Oyster Shell Analysis Key

Height in mm, * estimated

Length in mm, * estimated

Ratio = H/L

Area Index = 0.5 x H x L

Rays
- 0 Absent
- 1 Vaguely developed
- 2 Strongly developed

Oyster Attchments, counted.
Barnucle Attchments, + Present
Mussel Attchements, + Present
Small Boring Sponge
- 0 Absent
- 1 1% to 10% of Shell Surface
- 2 11% to 50%
- 3 > 50%

Large Boring Sponge
- 0 Absent
- 1 1% to 10 % of Shell Surface
- 2 11% to 50%
- 3 > 50%

Mudworms, + Present
Drill, + Present
Ectoprocts, + Present

Burned, + Present

Edge Damage
- Edge
  - D Dorsal
  - DA Dorsal/Anterior
  - A Anterior
  - AV Anterior/Ventral
  - V Ventral
  - VP Ventral/Posterior
  - P Posterior
  - PD Posterior/Dorsal
- Damage Shape
  - S Straight
  - V. Convex
  - C Concave
  - K Knife Damage

SU #37

Fixed

Feature 8 Level 1 N=191 Check 757 wrong

Height $\bar{x}$ = 79.12 Length $\bar{x}$ = 58.46 Ratio $\bar{x}$ = 1.39

sd = 20.72 sd 51.99 sd = 0.20

range 35-166 range 30-751 range 0-2

Rays Sm Bor. Sp. 0-60.2% Lg Bor Sp. 0-83.2%

0-33.5% 1-17.8% 1-7.9%

1-52.9% 2-15.2% 2-8.9%

2-13.6% 3-6.8%

0-2.6%

Only 2.6% burned 90.6% w/ mudworm 1-67%

1% w/ drill 2-26% 60.5%

3-3.7%

1713E N=38

Height $\bar{x}$ = 64.45 Length $\bar{x}$ = 46.26 ratio $\bar{x}$ = 1.35

sd. = 14.53 sd = 9.55 sd = 0.15

range 38-91 range 28-62 range 1-2

Rays Sm. Bor Sp. 0-71.1% Lg Boring Sp 0-89.5%

0-23.7% 1-18.4% 1-10.5%

1-55.3% 2-7.9%

2-21.1% 3-2.6%

Oyst Att 0-7.9%

10.5% burned 78.9% w/ mudworm 1-65.8%

No drill 2-26.3%

1914E N=141

Height $\bar{x}$ = 71.25 Length $\bar{x}$ = ~~17.37~~ 51.71 ratio $\bar{x}$ = ~~3~~ 1.35

sd = 17.37 sd = 13.23 sd 0.19

range 33-124 range 25-74 range 1-2

Rays Sm. Bor Sp. 0 68.8% Lg Boring Sp 0-84.4%

0 - 19.1% 1 19.1% 1 - 7.8%

1 - ~~85~~ 60.3% 2 9.9% 2 - 7.8%

2 - 20.6% 3 2.1% Oyst Att 0 - 13.5%

1 - 75.2%

2.1% w/ drill 88.7% with mudworm 2 - 9.9%

3.5% w/ buried 3 - 1.4%

1710W N = 111

Height $\bar{x}$ = 94.45 Length $\bar{x}$ = ~~3~~ 60.59 Ratio $\bar{x}$ = 1.52

sd = 25.34 sd = 14.59 sd = 0.27

range 41-154 range 24-93 range 1-3

Rays Small bor. sp Lg bor. sp

0 - 50.7% 0 - 25.2% 0 - 73.0%

1 - 42.7% 1 - 34.2% ~~sd~~ 1 - 13.5%

2 - 7.2% 2 - 24.3% 2 - 9.0%

3 - 16.2% 3 - 4.5%

89.2% w/ mudworms Oyster Attach 0 - 1.8%

3.6% w/ drill 1 - 59.5%

none buried 2 - 34.2%

3 - 4.5%

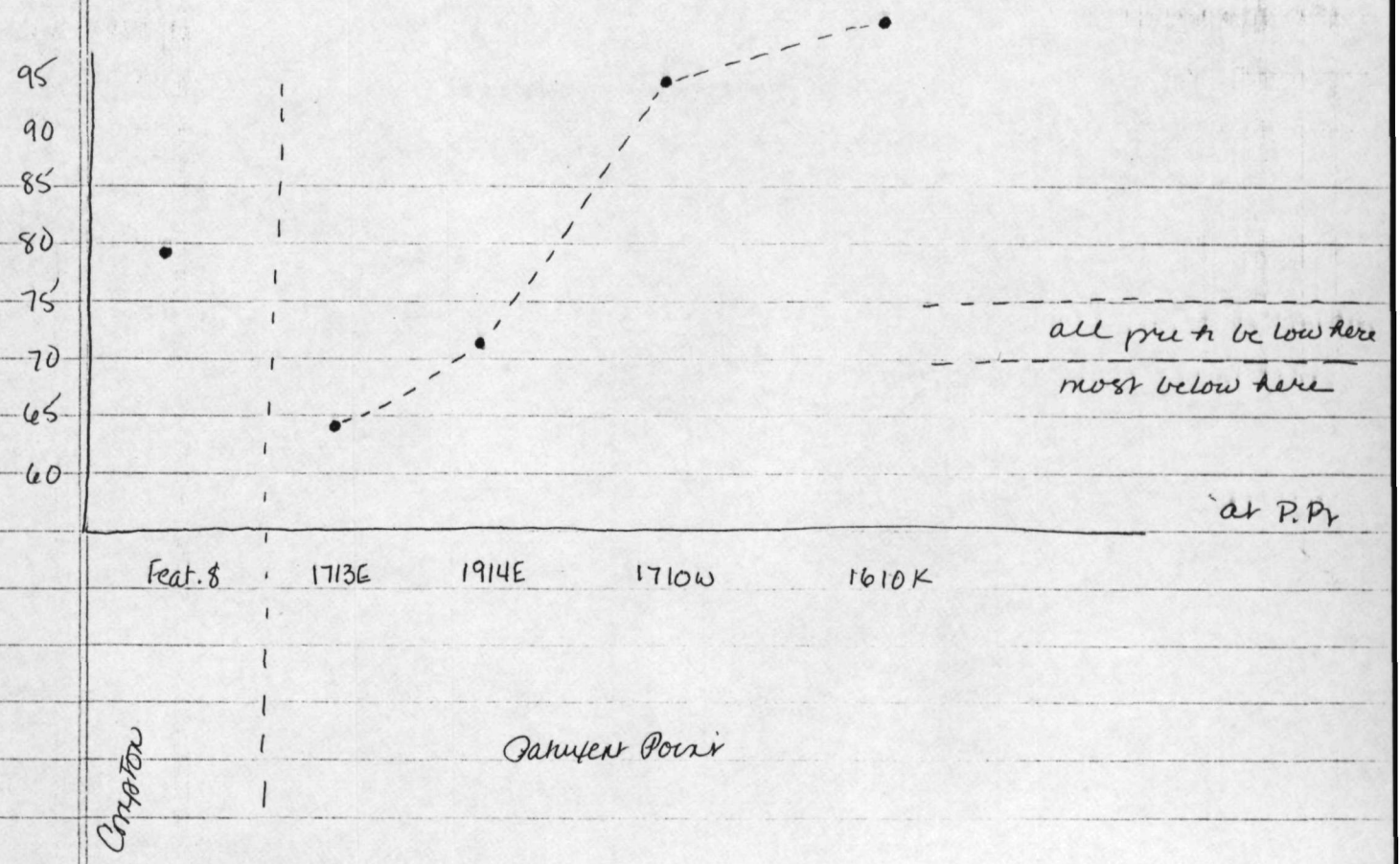
1610K N=120

Height	Length	Ratio
$\bar{x}$ = 99.02	$\bar{x}$ 61.07	$\bar{x}$ = 1.57
sd = 29.58	sd 16.04	sd 0.23
range 41-183	range 25-94	range 1-2

Rays	Sm Bor Sp	Lg Bor Sp
0-31.7%	0-22.5%	0 - 48.3%
1-57.5%	1-28.3%	1 - 16.7%
2-10.8%	2-22.5%	2 - 23.3%
	3-26.7%	3 - 11.7%

None bursed
84.2% w/ mudworm
1.7% w/ drill

Oyst attach
0 - 0.8%
1 - 61.7%
2 - 35.8%
3 - 1.7%



	height	ratio	
2215E	$\bar{x}$ = 70.14	$\bar{x}$ = 1.5	N = 156
2114E	$\bar{x}$ = 61.68	$\bar{x}$ = 1.3	N = 75
2104L	$\bar{x}$ = 74.97	$\bar{x}$ = 1.4	N = 62
2608J	$\bar{x}$ = 69.46	$\bar{x}$ = 1.4	N = 78

1610K

66 buckets of shell

3 buckets - 300 left valves for oyster shell sample

SW Quad

1610E : SW quad : 45 buckets shell

overlies 1610G → 4 buckets shell wh. is a dark brown silt loam

to 1610G overlies 1610M → 1610H overlies subsoil

SE Quad

1610K - ~~under~~ overlies 1610L → 2 bu. shell wh. overlies 1610M wh. over. 1610N + 1610P → all shell kept

1610P overlies 1610R wh. overlies 1610S + T

1710W + 1610K are the same level, diff quad

1710W: 32 bu. shell

Sampling

Shell larger than a quarter: quartered by bucket

several buckets sorted, left valves reserved for analysis.

33/8

1 case bottle neck, rim + shoulder

1 mound bottle base closer in form to c.1686, 88, 98. forms, as shown in NH

1 case bottle base, smaller than above,

3 case bottle rim

1 large wine bottle rim

6 mound bottle body frags

1 case bottle base

1 case bottle shoulder

12 case bottle body frags

13 unid dark green bottle gl - either wine or case

2 mound bottle glass

1 wine bottle neck

8
3 13
3 1
2 22
11 8
30

+ 19

152
-19
133
7
126

Table . Patuxent Point (18CV271) and Compton (18CV279) Oyster Shell Data.

Site		18CV271		18CV271		18CV271		18CV271		18CV279		18CV279		18CV279		18CV271		18CV271		18CV271		18CV271	
Unit		2608J		2104H		2215E		2114E		F8-L3		F8-L2		F8-L1		1713E		1713W		1610K		1914E	
Age BP		1840a		1450a		900?		900?		301		300		299		290		280		280		270	
Number		78		62		156		75		22		45		191		38		111		120		141	
Height	Mean	69.46		74.97		70.14		61.68		80.82		79.51		79.12		64.45		94.45		99.02		71.25	
	SD	17.92		21.20		20.35		16.29		19.68		21.35		20.72		24.53		25.34		29.58		17.37	
Length	Mean	48.64		51.21		45.67		44.99		56.59		53.60		58.46		46.26		60.59		61.07		51.71	
	SD	13.81		14.51		11.84		11.59		12.90		12.28		51.99		9.53		14.59		16.04		13.23	
Ratio	Mean	1.40		1.41		1.50		1.34		1.39		1.45		1.39		1.35		1.52		1.57		1.35	
	SD	0.20		0.18		0.23		0.17		0.21		0.22		0.20		0.15		0.27		0.23		0.19	
Area	Mean	1798.62		2172.23		1708.30		1470.88		2380.36		2237.51		2264.43		1550.21		3049.00		3229.72		1940.69	
	SD	981.06		1358.71		938.46		858.53		1089.60		1116.26		1158.07		624.57		1386.27		1673.48		866.02	
Rays	0 n %	37	47	24	39	95	61	29	39	10	46	15	33	64	34	9	24	56	51	38	32	27	19
	1	31	40	28	45	48	31	40	53	11	50	28	62	101	53	21	55	47	42	69	58	85	60
	2	10	13	9	15	13	8	6	8	1	5	2	4	26	14	8	21	8	7	13	11	29	21
	3	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Attach	0	1	1	4	7	21	14	4	5	0	0	0	0	5	3	3	8	2	2	1	1	19	14
	1	64	82	55	89	122	78	63	84	8	36	29	64	128	67	25	66	66	60	74	62	106	75
	2	13	17	2	3	12	8	8	11	7	32	13	29	50	26	10	26	38	34	43	36	14	10
	3	0	0	1	2	1	1	0	0	7	32	3	7	8	4	0	0	5	5	2	2	2	1
Barnacle	0	77	99	60	97	154	99	74	99	17	77	34	76	162	85	36	95	108	97	116	97	134	95
	1	1	1	1	2	2	1	1	1	5	23	11	24	29	15	2	5	3	3	4	3	7	5
	2	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMBOSP	0	35	45	30	48	77	49	45	60	9	41	18	40	115	60	27	71	28	25	27	23	97	69
	1	16	21	11	18	23	15	16	21	6	27	10	22	34	18	7	18	38	34	34	28	27	19
	2	8	10	12	19	26	17	7	9	4	18	13	29	29	15	3	8	27	24	27	23	14	10
	3	19	24	9	15	30	19	7	9	3	14	4	9	13	7	1	3	18	16	32	27	3	2
LGBOSP	0	54	69	32	52	112	72	63	84	19	89	38	84	159	83	34	90	81	73	58	48	119	84
	1	6	8	14	23	17	11	3	4	1	5	2	4	15	8	4	11	15	14	20	17	11	8
	2	16	21	11	18	24	15	7	9	2	9	5	11	17	9	0	0	10	9	28	23	11	8
	3	2	3	5	8	3	2	2	3	0	0	0	0	0	0	0	0	5	5	14	12	0	0
Mudworm	0	20	26	26	42	37	24	9	12	1	5	3	7	18	9	8	21	12	11	19	16	16	11
	1	58	74	36	58	119	76	66	88	21	96	42	93	173	91	30	79	99	89	101	84	125	89
Drill	0	76	97	57	92	133	85	72	96	22	100	45	100	189	99	38	100	107	96	118	98	138	98
	1	2	3	5	8	23	15	3	4	0	0	0	0	2	1	0	0	4	4	2	2	3	2
Ectoprot	0	78	100	62	100	156	100	75	100	20	91	41	91	175	92	35	92	109	98	114	95	141	99
	1	0	0	0	0	0	0	0	0	2	9	4	9	16	8	3	8	2	2	6	5	1	1
Burned	0	78	100	62	100	153	98	55	73	21	96	42	93	186	97	34	90	111	100	120	100	136	97
	1	0	0	0	0	3	2	20	27	1	5	3	7	5	3	4	11	0	0	0	0	5	4

Jefferson Patterson Park & Museum

DAILY FIELD JOURNAL

Site 18CU271

Project PATUXENT POINT

Date JULY 8th 1991

Observer JENNIFER TAYLOR

1. Day's activities: ANALYZED OYSTERS FROM 1710 W PROVENIENCES

2. Areas and levels worked or supervised: (List all areas, levels, artifact lots, and features.) I WORKED ON OYSTERS FROM 1710 W PROVENIENCE, CHOOSING EVERY OTHER ONE FOR ANALYSIS.

3. Comments and interpretations: THERE WASN'T ONE BURNED OYSTER

Jefferson Patterson Park & Museum

DAILY FIELD JOURNAL

Site 18CU271

Project PATUXENT POINT

Date JULY 10th 1991

Observer JENNIFER TAYLOR

1. Day's activities: ANALYZED OYSTERS

2. Areas and levels worked or supervised: (List all areas, levels, artifact lots, and features.) ANALYZED OYSTERS FROM 2608J AND 2114E PROVENIENCES BY CHOOSING EVERY OTHER OYSTER.

3. Comments and interpretations: THE OYSTERS FROM 2114E WERE NOTICEABLY SMALL COMPARED TO OTHER OYSTERS I HAVE MEASURED. 2114E ALSO HAD A NUMBER OF BURNT OYSTERS WHEREAS 2608J ONLY HAD ONE.

Jefferson Patterson Park & Museum

DAILY FIELD JOURNAL

Site: T. 18 CV 271

Project: PATUXENT POINT

Date: JULY 17th 1991

Observer: JENNIFER TAYLOR

1. Day's activities: ANALYZED OYSTERS

2. Areas and levels worked or supervised: (List all areas, levels, artifact lots, and features.) I COMPLETED ANALYSIS ON 2 OF THE THREE BAGS OF OYSTERS FROM 2215E.

3. Comments and interpretations: THE NUMBER OF OYSTERS WITH DRILL HOLES IS HIGHER IN THIS PROVENIENCE THAN IN ANY OTHER I HAVE ANALYZED.

Jefferson Patterson Park & Museum

DAILY FIELD JOURNAL

Site: 18CV271

Project: PATUXENT POINT

Date: JULY 19th 1991

Observer: JENNIFER TAYLOR

1. Day's activities: ANALYZED OYSTER

2. Areas and levels worked or supervised: (List all areas, levels, artifact lots, and features.) I COMPLETED ANALYSIS ON OYSTERS FROM 1610N, 1610M, 1610W, 1610P AND 2210F.

3. Comments and interpretations: ALL OF THESE WERE MUCH SMALLER SAMPLE SIZES WITH A LARGE AMOUNT OF UNMEASUREABLE BROKEN PIECES.

floral, faunal and shell remains was included in the proposal for those contexts for which such analysis was appropriate. The latter analyses were intended for the contents of the intact features.

REPORT

A report of the results of the investigations, following the format specified in the **Guidelines for Archeological Investigations in Maryland** will be prepared after all the laboratory analysis is complete.

Results of the Field Work

The field work was adjusted somewhat to accomodate some unforeseen circumstances. It was discovered in consultation with the Southern Maryland Regional archæologist that a complete surface collection of the area previously investigated by Otter was desired. Since only the feature excavations had been allowed for in the budget calculations for this area it was necessary to eliminate the surface collection in Area C, and reduce the scope of subsurface testing in other areas to complete this work. Area D, as defined here, includes all of the area previously surveyed by Otter, as well as an additional portion of that field not covered under the earlier contract. This is done to make the survey areas congruent with the hedge rows and field margins found in the field.

AREA D

EXCAVATIONS

Complete excavation of three features and a partial excavation of a fourth was achieved. These four features were located in the northwest corner of area. A fifth feature, indicated further to the southeast on Otter's map (Otter 1987, Figure C-7), could not be relocated from surface indications. The intact portions of Features 1 and 2 (see Figure 4) were completely removed, placed in plastic garbage bags and returned to the Thunderbird Facility for waterscreening, flotation and artifact analysis. The plowzone over Feature 2 was dry screened in the field, but this procedure was too time consuming, and was not applied in other locations. A portion of Feature 3 was placed in plastic bags and returned to the lab, but this feature proved to be too large (more than 10' in diameter — see Figure 5) to complete , so only a portion of it was collected. Feature 4 (Figure 4) was dry-screened through quarter-inch mesh, and all artifacts and bone collected.

No analysis has been completed at this date of the excavated materials from the features in Area D, but some observations were

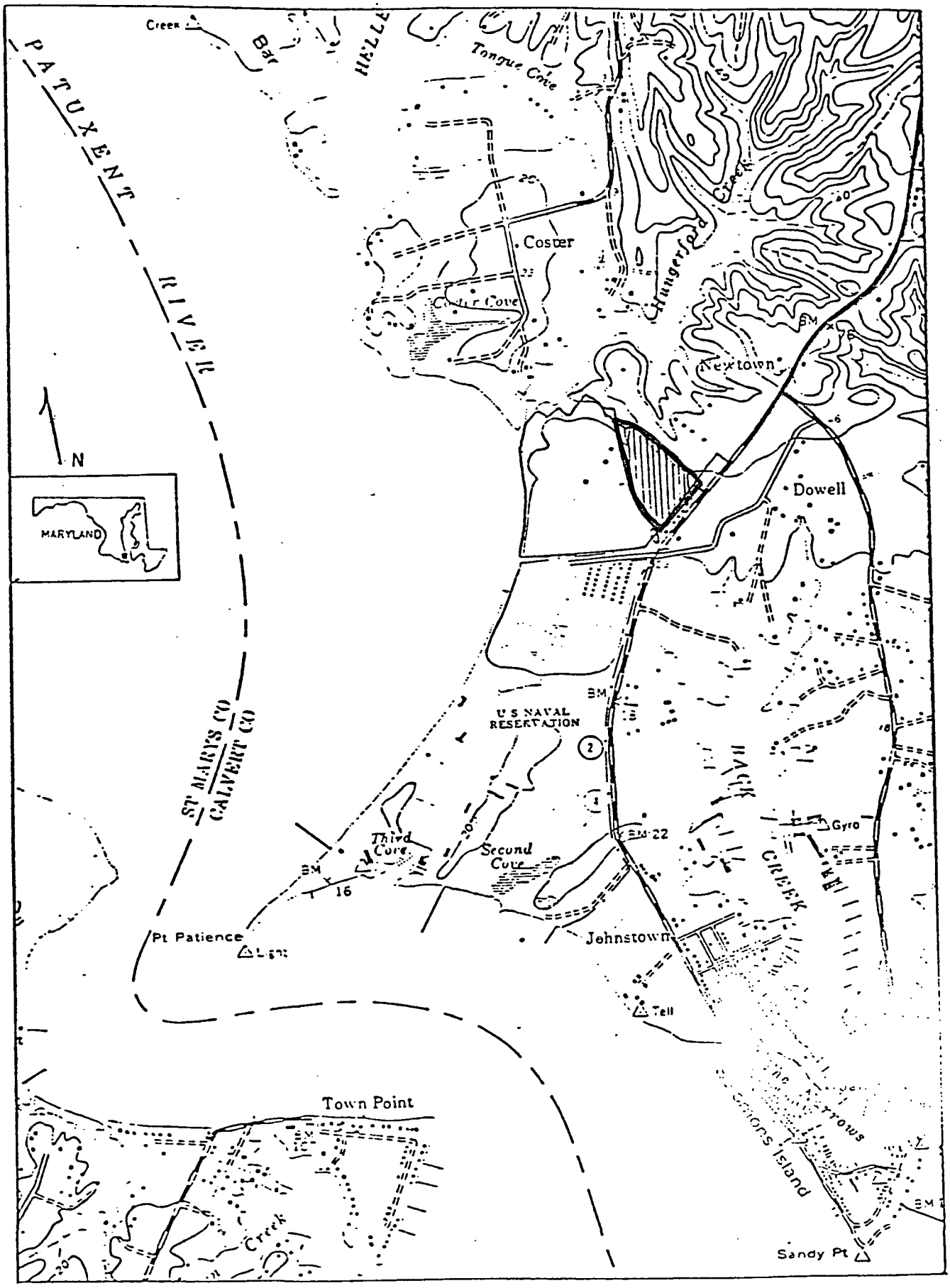
made in the field and during preliminary laboratory processing. Oysters dominate the shellfish species in the pit fills. Clams and snails are present in much lesser amounts. Noticeable amounts of faunal material are present in each of the features; mammals appear more conspicuous than fish although both are present. Each contained Mockley ceramics of the Middle Woodland Period, easily recognized from their thick, shell tempered plain and net marked sherds. Other ceramics, including a thinner cord marked type, and lithic debitage were present in the features.

