

Oyster ground_	Wrech Sh	nal	Period	set	18 June to 6 July 4
Type of shell		No, of	shells	counted	/o (inside only)
Sample No. 3	0-0-0-1-				Av. No. per shell
Sample No					Av. No. per shell
Sample No					Av. No per shell
		Total		1	Av. ,/0
Remarks: Barnade: 0-0-0 Mend: 0-1-3-	3-0-0-1-0-	2.0 = 6	J. D. Ax	ndrews	Date 8 July 49 av. p. skell 6



Oyster ground	Nreck Shoul Period set	6-12 July 1949
Type of shell	No. of shells counted	10 (inside only)
Sample No. 4	3-1-0-2-1-2-3-2-1-0 = 15	Av. No. per shell
Sample No		Av. No. per shell
Sample No		Av. No per shell
	Total /5	Av. 1.5
Remarks: 3 3 5 5 Acount h. 0 0 0 0 Membrin 0 0 4 0		Date 15 July 8 JDA av.p. Shell 2,6 0 .8
donale ha.		1 .v. 10 per -

RUS

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(Vina sheni)	No. of siells contie	Type of skell
		лавту культратитут пругоры удра процестурую почения с урганизация и Вез постояния проделения.
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54.24	yd bednuog	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Oyster ground_	Wreck Shoal	Period set	12-19 July 1949 -
	No. (
	2-4-0-1-0-4-1-3		Av. No. per
Sample No			Av. No. per
Stake No.			shell
	4		eriningang ngurines
Sample No.			Av, No per
Stake No.	The state of the s		shell
	Total	22	Av. 2,2
Remarks:	Counted by	JD Andrews.	Date 20 Jul 49
Barnacles 1	10/0/10/0/0/0/0/0/ =.	3	av.p.shell

Oyster ground Week Sheel Period set July 19 July 26 4					
Type of shell oyster Shell No. of shells counted 10 (inside only)					
Sample No. 7	0-4-1-2-1-0-0-0-0-0=8	Av. No. per			
Stake No:		SHELL			
Sample No.		Av. No. per			
Stake No.					
Sample No.		Av. No per			
Stake No.					
Shahara Sharka ka k	Total 8	Av8			
Remarks: Bar 0 15 Mond. 101 Georf 0 01	Counted by D. Haven 0 2 0 0 0 0 0 = 9 0 0 0 1 0 0 0 = 3 0 0 0 0 0 0 0 = 3	Date July 47 1949 av. per shell			

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Oyster ground V	Jvick Shuls Period set 9	uly 26 - ang 2			
Type of shell Oysta No. of shells counted 10 (inside only)					
Sample No. 8	4-6*-4-4-2-2-6-7-1-2=38	Av. No. per			
Chalma No		shell			
Stake No.	and the specimens of the second secon	3.8			
open and a second district					
Sample No.	described to the second	Av. No. per			
Stake No.		shell			
1		and the state of t			
Sample No.		Av. No per			
Delipio Nos					
Stake No.	mogranicam com um maggicina mysquan ipospor ipospore un encorporariam in conserva anno in como con acqui modernicam	shell			
		Sprifthatte variable sup			
المستوالية والمستوالية والمستو		and the state of t			
	Total 38	Av. 3.8			
Remarks:	Counted by D. H	Date Aug 12 1949			
		av. pu shell			
Banuly 0 3 0	1 4 0 5 5 0 0 = 18 7 6 2 4 3 2 0 = 28 0 0 0 0 2 0 1 = 4	1.8			
ment 0 0 4	1 6 2 4 3 2 0 = 28	2.8			
acm 10 110	00002011=4				

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Loda	talka No.
Freq on .vA	apl elgma
shell	ok sks
, w/u	
, «VA:	
Date Avg.	Sounded by D. H
	10 10 10 10 10 10 10 10 10 10 10 10 10 1
	11000000000000000000000000000000000000