CONTROLLED SURFACE COLLECTION

The entire field surrounding the head of the ravine in area D (Figures 6 and 7) was plowed, and a large proportion of it was subject to controlled surface collection in 20' wide strips. This includes all of the area surveyed by Otter, as well as the west side of the ravine head not previously surveyed. Artifacts were scarce in the center section of this area, so only alternate strips were collected.

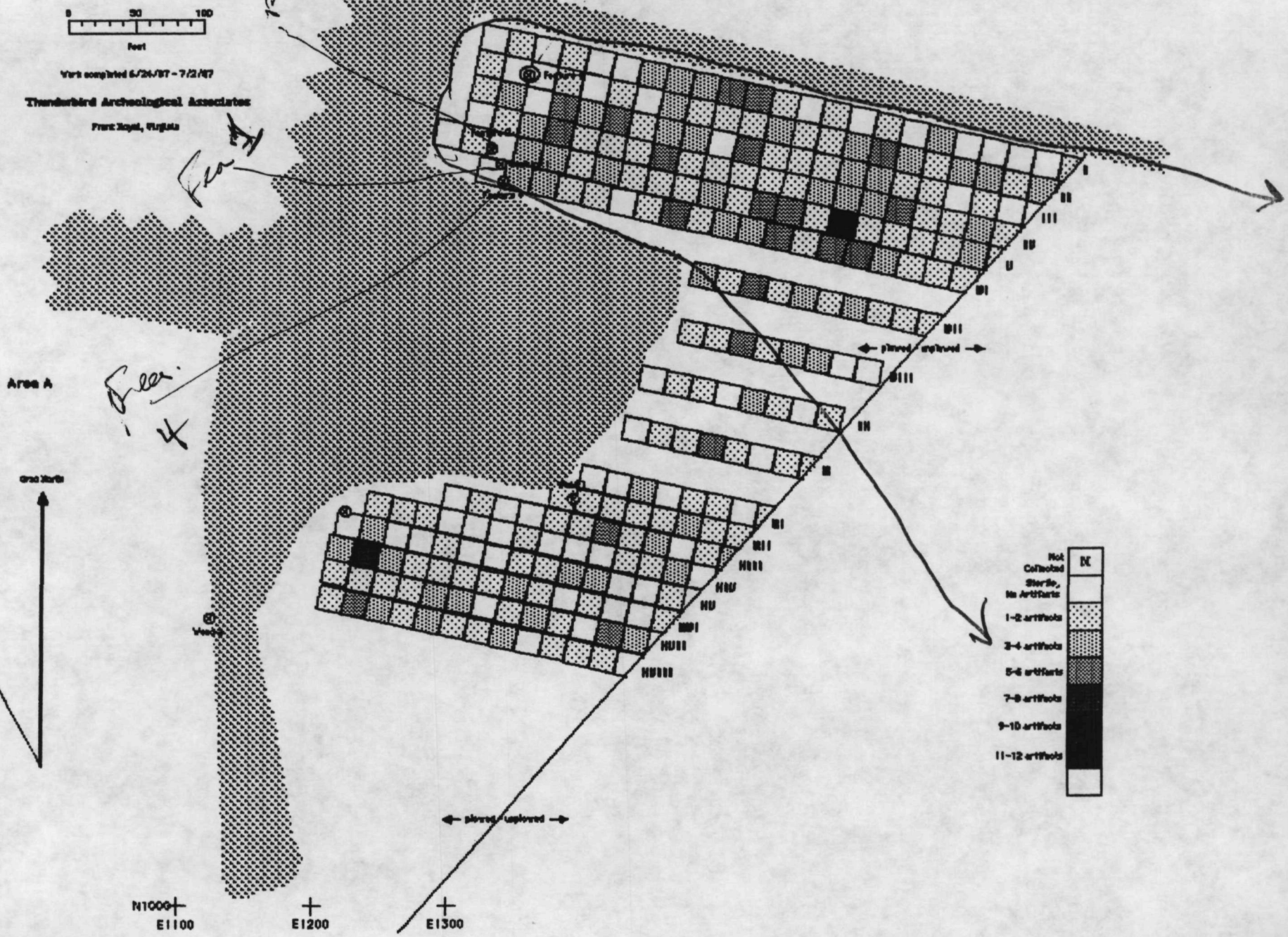
Prehistoric artifacts were scattered throughout the area collected in varying intensity (Figure 6). Several 20' by 20' units contained five or more artifacts, but these were likewise scattered throughout the area, and no real clustering larger than the twenty foot collection units was observed. It should be noted that, if anything, the intensity of surface artifacts is somewhat diminished in the area where the features were located, pointing to the need for caution in assuming a direct correlation between surface artifact (as opposed to shell) indications and this category of feature. It seems possible that the slightly greater intensity of artifacts further to the southeast is associated with the remains of structures or other dwelling features, which would logically have been somewhat removed from the trash pits. If such features were present and their remains preserved below the plowzone in the form of postholes they would be particularly significant since although pit features from the Middle Woodland have been investigated previously, little is known of other aspects of the spatial organization of occupations from this period.

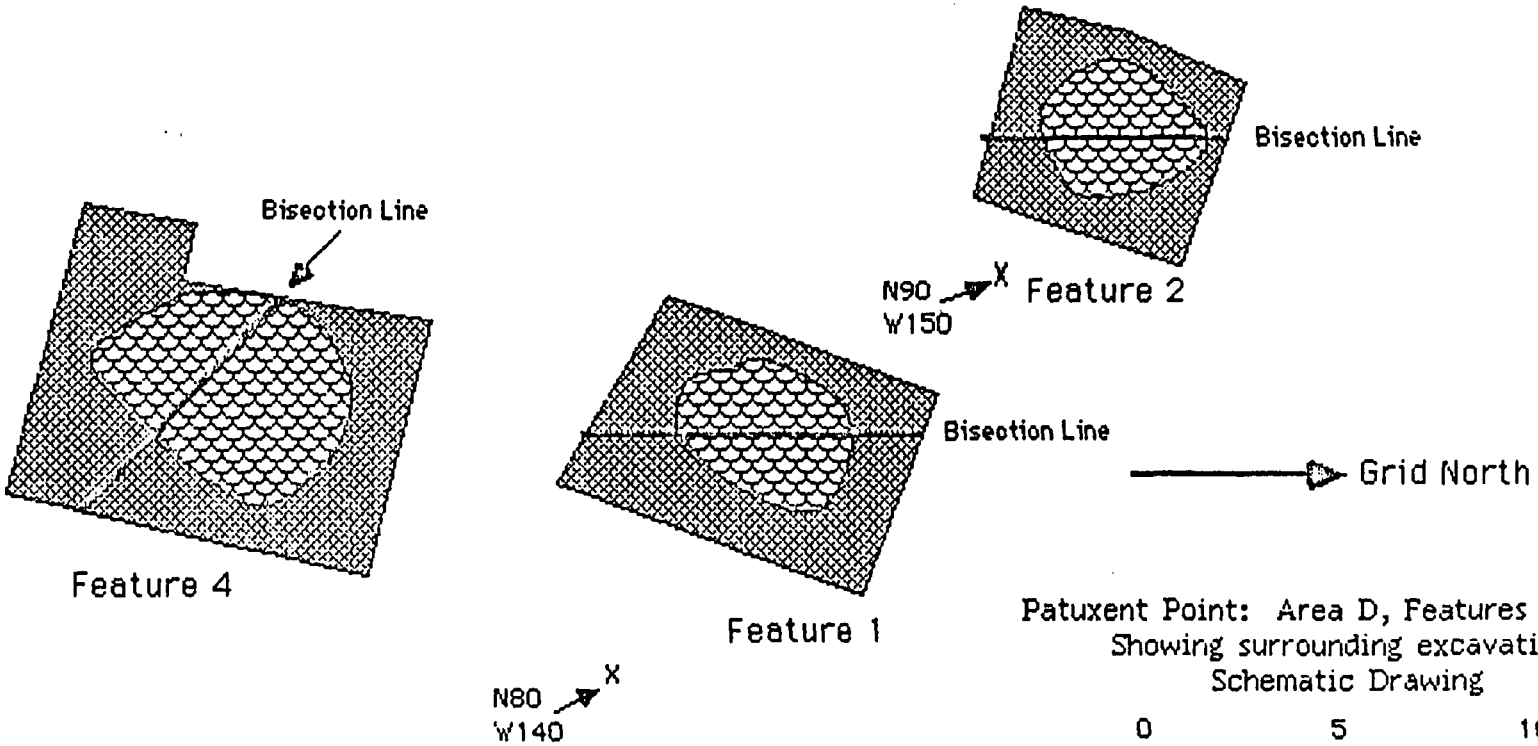
By contrast, materials from the historic period showed rather clear-cut clustering along the west side of the head of the ravine, and particularly to the southwest (Figure 7). Otter had identified some clustering of historic materials on the west side of his survey area, east of the clustering noted here. He suggested that the site represented a late nineteenth or early twentieth century occupation associated with the structure that appears on the U.S.G.S.


PATUXENT RIVER
ST MARYS CO
CALVERT CO
Creek
Bar
Tongue Cove
Coster
Cedar Cove
Hungerford Creek
Nextown
Dowell
N
MARYLAND
U S NAVAL RESERVATION
Third Cove
Second Cove
BM 16
BM 22
Gyro
Pt Patience
Lgt
Jehnstown
Tell
Town Point
Creek
Sandy Pt

1 mile

Patuxent Point: Area D, Flow Strips
Prehistoric artifact density by
20' by 20' collection unit.
Schematic Drawing





Patuxent Point: Area D, Features 1, 2, & 4
Showing surrounding excavations
Schematic Drawing

0 5 10

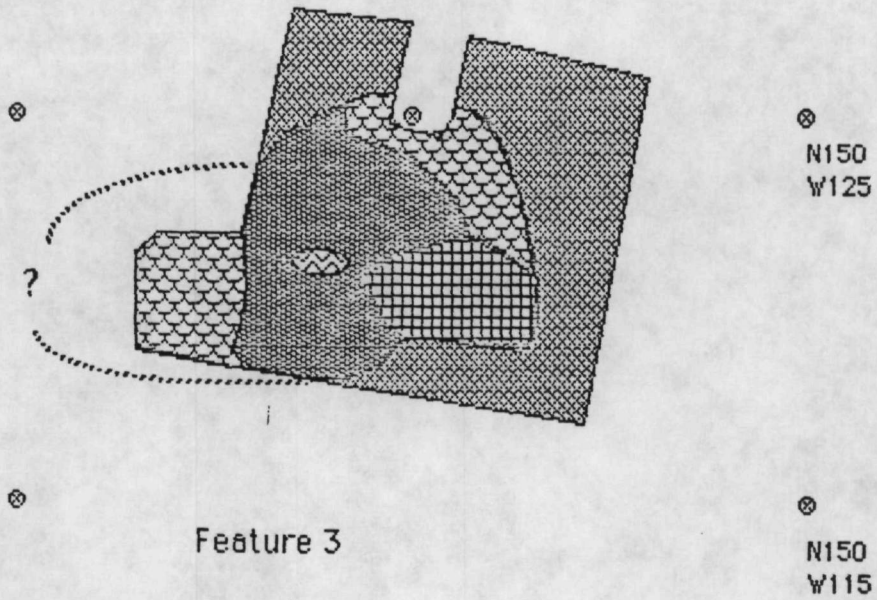
Feet

Work completed 6/24/87 - 7/2/87

Thunderbird Archeological Associates

Front Royal, Virginia

<Draft>



Feature 3

Subsoil

Area of pit fill excavated 6/25/87

Area of concentrated shell

Area of concentrated potsherds

Mottled soil, pit fill matrix

Map shows excavation margins and feature segments as seen at the bottom of the plow zone. The entire feature was not exposed, and only the area indicated was excavated.

Grid North

Patuxent Point: Area D, Features 3,
Showing surrounding excavation
Schematic Drawing

0 5 10

Feet

Work completed 6/24/87 - 7/2/87

Thunderbird Archeological Associates

Woodstock, Virginia

<Draft>

Patuxtent Point

FEA. [redacted] #	oysters	Spats ~~#clams~~	Salinity Regime I	II	III	IV	Season F	LF/EW	W	LW/ESp	Sp	Sm	?	Average Age ~~[illegible]~~	SAND	BED	A.S.	Ribbed	
1	210 L		66	15	52		24	12	6		4	4		4 yr	110	23	97	92	#
	80 R		50%	11%	39%		48%	24%	12%		8%	8%			83%	17%	73%	69%	%
								84%											
2	1564 L	43	63	33	54		7	24	3		5	13		4 yr.	82	65	82	101	#
	12~~38~~ 40 R		42%	22%	36%		13%	46%	6%		10%	25%			56%	44%	55%	67%	%
								65%											
3	1091 L	52	52	38	69		14	10	11		9	6		4.2 yr	133	45	100	108	#
	832 R		33%	24%	43%		23	20	22		18	12			84	28	63	65	%
								70%											
4	1284 L	267	60	28	66		17	9	11		4	9		4.1 yr	115	39	82	117	#
	829 R		28	18	43		34	18	22		8	18			75	25	53	76	%
								74%											

8

FEA. ~~Level~~ #	oysters	L spats ~~#clams~~	Salinity Regime I	II	III	IV	Season F	LF/EW	W	LW/ESp	Sp	Sm	?	Age ~~opening~~	Sand	Bed	AS	R
1	210 L 80 R		66 / 50%	15 / 11%	52 / 39%		24 / 48%	12 / 24%	6 / 12		4 / 8%	4 / 8%		4 yr	110 / 93%	23 / 17%	97 / 73%	92 / 69%
								84%										
2	1564 L 1238 R	43	63 42%	33 22%	54 36%		7 13%	24 46%	3 6%		5 10%	13 25%		4 yr	82 56%	65 44%	82 55%	101 67%
								65%										
3	1097 L 827 R	52	52 33%	38 24%	69 43%		14 28	10 20	11 22		9 18	6 12		4.2 yr	133 84	45 28	100 63%	103 65%
								70%										
4	1284 L 829 R	267	60 / 28%	28 / 18%	66 / 43%		17 / 34%	9 / 18%	11 / 22%		4 / 8%	9 / 18%		4.1 yr	115 75%	39 25%	82 / 53%	117 / 76%
								74%										

FEA. [redacted] #	oysters	spats # [redacted]	Salinity Regime I	II	III	IV	Season F	LF/EW	W	LW/ESp	Sp	Sm	?	Average Age [redacted]	Sand	Bed	A.S.	Ribbed	
1	210L		66	15	52		24	12	6		4	4		4 yr	110	23	97	92	
	80R		50	11	39		48	24	12		8	8			83	17	73	69	%
								84%											
2	1564L	43	63	33	54		7	24	3		5	13		4 yr	82	65	82	101	
	1240R		42	22	36		13	46	6		10	25			56	44	55	67	%
								65%											
3	1091L	52	52	38	69		14	10	11		9	6		4.2 yr	133	45	100	103	
	832R		33	24	43		28	20	22		8	12			84	28	63	65	%
								70%											
4	1284L	267	60	28	66		17	9	11		4	9		4.1 yr	115	39	82	117	
	829R		28	18	43		34	18	22		8	18			75	25	53	76	%
								74%											

Fea 4 H_2O screen

S - sand
B = Bed
Ch channel
R reef

SR slight rib
R rib
AS attachment scar

Record #	ID#	Age	Since Winter	~~Lat 3~~	H	L	S	R	Type	AS	
		3		Sp			1		S	AS	SR
		?		SM			3		B		
		3+		F			3		S		R
		3		F			2		S	✓	
		6		W			1		B	✓	
		4		F			2		S		R
		4		F			2		B		R
		3		F			1		S	✓	R
		4		LF			1		S		R
		3		Sm			3		B		R
		5		LF			1		S		SR
		4		F			1		B		R
		5		F			1		B	AS	
		5		LF			2		B		SR
		6		LF			2		S		R
		5		LF			2		B	AS	SR
		4		SP			1		B	AS	
		+3		SM			2		B	AS	
		?		?			1		S		R
		6		F			2		S		
		5		SM			2		S		R
		3		LF			1		S	AS	
		?		?			3		B		R
		3+		F			1		S	AS	R
		3		LF			1		B		
		4+		W			3		B	~~AS~~	R

Fed 4

Record #	ID#	Age	Since Winter ~~Lot 3~~		H	L	S	R	Type	A	S	R.bb
		5		sm			1		S			✓
		3		W			2		S	✓		✓
		4		W			3		B	✓		✓
		3+		W			3		B	✓		✓
		4+		SM			3		B	✓		✓
		4		sm			2		S			✓
		3		SP			1		S	✓		✓
		3		sm			3		S	✓		✓
		3		sm			1		B	✓		✓
		4		LF EW			3		B			✓
		3		W			1		B			✓
		5+		F			3		B	✓		
		8		LF EW			1		B			
		4+		F			3		S			
		3+		F			2		S			
		3		F			3		S	✓		✓
		5		W			3		B			✓
		8		F			1		B			✓
		3+		F			3		S			✓
		4		F			1		S			✓
		4		W			1		S	✓		
		4		SP			3		S	✓		✓
		4		F			1		S	✓		
		3+		W			3		S			✓
		5		W			1		B	✓		✓
		5		W			1		S	✓		✓

Pea 4

Record #	ID#	Age	Since Winter	Lst 3	H	L	S	R	Type	AS	Ribb
							1	B			✓
							2	S			✓
							3	S			✓
							3	S			
							1	R	✓		✓
							3	S	✓		✓
							1	B			✓
							1	S	✓		✓
							1	S	AS		✓
							1	S			✓
							1	S	✓		
							1	S			✓
							3	B			✓
							2	S			✓
							2	S			✓
							1	S			
							2	B	✓		✓
							1	S			✓
							3	S			✓
							1	S	✓		✓
							1	S	✓		✓
							2	S	✓		✓
							2	S	✓		✓
							3	S	✓		✓
							1	S	✓		✓
							3	S	✓		✓

FEA. 4

Level #	oysters	#clams	Salinity Regime I	II	III	IV	Season F	LF/EW	W	LW/ESp	Sp	Sm	?	opening			
					1										S	✓	
			1												S	✓	
					1										S	✓	✓
			1												S	✓	✓
					1										B	✓	
			1												S	✓	✓
				1											S	✓	
					1										S	✓	✓
					1										S		✓
			1												S	✓	
					1										S	✓	
				1											S	✓	✓
					1										S	✓	✓
					1										R		
					1										S		✓
					1										S	✓	
					1										S	✓	✓
					1										S	✓	✓
					1										S		✓
					1										S	✓	✓

FEA. 4

20

Level #	oysters	#clams	Salinity Regime I	II	III	IV	Season F	LF/EW	W	LW/ESp	Sp	Sm	?	opening			
			1												S	✓	✓
			1												S	✓	✓
					1										S	✓	✓
					1										S	✓	✓
			1												S		✓
					1										B	✓	
			1												S	✓	✓
					1										S		✓
					1										B		✓
					1										B	✓	✓
			1												S		✓
					1										B S	✓	✓
			1												B S	✓	✓
					1										S	✓	✓
					1										S		
					1										S	✓	✓
					1										S		
					1										S		
					1										S		✓
					1										S	✓	✓

10

FEA. 4

Level #	oysters	#clams	Salinity Regime I	II	III	IV	Season F	LF/EW	W	LW/ESp	Sp	Sm	?	opening			
					1										S		
			1												S	✓	✓
			1												S	✓	
			1												S	✓	✓
			1												S		✓
					1										S		✓
					1										S		
					1										S	✓	✓
					1										S	✓	✓
			1												S	✓	✓

FEA. 1

Level #	oysters	#clams	Salinity Regime I	II	III	IV	Season F	LF/EW	W	LW/ESp	Sp	Sm	?	opening			
3				1			1								S	AS	R
4					1				1						S	AS	R
3			1												S	Barn AS	R
5+					1			1							M		
4					1			1							S	Barn AS	R
4			1				1								S	AS	R
4+				1					1						S	AS	R
5			1				1								M	AS	
5				1				1							S		R
4			1								1				S	AS	R
6			1					1							S	AS	R
5			1					1							S		R
3			1				1								S	AS	R
3			1												S	AS	R
4			1				1								S	AS	R
			1												S	AS	R
4					1		1								S		R
5					1			1							S		
5					1							1			S		
3			1								1				S	AS	
			26	13	6						5	5					

FEA. 1 Level #	oysters	#clams	Salinity Regime I	II	III	IV	Season F	LF/EW	W	LW/ESp	Sp	Sm	?	opening			
4			1				1								S	AS	R
5			1				1								S	AS	R
4			1									1			S	AS	1
3					1		1								S	1	R
3				1				1							S	AS	R
4					1		1								M		R
4			1				1								S		R
3			1				1								S	Barn AS	
4					1			1							M	AS	
30 3+					1				1						S		R
5			1				1								S	AS	
5					1		1								S	AS	R
3			1								1				S	Barn AS	R
1					1										S	AS	
4					1		1								M	AS	R
3+					1		1								S		
			1												S	AS	R
4					1						1				S	AS	R
4			1				1								S	AS	R

FEA. 2

Level #	oysters	#clams	Salinity Regime I	II	III	IV	Season F	LF/EW	W	LW/ESp	Sp	Sm	?	opening				
					1										B	AS		
				1											B	AS		
				1											B		Boring Clam	R
					1										B			
			1												B	AS		R
				1											B			
			1												B			R
			1												B			R
			1												B	AS		R
			1												B			
					1										S	AS		
				1											S			R
				1											S	AS		R
					1										S			R
				1											B			R
					1										B			
				1											~~B~~S	AS		R
			1												B	AS		R
			1												S	AS		R