Remarks:	3 5 3 17 4 6 3 = 64 3 3 1 4 0 6 = 37 5 1 0 0 1 1 = 5	200 ang 12 1949 aw par she 6.4
	Total 81	Av. 8./
Stake No.		to Martine Colored
Sample Nos		Av. No per
Stake No.	· · · · · · · · · · · · · · · · · · ·	shell
Sample No		Av. No. per
Stake No.	هر بالمنافقة المنافقة المنافقة المنافقة المنافقة المنافقة والمنافقة والمنافقة المنافقة	6.4
	18-4-9-4-13-11-7-4-4-7-86	Av. No. per

0

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	Oyo Escape and No. of shells counted	
wee .on .vA	18 = X - H - H - Y - H - 8 (* H - A - H - 8)	Town 19
		40000000000000000000000000000000000000
		4-7
Av. No. per		Sample Hor
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					and the first state of the
d(inside only)	ells counte				Type of shell.
		101			1
Av. No. per					Sample Nov 10
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ted *61 *Av		12 . J. 1		v	Sample Lone
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Oyster ground	Wreck Shoal	Period set	2-9 Aug 1949
Type of shell	No. of	shells counted	// (inside only)
Sample No. 10	6-25-15-26-36-19-	8-36-5-22	Av. No. per shell
Sample No			Av. No. per shell
Sample No			Av. No per
	Total	198	Av. 19.8
Remarks: Barnacles 4-	Counted by	JD. Andrews 2-13-5 = 29:	Date 10 Aug 49 29.3=

Oyster ground \	Wreck Shoul	Period set aug	2 _ ay 9 49
Type of shell	ysta No. of	shells counted	(inside only)
Sample No. // Stake No.	1010-9-25-21-9-11-		Av. No. per shell
Stake No.			Av. No. per shell
Sample No			Av. No per
	Total	158 A	lv. 15,8
Remarks: 9.5	Counted by		Date ary 10/19 av. per shell 3.6

1 32

RUS

Oyster ground	Wreck Shoal	Period	set 9-16 Aug 1949	
			ounted /O (inside on	
Sample No. /2 Stake No.	Dead 17-6-29-7. Live 16-6-0-0-			
Sample No.			Av. No. per shell	
Sample No			Av. No per	
	То	tal.	220 Av. 22,0	
Remarks:	Counted	by JD. Ax	no rews Date 17 Aug 5	19

Oyster ground_	Wreck Sheal I	eriod set	9-16 Aug 1949
Type of shell	No. of sh	nells counted	/O (inside only)
CONTRACTOR OF THE PROPERTY OF	D. 6-15-12-15-13-8-8	8-7-9-4	:97
Sample No. 13	1. 2-1-1-0-4-0-0	-1-0-3	12 Av. No. per
Stake No.			shell
Dogwo Hos			
Sample No.			Av. No. per
Stake No.			SHELL
		Mari hank (Braggin), ta - Older affil - Old - Affiliantik Affil - Older affil	
Sample No			Av. No per
Stake No.	The second section of the		shell
Section of the Control of the Contro	Total		Av. 10,9
Remarks:	Counted by	J.D. Andr	Date 18 Aug 49
These she	lls were counted under water	n to better of	his tinguish between
	and Countil and 1 +1		, 0

These shells were counted under water to better distinguish between line and dead sport. Counted approximately 24 hrs. of the taken from the water, I hepet in tub of salt with after transporter; from river on a web cloudy day.

Oyster ground	Wreck Shoal Period set	16-23 Aug 1949
	No. of shells counted	
Sample No. 14	23-13-10-9-13-15-6-29-15-19=150	Av. No. per
Stake No.	28-16-11-19-5-6-15-23-13-34=190	she <u>ll</u>
Sample No		Av. No. per
Stake No		shell
		Manager de Annaber
Sample No		Av. No per
Stake No		shell
3		Company of the Company
	Total 320	Av. 76.0
Remarks:	Counted by J.D. Andrews	Date 2 Sept 1949
Barnacles 0-0	-1-1 2-1 2-1 - 10	100

Date ang 31 1940	Counted by A. However	Remarks:
58'0° • AV	714 Lator	
and desirable reput		
syeff		Stake No.
Av. No per		Sample No.
syejj		Stake No.
Av. No. per		Sample No.
Shell	881 = 82-21-61-51-11-08-11-28-91-41	Stake No.
Av. No. per	76-28-01-6-11-85-65-50-	Sinple No. 15
	Syster No. of shells counted	Type of shell
64 EE -91 Jenter	teck Stocks Period set	Oyster ground M

52

Oyster ground W	rock Shalla Period set_	23-30 Aug 1949
	is tu Shell No. of shells counted	
Sample No. 18 Stake No.	24-52-25-22-6-15-6-21- 24-24-18-21-20-25-19- 9-14-5-16-14-	Av. No. per
Sample No	First 10 = 219 Second 10 = 161	Av. No. per shell
Sample No		Av. No per
	Total 380	Av. / 9.0
Remarks:	Counted by D. Haren	Date & 1 /9 79

Oyster ground_	Wrech Shoal Period set 23-30 Aug 1949	
Type of shell_	No. of shells counted 20 (inside only)	
Sample No. 19	10-14-17-13-21-22-13-33-29-17- 189 Av. No. per	
Stake No.	16-13-14-17-9-11-7-18-H/-16 = 162 shell	
and-replaced.		
Sample No.	Av. No. per	
Stake No.	shell	

Sample No	Av. No per	
Stake No	shell	
	guidas especial de l'Asseg	
	Total 35/ Av. 17.55	
Remarks:	Counted by 99, Proper Date 1 Sept 49 164-32-40-34-15-63-19-13-11-11 = 402 1000 10	
Barnacles 1	164-32-40-34-15-63-19-13-11-11 = 402 av. per	o.2
ment	0-3-0 -1- = 4	14

Oyster ground_	Wrech Shoal	Period set	30 Aug - 6.	Pept 1949
	No. of			
Sample No. 20 Stake No.	5-5-1-12-10-11-8-9-5 H-6-2-3-9-4-13-5-13	The second secon	Av. No.	per
Sample No			Av. No.	per
Sample No			Av. No p	oer
	Total	131	Av.	6.55
Remarks: Barnacles 10-3	Counted by	J.D. Andrews	Date 6	Sept 49 av.p. shell 27.7

RUS

Youth Di

Oyster ground	Nieck Shoal Period set	30 Aug - G Sept
Type of shell	Oyster Shell No. of shells counted	(inside only)
Sample No. 2/	19-7-9-12-0-13-11-3-15-1=90 3-10-11-5-1-2-6-6-6-7 =57	Av. No. per
Sample No		Av. No. per
Sample No		Av. No per
	Total 147	Av. 7,35
Remarks:	Counted by Dexter Haven	Date 2 Oct 49

Oyster ground	uch Shoal - Janue	Period set_	6-14 Sept 49
	No.		
Sample No. 22 Stake No.	15-7-9-3-3-4-9-1		Av. No. per shell
Sample No			Av. No. per shell
Sample NoStake No			Av. No per shell
	Total	166	Av. 8,3
Remarks:	Counted by	ETresselt	Date 11/04/49

Oyster ground_	Wrech Shoal Per	riod set	6-14 Sept 49
	No. of shell		1
			Andreas Andreas Andreas Andreas Andreas
Sample No. 23	7-10-16-1-7-3-11-7-0-2 = 4-5-1-5-5-16-7-4-9-3 =		Av. No. per
Sample No.			Av. No. per
	Belleville (British British and Belleville) and spike (British British British British And British British British And		Million Company of
	ten te de de la la la la de desenta de del de la		
Sample No			Av. No per
Stake No.			shell
			Marin Specialist, Special .
	Total		Av. 6.15
Remarks:	Counted by	DAndrews	Date 20 Sept 49 tur. p. shel
Barnacles 5-7-	52-3-1-17-30-24-7-0 = 14	+6	tw. p. sket

RMS

Oyster ground	Vreck Shoul James Period set	14-21 Sept 49
	No. of shells counted	
Sample No. 24 Stake No.	9-0-1-7-8-0-3-3-7-4/-5-6-5-5-17 -17-6-3-7-4 = 117 fish 10 = 42 Pent 10 75	Av. No. per shell
Sample No		Av. No. per shell
Sample No		Av. No per
	Total //7	Av. 5.8
Remarks:	Counted by ETrusself	Date 22 Sept 4