FEA. 1

Level #	oysters	#clams	Salinity Regime I	II	III	IV	Season F	LF/EW	W	LW/ESp	Sp	Sm	?	opening			
2+					1				1						S	AS	R
4			1						1						S	AS	
6			1									1			S	AS	R
4			1				1								S	AS	R
4					1						1				S	AS	
4					1			1							B	AS	R
?			1												B	AS	R
+2					1		1								S	AS	R
+3			1									1			S		R
5					1			1							S		R
3			1				1								S		R
6			1				1								S	AS Barn	R
+4					1		1								S		R
6			1				1								S	AS	R
1 4+					1			1							S	AS	R
3+					1			1							S	AS	R
6					1		1								S	AS	R
6			1						1						S	AS	
4			1									1			S	AS	R
2+			1					1							S	AS	R

FEA. 1

Level #	oysters	#clams	Salinity Regime I	II	III	IV	Season F	LF/EW	W	LW/ESp	Sp	Sm	?	opening			
					1										S		R
					1										S		
					1										S		
			1				1								S	AS	R
			1				1								S		R
				1											B	✓	R
					1										B		
					1										B	✓ Barn	R
			1												S	✓	R
					1										S	✓ Barn	✓
					1										S		✓
			1												S	✓	✓
					1										S		✓
					1										S		✓
					1										S		✓
															S	✓	✓
															B	✓	
															S	✓	
															S	✓	✓
															S	✓	✓

1

Record #	ID#	Age	Since Winter	Lst 3	H	L	S	R		
							2	S		
							1	B	✓	✓
							1	S	✓	
							1	S	✓	
							1	S	✓	✓
							1	B	✓	✓
							1	B	✓	
							3	S	✓	✓
							1	S	✓	✓
							3	S		
							1	S		✓
							1	S		✓
							1	B	✓	
							3	S	✓	✓
							3	S	✓	✓
							1	S		
							2	S	✓	✓
							2	B	✓	✓
							2	B	✓	
							2	B	✓	✓
							1	S	✓	✓
							2	S	Barn ✓	
							1	S	✓	✓
							1	S	✓	✓
							1	S	✓	
							1	S	✓	

Record #	ID#	Age	Since Winter	Lst 3	H	L	S	R	Type	AS	R
							3	B			✓
							2	B		✓	
							1	B		✓	
							3	S			✓
							1	S		✓	✓
							2	S		✓	
							3	S			✓
							1	S		✓	✓
							1	S		✓	
							1	S		✓	
							1	S			✓
							1	B			
							2	S		✓	✓
							1	S		✓	✓
							1	S		✓	✓
							1	S		✓	✓
							1	S		✓	
							3	S			✓
							1	B			✓
							2	S		✓	✓
							1	S		✓	
							1	S		✓	✓
							1	S		✓	
							1	S		✓	
							1	S		✓	
							1	S		✓	

1

Record #	ID#	Age	Since Winter	Lst 3	H	L	S	R		
							3	5	✓	
							1	5	✓	✓
							I	5	8 barn	
							66	110	97	92
							II	B		
							15	23		
							III			
							52			

#33
81
2

Fea 2 Fill

1

FEA. Level #	oysters	#clams	Salinity Regime I	II	III	IV	Season F	LF/EW	W	LW/ESp	Sp	Sm	?	opening			
				1			1								Z Bed		SR
				1				1							Bed		R
				1				1							Sand		SR
				1				1							Sand		R
	9			1								1			S		R
	3		1									1			S		R
	3		1								1				S	AS	R
	2		1				1								B	AS	ok
	9		1								1				B	AS	SR
	5		1									1				AS	R
	4			1			1								B	AS spot	
	4				1			1							B	AS	
	3				1			1							B		SR
	5		1									1			B	AS	
	3		1									1			B	AS	
	5				1						1				B	AS	SR
	2				1							1			S	AS	SR
	3				1							1			S		SR
	3		1					1							S	AS	
	7		1					1							B	1	SR

Feu 2 fa

FEA. Level #	oysters	#clams	Salinity Regime I	II	III	IV	Season F	LF/EW	W	LW/ESp	Sp	Sm	?	opening			
	5		1									1			B		As
			1									1			S		R
	3		1					1							S		R
	4			1				1							B		R
	?				1						1				B		R
	5		1					1							B	As	
	5		1					1							S	As	R
	5		1					1							S		R
	3+				1			1							B	As	SR
	3		1					1							S	As	R
	4		1									1			S	As	
	3			1			1								S	As	
	5				1			1							B	As	R
	4		1					1							S	As	R
	5				1			1							B	As	
	5		1					1							B	As	SR
	5			1							1				S	As	R
	4+				1							1			B	loving clam	
	4				1		1								B	As	

fea 2 fil

FEA. Level #	oysters	#clams	Salinity Regime I	II	III	IV	Season F	LF/EW	W	LW/ESp	Sp	Sm	?	opening			
	3		1					1							S	AS	
	3		1				1								S		R
	4				1		1								S	AS	R
	3				1							1			S		R
	3				1			1							S		R
	4				1			1	1						B		R
	4		1						1						S	AS	SR
	4		1					1							B	AS	SR
	5			1								1			B		SR
	3			1				1	3						S	AS	SR
	2+			1					1						S		R
	6				1			1							S		R
	5								1						B	AS	R

FEA. 2

Level #	oysters	#clams	Salinity Regime I	II	III	IV	Season F	LF/EW	W	LW/ESp	Sp	Sm	?	opening			
					1										S	AS	R
			1												S	AS	R
			1												S	stick AS	R
			1												S		R
			1												S		R
					1										S	AS	R
			1												S	AS	R
					1										S	AS	R
			1												S	AS	
				1											S		R
			1												R		
						1									R	AS	R
			1												S	Boring clam AS	R
			1												S	AS	R
				1											B	AS	R
			1												S	AS	R
			1												S		R
			1												S	AS	R
					1											AS	R
					1										S		

FEA. Level #	oysters	#clams	Salinity Regime I	II	III	IV	Season F	LF/EW	W	LW/ESp	Sp	Sm	?	opening			
				1											S	AS	R
				1											B	AS	
				1											B	AS	R
			1												S	AS	R
					1										S	AS	
				1											B		R
				1											B		
			1												S	AS	
			1												S	AS	
			1												S	AS	
			1												B	AS	R
					1										S	AS	
			1												B	AS	R
					1										S	AS	R
					1										S	AS	R
				1											S		
					1										B	AS	
					1										?	AS	
					1										S	AS	R

8 Burned

FEA. Level #	#oysters	#clams	Salinity Regime I	II	III	IV	Season F	LF/EW	W	LW/ESp	Sp	Sm	?	opening			
			1												S		R
				1											B		
				1											B		R
					1										B		R
					1										S		R
			1												S		
				1											B	AS	R
					1										B		
			1												S	Bar	R
				1											B	AS	
					1										B		SR
					1										B	AS	R
			1												S	AS	R
					1										S		R
				1											S		R
					1										B		
					1										B	AS	R
			1												B	AS	
					1										B	AS	
				1											S		R

FEA. 2

Level #	oysters	#clams	Salinity Regime I	II	III	IV	Season F	LF/EW	W	LW/ESp	Sp	Sm	?	opening			
					1										B		R
			1												S	AS	R
					1										S	AS	R
			1												S	AS	
			1												S	AS	
			1												S		
					1										B	AS	
			1												S		R
					1										S		R
					1										S		R
				1											B		R
					1										S		
			1												S		
			1												S	AS	R
			1												B		R
					1										B	Boring clam	
			1												S		R
					1										S	AS	
					1										S	AS	
			1												B		

Record #	ID#	Age	Since Winter	~~Lot 3~~	H	L	S	R	AS	R
		3+		SM			2	B	✓	
		4+		F			3	B	✓	✓
		4		F			3	S	Barn	✓
		4		W			2	S	✓	
		5		W			3	S	✓	✓
		5		SM			2	S	✓	✓
		4		SP			3	S		R
		4		4F EW			3	S		✓
		5		F			3	S	✓	✓
		5		LE EW			2	S		✓
		5		LF EW			3	B		✓
		6		W			2	S	✓	
		6		LF EW			3	B		✓
		5		F			1	S		✓
		3+		F			2	S		✓
		5		SP			3	B	✓	✓
		5		SP			2	S		✓
		4+		F			3	S	✓	✓
		5		LE EW			2	S		✓
		4		F			2	S	✓	
		6		LF EW			3	S		✓
		5+		LE EW			3	S	✓	
		3		SM			3	S		
		3		SM			1	S	✓	✓
		4		SM			3	S	✓	✓

R

AC

rea 3

Record #	ID#	Age	Since Winter	Lst 3	H	L	S	R	As	R
		3+		W			1	S		
		3		SM			2	S		✓
		5		F			3	S		✓
		4		SP			1	S	✓	✓
		3		F			1	S	✓	✓
		4+		W			3	S		✓
		4		F			3	B		
		3		W			3	S	✓	
		5		W			3	B		
		4		LF EW			2	B	✓	✓
		4+		LF EW			3	S	✓	
		4+		W			2	S		✓
		4		F			1	S	✓	✓
		3		F			1	B	✓	
		5		F			1	B	✓	✓
		4		LF EW			2	S	✓	✓
		3		SM			2	B	✓	
		3		SP			1	B	✓	
		5		SP			3	B	✓	
		3+		F			2	?	✓	
		3		W			1	S	✓	✓
		4		W			3	B		✓
		6		SM			1	B		✓
		3		SM			3	S	✓	
		4		W			2	S	✓	✓

Fea 3

Record #	ID#	Age	Since Winter	Lst 3	H	L	S	R	R		As
							3	✓	S		
							2		S		
							3		B		
							3		B		
							2	✓	B		
							3	✓	B		✓
							1		S		✓
							1	✓	S		✓
							1	✓	S		✓
							3	✓	S		✓
							2	✓	S		✓
							1	✓	S		
							3		S		✓
							2		S		✓
							3	✓	S		✓
							1	✓	S		✓
							3		S		
							2		S		
							1		S		
							2	✓	S		
							1	✓	S		✓
							1	✓	S		✓
							1		S		✓
							1	✓	B		✓
							1	✓	S		✓
							3	✓	S		

Feq 3

2

Record #	ID#	Age	Since Winter	Lst 3	H	L	S	R	R		AS
							2	✓	B		
							3		B		
							1	✓	S		
							1	✓	S		
							1		S		
							3		B		✓
							2		B		
							3	✓	S		✓
							1		B		✓
							1	✓	S		
							3	✓	S		
							3	✓	S		
							2	✓	S		
							3	✓	S		
							3	✓	S		
							2	✓	S		
							1		S		✓
							1	✓	S		
							3	✓	S		✓
							3	✓	S		✓
							1	✓	S		✓
							1	✓	S		✓
							1		S		✓
							3		S		
							3		S		✓
							3		S		✓

rea. 3

Record #	ID#	Age	Since Winter	Lst 3	H	L	S	R	R		As
							3	✓		B	✓
							2	✓		S	
							1	✓		S	✓
							2	✓		S	
							3	✓		S	✓
							2			S	✓
							1			S	
							1			S	✓
							3	✓		B	✓
							1			S	✓
							3			S	✓
							3	✓		S	✓
							3	✓		B	
							3			B	✓
							3			B	✓
							1	✓		B	✓
							2	✓		B	✓
							2	✓		S	✓
							1	✓		S	✓
							3	✓		S	✓
							1			B	✓
							3			S	
							3	✓		S	
							3	✓		B	✓
							2	✓		S	
							1	✓		B	

Fea. 5

Record #	ID#	Age	Since Winter	Lst 3	H	L	S	R	R		AS
							3	✓	B		
							1	✓	S		
							1	✓	B		✓
							3	✓	B		✓
							3	✓	S		
							3		S		✓
							2	✓	S		✓
							1	✓	S		✓
							1		B		✓
							3		B		
							3		S		✓
							2		S		
							3	✓	S		✓
							1		S		✓
							2	✓	S		✓
							1	✓	S		✓
							2		S		✓
							3	✓	B		
							3		S		✓
							1	✓	S		✓
							3	✓	B		
							3	✓	B		✓
							1	✓	B		✓
							2	✓	S		✓
							2	✓	B		✓
							1	✓	S		✓

Record #	ID#	Age	Since Winter	Lst 3	H	L	S	R	R		As
							3			S	✓
							1		✓	S	✓
							3			S	✓
							1		✓	S	
							1		✓	S	✓
									103		100

Site 1800271 Summary
Unit

		Rags 0	Rags 1	Rags 2		Cust Att. 0	Cust Att. 1	Cust Att. 2	Cust Att. 3		Bar n		Mus n		S Bor. Sparse 0	S Bor. Sparse 1	S Bor. Sparse 2	S Bor. Sparse 3		L. Bor. Sparse 0	L. Bor. Sparse 1	L. Bor. Sparse 2	L. Bor. Sparse 3		Mud n		Drill n		Burn n		Edge Damage D	A	AV	V	VP	P	No Pan	Shape S	C	J	K
19	14E	n=240			R	x̄	1.36			S	0.19				A x̄ 1.64				A	x̄=1964.98				S	894.00																	
16	%	25	56	18		14	75	9	1		3		0		71	18	8	1		85	6	6	2		87	2	2		9		2	5	36	26	27	13	20	70	39	3	2
16	10A	n=153			R	x̄	1.58			S	0.24								A	x̄=3036.06				S	1634.09																	
	%	37	54	9		1	58	32	3		3	.	0		24	28	24	26		52	18	20	9		88		1	5	0		1	6	18	15	24	12	33	39	37	1	3
17	10W	n=150			R	x̄	1.53			S	0.26								A	x̄ 2944.67				S	1322.14																	
	%	55	39	6		15	53	28	4		3		0		23	32	28	16		72	13	8	7		85		4	2	1		0	5	22	20	17	9	39	39	33	0	5
16	10M	n=136			R	x̄	1.48			S	0.24								A	x̄ 1980.18				S	1299.76																	
	%	63	33	4		13	79	7	1		2		0		68	16	10	6		78	9	13	0		82		3		8		0	10	32	25	26	10	21	57	44	4	1
17	13E	n=47			R	x̄	1.37			S	0.18								A	x̄=1516.21				S	624.25																	
	%	32	47	21		6	68	25	0		6		0		72	17	6	4		85	12	2	0		74		0	6	10		4	10	38	21	17	4	30	38	47	6	4
22	101	F	n=	26	R=	x̄	1.28			S=	0.18								A	x̄ 960.85				S	542.05																	
	%	23	50	27		23	69	8	0		4		0		88	4	4	4		92	4	4	0		77		0		12		4	8	23	27	27	12	27	54	42	12	
21	14	E	n=	90	R=	x̄	1.36			S=	0.26								A	x̄=1396.14				S=	824.50																	
	%	44	47	9		4	82	12	1		1		0		37	26	11	9		83	7	8	2		84		3		29		0	11	14	18	17	17	39	33	40	0	4
22	15	E	n=	167	R=	x̄	1.50			S=	0.24								A	x̄=1669.69				S=	925.37																	
		62	29	8		14	78	7	1		1		0		50	16	16	19		72	12	14	2		75		14		2		1	7	13	12	10	5	60	22	20	4	1
21	04L	n=109			R	x̄	1.40			S=	0.20								A	x̄=2202.44				S=	1350.00																	
	%	35	50	16		8	84	6	1		1		0		48	21	17	13		57	18	17	7		64		5	1	1		0	5	15	11	26	10	46	36	31	0	0
26	08	J	n=	84	R	x̄	1.40			S	0.20								A	x̄=1778.19				S=	953.13																	
	%	46	39	14		2	81	17	3		3		0		24	28	24	26		52	18	20	9		73		2		1		1	7	17	15	11	14	35	23	33	1	10
26	08	E	n=	66	R	x̄	1.44			S=	0.21								A	x̄=2543.535				S=	1073.67																	
	%	35	52	14		3	76	21	0		5		1		27	18	27	27		73	12	12	3		71		9		2		0	3	20	11	5	14	56	18	32	0	3

Site 18CU271
Unit 1610K

		Rads			Dust Att.				Bar	Mus	S Bor Sponge				L. Bor Sponge				Mud	Drill Ect		Burn	Edge Damage						No Shave				
		0	1	2	0	1	2	3	n	n	0	1	2	3	0	1	2	3	n	n		n	0	A	AU	U	UP	P	Dan	S	C	J	K
1	21	10	9	2	1	2	6	2	1	0	5	6	5	5	11	1	5	3	19	0	0	0	0	0	3	4	5	5	7	7	11	0	0
22	42	8	10	3	0	12	9	0	1	0	4	3	7	7	6	7	5	3	14	2	0	0	0	1	6	0	3	1	10	5	7	0	0
43	63	9	12	0	0	15	6	0	1	0	7	5	4	5	11	5	3	2	20	0	1	0	0	2	5	4	4	2	5	10	7	0	0
64	84	4	13	4	0	18	2	1	1	0	4	4	4	9	9	3	8	1	17	0	1	0	1	2	2	1	7	4	8	6	9	0	3
85	105	11	10	0	0	14	6	1	1	0	8	7	4	2	14	3	2	2	18	0	1	0	0	1	3	8	9	0	3	12	8	1	1
106	126	6	15	0	0	15	6	0	0	0	7	8	2	4	14	5	2	2	21	0	3	0	0	0	5	3	4	3	7	10	5	0	0
127	147	7	10	4	0	10	11	0	0	0	0	7	6	6	11	3	7	0	19	0	1	0	0	3	2	2	3	4	8	9	6	0	0
147	153	2	3	1	0	3	3	0	0	0	2	3	2	0	4	0	1	1	6	0	1	0	0	0	2	1	1	0	2	1	3	0	0
	n	57	82	14	1	89	49	4	5	0	37	43	36	40	80	27	31	14	134	2	8	0	1	9	28	23	36	19	50	60	56	1	4
	%	37	54	9	1	58	32	3	3	0	24	28	24	26	52	18	20	9	88	1	5	0	1	6	18	15	24	12	33	39	37	1	3

	Ratio		Area		
	Σx	Σx^2	Σy	Σy^2	Σxy
1-21	33.6	54.64	65223	279575133	105065.0
22-42	32.0	49.46	50413	150617607	76699.6
43-63	32.3	51.05	56151	198591189	90308.7
64-84	33.9	55.65	69543	260703605	113068.3
85-105	33.1	53.81	55937	220234559	87417.2
106-126	33.2	53.64	75472	318408662	123151.3
127-147	34.4	57.52	75910	326713490.	125849.1
148-153	9.2	14.96	15868	61334888	24779.6
	241.7	390.73	464517	1816179133	746338.8

$\bar{x} = 1.58$

$s = 0.24$

$\bar{y} = 3036.06$

$s = 1634.09$

$r = .2083$

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 1610K

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
1	123	68	1.8	4182	1	0			1	1	+				
2	115	84	1.3	4830	1	1	+		2	2					AV(c)
3	181	94	1.9	8507	0	1			1	0	+				P(s)
4	126	83	1.5	5229	1	1			1	0	+				V(c)
5	63	42	1.5	1323	0	2			0	0	+				V(s), VP(c)
6	87	52	1.6	2262	1	2			3	3					VP(c)
7	77	51	1.5	1963	2	2			1	0	+				P(c)
8	101	51	1.9	2575	1	1			2	3	+				VP(c), P(s)
9	141	74	1.9	5217	1	3			0	0	+				VP(c)
10	110	58	1.8	3190	1	1			2	2	+				
11	118	81	1.4	4779	1	1			3	2	+				
12	*71	37	1.9	1313	0	2			2	2	+				AV(c)
13	*58	33	1.7	957	0	3			0	0	+				VP(s)
14	101	68	1.4	3434	0	1			3	3	+				
15	46	32	1.4	736	0	1			1	2	+				
16	109	72	1.5	3929	1	1			3	2					P(c)
17	109	83	1.3	4523	0	2			1	0	+				
18	76	52	1.4	1558	2	2			2	0	+				P(c)
19	67	41	1.6	1373	0	1			3	0	+				AV(s), V(s)
20	*83	52	1.5	2158	0	1			0	0	+				V(s), P(c)
21	66	35	1.8	1155	0	1			0	0	+				

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 1610K

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
22	69	*39	1.7	1345	0	1			0	0	+				A(c)
23	97	*58	1.6	2813	1	1			3	2	+				AV(s)
24	92	58	1.5	2668	1	1			3	3	+				
25	77	53	1.4	2040	0	1			0	0	+				AV(s)
26	100	68	1.4	3400	0	2			3	3	+				AV(s)
27	107	72	1.4	3852	1	2			2	0	+				
28	51	40	1.2	1020	0	1			0	0	+				
29	59	38	1.5	1121	1	2			3	1	+				
30	120	66	1.8	3960	2	2			1	0	+				
31	115	63	1.8	3622	0	1			2	2	+	+			P(c)
32	103	68	1.5	3502	2	2			2	2					
33	114	80	1.4	4560	1	2			2	1	+				AV(c)
34	87	65	1.3	2827	1	2			2	2					P(c)
35	77	40	1.9	1540	1	2			1	1		+			VP(c)
36	66	44	1.5	1452	1	1			3	1					
37	*64	42	1.5	1344	0	1			0	0	+				
38	54	34	1.5	918	1	1			2	3					AV(s), VP(s)
39	57	42	1.3	1197	2	2			2	1					AV(c)
40	70	37	1.8	1295	0	1			1	1					
41	74	46	1.6	1702	0	1	+		3	1					VP(c)
42	110	77	1.4	4235	1	1			3	2	+				

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 1610K

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
43	*61	38	1.6	1159	1	1			1	1	+				AV(S)
44	*64	46	1.3	1472	0	1			0	0	+				V(S)
45	71	40	1.7	1420	1	1			2	0	+				
46	52	48	1.0	1248	1	1			0	0	+				VP(S)
47	66	49	1.3	1617	0	1			3	1	+				
48	41	26	1.5	533	0	2			1	2					P(c)
49	51	45	1.1	1147	0	2			0	0	+				DP(c)
50	43	27	1.5	580	0	1			0	0	+				
51	*53	33	1.6	874	0	1			0	0	+				AV(c), V(S)
52	98	70	1.4	3430	1	2			0	0	+		+		AV(S)
53	121	78	1.5	4719	1	1			2	3	+				AV(S)
54	116	64	1.8	3712	1	1			3	3	+				VP(c)
55	84	55	1.5	2310	1	1			2	1	+				A(c)
56	107	71	1.5	3798	1	1			0	0	+				V(S)
57	105	71	1.4	3727	1	2			3	1	+				AV(S)
58	117	67	1.7	3919	0	1	+		3	2	+				VP(S)
59	129	58	2.2	3741	1	2			2	1	+				V(c)
60	115	64	1.7	3680	1	1			1	0	+				
61	102	61	1.6	3111	1	1			3	2	+				
62	153	80	1.9	6120	0	2			1	0	+				VP(S)
63	108	71	1.5	3834	0	1			1	0	+				A(c)