Oyster ground W-	reck Shoal Perio	od set	14-21 Sept 49
Type of shell	No. of shells		20 (inside only)
Sample No. 25	5-6-7-11-9-10-1-7-18-5 =		Av. No. per
Stake No.	-6-12-6-7-2-32-6-18-4=	99	shell
Sample lio.			Av. No. per
Stake No.			shell
Sample No.			Av. No per
Stake No.			she <u>ll</u>
			Av. 9,0
Remarks:	Counted by JDAn	drews	Date 24 Sept 49
Barnocks 20-160-	49-77-120-188-59-66-411-66	= 846	av.p.d

BAS

Oyster ground W	Treck Shoal - Jan	wes Period set	21-28 Sept 1949
1)	/ws/S/ No.		
Sample No. 26 Stake No	1-5-1-3-2-4-8-3-22-1-6-2-3-1-4	3-4=34 -4-1: 44 gd	Av. No. per shell 3,9
Sample No			Av. No. per shell
Sample No			Av. No per
	Total	78	Av. 4.1
Remarks:	Counted by	5 Tresself	Date 10 /4/49

Oyster ground	Wyech Shoal Period set	21-28 Sept 1949
Type of shell	No. of shells counte	d 20 (inside only)
Sample No. 27	7-5-5-4-5-7-5-8-2 = 53	Av. No. per
Stake No.	12-4-3-5-3-3-0-2-6-0 = 38	shell
Sample No		Av. No. per
Stake No		shell
Sample No		Av. No per
Stake No.		shell
	Total 9/	Av. 4,55
Remarks:	Counted by J.D. Andrews	Date 40ct 1949
Barnacles 8-9	-26-6-6-52-1-8-2-48 = 166	16.6 av

RUS

Oyster ground	Wreck Shoal	Period set	28 Sept - 50ct 49
Type of shell_	No.	of shells counted	/o (inside only)
Sample No. 28 Stake No.	0-0-1-0-0-0-1-	0-0-0 = 2	
Sample No			Av. No. per shell
Sample NoStake No			Av. No per shell
	Total	2	Av. ,2
Remarks: Barnacles 0-0-1	Counted by		Date 60ct 49 av.p. shell

Oyster ground	Wrech Shoal Period set	5 Oct to 2 Nov 49
	No. of shells counted	
Sample No. 29 Stake No.	0-0-2-0-0-0-0-0-1=3	Av. No. per shell
Sample No		Av. No. per
Sample No		Av. No per
Stake No.		shell
	Total 3	Av3
Remarks:	Counted by Etherseet	Date Jan 26, 50
Barnaclus /	1 2 3 4 5 C 7 8 9 10 4 70 81 31 52 82 19 38 326 335 3 3 4 4 5 0 1 0 1	= 1048 = 104.8 = 21 = 2.1

Weethy Oyster Spatfall on Deep Water Shoal, 1949 in The James River Seed Area

Data on 10 to 20 Shellfaces
from

Quarter-Bushel Shellbags

14 June to 2 November, 1949

Oyster ground	Deep Water Shoal Period set 11	1-23 June 1949
	hills shell pile No. of shells counted	
and the same of a first and a		
Sample No. /O/	0-0-0-0-0-0-0-0	Av. No. per
		shell
Stake No.		0
Marcon Marchines - Houseaster Aposto House States and Assessment	named to the state of the state	
G 3 - 3/-		Av. No. per
Sample No.	Balder (and an	shell
Stake No.		
		manus, (straight regards-c)
Episocomission and collection contraction of the research - this, do notice the relative		
Sample No.		Av, No per
Stake No.		shell
	Total	Av
Remarks:	Counted by J.D. Andrews	
Barnacles 0-0-	0-0-0-1-0-2-0-0 = 3	av p. skill
outside of 3	bamacles no fouling organisms were to	seen Hapl a few
apots of the to	y Brygoa - Wh colonies. No membrany	ora, Acon thodesia
etc. Shells	clean - no much + un changed from date of	planting.