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 1610K

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
64	111	67	1.6	3718	2	1			1	0	+				VP(c)
65	*119	*70	1.7	4165	1	1			3	0	+				VP(s)
66	89	*46	1.9	2047	0	1			3	1					P(s)
67	111	78	1.4	4329	1	1			2	2	+				
68	84	54	1.5	2268	0	1			3	2	+				
69	*104	*79	1.3	4108	1	1			2	1	+				A(s), D(s), VP(c)
70	105	53	1.9	2782	2	1			0	0	+				
71	100	66	1.5	3300	1	2			3	2	+				
72	80	54	1.4	2160	1	2			0	0	+				V(K)
73	105	66	1.5	3465	0	1			3	3	+				
74	114	74	1.5	4218	1	1			1	1	+				AV(c)
75	110	69	1.5	3795	2	3			1	0	+				P(c), VP(c), DP(K)
76	*150	74	2.0	5550	1	1			0	0	+		+		VP(s)
77	136	78	1.7	5304	1	1			2	2					P(K),
78	143	69	2.0	4933	1	1			3	2	+				AV(s), VP(c)
79	56	29	1.9	812	0	1			0	0	+				
80	103	58	1.7	2987	1	1			1	0	+				VP(c)
81	79	53	1.4	2093	2	1	+		0	0	+				
82	91	55	1.6	2502	1	1			3	2					A(c)
83	101	64	1.5	3232	1	1			2	0	+				P(c)
84	71	50	1.4	1775	1	1			3	2					

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 1610K

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
85	88	*52	1.6	2288	1	1			2	1	+				VP(s)
86	98	66	1.4	3234	1	2			0	0	+				VP(c)
87	58	41	1.4	1189	0	1			0	0	+				VP(K)
88	82	49	1.6	2009	0	2			1	0	+				
89	*76	*45	1.6	1710	0	3	+		0	0			+		V(c)
90	75	50	1.5	1875	0	2			0	0	+				VP(s), AV(s)
91	*78	*51	1.5	1989	0	1			1	0	+				V(s)
92	93	65	1.4	3022	1	1			2	3	+				V(c)
93	67	46	1.4	1541	0	1			3	2					VP(s)
94	57	25	2.2	712	0	2			2	2					A(s)
95	*65	*46	1.4	1495	0	1			2	0	+				AV(s), V(s)
96	62	32	1.9	992	0	2			0	0	+				
97	*51	23	2.2	561	0	1			0	0	+				V(s)
98	*53	*44	1.2	1166	0	1			1	0	+				V(s), VP(s)
99	*45	39	1.1	877	1	1			0	0	+				V(v)
100	127	74	1.7	4699	1	1			1	1	+				VP(s)
101	150	94	1.5	7050	1	2			1	0	+				V(c)
102	141	*69	2.0	4864	1	1			1	1	+				
103	110	69	1.5	3795	1	1			1	0	+				P(c)
104	142	91	1.5	6461	1	1			0	0	+				VP(c)
105	116	76	1.5	4408	1	1			3	3	+				AV(c), VP(c)

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 1610K

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
106	129	87	1.4	5611	1	1			1	0	+				
107	114	65	1.7	3705	1	1			1	0	+		+		AV(c)
108	142	80	1.7	5680	1	1			2	1	+				VP(s)
109	80	62	1.2	2480	0	1			3	3	+				
110	*92	*57	1.6	2622	0	1			0	0	+				AV(s)
111	131	81	1.6	5305	1	1			0	0	+		+		VP(s)
112	154	85	1.8	6545	1	2			0	1	+				
113	*129	*64	2.0	4128	1	1			1	0	+				P(s)
114	143	82	1.7	5862	1	1			0	0	+				V(c)
115	113	65	1.7	3672	1	1			1	1	+				P(c), V(s)
116	115	69	1.6	3967	1	2			1	0	+				AV(s)
117	*105	54	1.9	2835	0	1			3	2	+				VP(s)
118	*102	71	1.4	3621	1	1			0	0	+				VP(s)
119	76	55	1.3	2090	1	2			1	0	+				P(c)
120	64	43	1.4	1376	1	1			1	0					
121	81	49	1.6	1984	1	2			3	2	+				V(s)
122	134	65	2.0	4355	0	1			2	1	+				
123	81	*57	1.4	2308	1	2			1	1	+				AV(s)
124	*77	56	1.3	2156	0	1			0	0	+				
125	61	47	1.2	1433	1	2			0	0	+		+		
126	115	65	1.7	3737	0	1			3	3	+				AV(c)

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 1610K

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
127	183	87	2.1	7960	2	1			1	0	+				
128	*78	*57	1.3	2223	0	2			1	0	+				V(c), VP(s)
129	116	60	1.9	3480	1	2			3	1	+				P(c)
130	108	59	1.8	3186	1	2			2	0	+				P(c)
131	93	69	1.3	3208	1	1			1	0					AV(s)
132	80	53	1.5	2120	0	1			0	0	+				
133	141	92	1.5	6486	2	1			2	1	+				V(s), VP(s)
134	80	55	1.4	2200	0	2			0	0	+				
135	150	80	1.8	6000	1	2			1	0	+				
136	*67	30	2.2	1005	1	2			1	0	+				P(c)
137	101	58	1.7	2929	0	1			3	2	+				
138	128	72	1.7	4608	1	1			3	2	+				
139	102	76	1.4	3570	1	1			3	2	+				
140	*104	64	1.6	3328	1	1			2	1	+				P(c)
141	107	66	1.6	3531	0	2			2	2	+		+		A(s)
142	*75	43	1.7	1612	0	1			3	2	+				VP(s)
143	115	62	1.8	3565	1	1			3	2	+				AV(s)
144	120	67	1.7	4020	1	2			1	0	+				A(s)
145	111	73	1.5	4051	2	2			2	0	+				
146	104	*71	1.4	3692	2	2			2	2	+				A(c)
147	*98	64	1.5	3136	0	2			1	0	+				V(s)

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 1610K

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
148	83	50	1.6	2075	1	2			2	3	+		+		
149	61	51	1.1	1555	1	1			1	0	+				
150	56	47	1.1	1316	0	2			0	0	+				V(s)
151	98	43	2.2	2107	1	2			1	0	+				VP(c)
152	145	91	1.5	6597	0	1			1	2	+				AV(c)
153	87	51	1.7	2218	2	1			0	0	+				AV(c)

Site 18CU271
Unit 1610 Strata Below Shell Layer

	Rags 0	Rags 1	Rags 2	Ast Att. 0	Ast Att. 1	Ast Att. 2	Ast Att. 3	Bar n	Mus n	S Bor. Sponge 0	S Bor. Sponge 1	S Bor. Sponge 2	S Bor. Sponge 3	L. Bor. Sponge 0	L. Bor. Sponge 1	L. Bor. Sponge 2	L. Bor. Sponge 3	Mud n	Drill n	Echinoderms	Burn n	Edge Damage D	Edge Damage A	Edge Damage AV	Edge Damage V	Edge Damage VP	Edge Damage P	no Dam	Shape S	Shape C	Shape J	Shape K
M=	38	24	12	2	5	30	3	0	2	0	29	5	4	0	28	3	7	0	27	2		0	0	2	16	9	12	2	7	29	14	2	2
%		63	32	5	13	79	8	0	5	0	76	13	11	0	74	8	18	0	71	5		0	0	5	42	24	32	5	18	76	37	5	5
Σx		= 53.9			Σx² = 77.85			Σy	67517		Σy²	176542461			Σxy	98083.2																
x̄		1.42			sx	0.19		ȳ	1776.76		sy	1236.61			r	= 2605																
N=	28	14	9	0	2	23	2	1	0	0	21	3	3	1	24	2	2	0	25	1		0	0	5	11	4	6	4	7	17	12	0	0
%		68	32	0	7	82	7	4	0	0	75	11	11	4	86	7	7	0	89	4		0	0	18	39	14	21	14	25	61	42	0	0
Σx		= 41.4			Σx² 62.10			Σy	58157		Σy²	167324333			Σxy	86153.7																
x̄		=1.48			sx	0.18		ȳ	=2077.03		sy	1312.76			r	=.0256																
P=	33	17	13	3	6	25	2	0	1	0	21	5	3	4	28	2	3	0	27	0	1	0	0	2	11	17	10	0	5	17	15	2	0
%		52	39	9	18	76	6	0	3	0	64	15	9	12	85	6	9	0	82	0	3	0	0	6	33	39	30	0	15	52	45	6	0
Σx		= 47.9			Σx² 70.77			Σy	63846.0		Σy²	177083866			Σxy	=92786.5																
x̄		=1.45			sx	0.20		ȳ	=1934.73		sy	=1293.73			r	=.0139																
X=	37	25	11	1	4	29	3	1	0	0	27	9	3	3	26	5	6	0	32	1	0	11	0	4	6	10	7	7	9	15	19	2	0
%		68	30	3	11	78	8	3	0	0	59	24	8	8	70	14	16	0	86	3	0	30	0	11	16	27	19	19	24	41	51	5	0
Σx		= 58.5			Σx² 96.29			Σy	=79785		Σy²	240388309			Σxy	121498.1																
x̄		1.58			sx	0.32		ȳ	= 2156.35		sy	=1377.84			r	= -2886																
Tot	136	85	45	6	17	107	10	2	3	0	93	22	13	8	106	12	18	0	111	4	1	11	0	13	44	34	35	13	28	78	60	6	2
%		63	33	4	13	79	7	1	2	0	68	16	10	6	78	9	13	0	82	3	1	8	0	10	32	25	26	10	21	57	44	4	1
Σx		= 201.7			Σx² = 307.01			Σy	= 269305		Σy²	761338969			Σxy	=39852.1.5																
x̄		1.48			sx	0.24		ȳ	= 1980.18		sy	=1299.76			r	= .0208																

Oyster Shell Analysis

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Unit/Stratum 1610 M

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
1	119	76	1.5	4522	0	1			0	0	+				AV(s), VP(s)
2	*127	83	1.5	5270	1	1			2	2	+				V(c)
3	82	57	1.4	2337	0	1			0	0	+				A(s), AV(s)
4	*97	66	1.4	3201	1	1			0	0	+				VP(s)
5	75	51	1.4	1912	1	1			1	0	+				
6	*65	45	1.4	1462	0	1			2	2	+	+			V(s), P(K)
7	93	47	1.9	2185	0	2			0	0					AV(c), VP(s)
8	*125	89	1.4	5562	1	1			2	2	+				V(s)
9	108	52	2.0	2808	0	1			0	0	+				
10	99	65	1.5	3217	0	1			0	0	+				VP(c)
11	68	55	1.2	1870	2	1			0	0	+				AV(c
12	70	42	1.6	1470	1	1			1	0					VP(v)
13	65	51	1.2	1657	1	1			1	0	+				AV(s), V(s), VP(s)
14	76	42	1.8	1596	0	1			0	0	+				
15	50	35	1.4	875	1	1			0	0					AV(s), P(c)
16	45	32	1.4	720	1	1			0	0					P(K)
17	52	43	1.2	1118	0	1			0	0					
18	*58	38	1.5	1102	0	1			0	0					AV(s), V(s)
19	54	38	1.4	1026	2	1			0	1	+				
20	83	58	1.4	2407	0	1			0	0	+				VP(s)
21	82	56	1.4	2296	1	1			0	0	+				

Oyster Shell Analysis

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Unit/Stratum 1610M

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
22	79	65	1.2	2567	1	2			0	1	+				AV(s)
23	37	30	1.2	555	0	0			2	0	+				AV(s)
24	*48	38	1.2	912	0	1			0	2					AV(s), V(c)
25	64	48	1.3	1536	0	0			0	0					V(c),
26	31	25	1.2	387	0	1			0	0					
27	*69	*42	1.6	1449	0	1			0	1	+				P(s), AV(c)
28	46	30	1.5	690	0	1			0	0	+	+			AV(s)
29	64	40	1.6	1280	0	2			0	0	+				VP(s)
30	60	41	1.4	1230	0	1			0	0	+				V(c)
31	*66	*54	1.2	132	0	1			0	0	+				V(s), VP(v)
32	*69	*48	1.4	1656	0	1			1	2					AV(s), VP(s)
33	*53	*37	1.4	980	0	0			0	0	+				VP(c)
34	*65	40	1.6	1300	0	1	+		0	2	+				P(c), V(c)
35	44	35	1.2	770	1	0			1	0	+				VP(c)
36	53	*34	1.5	901	1	1			0	0	+				A(c), AV(s)
37	*59	*45	1.3	1327	0	0	+		0	0					AV(s), V(s)
38	*56	*44	1.2	1232	0	1			0	2	+				AV(s), V(s)

Oyster Shell Analysis

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Unit/Stratum 1610N

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
1	131	87	1.5	5698	0	1			0	0	+				AV(c)
2	63	45	1.4	1417	0	1			0	0	+				
3	*72	*46	1.5	1656	0	1			0	2					V(c), P(s)
4	*127	81	1.5	5143	1	3			0	0	+				AV(c), V(s),
5	100	65	1.5	3250	0	1			2	1	+				P(s)
6	73	50	1.4	1825	1	1			0	0	+				VP(s)
7	117	82	1.4	4797	1	2			2	0	+				AV(c)
8	82	40	2.0	1640	0	1			3	1	+				P(s), A(s)
9	85	49	1.7	2082	0	0			0	0	+				A(c)
10	59	42	1.4	1239	0	1			0	0	+				
11	80	60	1.3	2400	1	1			0	0	+				
12	92	50	1.8	2300	1	1			1	0	+				AV(s)
13	69	48	1.4	1656	1	1			0	0	+				AV(c)
14	84	52	1.6	2184	0	1			0	0	+				
15	*66	*43	1.5	1419	0	1			1	0					A(c), AV(s), VP(c)
16	68	51	1.3	1734	0	1			0	0	+				V(c)
17	62	46	1.3	1426	0	1			0	0	+				P(c), A(s)
18	104	71	1.4	3692	0	2			1	0	+				AV(c), VP(s)
19	69	46	1.5	1587	1	1			0	0	+				
20	64	37	1.7	1184	0	1			0	0	+				V(s)
21	58	34	1.7	986	1	1			0	0	+	+			

Oyster Shell Analysis

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Unit/Stratum 1610 N

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
22	80	*54	1.4	2160	1	1			0	2	+				VP(s)
23	31	25	1.2	387	0	1			0	0					A(s)
24	*72	*44	1.6	1584	0	1			0	0	+				AV(s), P(s)
25	*51	*39	1.3	994	0	1			0	0	+				AV(c)
26	49	33	1.4	808	0	1			0	0	+				
27	*50	32	1.5	800	0	0			0	0	+				AV(s), VP(s)
28	*74	*52	1.2	2109	0	1			2	0	+				AV(s), VP(s)

Oyster Shell Analysis

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Unit/Stratum

1610P

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
1	125	93	1.3	5812	1	2			0	0	+		+		V(c)
2	107	73	1.4	3905	1	1			3	0	+				V(s)
3	110	73	1.5	4015	1	1			0	0	+				AV(s)
4	97	65	1.4	3152	1	1			0	1	+				VP(c)
5	110	62	1.7	3410	0	2			1	0	+				
6	*67	*52	1.2	1742	1	1			3	0	+				AV(s), VP(s)
7	78	52	1.5	2028	0	1			2	0	+				AV(c), VP(c)
8	*74	*54	1.3	1998	1	0			2	0	+				V(v)
9	96	45	2.1	2160	0	0			0	0	+				
10	53	30	1.7	795	0	1			0	0					
11	68	47	1.4	1598	0	1			0	0	+				VP(c)
12	*85	52	1.6	2210	0	1			1	0	+				AV(s), VP(s)
13	69	53	1.3	1828	1	1			3	0	+				AV(s)
14	64	38	1.6	1216	0	1			0	0					VP(s)
15	*70	48	1.4	1680	0	0			0	2	+				V(s)
16	56	41	1.3	1148	2	1			1	0	+				AV(c)
17	54	34	1.5	918	0	0			0	0	+				AV(s)
18	*65	48	1.3	1560	1	1	+		0	0	+				V(c)
19	78	45	1.7	1755	0	1			0	0	+				VP(s)
20	*116	81	1.4	4698	1	1			1	0	+				V(c)
21	*110	*69	1.5	3795	1	1			0	0	+				AV(c), V(c),

Oyster Shell Analysis

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Unit/Stratum 1610P

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
22	*77	51	1.5	1963	0	1			3	1	+				V(s)
23	34	26	1.3	442	0	0			0	0	+				
24	*61	48	1.2	1464	1	1			2	0	+				V(s)
25	*53	*31	1.7	821	0	1			0	2	+				V(s), VP(s)
26	58	*36	1.6	1044	0	1			1	2					AV(s), VP(s)
27	*45	*34	1.3	765	2	1			0	0					V(c)
28	46	32	1.4	736	1	1			0	0	+				A(c)
29	54	35	1.5	945	2	1			0	0	+				VP(c)
30	58	42	1.3	1218	0	0			0	0	+				VP(c)
31	*55	*49	1.1	1347	1	1			0	0					A(c), AV(c),
32	56	34	1.6	952	0	1			0	0	+				
33	44	33	1.3	726	0	1			0	0	+				AV(v)

Oyster Shell Analysis

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Unit/Stratum 1610W

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
1	*113	83	1.3	4689	1	0			0	0	+				V(c)
2	*95	*50	1.9	2375	0	1			2	0	+				A(c), V(s), P(s)
3	132	72	1.8	4752	0	1			1	0	+				
4	103	69	1.4	3553	0	0			1	1	+				AV(s), P(c)
5	92	68	1.3	3128	0	2			1	0	+				A(c), P(c)
6	*115	83	1.3	4772	0	1			0	0	+				V(c)
7	*107	*65	1.6	3477	0	3			3	1	+				VP(s)
8	89	60	1.4	2670	1	1			1	0	+				P(c)
9	*87	49	1.7	2131	0	1			1	0	+				P(c), V(c)
10	84	50	1.6	2100	1	1			3	0	+			+	
11	105	62	1.6	3255	0	2			0	2	+	+			AV(s)
12	*79	48	1.6	1896	0	1			0	0	+				V(s), VP(c)
13	96	58	1.6	2784	1	1			1	2	+			+	AV(s)
14	65	60	1.0	1950	1	1			0	0	+			+	V(s)
15	76	51	1.4	1938	2	1			0	0					
16	103	64	1.6	3296	0	1			3	1	+			+	VP(c)
17	*70	53	1.3	1855	0	1			0	0	+				V(c)
18	*53	33	1.6	874	0	1			0	0	+				VP(s)
19	59	36	1.6	1062	0	1			0	2				+	V(s)
20	52	32	1.6	832	0	1			0	0	+			+	
21	*123	*80	1.5	4920	1	1			0	0	+			+	AV(v), VP(c)

Oyster Shell Analysis

Site 18CV271

Unit/Stratum 1610W

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
22	76	41	1.8	1558	0	2			0	0	+				V(s)
23	40	24	1.6	480	0	1			0	0	+				
24	36	22	1.6	396	0	1			0	0					
25	71	52	1.3	1846	0	1			0	0	+				
26	*112	*83	1.3	4648	0	0			0	0	+			+	V(s)
27	*85	*50	1.7	2125	0	1			0	2	+			+	V(s)
28	70	38	1.8	1330	1	1			1	2					A(c)
29	67	39	1.7	1306	1	1			0	0	+			+	VP(c)
30	50	36	1.3	900	0	1			0	0	+			+	VP(c)
31	*78	*34	2.2	1326	0	1			1	0	+				P(v)
32	54	37	1.4	999	0	1			0	0	+				
33	42	24	1.7	504	1	1			0	1					AV(c)
34	26	18	1.4	234	0	0			0	0	+				
35	*48	*16	3	384	0	1			2	1	+				A(c),
36	60	*41	1.4	1230	1	1			1	2	+				AV(s),
37	*85	*52	1.6	2210	1	1			2	0	+				V(s), P(c)

Site 18CU271
Unit 1710W

	Racks 0	Racks 1	Racks 2	Ast Att. 0	Ast Att. 1	Ast Att. 2	Ast Att. 3	Bar n	Mus n	S Bor 0	S Bor 1	S Bor 2	S Bor 3	L. Bor 0	L. Bor 1	L. Bor 2	L. Bor 3	Mud n	Drill n	Edge I	Burn n	Edge Damage D	Edge Damage A	Edge Damage AU	Edge Damage U	Edge Damage UP	Edge Damage P	no Shade Dam	no Shade S	no Shade C	no Shade J	no Shade K
1-21	13	6	2	1	12	8	0	0	0	5	3	4	9	12	3	3	3	18	2		0	0	0	2	4	5	3	9	6	8	0	1
22-42	11	8	2	0	13	7	1	0	0	5	10	4	1	17	3	0	1	17	1		1	0	3	3	4	4	2	10	8	6	0	2
43-63	13	8	0	1	14	4	2	0	0	1	4	10	6	11	4	3	3	20	2		0	0	1	2	7	6	1	5	10	7	0	0
64-84	11	9	1	0	14	6	1	1	0	5	10	4	2	16	3	1	1	19	0	1	0	0	0	4	3	2	2	11	5	5	0	1
85-105	12	6	3	0	13	7	1	0	0	5	8	5	3	17	1	2	1	19	1	1	0	0	1	5	4	6	1	6	10	7	0	0
106-126	10	10	1	1	9	10	1	2	0	7	6	8	0	17	4	0	0	20	0	1	0	0	0	8	4	1	4	9	7	10	0	1
127-147	10	11	0	18	3	0	0	1	0	6	7	6	2	16	2	2	1	15	0	0	0	0	3	6	3	2	1	9	10	5	0	1
147-150	3	0	0	1	2	0	0	0	0	1	0	1	1	2	0	1	0	0	0	0	0	0	0	3	1	0	0	0	2	1	0	1
Tot	83	58	9	22	80	42	6	4	0	35	48	42	24	108	20	12	10	128	6	3	1	0	8	33	30	26	14	59	58	49	0	7
%	55	39	6	15	53	28	4	3	0	23	32	28	16	72	13	8	7	85	4	2	1	0	5	22	20	17	9	39	39	33	0	5