pis

to a .	Period Section 1985	× 5, 16,	Teday
vino enlant) s	beimpe aliene lo .eM		the of smell, the
			*
Av. Ho. per	C-6-0-0-0-0-0-6-0	40-6	L
Linia			take No.
, .v.			
Av. No. per			oll afges
d'Allèna 1		:	
-			
Av, No per			unple No.
* CIMia			ol, misi
#			
· · · · · · · · · · · · · · · · · · ·	Total		· · · · · · · · · · · · · · · · · · ·

Oyster ground	eep Water Shoal Period set 2	13-28 June 1949
Type of shell	No. of shells counted	// (inside only)
Sample No. 102 Stake No. 3	0-0-0-0-0-0-0-0	Av. No. per shell
Sample No		Av. No. per
	terprinted and the content of the co	estatutatura estatutura
Sample No		Av. No per
Stake No.		shell
Midgath condition and the second condition of the second	Total	Av
Remarks:	Counted by J. D. Andrews	Date / Jul 49

No fouling organisms

Oyster ground_	Deep Water Shoal	Period set	28 June to 6 July 41
Type of shell	No.	of shells counted	d /o (inside only)
		and the states desired and the state of the	1
Sample No. 103	0-0-0-0-0-0-0-0-		Av. No. per
Stake No.			shell
	- modern announce object. In the new to design on the best of the second		
Sample No.			Av. No. per
Chales No			shell
Stake No.			
Symmetric residence (Symmetric Service Control of the Control of t			
Sample No			Av. No per
Stake No.			shell
			-
	Total	0	Av.
Remarks:	Counted by	JD Andrews	Date 8 Jul 49
Barnacles 11-	0-0-0-0-0-1 0 0		



Oyster ground	Deep Water Shoal Period set	6-12 July 1949
Type of shell	No. of shells count	ed 10 (inside only)
Sample No. 104	0-0-0-0-0-0-0-0-0 = 0	Av. No. per shell
Sample No		Av. No., per shell
Sample NoStake No		Av. No per
	Total	Av. O
Remarks: Barnacles	Counted by $J.D.A.$ $D.A.$ D	Date 21Jul49

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Oyster ground	Deep Water Shoal Period set	12-19 July 1949
	No. of shells counted	
Sample No. 105 Stake No.	0-0-0-0-0-0-0-0-0-0	Av. No. per shell
Sample NoStake No		Av. No. per
Sample No		Av. No per shell
All the contract of the contra	Total O	Ava
Remarks:	Counted by J.D. Andrews	Date 21 Jul 49
Barnailes 0/0/	1/0/0/1/0/0/0/0 = =	av.p.shell
115 VIACE of 10	yoya ayotu spat. The shells were a mited. These two barnels were able to	lean twhite guid like

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MALININ OYOTAR SPATISAL

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	No. of shells counted	edamon alleds lo .oM	Lleris to sqy!
in the			
v. No. per			ample No.
chell		ac., .c. /	take No.
Ve No. per			.oli aligna
Cleda			, we I olf exted
ded on *1	*		-oN signs
Liene		. 4	take No.
.,	Paradar e e e e e e e e e e e e e e e e e e e		y. 186.
	A		
ejs	Counted by		emarks:

MALIKLY OYSTER SPATFALL

	Oyster ground	Deep Worth Shael Ferriod set J	uly 19 - July 26 49
	Type of shell	Gyster Stells No. cf shells counted	(inside only)
	Sample No.106	0-0-0-0-0-0-0-1-0-0=1	Av. No. per
	Stake No.		shell
in the second	Sample No		Av. No. per
11.11	Stake No.		shell
	Sample No	1.35 · · · · · · · · · · · · · · · · · · ·	Av. No per
	Stake No.		shell
			m-Managers or discourse
	Service and the service and th	Total /	Av.
	Remarks: Shells very for	e from souling	0.4
Bar	isles 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	av piskell

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d. 20 (inside only	edwoo slique la	مساله ال		Libra to equi
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Tec. son ava				Sample No.
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,vA				
Date				
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		. 19 00		
		- 6		