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	Ratio		Area		
	Σx	Σx^2	Σy	Σy^2	Σxy
1-21	32.5	51.41	73765	279923109	115141.4
22-42	30.2	44.76	48728	135166946	69496.9
43-63	33.9	55.77	72553	274370489	117878.0
64-84	34.6	58.84	70781	281750111	120854.8
85-105	30.2	44.46	60808	220514446	88415.6
106-126	32.4	51.40	66105	235239965	100390.1
126-150	35.3	53.153	48960	134153212	72601.6
	229.1	359.79	441700	1561118278	681778.4

Ratio	Area
$\bar{x} = 1.53$	$\bar{x} = 2944.67$
$s = 0.26$	$s = 1322.14$

$r = 0.1411$

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 1710 W

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
1	128	86	1.4	5504	0	2			0	0	+	+			
2	115	73	1.5	4197	0	1			2	0	+				VP(s)
3	115	75	1.5	4312	0	1			1	0	+				AV(c)
4	92	*49	1.8	2254	0	1			2	3	+				VP(s), P(s)
5	89	63	1.4	2803	0	1			3	2					V(c)
6	74	53	1.3	1961	1	1			3	2					VP(s)
7	*92	70	1.3	3220	1	2			0	0	+				V(c), VP(K)
8	102	64	1.5	3264	2	1			3	1	+				VP(s), P(c)
9	119	71	1.6	4224	1	2			0	0	+				
10	*124	72	1.7	4464	1	0			2	0	+				V(c)
11	94	65	1.4	3055	1	2			1	0	+				V(c)
12	74	44	1.6	1628	0	2			3	1	+				
13	117	82	1.4	4797	2	1			1	0	+				
14	125	64	1.9	4000	0	2			3	1	+				
15	124	*58	2.1	3596	0	1			2	3					P(c)
16	75	55	1.3	2062	0	1			0	0	+	+			
17	*93	*67	1.3	3115	0	1			1	3	+				AV(c)
18	99	65	1.5	3217	0	2			0	0	+				VP(s)
19	98	75	1.3	3675	0	1			0	0	+				
20	115	63	1.8	3622	1	1			3	2	+				
21	137	70	1.9	4795	0	2			3	0	+				

Oyster Shell Analysis

Site

18CU271

Unit/Stratum

1710 W

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
22	57	24	2.3	684	0	1			1	0	+				
23	*64	50	1.2	1600	1	1			0	0				+	AV(c), V(c)
24	*72	*47	1.5	1692	0	1			2	0	+				V(s), DP(K)
25	112	79	1.4	4424	0	2			2	3					
26	*84	64	1.3	2688	0	2			0	0	+				V(s)
27	70	38	1.8	1330	0	2			0	0	+				
28	71	52	1.3	1846	0	3			1	0	+				
29	88	63	1.3	2772	1	1			1	0	+				VP(c)
30	70	*54	1.2	1890	2	1			1	0					A(s)
31	75	52	1.4	1950	1	2			1	0	+				
32	99	70	1.4	3465	1	1			0	0	+				VP(c)
33	65	47	1.3	1527	2	1			1	1	+				
34	68	44	1.5	1496	0	1			1	0	+				AV(s), V(s)
35	79	56	1.4	2212	0	1			0	0	+				
36	82	54	1.5	2214	0	2			0	0	+				A(K), VP(s)
37	66	52	1.2	1716	1	1			1	0	+				A(s)
38	88	61	1.4	2684	1	2			1	0	+				AV(s)
39	69	56	1.2	1932	0	1			1	0	+	+			
40	73	51	1.4	1861	1	1			2	1					
41	132	72	1.8	4752	1	2			2	0	+				P(c), VP(c)
42	108	74	1.4	3996	0	1			3	1	+				

Oyster Shell Analysis

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Unit/Stratum 1710W

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
43	85	61	1.3	2592	1	1			3	1	+				
44	144	82	1.7	5904	0	2			2	3	+				VP(c)
45	*100	*68	1.4	3400	0	1			2	3	+	+			V(s)
46	141	92	1.5	6486	0	1			1	2	+				P(s)
47	93	65	1.4	3022	0	3			2	0	+				V(c)
48	92	67	1.3	3082	1	1			1	0	+				
49	99	58	1.7	2871	0	1			2	1	+				AV(s)
50	*107	65	1.6	3477	1	1			3	1	+				V(c)
51	125	72	1.7	4500	1	2			2	0	+				
52	77	45	1.7	1732	0	1			1	2	+				VP(s)
53	97	61	1.5	2958	0	1			2	0	+	+			
54	109	69	1.5	3760	1	1			2	0	+				
55	115	62	1.8	3565	1	2			3	0	+				A(s)
56	129	61	2.1	3934	0	1			2	3	+				VP(s)
57	112	49	2.2	3472	0	1			3	1	+				VP(c)
58	*110	62	1.7	3410	0	2			1	0	+				V(s)
59	85	57	1.4	2422	1	3			2	0	+				V(s)
60	100	*60	1.6	3000	1	1			2	0	+				V(c)
61	*89	54	1.6	2403	0	1			3	2					AV(c), VP(c)
62	*101	*67	1.5	3383	0	2			3	0	+				V(s)
63	106	60	1.7	3180	0	0			0	0	+				VP(s)

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 1710W

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
64	85	44	1.9	1870	0	1			3	3					VP(s)
65	94	53	1.7	2491	1	1			2	1	+				
66	109	74	1.4	4033	1	2			2	0	+				AV(s)
67	104	46	2.2	5564	1	1			0	0	+				AV(s)
68	107	*64	1.6	3424	1	1			1	0	+				P(c)
69	103	70	1.4	3605	0	1			1	0	+		+		
70	114	69	1.6	3933	0	1			0	0	+				
71	114	60	1.9	3420	0	2			1	0	+				
72	57	40	1.4	1140	0	1			0	0					
73	79	61	1.2	2409	0	1			1	0	+				AV(K)
74	132	69	1.9	4554	1	1			1	1	+				
75	*88	57	1.5	2508	0	3			0	0	+				V(s)
76	80	55	1.4	2200	1	1			1	1	+				AV(c)
77	52	33	1.5	858	0	1			1	0	+				V(s)
78	154	61	2.5	4697	0	1	+		0	0	+				
79	*118	75	1.5	4425	0	2			1	0	+				VP(c)
80	147	81	1.8	5953	1	2			2	2	+				
81	129	74	1.7	4773	0	2			1	0	+				
82	115	75	1.5	4312	2	2			1	0	+				
83	107	70	1.5	3745	1	1			3	0	+				V(c), P(c)
84	51	34	1.5	867	1	1			2	0	+				

Oyster Shell Analysis

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Unit/Stratum 1710W

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
85	70	54	1.2	1890	1	1			0	0	+				VP(s)
86	57	37	1.5	1054	1	2			1	0	+				VP(s)
87	81	70	1.1	2835	1	2			0	0	+				
88	81	59	1.3	2389	1	2			2	2					AV(s)
89	105	62	1.6	3255	0	3			2	0	+				
90	79	60	1.3	2370	2	1			3	1					P(c)
91	*96	*62	1.5	2976	1	1			1	0	+				AV(s), VP(c)
92	42	34	1.2	714	0	1			1	0	+				VP(c)
93	75	57	1.3	2137	0	1			3	0	+				
94	*93	62	1.5	2883	0	1			2	0	+				V(s),
95	79	48	1.6	1896	0	2			0	0	+				
96	*118	85	1.3	5015	0	1			2	0	+	+			AV(s)
97	91	59	1.5	2684	0	1			0	0	+				V(c)
98	77	69	1.1	2656	0	2			0	0	+				V(c), VP(s)
99	85	50	1.7	2125	2	1			1	0	+				AV(s)
100	128	73	1.7	4672	1	2			2	0	+				AV(c),
101	118	75	1.5	4425	2	2			1	0	+				
102	142	93	1.5	6603	0	1			1	0	+		+		
103	75	37	2.0	1387	0	1			1	3	+				A(s)
104	128	80	1.6	5120	0	1			3	2	+				VP(c), P(c)
105	*65	53	1.2	1722	0	1			1	0	+				V(s)

Oyster Shell Analysis

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Unit/Stratum 1710 W

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
106	117	90	1.3	5265	1	1			0	0	+				AV(c)
107	110	64	1.7	3520	1	2			2	0	+				
108	92	62	1.4	2852	1	2			0	0	+				
109	90	62	1.4	2790	1	2			0	0	+				
110	102	*50	2.0	2550	0	2			1	1	+				P(c), V(c)
111	123	*69	1.7	4243	1	1			2	1	+		+		AV(s), P(K)
112	93	45	2.0	2092	1	2			1	0	+				AV(c)
113	84	60	1.4	2520	2	1			1	0	+				
114	*58	37	1.5	1073	0	1			2	0					V(s)
115	80	44	1.8	1760	0	1			0	0	+				
116	102	72	1.4	3672	1	1	+		0	0	+				
117	*83	49	1.6	2033	0	1			2	1	+				V(c), P(c)
118	103	82	1.2	4223	0	1			2	0	+				AV(c)
119	125	83	1.5	5187	1	0			2	0	+				AV(s), VP(s)
120	*120	60	2	3600	0	1			0	0	+				AV(s), V(c)
121	102	*53	1.9	2703	0	2			1	1	+				P(s)
122	88	63	1.3	2772	0	2			1	0	+				
123	93	75	1.2	3487	1	2	+		2	0	+				AV(c)
124	*121	*83	1.4	5021	0	2			2	0	+				AV(s), P(c)
125	94	64	1.4	3008	1	3			1	0	+				
126	68	51	1.3	1734	0	2			0	0	+				

Oyster Shell Analysis

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Unit/Stratum 1710 W

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
127	136	73	1.8	4964	1	1			1	0	+				
128	98	65	1.5	3185	1	1			2	1	+				AV(s)
129	113	75	1.5	4237	0	1			3	2	+				
130	98	70	1.4	3430	1	1			2	2	+				AV(s)
131	105	82	1.2	4305	0	1			1	0	+				
132	98	61	1.6	2989	1	1			1	0	+				
133	*77	43	1.7	1655	0	1			1	0					VP(s)
134	*74	*48	1.5	1776	0	1			2	0	+				AV(s)
135	*69	*43	1.6	1483	0	1			2	3					AV(s), VP(s)
136	*61	44	1.3	1342	0	1			0	0					V(c)
137	86	53	1.6	2279	1	1			2	0	+				
138	87	42	2.0	1827	0	1			1	0	+				A(K)
139	*72	53	1.3	1908	1	1			0	0	+				A(s)
140	65	47	1.3	1527	0	2			2	0	+				A(c)
141	56	42	1.3	1176	1	1			3	0					
142	*78	50	1.5	1950	0	1			0	0	+				AV(s), V(c)
143	71	*37	1.9	1313	1	1	+		0	0	+				DP(c), P(c)
144	*73	67	1.0	2445	1	1			1	0	+				AV(s), V(s)
145	41	27	1.5	553	1	1			1	1					
146	45	47	.95	1057	0	2			0	0					
147	44	30	1.4	660	1	2			0	0	+				

Oyster Shell Analysis

Site

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Unit/Stratum

1710 W

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
148	47	33	1.4	775	0	1			0	0					AV(K)
149	*49	31	1.5	759	0	1			3	0					AV(C), V(S)
150	*65	*42	1.5	1365	0				2	2					AV(S),

Site 18CV271
Unit 1713E

	Rags 0	Rags 1	Rags 2	Ast Att. 0	Ast Att. 1	Ast Att. 2	Ast Att. 3	Bar n	Mus n	S Bor 0	S Bor 1	S Bor 2	S Bor 3	L. Bor 0	L. Bor 1	L. Bor 2	L. Bor 3	Mud n	Drill n	Ecto	Burn n	Edge Damage D	A	AU	U	UP	P	no edge damage	Shape S	C	J	K
1-21	6	11	4	0	16	5	0	0	0	15	5	1	0	19	2	0	0	15	0	0	2	2	1	9	4	1	2	5	5	11	2	1
22-42	7	8	6	2	14	5	0	3	0	17	3	0	1	18	2	1	0	18	0	3	3	0	4	5	6	4	0	9	10	8	1	0
43-47	2	3	0	1	2	2	0	0	0	2	0	2	1	3	2	0	0	2	0	0	0	0	0	4	0	3	0	0	3	3	0	1
tot	15	22	10	3	32	12	0	3	0	34	8	3	2	40	6	1	0	35	0	3	5	2	5	18	10	8	2	14	18	22	3	2
%	32	47	21	6	68	25	0	6	0	72	17	6	4	85	12	2	0	74	0	6	10	4	10	38	21	17	4	30	38	47	6	4

Rags

Σx 64.5

Σx^2 90.09

$\bar{x}$ 1.37

s 0.18

Area

Σy 712.62 Σy^2 125974.552

$\bar{x}$ 15 16.21

s 624.25

$\Sigma x y$ 98191.6

Ratio

	LW	C	LW	C	MW	MW	MW	C	LW	C	C
	2210F	1914E	2114E	1736E	2104L	2608J	2608E	1610M-W	2215E	P710W	1610K
n	26	240	190	47	109	84	66	136	167	150	153
$\bar{x}$	1.28	1.36	1.36	1.37	1.40	1.40	1.44	1.48	1.50	1.53	1.58
s	0.18	0.19	0.26	0.18	0.20	0.20	0.21	0.24	0.24	0.26	0.24

Oyster Shell Analysis

Site 18CV271

Unit/Stratum 171 3E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
1	69	48	1.4	1656	2	1			0	0	+				DP(c)
2	78	49	1.5	1911	0	1			1	0	+				
3	67	55	1.2	1842	1	1			0	1	+				AV(v)
4	56	40	1.4	1120	0	1			2	0	+				VP(s)
5	65	51	1.2	1657	1	1			1	0	+				V(c)
6	78	59	1.3	2301	1	1			0	0					A(c)
7	*71	37	1.9	1313	0	2			0	0					AV(v)
8	91	54	1.6	2457	1	1			0	0	+				AV(s)
9	72	53	1.3	1908	0	1			1	0				+	AV(c)
10	82	56	1.4	2296	1	2			0	0	+				
11	55	43	1.2	1182	1	2			0	0	+				AV(c), V(c)
12	55	44	1.2	1210	2	1			0	0					P(c)
13	*89	53	1.6	2358	0	1			0	1	+				AV(s), V(c)
14	56	47	1.1	1316	1	1			1	0					
15	53	40	1.3	1060	1	1			0	0	+				AV(k)
16	50	36	1.3	900	1	1			0	0	+				
17	62	47	1.3	1457	1	2			0	0	+				AV(s)
18	74	52	1.4	1924	2	1			1	0	+			+	V(c), P(c)
19	85	62	1.3	2635	2	1			0	0	+				AV(s)
20	63	42	1.5	1323	0	1			0	0	+				
21	38	33	1.1	627	1	2			0	0					DA(c)

Oyster Shell Analysis

Site

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Unit/Stratum

1713E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
22	89	54	1.6	2403	1	2			1	0	+				
23	57	44	1.2	1254	0	1			0	0	+			+	AV(s)
24	63	44	1.4	1386	1	2	+		0	0	+				
25	87	57	1.5	2479	2	2			0	0	+				A(c), AV(s)
26	52	33	1.5	858	0	0	+		0	0	+				
27	91	57	1.5	2593	1	2			0	0	+				AV(s), VP(s)
28	*50	34	1.4	850	0	1			1	0					AV(s), V(c)
29	64	45	1.4	1440	1	1			0	1					
30	72	55	1.3	1980	1	1			0	0	+				VP(s)
31	70	60	1.1	2100	2	1			0	0	+		+	+	
32	71	*36	1.9	1278	0	1			0	0	+				A(s), V(c)
33	*55	*37	1.4	1017	0	1			0	2					A(c), V(c)
34	45	33	1.3	742	1	1			0	0	+				
35	70	56	1.2	1960	2	1			0	0	+				
36	*56	38	1.4	1064	2	1			0	0	+				V(s)
37	42	29	1.4	609	1	1			0	0	+				A(v)
38	60	45	1.3	1350	0	1			1	1	+				
39	*79	65	1.2	2567	2	1	+		0	0	+			+	V(c), VP(s)
40	59	38	1.5	1121	1	2			0	0	+		+		
41	84	60	1.4	2520	0	0			3	0	+		+		V(s)
42	48	39	1.2	936	2	1			0	0	+				AV(c), VP(c)

Oyster Shell Analysis

Site 18CV271

Unit/Stratum 1713 E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
43	49	38	1.2	931	1	1			2	0					VP(s)
44	46	32	1.4	736	1	2			0	0					AV(c)
45	52	28	1.8	728	0	0			2	1	+				AV(c)
46	*47	*38	1.2	893	0	2			3	1					AV(K), VP(s)
47	*52	*39	1.3	1014	1	1			0	0	+				AV(c), VP(s)

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Unit 19 14 E

		Rads			Dust Att.				Bar	Mus	S Bor. Sponge				L. Bor. Sponge				Mud	Drill Eco	Burn	Edge Damage						No Shape				
		0	1	2	0	1	2	3	n	n	0	1	2	3	0	1	2	3	n	n	n	10	A	AV	V	VP	P	Dam	S	C	J	K
1	21	3	11	7	2	15	3	1	1	0	18	1	2	0	20	0	1	0	18	0	1	0	2	6	7	6	8	3	20	7	1	1
22	42	2	16	3	5	16	0	0	1	0	11	6	4	0	14	3	3	1	20	0	2	0	0	9	3	6	4	4	16	5	1	0
43	63	4	11	6	3	18	1	0	0	0	15	3	2	1	20	0	1	0	20	0	2	0	0	3	9	2	7	6	10	10	1	0
64	84	4	11	6	4	13	3	1	0	0	16	4	1	0	19	2	0	0	19	0	2	0	0	11	5	5	1	4	15	5	2	0
85	105	4	12	5	3	17	1	0	0	0	12	4	4	1	16	1	3	1	20	2	0	1	2	6	5	4	3	6	14	5	1	1
106	126	5	15	1	6	13	1	0	2	0	16	2	2	1	16	2	2	1	17	1	0	0	1	8	4	5	2	7	17	3	0	0
127	147	7	10	4	3	17	0	1	1	0	11	9	1	0	16	3	1	1	13	0	2	2	2	10	5	5	1	4	14	10	2	2
148	168	4	15	2	1	15	5	0	1	0	15	5	1	0	17	2	2	0	19	2	2	0	1	9	3	8	4	3	11	16	0	0
169	189	3	15	3	1	16	4	0	0	0	14	6	1	0	19	1	1	0	19	0	2	2	0	5	6	9	0	4	12	8	0	1
190	210	9	8	4	2	19	1	0	1	0	18	2	1	0	20	0	1	0	17	0	2	0	3	8	6	5	0	6	9	14	0	0
211	231	11	8	2	4	16	1	0	1	0	17	2	1	0	19	1	0	1	20	1	5	1	1	11	5	7	1	2	16	9	0	2
232	240	6	3	0	1	7	1	0	0	0	9	0	0	0	9	0	0	0	8	0	2	0	1	2	6	4	1	1	11	3	0	0
Tot		62	135	43	35	182	22	3	8	0	172	44	20	3	205	15	15	5	210	6	22	6	13	88	64	66	32	50	170	95	8	7
%		25	56	18	14	75	9	1	3	0	71	18	8	1	85	6	6	2	87	2	9	2	5	36	26	27	13	20	70	39	3	2

Ratio		Area	
n	240	n	240
$\bar{x}$	1.36	$\bar{x}$	1964.98
Σx	325.8	Σx	471596
Σx^2	450.9	Σx^2	1,177,697,696
s	0.19	s	894.00

Σxy 634876.7

$r = -.1309$

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 1914 III

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
1	94	71	1.3	3337	1	1			0	0	+				
2	*112	62	1.8	3472	2	2			0	0					AV(s) V(s), VP(s)
3	94	70	1.3	3290	1	1			0	0	+				VP (s)
4	*116	*62	1.8	3598	1	1			0	0	+				AV(c), V(c), P(c)
5	*88	*59	1.4	2596	2	1			2	0	+				AV(s) V(s) P(s)
6	*83	*68	1.2	2822	1	1			0	0					A(s) AV(s) P(s)
7	89	*59	1.5	2625	1	1			0	0	+				A(c), P(K)
8	101	66	1.5	3333	2	1			0	0	+				P(c)
9	*94	78	1.2	3666	2	1			0	0	+				V(s)
10	*82	60	1.3	2460	1	1			0	0	+				V (v)
11	*107	74	1.4	3959	1	2			0	0	+				AV(c), V(s), VP(s)
12	72	50	1.4	1800	2	1			1	0	+			+	
13	95	*61	1.5	2897	1	1			0	0	+				P(s), VP(s)
14	87	71	1.2	3088	0	0			2	2					P (s)
15	91	63	1.4	2866	1	1			0	0	+				VP(s), P(s)
16	*108	*79	1.3	4266	2	1			0	0	+				V (s), VP(s)
17	104	72	1.4	3744	2	1			0	0	+				VP(c)
18	62	43	1.4	1333	1	1			0	0	+				AV(s), P(s)
19	93	68	1.3	3162	0	2			0	0	+				P(s), A(s)
20	84	60	1.4	2520	0	0			0	0	+				
21	104	70	1.4	3640	1	3	+		0	0	+				VP (s)