Oyster ground 1	Josep Water Shals Period set	July 26 - ary 2
	No. of shells counted	
Antiferrigin either de registerious formers - descriptions account - case with an all the first descriptions and a second or case with a second or case wi		
Sample No.107	0-0-0-0-0-0-0-0-0	Av. No. per shell
Sample No.		Av. No. per
Stake No.		shell
Sample No	€	Av. No per
Stake No.	Manager Sala Sala Salay (Manager Manager) And Manager Salay (Manager Salay Salay Manager Salay Salay Manager Salay Manager Salay (Manager Salay Manager Sala	shell
	Total 0	Av.
Remarks:	Counted by D. H	Date ay 11 49
3 anniacles 1 7 continue of 0 0	000000000000000000000000000000000000000	1,2

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San Manager Sugar		ve holenes		:

Oyster ground_	Deep Water Shoals Period set_	2-9 Aug 49
	No. of shells counted	
Sample No. 108 Stake No.	0-0-0-0-1-0-0-0-0 = /	Av. No. per shell
Sample No.		Av. No. per shell
		Av. No per shell
The same should be seen a state of the	Total /	Av/
Remarks:	Counted by J.D. Andrew	Date 10 Aug 49 av. p. She
	-5-9-11-1-45-2-20-0-4 = 118	11.8
* This was a	Pushly set + clean cut spot of about 400 a	

·RIS

.... ... Springer for an annual transfer 1 21 F. + + 1, NO + 1 ... A. L. a man a minera espata. Acres 40 64 1 797 Counsel of the state of the sta 3 h Terret 1 Street Cost Maria . Comment English and the state of the st Clark Strang Wich . C. Av. No. per Sample No. strong a state of the set of the special to the special series of the spe Stake No. Type of shell named in (inside only) Cyster ground 12 1 William 51 Period set 6 2 - A

Oyster ground h	eep Water Should Period set a	1 2 - Deg 9 49
Type of shell_	Oyeth No. of shells counted	
Sample No. 109 Stake No.	0-1-0-0-0-1-0-0-0	Av. No. per shell
Sample No.		Av. No. per
Stake No.		shell
with-stands		
Sample No		Av. No per
The subsect of the last should be a special to	Total 2	Av. 2
		Date Aug 11 49 aug shel
Barnades 7/49 menhan 0/0 acont. 0/0	48 97 16 11 71 12 15 16 = 342 0 0 0 0 0 0 0 0 0 0 = 0	34,2

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and a second control of the second control o the same of the sa en ign mus men i die e tien Steke No. .Av. No. per Sample No. Type of shell A ... The Period set A 2 - A 4

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Oyster ground_	Deep Water Shoal Period set	9-16 Aug 1949
Type of shell_	No. of shells counted	10 (inside only)
Sample No. //O	0-2-9-3-1-3-2-3-4-1= 28	Av. No. per shell
Stake No.		Av. No. per shell
Sample NoStake No		Av. No per shell
	Total 28	Av. 2,8
Remarks:	Counted by T.D. Andrews	Date 18 Aug 49