Oyster Shell Analysis

Site
1-8CU271

Unit/Stratum
1914 F1

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
22	*87	63	1.3	2740	2	0			0	0	+				VP(s)
23	77	56	1.3	2156	1	1			1	0	+				P(c)
24	54	41	1.3	1107	1	1			0	0	+			+	AV(s), V(v), VP(s)
25	*74	71	1.0	2627	1	1			0	0	+				V(s)
26	*64	34	1.8	1088	0	0			2	3	+				AV(s), VP(s)
27	91	67	1.3	3048	1	0			0	0	+				AV(s)
28	77	58	1.3	2233	2	1			1	2	+				AV (s)
29	84	60	1.4	2520	1	1			1	0	+				VP(s)
30	124	63	1.9	3906	1	1			2	1	+				VP(s), P(s)
31	*81	*61	1.3	2470	1	1			0	0	+				AV(s)
32	88	*58	1.5	2552	1	1			1	1	+				AV(s)
33	96	64	1.5	3072	1	0	+		0	0	+				VP(c)
34	*59	*28	2.1	826	1	1			0	0	+			+	AV(s)
35	*121	80	1.5	4840	1	1			0	0	+				
36	75	48	1.5	1800	0	0			2	0	+				
37	82	50	1.6	2050	1	1			1	2	+				AV(s)
38	81	55	1.4	2227	1	1			1	1	+				AV(s), P(c)
39	*81	68	1.1	2754	1	1			0	0	+				V(c)
40	67	46	1.4	1541	1	1			0	0	+				
41	75	60	1.2	2250	2	1			0	0	+				P(c)
42	86	66	1.3	2838	1	1			2	2					

Oyster Shell Analysis

Site 1-8CU271

Unit/Stratum 1914E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
43	91	63	1.4	2867	1	1			0	0	+				P(c)
44	80	58	1.3	2320	2	1			0	0	+				P(c)
45	78	61	1.2	2379	1	1			0	0	+				VP(s), P(c)
46	84	62	1.3	2604	2	1			0	0	+				AV(c)
47	*65	44	1.4	1430	0	0			0	0	+			+	AV(c)
48	77	64	1.2	2464	1	1			0	0	+				
49	*97	73	1.3	3540	1	1			0	0	+				V(s)
50	78	70	1.1	2730	1	1			0	0	+				
51	*91	67	1.3	3048	2	1			0	0	+				V(s)
52	*91	62	1.4	2821	1	1			1	0	+				V(c), P(c)
53	*86	62	1.3	2666	2	1			0	0	+				AV(s), V(v)
54	73	61	1.1	2226	1	1			1	0	+				
55	*74	63	1.1	2331	0	1			0	0	+			+	V(s)
56	92	69	1.3	3174	1	1			1	0	+				V(c), P(c)
57	*67	43	1.5	1440	0	1			0	0	+				V(c), VP(s)
58	84	69	1.2	2898	2	1			2	2	+				
59	*83	67	1.2	2780	1	1			0	0	+				V(s)
60	*84	62	1.3	2604	2	0			0	0	+				V(s), P(s)
61	75	58	1.2	2175	0	1			2	0	+				
62	73	51	1.4	1861	1	0			3	2	+				
63	85	65	1.3	2762	1	2			0	0	+				P(s)

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 1914 E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
64	83	73	1.1	3029	1	1			0	0	+				V(s)
65	88	68	1.2	2992	2	1			0	0	+				AV(c)
66	90	71	1.2	3195	1	2			1	0	+				
67	103	64	1.6	3296	1	1			2	1	+				
68	*89	75	1.1	3337	2	1			0	0	+				AV(c)
69	83	66	1.2	2739	2	1			0	0					AV(c)
70	76	60	1.2	2280	0	1			0	0	+				VP(s)
71	*93	71	1.3	3301	1	2			0	0	+				VP(s), AV(s)
72	*93	72	1.2	3348	1	1			0	0	+				AV(s), V(s)
73	94	72	1.3	3384	2	2			1	0	+				
74	88	59	1.4	2596	2	1			1	0	+				AV(s)
75	47	36	1.3	846	1	1			1	0	+				P(c)
76	63	44	1.4	1386	1	0			0	0	+				
77	*73	*47	1.5	1715	0	1			0	0	+			+	VP(s)
78	*95	66	1.4	3135	2	3			0	0	+				V(s)
79	75	61	1.2	2287	1	0			0	0	+				AV(s)
80	*65	52	1.2	1690	1	1			0	0	+				AV(s), V(s)
81	*48	*31	1.5	744	0	1			0	0				+	AV(s), V(v)
82	*79	56	1.4	2212	1	1			0	0	+				AV(s)
83	57	51	1.1	1453	1	0			0	1	+				AV(s), VP(v)
84	57	44	1.2	1254	0	0			0	0	+				VP(c)

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 1914E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
85	80	57	1.4	2280	1	1			3	2	+				VP(S)
86	75	42	1.7	1575	0	1			0	0	+	+			
87	78	46	1.6	1794	1	1			0	0	+				AV(S), P(S)
88	76	52	1.4	1976	1	1			1	0	+				
89	58	45	1.2	1305	2	0			0	0	+				D(C)
90	49	33	1.4	808	1	1			2	1	+				P(K)
91	71	65	1.0	2307	1	1			0	0	+				DA(S)
92	65	*52	1.2	1690	1	1			0	0	+				A(S), AV(C)
93	82	67	1.2	2747	2	1			0	0	+				AV(C)
94	*46	28	1.6	644	1	1			0	0					V(S)
95	75	55	1.3	2062	2	1			0	0	+				AV(C)
96	80	57	1.4	2280	1	1			2	0	+				
97	*90	58	1.5	2610	1	1			1	0	+				AV(S), V(S), VP(S)
98	*73	50	1.4	1825	0	0			1	0	+	+			V(S)
99	*101	68	1.4	3434	1	1			2	3	+				VP(S)
100	84	48	1.7	2016	0	0			0	0	+				
101	*89	46	1.9	2047	0	1			1	2	+				AV(S), VP(S), V(V)
102	75	57	1.3	2137	2	1			2	2	+				
103	80	52	1.5	2080	2	1			0	0	+				
104	74	69	1.0	2553	1	2			0	0	+				P(C)
105	*77	61	1.2	2348	1	1			0	0	+				V(S)

Oyster Shell Analysis

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Unit/Stratum 1914E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
106	83	60	1.3	2490	2	1	+		0	0	+				
107	92	65	1.4	2990	1	2			0	0	+				
108	80	60	1.3	2400	1	0	+		0	0	+				
109	100	60	1.6	3000	0	1			0	0					AV(s)
110	*49	*39	1.2	955	1	1			0	0	+				AV(s), V(s)
111	74	55	1.3	2035	1	1			0	0	+				
112	69	48	1.4	1656	0	0			0	0	+				VP(s)
113	80	53	1.5	2120	1	1			2	1	+				AV(s), VP(s)
114	72	57	1.2	2052	1	0			0	0	+				AV(c)
115	89	74	1.2	3293	1	1			0	0	+				V(s), VP(s)
116	*54	45	1.2	1215	1	0			0	2					AV(s)
117	76	59	1.2	2242	1	1			0	0	+				P(s)
118	76	50	1.5	1900	1	0			3	2					P(c)
119	*78	62	1.2	2418	1	1			2	1	+				
120	*61	*34	1.7	1037	0	0			1	3					A(s), V(s), VP(s)
121	*73	49	1.4	1788	0	1			0	0	+				AV(c)
122	66	50	1.3	1650	1	1			0	0	+	+			AV(s)
123	*62	37	1.6	1147	0	1			1	0	+				AV(s)
124	68	53	1.2	1802	1	1			0	0	+		+		
125	*66	52	1.2	1716	1	1			0	0	+				V(s), VP(s)
126	81	66	1.2	2673	1	1			0	0	+				

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 1914E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
127	75	61	1.2	2287	1	1			1	0	+				
128	*51	37	1.3	943	1	1			1	0	+				V(S)
129	48	34	1.4	816	2	1			2	1					P(c)
130	*70	*46	1.5	1610	0	0			0	0	+			+	VP(S)
131	39	36	1.0	702	1	1	+		0	0					
132	*63	*38	1.6	1197	0	1			0	0				+	A(s), AV(s), V(v), VP(S)
133	45	40	1.1	900	1	1			0	0	+				AV(s)
134	80	58	1.3	2320	2	1			1	0	+				
135	*60	41	1.4	1230	1	1			0	0					AV(c), VP(s)
136	*63	62	1.0	1953	2	1			1	2	+				VP(c)
137	77	*63	1.2	2425	1	1			1	1					AV(S)
138	81	71	1.1	2875	2	1			0	0	+				D(K)
139	72	45	1.6	1620	1	1			1	0	+				AV(c)
140	*84	51	1.6	2142	0	0			0	0	+				V(s)
141	105	66	1.5	3465	1	3			0	0	+				
142	*91	*65	1.4	2957	0	1			1	3					AV(c), V(c), VP(s)
143	*56	*35	1.6	980	0	1			0	0					AV(s), VP(s)
144	68	47	1.4	1598	1	1			1	0	+				AV(c)
145	81	55	1.4	2227	0	1			0	0	+				AV(c)
146	*70	*51	1.3	1785	0	0			1	1					A(C), V(S), D(K)
147	57	47	1.2	1339	1	1			0	0	+				AV(c)

Oyster Shell Analysis

Site
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Unit/Stratum
1914E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
148	81	58	1.3	2349	1	1			0	0	+				
149	*43	28	1.5	602	1	0			0	0	+				VP(s)
150	78	*64	1.2	2496	1	1			1	0	+				P(c)
151	62	43	1.4	1333	1	2			1	1	+				AV(c)
152	71	51	1.3	1810	0	1			0	0	+			+	DP(c), P(c)
153	*87	59	1.4	2566	2	1			0	0	+				AV(s), VP(c)
154	82	55	1.4	2255	1	1			0	0	+				
155	70	34	2.0	1190	0	2	+		0	0	+				VP(c)
156	56	31	1.8	868	1	1			0	0					P(c), AV(s)
157	82	58	1.4	2378	1	2			0	0	+				VP(c)
158	86	*57	1.5	2451	0	1			2	2	+	+		+	A(s), AV(s), VP(c)
159	75	66	1.1	2475	1	1			1	0	+				P(c), AV(c), VP(c)
160	65	39	1.6	1267	1	1			0	2	+				V(c), AV(s)
161	82	63	1.3	2583	1	1			0	0	+				AV(c)
162	*68	51	1.3	1734	1	1			0	0	+				V(c), VP(s)
163	46	30	1.5	690	1	1			1	1	+				AV(c)
164	*78	61	1.2	2379	2	1			0	0	+				VP(s)
165	69	42	1.6	1449	0	1			0	0	+	+			P(s)
166	50	45	1.1	1125	1	1			1	0					AV(s)
167	*78	67	1.1	2613	1	2			0	0	+				V(s)
168	43	32	1.3	688	1	2			0	0	+				

Oyster Shell Analysis

Site
18CU271

Unit/Stratum
1914E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
169	56	39	1.4	1092	0	1			0	0	+				
170	*86	66	1.3	2838	1	2			0	0	+				V(c), VP(s)
171	71	44	1.6	1562	1	1			0	0	+				V(c)
172	76	47	1.6	1786	1	1			0	0	+				VP(c)
173	50	35	1.4	875	1	1			0	0					DP(K)
174	84	57	1.4	2394	2	1			1	0	+				AV(c)
175	*55	40	1.3	1100	1	1			0	0	+				AV(s), VP(s)
176	*74	47	1.5	1739	0	1			0	0	+			+	V(s), VP(s)
177	96	65	1.4	3120	2	1			1	0	+				AV(s), VP(c)
178	55	45	1.2	1237	1	1			1	0	+				
179	56	46	1.2	1288	1	1			0	0					DP(K)
180	54	44	1.2	1186	1	0			0	0	+				AV(c)
181	*51	41	1.2	1045	1	2			0	0	+				VP(K), V(s)
182	85	68	1.2	2890	1	2			1	0	+				
183	*86	63	1.3	2709	1	1			1	0	+				V(c)
184	67	55	1.2	1842	1	1			0	0	+				
185	*59	42	1.4	1239	1	1			0	0	+		1	+	V(s)
186	*75	*53	1.4	1987	0	1			0	0	+				VP(s)
187	*82	59	1.3	2829	1	1			0	0	+				V(s), VP(s)
188	81	69	1.1	2794	2	1			1	1	+				AV(s)
189	81	52	1.5	2106	1	2			2	2	+				VP(c)

Oyster Shell Analysis

Site

18CU271

Unit/Stratum

1914E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
190	71	50	1.4	1775	0	0			0	0	+				V(c)
191	68	59	1.1	2006	2	1			0	0	+				
192	63	*40	1.5	1260	1	1			0	0	+				A(c)
193	*80	*57	1.4	2280	1	1			0	0	+			+	V(s)
194	*57	*35	1.6	997	0	1			2	2	+				AV(s), VP(s)
195	*71	50	1.4	1775	0	1			0	0	+				AV(s), V(s)
196	51	35	1.4	892	1	2			0	0					
197	49	33	1.4	808	0	1			0	0	+				
198	52	49	1.0	1274	1	1			0	0	+				AV(c), VP(c)
199	64	34	1.8	1088	0	1			0	0	+				A(c)
200	48	31	1.5	744	2	1			0	0					P(s)
201	47	44	1.0	1034	1	1			0	0	+				AV(c), V(c), VP(c)
202	*72	*53	1.3	1908	0	1	+		1	0	+				AV(c), V(c)
203	*61	41	1.4	1250	1	0			1	0				+	A(c), VP(c)
204	47	34	1.3	799	0	1			0	0					
205	*63	50	1.2	1575	0	1			0	0	+				V(s)
206	*52	40	1.3	1040	1	1			0	0	+				V(s)
207	52	33	1.5	858	0	1			0	0	+				V(c)
208	61	47	1.2	1433	1	1			0	0	+				
209	65	*46	1.4	1495	2	1			0	0	+				A(c), VP(s)
210	54	35	1.5	945	2	1			0	0	+				

Oyster Shell Analysis

Site

18CU271

Unit/Stratum

1914 E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
211	36	29	1.2	522	0	0			0	0	+				VP(S)
212	58	41	1.4	1189	0	1			0	0	+				AV(S), DP(c)
213	63	36	1.7	1134	2	1			0	0	+				
214	41	25	1.6	512	1	0			2	1					V(c)
215	49	33	1.4	808	1	1			0	0	+				AV(S)
216	49	36	1.3	882	0	1			0	0	+			+	A(S), AV(c)
217	*47	28	1.6	658	0	0			0	0	+				AV(S), VP(c)
218	*67	45	1.4	1507	0	1			2	3	+			+	AV(S), V(S)
219	33	26	1.2	429	1	1			0	0	+				AV(S)
220	*54	36	1.5	972	1	1			1	0	+			+	AV(S), VP(S)
221	45	29	1.5	652	0	1			1	0	+				AV(S)
222	61	49	1.2	1494	1	1			0	0	+				
223	47	35	1.3	822	1	1			0	0	+				AV(c), VP(c)
224	*38	33	1.1	627	0	1			0	0	+				V(c)
225	48	36	1.3	864	1	1	+		0	0	+				P(K), VP(S)
226	*62	53	1.1	1643	0	0			0	0	+	+			VP(S)
227	*51	*39	1.3	994	0	2			0	0	+			+	AV(S), VP(S)
228	47	33	1.4	775	1	1			0	0	+				V(K)
229	*55	35	1.5	962	0	1			0	0	+				AV(S)
230	53	27	1.9	715	2	1			0	0	+			+	V(c)
231	49	42	1.1	1029	0	1			0	0	+				DA(c)

Oyster Shell Analysis

Site

18CU271

Unit/Stratum

1914 E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
232	*46	31	1.4	713	1	1			0	0	+				AV(c), V(s)
233	*51	33	1.5	841	0	1			0	0	+				V(s), VP(s)
234	41	37	1.1	758	0	1			0	0	+				
235	*44	37	1.1	814	0	1			0	0	+				V(s)
236	41	26	1.5	533	0	2			0	0					VP(s)
237	*43	45	.95	967	1	1			0	0	+			+	V(s), P(c)
238	*46	34	1.3	782	0	1			0	0	+				AV(s), VP(s)
239	46	27	1.7	621	0	1			0	0	+				A(c), V(s)
240	*63	40	1.5	1260	1	6			0	0	+			+	V(s), VP(s)

Site 18CU271
Unit 2104L

	Racks 0	Racks 1	Racks 2	Ast Att. 0	Ast Att. 1	Ast Att. 2	Ast Att. 3	Bar n	Mus n	S Bor 0	S Bor 1	S Bor 2	S Bor 3	L. Bor 0	L. Bor 1	L. Bor 2	L. Bor 3	Mud n	Drill n	Ecto	Burn n	Edge D	Edge A	Damage AU	Damage U	Damage UP	Damage P	No Dam	Shape S	Shape C	Shape J
1-21	6	13	2	1	18	2	0	1	0	9	5	4	3	11	3	4	2	15	3		0	0	1	5	2	8	1	8	10	7	0
22-42	8	7	6	1	18	1	1	0	0	15	3	1	2	13	4	3	1	16	2		0	0	0	3	3	4	0	12	9	1	0
43-63	9	10	2	3	16	2	0	0	0	10	5	3	3	12	4	3	2	13	0		0	0	2	4	3	4	5	8	9	9	0
64-84	6	11	4	2	18	1	0	0	0	8	5	6	2	12	5	2	2	13	0	1	1	0	0	4	0	8	2	9	6	8	0
85-105	8	11	2	1	19	1	0	0	0	7	4	5	4	11	3	6	1	10	0		0	0	1	0	4	3	2	12	3	8	0
106-109	1	2	1	1	3	0	0	0	0	3	1	0	0	3	1	0	0	3	0		0	0	1	0	0	1	1	1	2	1	0
tot	38	54	17	9	92	7	1	1	0	52	23	19	14	62	20	18	8	70	5	1	1	0	5	16	12	28	11	50	39	34	0
%	35	50	16	8	84	6	1	1	0	48	21	17	13	57	18	17	7	64	5	1	1	0	5	15	11	26	10	46	36	31	0

	Radios		Area
n	109		109
x	1.40	$\bar{x}$	2202.44
Σx	153.1	Σx	240066
Σx^2	219.22	Σx^2	725,562,332
s	0.20	s	1350.00

Σxy 342530.6

$r = .1861$

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 2104L

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
* 1	165	91	1.8	7507	0	1			0	0	+				V(s), VP(s)
2	90	63	1.4	2835	1	0			1	1		+			
3	121	84	1.4	5082	0	1			3	3					V(c)
4	82	61	1.3	2501	1	1			0	0	+				AV(s), VP(c)
* 5	97	63	1.5	3055	1	2			1	1	+				
6	78	57	1.3	2223	0	1			0	0	+				
7	97	73	1.3	3540	1	1			2	2					
* 8	107	77	1.3	4119	1	1			0	0	+				VP(s)
9	125	83	1.5	5187	0	1	+		0	0	+	+			
10	115	75	1.5	4312	1	1			1	1	+				
11	90	55	1.6	2476	1	1			0	0					AV(c)
12	76	54	1.4	2052	1	1			1	1	+				A(c)
* 13	140	93	1.5	6510	1	1			0	0	+	+			AV(c), VP(s)
* 14	111	76	1.4	4218	1	1			2	2	+				AV(s)
* 15	89	54	1.6	2403	0	1			3	3					
* 16	85	60	1.4	2550	1	1			2	2	+				AV(s), VP(s)
* 17	70	56	1.2	1960	2	2			0	0					VP(s)
* 18	107	77	1.3	4119	0	1			0	0	+				VP(c)
19	93	66	1.4	3069	1	1			2	2	+				VP(s)
* 20	121	79	1.5	4779	1	1			1	0	+				
21	68	51	1.3	1734	2	1			3	0	+				P(c)

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 2104L

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
22	47	38	1.2	893	0	0			0	0	+	+			
23	109	*68	1.6	3706	2	1			0	0	+				AV(s), VP(s)
24	70	52	1.3	1820	0	1			3	3					AV(s)
25	53	32	1.6	848	0	1			0	2	+	+			AV(c)
*26	59	37	1.5	1091	2	1			0	0					
27	*57	41	1.3	1168	0	1			0	0	+				V(s)
28	*63	50	1.2	1575	1	1			1	0	+				V(s)
29	56	36	1.5	1008	2	1			1	1					V(s)
30	50	27	1.8	675	2	1			1	0	+				
*31	54	*56	.96	1512	0	1			0	0	+				VP(s)
32	81	53	1.5	2146	1	1			0	1	+				VP(s)
33	79	47	1.6	1856	0	1			0	0	+				
34	74	51	1.4	1887	1	1			0	0	+				
35	77	53	1.4	2040	2	1			0	0	+				
*36	53	42	1.2	1113	1	1			0	0	+				
37	69	44	1.5	1518	0	1			2	1					
38	75	51	1.4	1912	1	2			0	1	+				
39	91	57	1.5	2593	1	1			0	0	+				VP(s)
40	112	87	1.2	4872	2	3			0	2	+				
41	80	53	1.5	2120	1	1			0	0					
42	61	45	1.3	1372	0	1			3	2	+				

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 2104L

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
* 43	59	46	1.2	1357	2	1			0	0	+				AV(s)
44	96	55	1.7	2640	0	1			3	2					VP(s)
45	65	51	1.2	1657	1	1			1	0	+				
46	74	50	1.4	1850	1	1			0	0	+				
47	60	53	1.1	1590	1	1			0	0					
* 48	65	49	1.3	1592	0	2			1	0	+				P(s)
* 49	76	52	1.4	1976	1	1			3	2					P(c)
50	71	56	1.2	1988	1	1			2	1					VP(c), AV(c)
* 51	53	*32	1.6	848	0	1			0	0	+				AV(c), V(c)
52	*42	*26	1.6	546	0	0			0	0	+				A(s) VP(s)
53	64	34	1.8	1088	1	2			0	0	+				
* 54	57	46	1.2	1311	2	1			1	1	+				
* 55	42	*28	1.5	588	0	1			3	3					P(s)
56	52	*40	1.3	1040	1	1			0	0	+				P(c)
57	58	38	1.5	1102	1	0			2	3					
* 58	40	33	1.2	660	1	1			0	0	+				AV(c)
59	*61	*49	1.2	1494	0	0			1	1					V(s), VP(s)
60	47	35	1.3	822	0	1			0	0	+				A(c)
* 61	54	47	1.1	1269	1	1			1	1					
62	46	34	1.3	782	0	1			2	2	+				P(c), V(s)
63	53	*31	1.7	821	0	1			0	0	+				

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 2104L

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
64	32	23	1.3	368	0	2			0	0					VP(c)
* 65	59	49	1.2	1445	1	1			2	1	+				P(c)
* 66	62	53	1.1	1643	1	1			0	0	+				P(c)
* 67	67	42	1.5	1407	1	0			1	0	+				AV(s)
68	104	69	1.5	3588	0	1			2	2					
* 69	83	67	1.2	2780	0	1			0	0	+				
* 70	123	72	1.7	4428	1	1			0	0	+		+	+	
71	61	41	1.4	1250	1	1			2	1	+				VP(c)
72	51	33	1.5	841	1	1			0	0					
* 73	128	69	1.8	4416	1	1			1	0	+				
74	100	66	1.5	3300	1	1			0	0	+				AV(s)
75	43	33	1.3	709	0	1			0	0					VP(s)
76	63	50	1.2	1575	1	1			3	3					
77	* 62	45	1.3	1395	2	1			0	0	+				VP(s)
* 78	* 80	63	1.2	2520	2	1			2	1					AV(s), VP(c)
79	51	40	1.2	1020	2	1			1	0					
80	57	28	2.0	798	0	1			2	1	+				VP(c)
* 81	70	46	1.5	1610	1	1			1	0	+				VP(s)
82	89	54	1.6	2403	0	1			1	1	+				
83	70	45	1.5	1575	2	1			2	2	+				AV(c), VP(c)
84	* 59	49	1.2	1445	1	0			3	3					

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 2104L

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
85	63	46	1.3	1449	1	1			0	0	+				
86	102	67	1.5	3417	0	1			1	1					VP(s)
87	76	59	1.2	2242	1	1			0	0	+				
* 88	109	77	1.4	4196	1	1			1	0	+				
89	77	52	1.4	2002	0	1			0	0	+				
* 90	52	44	1.1	1144	0	1			0	0	+				
91	71	*43	1.6	1526	1	1			3	2					A(c)
* 92	57	43	1.3	1225	0	1			2	2					
93	56	39	1.4	1092	1	1			3	1					V(s)
* 94	120	81	1.4	4860	1	0			2	2	+				VP(s)
95	115	75	1.5	4312	2	1			2	0	+				P(c)
* 96	99	68	1.4	3366	1	1			2	2					VP(c)
97	46	28	1.6	644	0	1			0	0					
98	*91	66	1.3	3003	2	2			1	0					
99	109	61	1.7	3324	0	1			0	0	+				
100	*84	57	1.4	2394	1	1			2	1					V(c)
101	83	52	1.5	2158	1	1			2	2					
102	88	61	1.4	2684	0	1			3	2					
103	69	63	1.0	2173	1	1			3	3					V(c), P(c)
104	67	48	1.3	1608	0	1			1	0	+				
105	42	29	1.4	609	1	1			0	0	+				V(c)

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 2104L

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
106	77	60	1.2	2310	1	1			0	0	+				
107	79	47	1.6	1856	0	0			0	0	+				P(s)
*108	93	*52	1.7	2418	1	1			0	0	+				A(s)
109	87	52	1.6	2262	2	1			1	1					VP(c)

Site 18CU271
Unit 211 4E

	Rags 0	Rags 1	Rags 2	Dust Att. 0	Dust Att. 1	Dust Att. 2	Dust Att. 3	Bar n	Mus n	S Bor 0	S Bor 1	S Bor 2	S Bor 3	L. Bor 0	L. Bor 1	L. Bor 2	L. Bor 3	Mud n	Drill n	Burn n	Edge Damage D	Edge Damage A	Edge Damage AU	Edge Damage U	Edge Damage UP	Edge Damage P	no Dam	Shade S	Shade C	Shade J	Shade K
1-21	5	15	1	0	16	5	0	1	0	13	5	1	2	17	2	1	1	20	0	2	0	3	0	5	3	2	11	1	10	0	2
22-42	9	8	4	2	18	1	0	0	0	8	6	4	3	17	1	3	0	20	1	5	0	2	6	1	2	5	9	6	10	0	0
43-63	14	6	1	1	17	3	0	0	0	10	7	3	1	17	2	1	1	14	1	11	0	3	4	4	4	4	7	12	5	0	1
64-84	10	10	1	1	18	1	1	0	0	0	3	1	2	20	0	1	0	17	1	6	0	2	1	4	5	3	7	8	8	0	1
85-90	2	3	1	0	5	1	0	0	0	3	2	1	0	4	1	1	0	5	0	2	0	0	2	2	1	1	1	3	3	0	0
Total	40	42	8	4	74	11	1	1	0	34	23	10	8	75	6	7	2	76	3	26	0	10	13	16	15	15	35	30	36	0	4
%	44	47	9	4	82	12	1	1	0	37	26	11	9	83	7	8	2	84	3	29	0	11	14	18	17	17	39	33	40	0	4

	Ratio		Area		
	Σx	Σx^2	Σy	Σy^2	Σxy
1-21	26.7	36.53	35713	70537499	44459.6
22-42	28.2	38.56	31275	50846449	42683.5
43-63	30.3	44.91	30776	81791044	42625.5
64-90	37.6	53.44	27889	32757427	38226.6
	122.8	173.44	125653	235932419	167995.2

Ratio		Area	
$\bar{x}$	1.36	$\bar{x}$	1396.14
s	0.26	s	824.50

r -.1829

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 2114 E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
1	75	57	1.3	2137	1	1			1	0					V(c)
2	81	66	1.2	2673	1	2	+		3	0	+				
3	75	53	1.4	1987	1	2			3	1	+				
4	74	52	1.4	1924	0	0			1	3	+				
5	69	58	1.1	2001	0	1			0	0	+				
6	63	43	1.4	1354	1	1			2	0	+				
7	88	65	1.3	2860	1	1			0	0	+				VP(c)
8	*59	50	1.1	1475	0	1			1	0	+				V(K)
9	79	*38	2.0	1501	1	2			1	0	+				A(c), P(c)
10	85	70	1.2	2975	1	1			0	2	+				
11	*58	51	1.1	1479	2	1			0	0	+				V(c)
12	56	41	1.3	1148	1	1			0	0	+				
13	72	45	1.6	1620	0	1			0	0	+				
14	63	42	1.5	1323	1	1			0	0	+				V(c)
15	90	64	1.4	2880	1	2			0	0	+				P(c), A(K)
16	52	34	1.5	884	1	1			0	0	+			+	A(s), VP(c)
17	51	37	1.3	943	0	2			1	0	+				VP(c)
18	48	37	1.2	888	1	1			0	1	+				
19	68	56	1.2	1904	1	1			0	0	+			+	V(c)
20	44	31	1.4	682	1	1			0	0	+				
21	50	43	1.1	1075	1	1			0	0	+				

Oyster Shell Analysis

Site 18CV271

Unit/Stratum 2114E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
22	44	29	1.5	638	0	1			3	2	+				V(c), VP(s)
23	76	52	1.4	1976	0	0			3	0	+				A(c)
24	53	49	1.0	1298	0	1			0	0	+				
25	66	50	1.3	1650	2	1			0	0	+				
26	61	41	1.4	1250	0	1			1	0	+				
27	63	49	1.2	1543	1	1			0	0	+			+	AV(s), VP(s), P(c)
28	68	54	1.2	1836	1	1			1	0	+				P(c)
29	62	40	1.5	1240	0	1			0	0					
30	43	44	.97	946	0	1			1	0	+			+	AV(s)
31	63	42	1.5	1323	1	1			1	1	+				AV(c)
32	98	56	1.7	2744	1	1			1	2	+			+	P(c)
33	65	40	1.6	1300	0	1			0	0	+				P(c)
34	76	53	1.4	2014	1	0			3	0	+				
35	52	45	1.1	1170	1	1			2	0	+				
36	68	52	1.3	1768	2	1			2	0	+				AV(s)
37	66	46	1.4	1518	1	1			0	0	+				AV(c)
38	55	44	1.2	1210	2	1			0	0	+			+	P(c)
39	63	45	1.4	1417	1	1			0	0	+				
40	49	42	1.1	1029	0	1			2	0	+	+		+	
41	80	51	1.5	2040	0	2			2	2	+				
42	65	*42	1.5	1365	2	1			1	0	+				A(s), AV(c)

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 2114 E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
43	63	51	1.2	1606	1	2			0	0	+			+	
44	44	*22	2	484	0	1			3	1				+	P(s), V(s)
45	146	92	1.5	6716	0	1			1	0	+				AV(s)
46	82	66	1.2	2706	0	2			1	0	+				
47	63	52	1.2	1638	0	1			0	0	+				
48	67	44	1.5	1474	1	1			0	0				+	VP(s)
49	71	50	1.4	1775	0	1			2	3	+			+	V(c)
50	*46	*25	1.8	575	0	1			1	0				+	P(c), VP(c)
51	53	43	1.2	1139	0	1			1	0	+				
52	51	32	1.5	816	0	1			0	0	+				
53	69	58	1.1	2001	2	1			2	2					
54	*50	28	1.7	700	0	1			1	3				+	A(s), V(c)
55	44	28	1.5	616	1	1			1	0				+	AV(s)
56	53	*35	1.5	927	0	0			0	0					A(s), AV(s)
57	*51	37	1.3	943	0	2			1	1	+			+	V(s)
58	*40	21	1.9	420	0	1			2	2	+				A(s), VP(s)
59	37	24	1.5	444	1	1			0	0	+			+	VP(c)
60	54	38	1.4	1026	1	1			0	0	+	+		+	P(c)
61	*81	55	1.4	2227	0	1			0	0	+				AV(s)
62	56	43	1.3	1204	1	1			0	0	+			+	DP(K)
63	57	47	1.2	1339	1	1			0	0	+				

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 2114 E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
64	69	50	1.3	1725	1	1			1	0	+				P(c)
65	67	51	1.3	1708	0	1			3	0	+			+	VP(s)
66	72	54	1.3	1944	1	1			0	0	+			+	
67	57	32	1.7	912	1	1			0	0	+			+	P(c)
68	56	42	1.3	1176	1	1			0	0	+			+	
69	55	35	1.5	962	0	0			0	0	+				V(c)
70	69	49	1.4	1690	0	1			0	0	+				
71	34	33	1.0	561	0	1			1	0					
72	45	37	1.2	832	0	1			0	0	+				DP(k)
73	51	36	1.4	918	1	2			0	0	+				V(c)
74	63	50	1.2	1575	2	1			0	0	+				VP(c)
75	43	32	1.3	688	1	1			0	0	+				VP(s)
76	49	30	1.6	735	0	1			2	0	+			+	V(s), P(c)
77	48	30	1.6	720	1	1			0	0	+	+			
78	41	32	1.2	656	0	3			0	0					V(s)
79	55	42	1.3	1155	0	1			0	0	+			+	V(s), VP(s)
80	57	43	1.3	1225	0	1			3	2					A(c)
81	46	28	1.6	644	0	1			0	0	+				
82	57	38	1.5	1083	1	1			1	0	+				
83	51	35	1.4	892	1	1			0	0	+				AV(c)
84	40	22	1.8	440	1	1			0	0					A(s), VP(s)

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 2114E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
85	48	40	1.2	960	1	1			0	0	+			+	
86	56	39	1.4	1092	2	1			0	0	+				P(c)
87	47	40	1.1	940	0	1			1	2	+				V(c)
88	52	31	1.6	806	0	1			0	0					V(S)
89	52	*40	1.3	1040	1	2			1	1	+				AV(c)
90	*54	*30	1.8	810	1	1			2	0	+			+	AV(S), VP(S)

Site 18CU271
Unit 2210 F

	Rocks 0	1	2	Cyst Att. 0	1	2	3	Bar n	Mw n	S Bor. Sponge 0	1	2	3	L. Bor. Sponge 0	1	2	3	Mud n	Drill n	Burn n	Edge Damage D	A	AU	U	UP	P	no Pa.	Shape S	C	J
1-26	6	13	7	6	18	2	0	1	0	23	1	1	1	24	1	1	0	20	0	3	1	2	6	7	7	3	7	14	11	3
%	23	50	27	23	69	8	0	4	0	88	4	4	4	92	4	4	0	77	0	12	4	8	23	27	27	12	27	54	42	12

Σx 33.4 Σx^2 43.72 Σy 24982 Σy^2 31349270 Σxy 32641.8

$\bar{x}$ 1.28 S_x 0.18 $\bar{y}$ 960.85 S_y 542.05

Oyster Shell Analysis

Site

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Unit/Stratum

2210 F

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
1	*68	52	1.3	1768	1	1			0	0	+				V(c)
2	77	55	1.4	2117	0	1			2	2	+				V(c)
3	89	59	1.5	2625	2	1			0	0	+				V(c)
4	38	31	1.2	589	2	1			0	0					
5	39	36	1.0	702	2	1			0	0	+				AV(s)
6	41	37	1.1	758	1	1			0	0				+	AV(c), VP(c)
7	42	31	1.3	651	1	1			0	0	+				AV(v)
8	*55	*39	1.4	1072	0	1			0	0	+				V(s), P(s)
9	41	31	1.3	635	1	1			0	0	+			+	V(s), AV(s), VP(s)
10	*65	46	1.4	1495	1	1			0	0	+				
11	53	39	1.3	1033	2	2			1	0					A(c), VP(s)
12	46	*32	1.4	736	1	1			0	0	+				VP(c), V(c)
13	*53	39	1.3	1033	2	1			0	0	+				
14	43	33	1.3	709	1	1			0	0	+				V(s)
15	42	32	1.3	672	1	1			0	0					P(s)
16	*59	35	1.6	1032	0	0			3	1					D(s)
17	*62	*53	1.1	1643	0	1			0	0	+				AV(v), VP(v)
18	37	35	1.0	647	1	1			0	0					
19	*48	31	1.5	744	0	1			0	0	+				V(s), VP(s)
20	35	34	1.0	595	2	1			0	0	+				
21	46	33	1.3	759	1	1			0	0	+				VP(s)

Oyster Shell Analysis

Site 18CV271

Unit/Stratum 22101F

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
22	36	32	1.1	576	2	1	+		0	0	+			+	A(s)
23	42	32	1.3	672	0	0			0	0	+				
24	41	36	1.1	738	1	1			0	0	+				AV(c), V(c)
25	29	17	1.7	246	1	1			0	0	+				
26	42	35	1.2	735	1	2			0	0	+				P(c)

Site 18 CU 271
Unit 22 15 E

		Rad s			Ast Ath.				Bar	Mu	S Bor Spruce				L. Bor Spruce				Mud	Dill	Burn	Edge Damage							no Shade				
		0	1	2	0	1	2	3	n	n	0	1	2	3	0	1	2	3	n	n	n	D	A	AU	U	UP	P		S	C	J	K
1 -	21	14	6	1	5	14	2	0	1	0	7	5	3	6	12	2	6	1	16	7	0	0	1	4	1	5	0	11	6	4	1	0
22	42	13	7	1	1	16	4	0	0	0	10	4	6	1	17	3	1	0	14	1	0	0	0	4	1	0	1	16	4	2	0	0
43	63	15	4	2	1	19	1	0	0	0	15	1	2	3	17	3	1	0	13	2	0	0	2	1	2	1	3	13	4	5	0	0
64 -	84	11	9	1	5	13	2	1	0	0	6	4	3	8	10	3	7	1	17	2	0	0	2	2	5	1	0	12	4	5	1	0
85	105	9	10	2	2	19	0	0	0	0	9	2	2	8	13	2	6	0	18	1	1	0	0	2	3	1	0	15	3	2	1	0
106	126	14	3	4	1	18	2	0	0	0	13	2	3	3	15	5	1	0	19	2	0	0	2	2	3	4	0	11	5	4	1	0
127	147	15	4	2	5	16	0	0	0	0	10	5	5	1	17	1	2	1	16	5	2	0	2	1	2	2	1	14	2	4	1	1
148	167	13	6	1	3	18	1	0	1	0	14	3	2	1	19	1	0	0	12	4	0	1	1	5	3	3	3	8	8	7	2	0
	n	104	49	14	23	131	12	1	2	0	84	26	26	31	120	20	24	3	125	24	3	1	12	21	20	17	8	100	36	33	7	1
	%	62	29	8	14	78	7	1	1	0	50	16	16	19	72	12	14	2	75	14	2	1	7	13	12	10	5	60	22	20	4	1

	Radio		Area		
	Σx	Σx^2	Σy	Σy^2	Σxy
1-21	31.9	49.67	42131	97107331	63764.1
22-42	31.5	48.45	31392	56202208	47643.1
43-63	31.6	48.96	17397	15989675	26496.2
64-84	33.3	53.93	51674	160331372	84729.6
85-105	31.9	49.23	54940	161190356	83510.9
106-126	31.2	47.68	33511	56025119	49755.1
127-147	31.1	46.71	27383	38120549	40624.0
148-167	28.1	40.15	20394	22699952	28997.6
	250.3	384.78	278822	607666562	425520.6

	$\bar{x}$	$\bar{y}$
$\bar{x}$	1.50	1669.59
s	0.24	925.37

$r = 2060$

Oyster Shell Analysis

Site 18CV271

Unit/Stratum 2215 E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
1	80	47	1.7	1880	0	1	0		2	2	+	+			
2	90	53	1.6	2385	1	1			2	1	+				
3	93	72	1.2	3348	1	1	+		3	0	+	+			AV(c)
4	85	52	1.6	2210	0	1			0	0	+				
5	68	43	1.5	1462	0	0			3	0	+	+			
6	78	52	1.5	2028	0	1			1	3		+			
7	110	76	1.4	4180	1	1			0	0	+				V(s), VP(s)
8	98	50	1.9	2450	0	2			3	2		+			
9	66	32	2.0	1056	0	0			0	0	+				
10	69	35	1.9	1207	0	0			0	0	+				
11	80	57	1.4	2280	2	1			0	0	+				VP(c)
12	97	57	1.7	2764	0	1			1	0	+				VP(v)
13	95	48	1.9	2280	0	1			3	1	+				VP(s)
14	74	52	1.4	1924	0	0			3	2		+			AV(s)
15	61	44	1.3	1342	0	1			2	0		+			
16	53	43	1.2	1139	1	1			1	2					AV(s)
17	66	48	1.3	1584	0	0			1	0	+				
18	61	44	1.3	1342	1	2			0	0	+				VP(c)
19	66	48	1.3	1584	0	1			0	0	+				
20	56	40	1.4	1120	1	1			1	2	+				AV(s)
21	87	59	1.4	2566	0	1			3	2	+				A(c)

Oyster Shell Analysis

Site 18CV271

Unit/Stratum 2215E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
22	82	44	1.8	1804	1	1			1	0	+				
23	99	70	1.4	3465	1	1			3	0	+				
24	67	45	1.4	1507	1	2			2	2	+				
25	67	49	1.3	1641	1	1			0	0	+				
26	*65	*40	1.6	1300	0	1			2	1	+				V(s), P(s)
27	49	51	.96	1249	2	1			0	0					
28	58	49	1.1	1421	0	1			0	0	+				
29	91	51	1.7	2320	0	1			0	0	+				AV(c)
30	64	54	1.1	1728	1	1			0	0					
31	82	50	1.6	2050	0	1			2	0	+				
32	61	38	1.6	1159	1	2			1	0					AV(s)
33	71	44	1.6	1562	0	2			0	0					AV(s)
34	93	50	1.8	2325	0	1			1	0	+				
35	54	33	1.6	891	0	1			1	0	+	+			
36	86	45	1.9	1935	0	1			2	1	+				
37	54	36	1.5	972	0	1			0	0					AV(c)
38	57	33	1.7	940	1	2			2	1	+				
39	52	35	1.4	910	0	1			0	0					
40	59	33	1.7	973	0	1			0	0	+				
41	46	33	1.3	759	0	1			2	0	+				
42	37	26	1.4	481	0	0			0	0					

Oyster Shell Analysis

Site 18CV271

Unit/Stratum 2215E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
43	34	27	1.2	459	1	1			0	0					
44	52	34	1.5	884	0	1			0	0	+				
45	77	41	1.8	1578	0	1			0	0	+				
46	54	38	1.4	1026	0	1			0	0	+				A(c)
47	58	39	1.4	1131	1	1			2	1					V(c), AV(c)
48	61	39	1.5	1189	0	2			0	0	+				
49	53	23	2.3	609	0	1			3	1	+				VP(s)
50	55	34	1.6	935	0	1			2	1	+				
51	50	35	1.4	875	0	1			3	2	+	+			P(c)
52	52	*37	1.4	962	2	1			0	0					P(s)
53	48	39	1.2	936	2	1			0	0	+				
54	62	34	1.8	1054	0	1			0	0	+				A(s)
55	36	26	1.3	468	0	0			0	0					
56	*51	27	1.8	688	0	1			1	0	+				V(s)
57	48	27	1.7	648	0	1			0	0	+				
58	47	35	1.3	822	1	1			0	0					
59	37	27	1.3	499	0	1			0	0					DP(c)
60	33	27	1.2	445	0	1			3	0	+	+			
61	45	30	1.5	675	1	1			0	0					
62	50	31	1.6	775	0	1			0	0	+				
63	46	32	1.4	736	0	1			0	0					

Oyster Shell Analysis

Site 18CV271

Unit/Stratum 2215E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
64	39	29	1.3	565	0	1			0	0	+				
65	54	28	1.9	756	0	1			0	0					A(S)
66	60	52	1.1	1560	0	0			0	0	+	+			V(c)
67	*58	*47	1.2	1363	0	1			0	0	+				V(c)
68	119	66	1.8	4462	1	2			1	0	+				
69	129	75	1.7	4837	1	2			3	2	+				
70	95	55	1.7	2612	0	1			0	0	+				
71	93	62	1.5	2883	0	1			2	2	+				AV(S)
72	127	72	1.7	4572	1	0			3	2	+				
73	107	61	1.7	3263	1	1			3	2					
74	92	68	1.3	3128	2	1			2	1	+	+			
75	84	54	1.5	2268	1	1			3	0	+				
76	82	*47	1.7	1927	0	0			3	1	+				VP(S), V(V)
77	72	44	1.6	1584	1	1			1	1	+				
78	67	41	1.6	1373	1	1			1	0	+				
79	70	46	1.5	1610	0	0			0	3	+				V(c)
80	67	49	1.3	1641	0	1			1	0	+				A(c)
81	119	64	1.8	3808	0	3			3	2	+				AV(S)
82	105	65	1.6	3412	1	1			2	2	+				
83	92	51	1.8	2346	0	1			3	2					V(c)
84	104	52	2	2704	1	0			3	0					