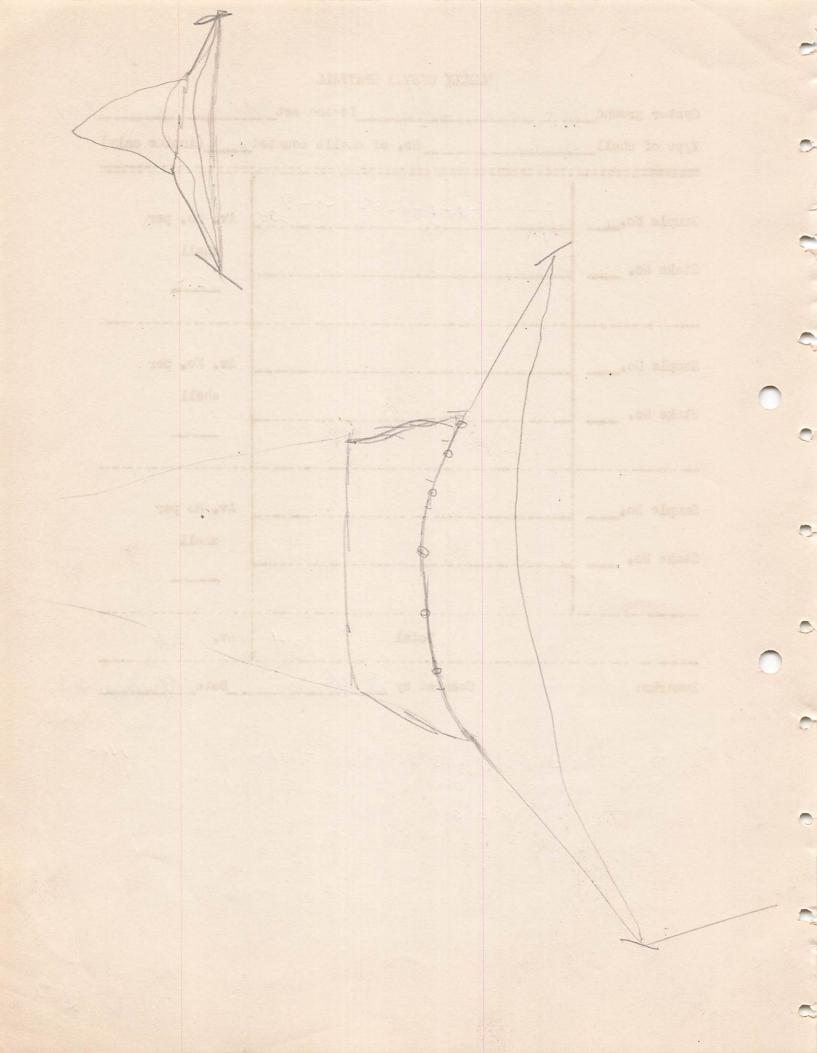
Barnacles 0-8-3-0-40-2-1-5-1-3 = 63

RNS

Oyster ground	cep Water Shoul Period set 9	2-16 aug 1949
Type of shell	No. of shells counted	(inside only)
Sample No.//	2-1-0-1-1-5-5-1-7=24	Av. No. per shell
Sample No.		Av. No. per
Stake No.		shell
Sample No		Av. No per shell
	Total 24	Av. 2.4
Remarks:	Counted by D. Haven	Date 19 Aug. 49 av p. skill
Ban 6, 18 ment o acent.	2 1 9 7 2 3 30 19 23 = 1/2 0 0 0 0 0 0 0 0 0 = 0	

3,46

RNS



Oyster ground_	Deep Water Shoals Period set	16-23 Aug 1949
	No. of shells counted	
Medicine of the English of the Art State	the state of the s	
Sample No. //2	0-0-0-0-2-0-0-1-0-1 = 4	Av. No. per shell
Sample No		Av. No. per
Stake No.		
Sample No		Av. No per
Stake No.		
	Total 4	Av4
Remarks:	Counted by J. D. Andrews	Date 7 Sept 49
Barnacles 9-3	-7-9-7-11-0-1-1-2-44 = 94	94

25

Oyster ground D	Jeep Woth Shouls	Period set_	aug 16-23 49
Type of shell_	No.	of shells counte	ed 20 (inside only)
Sample No. 113 Stake No.	2-7-0-0-0-0-1-		
Stake No.			Av. No. per shell
Sample NoStake No			Av. No per shell
	Total	/8	Av9
Remarks:	Counted by	0.11	Date any 29

ans

	Deep Water Shoal , Period set	
Oyster ground_	Rep Wally) Noal) Period set	23 Aug - 6 Sept 49
Type of shell	No. of shells counted	d 20 (inside only)
Sample No. 1/5 Stake No.	0-0-1-t0-1-0-3-0-0-2-2-0-1-0 -0-2-0-0-0 first 10 = 6 Suand 10 = 7	Av. No. per shell
Sample No		Av. No. per shell
Sample No		Av. No per
	Total 13	Av65
Remarks:	Counted by 2 Tresself	Date 10 /4/ 49

Remarks:

Oyster ground_	Deep Water Shoals Period set	23 Aug to 6 Sep 1949
	No. of shells counted	
Miles de la grande de la companya de		
Sample No. //6	0-0-0-0-0-0-0-0-0	Av. No. per
Stake No.		shell
		public recognition regard
Sample No		Av. No. per
		shell
TO B resultational		
Count o No		
Sample No.	methods south and the second s	Av. No per
Stake No.	destruction to a discourse constitution and a second production of the production of the production of the second	shell
performination inscriptions of anti-other or calculate granuses		
	Total	Av. o
Remarks:	Counted by	Date 7 Sept 49
Barnacles 5-16	-2-6-11-5-18-6-1-8 = 74	av p. suice

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Oyster ground	Deep Water Shoals Period set	10-14 Sept 49
	No. of shells counter	
	0-0-0-0-0-0-0-1-0 =1	Section of the Sectio
Sample No. //7	0-	Av. No. per
Stake No		shell
		Company of the Compan
Sample No		Av. No. per
Stake No.		shell
Sample No		Av. No per
Stake No.		shell
		Company of the American
	. Total /	Av. /
Remarks:	Counted by J.D. Andrews	
Barnacles 1-2-1	(-13-9-7-11-11-3-2	av.p. shel

Oyster ground De	ep Water Shoal	Period set	6-14 Sept 49
Type of shell	No. of	shells counted	1 / 0 (inside only)
	ka ang Mandhaman da ang mang manang manang mang mang mang		
Sample No. //8 Stake No.	1-0-0-0-0-0-0-0	= 1	Av. No. per shell
Sample No.			Av. No. per
Stake No.			
Sample No			Av. No per
Stake No.			shell
	Total	/	Av. ,/
Remarks:	Counted by		Date 20 2049

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Oyster ground_	Deep Water Shoal Period set	14-21 Sept 49
	No. of shells counted	
	1-1-3-0-0-0-0-0 = 5	
Sample No. 119		Av. No. per
Stake No.		shell
Ducko Hos		endo-specific design
Sample No	And the second of the second o	Av. No. per
Stake No.		shell
-		
Sample No		Av. No per
	management with referring the application of the property of the contraction of the contr	shell
Stake No.		PHETT
		(gaganapara sangar pang)
tika kerinta adam projenjanja i je irohanta i 18. indu inter na ustavin		
	Total 5	Av5
Remarks:	Counted by JD Andrews	Date 23 Sept 49
Barnades 20-	-28-102-3-23-35-9-7-23-22 = 272	av-p

ROS

Oyster ground_	Deep Water Shoals		Period se	et	21-28 Sept.	1949
Type of shell_	****					
Count o No. 126	0-0-0-0-0-0-				A	
Sample No. 120					Av. No. per	
Stake No.					shell	
					many and appropriately	
0- 1 11						
Sample No.		tar B. Martin Madhartan Se			Av. No. per	
Stake No.		,			shell	
					production de l'aborde na	
Carral a No					A No mo	
Sample No					Av. No per	
Stake No.					shell	
					Married Production	
hard to the state of the state	L					
	Т	otal	0		Av. O	
Remarks:	Counte	d by	J. D. Andr	rews	Date # Oct	49
Revenuela 11 -	1/ 2 2 1/ 1 12 .				av	· p . 80

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Oyster ground_	DeepWater Shoal Period set	28Sept-50ct49
Type of shell_	No. of shells counted	10 (inside only)
Sample No. 121 Stake No.	0-0-0-0-1-0-0-0 = 1	Av. No. per
Sample No		Av. No. per shell
Sample No		Av. No per
Stake No.		shell
		Av. ,/
Remarks:	Counted by J.D. Andrews	Date 60ct 49

Barnacle 0-45-17-173-30-1-40-11-19-24 = 358

MS

	Oyster ground_	DEEP WATER SHOALS Period set 5	Oct to 2 Nov 1949
	Type of shell	No. of shells counted	
Jast Al	Stake No.	0-0-0-0-0-0-0-0-0-0	Av. No. per
	Sample No.		Av. No. per
	Stake No.	·	shell
)		
	Sample No		Av. No per
	Stake No		shell
_	Magazza (Maria anna an agusta a a maria an agusta a agusta agusta a agusta agusta a	Total	Av.
	Remarks:	Counted by IThesself	Date 3/11/50
	Barna Membro	eles 116 103 102 90 103 79 41 emporar 1 8 0 1 0 15 6	8 9 10 70 TAL AV./S. 45 103 36 818 81.5 8 26 2 67 6.7
		The state of the s	