Oyster Shell Analysis

Site 18CV271

Unit/Stratum 2215E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
85	93	66	1.4	3069	0	1			1	0	+				V(S)
86	85	48	1.7	2040	1	0			3	2	+				
87	110	55	2	3025	0	0			0	0	+				
88	111	63	1.7	3496	1	1			3	0	+				
89	118	84	1.4	4956	1	1			3	2	+				AV(c)
90	95	52	1.8	2470	0	1			3	0	+	+			
91	92	63	1.4	2898	1	1			3	2	+				
92	88	51	1.7	2244	1	1			0	0	+				V(c)
93	73	46	1.5	1679	0	1			0	0	+				
94	66	47	1.4	1551	0	1			0	0	+				
95	57	39	1.4	1111	0	1			0	0					V(S)
96	86	55	1.5	2365	1	1			3	1					
97	66	60	1.1	1980	1	1			3	2	+				
98	88	49	1.7	2156	0	1			0	0					
99	114	76	1.5	4332	1	1			3	2	+				
100	96	68	1.3	3060	2	1			1	0	+			+	AV(V)
101	91	56	1.6	2548	2	1			2	1	+				
102	83	53	1.5	2199	1	1			0	0	+				VP(S)
103	67	43	1.5	1440	0	1			0	0	+				
104	98	66	1.4	3234	1	1			2	2	+				
105	95	65	1.4	3087	0	1			0	0	+				

Oyster Shell Analysis

Site 18CV271

Unit/Stratum 2215E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
106	86	53	1.6	2279	0	1			3	2	+				VP(c)
107	*84	45	1.8	1890	0	1			1	0	+				V(s)
108	67	49	1.3	1641	2	1			0	0	+				
109	56	44	1.2	1232	1	1			0	0					
110	62	42	1.4	1302	0	1			0	0	+				
111	73	54	1.3	1971	0	1			3	1	+				V(s)
112	60	42	1.4	1260	0	1			0	0	+				
113	77	50	1.5	1925	0	1			0	0	+				AV(v)
114	68	42	1.6	1428	0	1			2	1					
115	77	35	2.2	1347	2	1			2	0	+				A(c)
116	75	43	1.7	1612	0	1			0	0	+				
117	77	56	1.3	2156	0	1			0	0	+				
118	64	53	1.2	1696	0	1			0	0	+				V(c)
119	64	42	1.5	1344	0	1			0	0	+				
120	65	41	1.5	1332	0	1			2	1	+	+			
121	50	39	1.2	975	2	0			2	0	+				
122	81	48	1.6	1944	0	1			0	0	+				
123	62	42	1.4	1302	1	2			3	1	+	+			VP(c)
124	65	51	1.2	1657	2	1			0	0	+				AV(s)
125	69	36	1.9	1242	1	2			1	1	+				VP(s)
126	76	52	1.4	1976	0	1			0	0	+				A(s), VP(s)

Oyster Shell Analysis

Site 18CV271

Unit/Stratum 2215E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
127	76	44	1.7	1672	0	1			2	3		+			VP(c)
128	60	43	1.3	1290	0	1			0	0	+				
129	66	46	1.4	1518	0	0			0	0					V(c), VP(v)
130	79	54	1.4	2133	1	1			1	2	+	+			
131	73	46	1.5	1679	0	1			2	0	+	+			
132	72	49	1.4	1764	0	0			3	0	+	+			
133	59	41	1.4	1209	1	1			1	1	+				
134	72	40	1.8	1440	0	1			2	0	+	+			
135	66	41	1.6	1353	0	1			0	0	+				
136	66	44	1.5	1452	1	1			1	0	+				
137	57	40	1.425	1140	0	1			1	0					
138	74	45	1.6	1665	0	1			0	0	+			+	
139	62	35	1.7	1085	0	0			0	0	+				A(c)
140	55	41	1.3	1127	0	1			0	0	+				
141	49	47	1.0	1151	2	1			0	0					
142	52	30	1.7	780	0	0			1	0	+				P(K)
143	63	39	1.6	1228	0	1			0	0	+				
144	50	32	1.5	800	1	1			0	0	+			+	A(c)
145	54	36	1.5	972	0	1			2	0					V(s)
146	53	38	1.3	1007	0	0			2	2	+				
147	51	36	1.4	918	2	1			0	0	+				AV(s)

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 2215E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
148	54	43	1.2	1161	1	1			0	0					P(c)
149	47	34	1.3	799	0	1			0	0					
150	53	40	1.3	1060	0	1			0	0	+				
151	64	49	1.3	1568	2	1			3	0	+	+			
152	*67	39	1.7	1306	0	1			0	1	+	+			V(c)
153	49	35	1.4	857	0	1	+		0	0					AV(s)
154	50	43	1.1	1075	0	1			0	0	+				
155	68	*39	1.7	1326	0	1			1	0					P(s), A(c), AV(s), V(s)
156	66	39	1.6	1287	0	1			1	0	+				
157	49	36	1.3	882	0	1			2	0	+				
158	55	35	1.5	962	0	1			0	0	+				VP(s), V(s)
159	39	26	1.5	507	1	1			0	0					P(c)
160	63	39	1.6	1228	0	1			0	0	+	+			
161	39	26	1.5	507	0	0			0	0	+	+			
162	41	*29	1.4	594	0	1			0	0					VP(s)
163	*49	35	1.4	857	1	0			0	0					D(c)
164	46	36	1.2	828	1	1			1	0					AV(v)
165	75	44	1.7	1650	1	0			2	0	+				VP(c)
166	46	38	1.2	874	0	1			0	0	+				AV(c)
167	52	41	1.2	1066	1	2			6	0	+				AV(s)

Site 18CV271
Unit 2608E

	Rads			Cyst Attn.				Bar	Mud	S Bor Sponge				L. Bor Sponge				Mud	Drill	Burn	Edge Damage						No Pan	Shave			
	0	1	2	0	1	2	3	n	n	0	1	2	3	0	1	2	3	n	n	n	D	A	AV	V	VP	P		S	C	J	K
1-21	6	11	4	1	18	2	0	0	1	4	5	7	5	15	3	2	1	13	2	0	0	0	2	1	1	2	14	2	4	0	1
22-42	11	8	2	0	16	5	0	1	0	7	2	5	7	15	2	3	1	17	2	0	0	0	6	1	1	3	12	3	7	0	0
43-63	6	12	3	0	14	7	0	2	0	6	4	6	5	15	3	3	0	15	2	0	0	1	4	5	0	4	10	4	10	0	1
64-66	0	3	0	1	2	0	0	0	0	1	1	0	1	3	0	0	0	2	0	1	0	1	1	0	1	0	1	3	0	0	0
Tot																															
96	23	34	9	2	50	14	0	3	1	18	12	18	18	48	8	8	2	47	6	1	0	2	13	7	3	9	37	12	21	0	2
	35	52	14	3	76	21	0	5	1	27	18	27	27	73	12	12	3	71	9	2	0	3	20	11	5	14	56	18	32	0	3

	Ratio		Area		
	Σx	Σx^2	Σy	Σy^2	Σxy
1-21	28.7	39.91	56680	175743626	75633.6
22-42	30.9	46.55	57589	182007605	87992.5
43-66	35.2	52.44	53604	144168856	78478.5
	94.8	138.9	167873	501920087	242099.6

	Ratio		Area
$\bar{x}$	1.44	$\bar{x}$	2543.53
s	0.21	s	1073.67

r .0680

1/2 sample of left vales were analysed

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 2608E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
1	105	78	1.3	4095	1	1			1	0					
2	64	47	1.3	1504	0	1			0	0	+				
3	104	83	1.2	4316	2	0			2	0	+				
4	111	95	1.1	5272	1	1			1	0	+				
5	105	64	1.6	3360	1	1			3	2					V(c)
6	86	66	1.3	2838	1	2			0	0	+				
7	81	75	1.0	3037	1	1			1	0					P(c)
8	100	74	1.3	3700	2	1			0	0					P(c)
9	96	70	1.3	3360	0	1			3	0	+				VP(s)
10	85	54	1.5	2295	2	1			2	2	+	+			
11	105	64	1.6	3360	1	2			1	0					
12	78	56	1.3	2184	2	1		+	2	0					
13	69	45	1.5	1552	1	1			3	1	+				
14	81	48	1.6	1944	0	1			2	3					AV(c)
15	77	46	1.6	1771	1	1			2	1	+				DP(K)
16	87	61	1.4	2653	0	1			3	2	+				
17	57	33	1.7	940	0	1			0	0					
18	73	56	1.3	2044	1	1			3	0	+				
19	77	60	1.2	2310	1	1			2	1	+	+			
20	82	55	1.4	2255	0	1			1	0	+				
21	70	54	1.2	1890	1	1			2	0	+				AV(s)

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 2608E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
22	122	66	1.8	4026	0	2			0	0	+				AV(c)
23	64	55	1.1	1760	1	1			0	0	+				
24	104	60	1.7	3120	1	1			2	0		+			AV(c), P(c)
25	60	45	1.3	1350	2	1			0	0					
26	101	70	1.4	3535	0	2			3	0	+				
27	106	71	1.4	3763	1	2	+		2	2	+				VP(S)
28	109	62	1.7	3379	0	1			0	0	+				
29	66	42	1.5	1386	0	2			1	0	+				
30	82	50	1.6	2050	1	1			2	0	+				
31	146	77	1.8	5621	1	1			2	0	+				
32	102	69	1.4	3519	2	1			0	0	+				AV(S)
33	84	47	1.7	1974	0	1			3	0	+				V(S)
34	88	57	1.5	2508	0	1			2	3	+				
35	71	55	1.2	1952	0	1			0	0					AV(c)
36	72	56	1.2	2016	0	2			3	0	+				
37	108	62	1.7	3348	1	1			3	1	+				
38	50	44	1.1	1100	0	1			2	2	+				
39	108	64	1.6	3456	0	1			3	2	+	+			
40	75	60	1.2	2250	1	1			3	0	+				AV(c), P(c)
41	104	58	1.7	3016	0	1			3	0	+				AV(v)
42	80	59	1.3	2360	1	1			1	1					P(c)

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 2608 E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
43	130	83	1.5	5395	0	2			0	0	+				
44	100	62	1.6	3100	2	1			3	2	+	+			AV(c)
45	98	71	1.3	3479	2	1	+		1	0	+				
46	103	68	1.5	3502	1	1			0	0	+				
47	88	68	1.2	2992	1	1			2	0	+				
48	98	63	1.5	3087	2	2			0	0					P(s)
49	103	55	1.8	2832	0	2			3	1	+				
50	87	56	1.5	2436	1	1			0	0	+	+			P(c), V(c)
51	56	42	1.3	1176	1	2			3	0	+				V(c)
52	79	53	1.4	2093	1	2			1	0					A(c), AV(s)
53	76	37	2.0	1406	0	1			2	0	+				
54	60	34	1.7	1020	0	1			1	1					
55	61	40	1.5	1220	1	2			0	0					V(c)
56	81	54	1.5	2187	1	1			2	0	+				P(c)
57	86	48	1.7	2064	1	1			3	0	+				V(K)
58	70	48	1.4	1680	1	2			2	2	+				P(c)
59	66	47	1.4	1551	0	1	+		3	0	+				
60	75	55	1.3	2062	0	1			0	0					AV(c), P(c)
61	85	61	1.3	2592	1	1			2	1	+				
62	61	43	1.4	1311	1	1			1	0	+				
63	*57	*41	1.3	1168	1	1			2	2					AV(s), V(s)

Oyster Shell Analysis

Site

18CU271

Unit/Stratum

2608E

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
64	67	44	1.5	1474	1	0			1	0					Av(s), VP(s)
65	58	44	1.3	1276	1	1			0	0	+			+	
66	82	61	1.3	2501	1	1			3	0	+				A(s)

Site 18CU271
Unit 2608J

		Rads			Gast Att.				Bar	Mus	S Bor. Sponge				L. Bor. Sponge				Mud	Drill	Burn	Edge Damage						No Shave				
		0	1	2	0	1	2	3	n	n	0	1	2	3	0	1	2	3	n	n	n	0	A	AV	V	VP	P	Dam	S	C	V	K
1	21	9	7	5	1	15	5	0	0	0	8	5	4	4	12	3	4	2	16	1	0	0	1	3	4	1	1	8	3	10	0	2
22	42	10	7	4	0	19	2	0	1	0	10	6	2	3	14	1	5	1	18	0	0	0	2	3	2	2	4	8	4	6	1	3
43	63	10	10	1	0	17	4	0	0	0	10	4	2	5	16	2	3	0	14	0	0	0	2	3	2	5	4	6	7	7	0	1
64	84	10	9	2	1	17	3	0	0	0	10	3	1	7	16	0	4	1	13	1	1	1	1	5	5	1	3	7	9	5	0	2
Tot		39	33	12	2	68	14	0	1	0	38	18	9	19	58	6	16	4	61	2	1	1	6	14	13	9	12	29	23	28	1	8
	30	46	39	14	2	81	17	0	1	0	45	21	11	23	69	7	19	5	73	2	1	1	7	17	15	11	14	35	23	33	1	10

Ratio

	Σx	Σx^2	Σy	Σy^2	Σxy
1-21	29.8	43.14	43389	111180057	59996.3
22-42	28.1	38.01	44556	114681674	59258.8
43-63	30.9	46.69	35786	76656572	51905.2
64-84	29.2	41.38	25637	38488159	35692.9
	118.0	169.22	149368	341006462	206853.2

$\bar{x}$ 1.40

S 0.20

$\bar{x}$ 1778.19

S 953.13

r -.1841

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 2608J

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
1	72	58	1.2	2088	2	1			0	0	+				
2	71	58	1.2	2059	1	1			0	0	+				
3	70	41	1.7	1435	1	0			2	3					
4	74	59	1.2	2183	0	1			3	2	+				V(c)
5	80	56	1.4	2240	1	1			3	2	+				P(c)
6	92	71	1.2	3266	1	1			1	0	+				
7	58	36	1.6	1044	1	1			0	0	+				AV(K)
8	74	42	1.7	1554	0	2			3	1					AV(c)
9	77	59	1.3	2271	1	1			0	0	+				P(c)
10	58	39	1.4	1131	0	1			0	0					V(c), VP(c)
11	73	54	1.3	1971	2	1			2	0	+				P(c), PD(c)
12	54	39	1.3	1053	2	2			1	1	+				
13	84	57	1.4	2394	0	2			0	0	+				V(c)
14	82	58	1.4	2378	2	1			2	2	+				
15	61	35	1.7	1067	0	1			1	0	+				P(s)
16	128	89	1.4	5696	1	1			0	0	+				
17	83	71	1.1	2946	2	1			3	2	+				P(c)
18	75	43	1.7	1612	0	2			0	0	+				A(s)
19	74	39	1.8	1443	0	2			1	0	+				V(s)
20	84	54	1.5	2268	0	1			2	3		+			AV(K)
21	60	43	1.3	1290	0	1			1	1					

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 2608J

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
22	79	48	1.6	1896	1	1			0	0	+				P(c)
23	74	55	1.3	2035	2	1	+		0	0					V(c)
24	64	51	1.2	1632	2	1			1	0	+				
25	64	46	1.3	1472	1	1			1	0	+				
26	54	48	1.1	1296	1	1			3	1					P(c)
27	104	68	1.5	3536	0	1			0	0	+				
28	82	61	1.3	2501	0	1			3	2	+				AV(S), VP(S)
29	68	40	1.7	1360	0	1			0	2	+				P(S)
30	73	49	1.4	1788	0	1			0	0	+				AV(V)
31	103	76	1.3	3914	1	1			2	0	+				
32	63	47	1.3	1480	1	1			0	0	+				V(c)
33	106	86	1.2	4558	0	1			0	0	+				P(K)
34	53	40	1.3	1060	0	1			0	0					P(c)
35	73	*51	1.4	1861	2	2			1	3	+				VP(S)
36	65	43	1.5	1397	0	1			3	2	+				
37	100	75	1.3	3750	0	2			0	0	+				AV(c)
38	72	60	1.2	2160	1	1			2	0	+				
39	61	47	1.2	1433	0	1			1	0	+				
40	85	62	1.3	2635	0	1			1	2	+				A(K)
41	68	50	1.3	1700	1	1			0	2	+				
42	56	39	1.4	1092	2	1			1	0	+				A(K)

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 2608J

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
43	67	43	1.5	1440	0	2			1	0	+				
44	70	42	1.6	1470	0	1			3	2	+				AV(c)
45	78	49	1.5	1911	1	1			2	0	+				A(s)
46	96	67	1.4	3216	0	2			1	0					VP(s)
47	90	65	1.3	2925	1	1			0	0	+				AV(c), VP(s),
48	80	50	1.6	2000	0	1			0	0					V(s)
49	62	47	1.3	1457	2	1			0	0					
50	62	57	1.0	1767	1	1			1	0	+				V(s)
51	62	38	1.6	1178	1	1			0	0	+				VP(c)
52	106	69	1.5	3657	1	2			0	0	+				P(s)
53	77	46	1.6	1771	1	1			3	1					P(c)
54	65	42	1.5	1365	1	1			0	1					
55	102	69	1.4	3519	0	1			2	2	+				AV(c)
56	62	31	2.0	961	1	1			3	0	+				A(s)
57	47	38	1.2	893	1	1			0	0	+				
58	53	41	1.2	1086	0	2			1	0	+				P(K)
59	55	45	1.2	1237	1	1			3	2	+				
60	70	34	2.0	1190	0	1			0	0	+				P(c),
61	56	43	1.3	1204	0	1			0	0					VP(s)
62	51	29	1.7	739	0	1			0	0					VP(c)
63	50	32	1.5	800	0	1			3	0	+				

Oyster Shell Analysis

Site 18CU271

Unit/Stratum 2608J

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
64	74	45	1.6	1665	1	1			3	0	+				V(S)
65	90	56	1.6	2520	0	2			3	2	+				AV(S)
66	74	57	1.2	2109	0	2			0	0					V(S)
67	49	35	1.4	857	0	1			3	0	+				
68	57	38	1.5	1083	1	1			0	0	+				
69	59	40	1.4	1180	1	1			0	0	+				
70	48	28	1.7	672	0	1			2	3	+				A(S)
71	33	28	1.1	462	1	1			1	0					V(C)
72	66	40	1.6	1320	1	1			3	2	+				AV(C)
73	*60	48	1.2	1440	2	1			0	0	+				V(C)
74	58	34	1.7	986	1	0			3	2					P(K)
75	36	32	1.1	576	0	1			0	0					AD(C)
76	72	57	1.2	2052	0	1			3	0		+			
77	72	47	1.5	1692	0	2			0	0	+				P(C)
78	*56	45	1.2	1260	1	1			0	0	+				AV(S), VP(S)
79	58	43	1.3	1247	1	1			3	2	+				AV(S), V(S)
80	67	54	1.2	1809	2	1			0	0	+				
81	31	20	1.5	310	0	1			0	0	+				
82	*56	35	1.6	980	0	1			1	0				+	AV(S)
83	42	31	1.3	651	1	1			1	0					P(K)
84	43	31	1.3	666	0	1			0	0					

Oyster Shell Analysis

Site 18CV279

Unit/Stratum Feature 8 Level 4 Cat # 268

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
1	183	79	2.3	7228	0	4	+		1	0	+				
2	179	91	1.9	8144	0	2			2	0	+				A(c)
3	124	65	1.9	4030	0	2			0	0	+				
4	105	69	1.5	3622	1	4			0	0	+				
5	95	69	1.3	3277	1	2			3	2	+				V(c)
6	91	64	1.4	2912	1	3			3	0	+		+		AV(c)
7	85	69	1.2	2932	1	1	+		2	1	+				VP(c)
8	105	59	1.7	3097	0	2	+		2	0	+				AV(c)
9	157	83	1.8	6515	1	1			2	2	+				AV(c), VP(s)
10	85	51	1.6	2167	1	2			2	0	+				P(c)
11	90	57	1.5	2565	0	3			3	2	+		+		
12	106	85	1.2	4505	1	2			1	0	+				
13	124	75	1.6	4650	0	2			1	0	+		+		V(c), VP(s)
14	134	81	1.6	5427	0	2			2	2	+		+		AD(c)
15	82	64	1.2	2624	2	4			2	1	+		+		
16	90	61	1.4	2745	1	2			2	0	+				AV(c)
17	120	80	1.5	4800	1	3			2	0	+			+	AV(s)
18	98	76	1.2	3724	0	3			0	0	+				V(c)
19	79	66	1.1	2607	1	5			2	0	+		+		AV(c), P(c)
20	94	67	1.4	3149	1	3			1	0	+				AV(s),
21	87	57	1.5	2479	1	1			2	0	+				P(c)

Oyster Shell Analysis

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Unit/Stratum Feature 8 Level 4 Cat # 268

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
22	74	64	1.1	2365	0	1			0	0	+				
23	80	64	1.2	2560	1	2			3	0	+				
24	69	50	1.3	1725	1	2			3	2	+				
25	86	54	1.5	2322	1	2			2	0	+			+	AV(s)
26	68	46	1.4	1564	0	1			0	0	+			+	AV(c)
27	73	49	1.4	1788	0	1			1	0	+				
28	82	51	1.6	2051	1	2			0	0	+				AV(c)
29	82	57	1.4	2337	0	2			1	0	+		+		AV(s)
30	82	57	1.4	2337	1	1			0	0	+				AV(c), VP(c)
31	61	43	1.4	1311	1	3			2	0	+				
32	66	45	1.4	1485	1	1			1	0	+				AV(c)
33	55	41	1.3	1127	1	1			3	0	+				AV(c)
34	63	47	1.3	1480	0	1			0	0	+		+		AV(c), VP(s)
35	64	35	1.8	1120	1	2			0	2	+				P(c)
36	61	43	1.4	1311	2	1			0	0					P(c)
37	71	48	1.4	1704	1	1			0	1	+				
38	50	39	1.2	975	0	1			0	0					AV(s)
39	54	46	1.1	1242	1	2			2	0	+			+	
40	75	40	1.8	1500	0	2			1	0					P(c), AV(c)
41	79	48	1.6	1896	1	2			3	1	+		+		AV(c)
42	72	47	1.5	1692	2	1			2	0	+				

Oyster Shell Analysis

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Unit/Stratum

Feature 8 Level 1

Cat #173

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
1	109	73	1.4	3978	1	3	+		2	2	+				
2	101	57	1.7	2878	1	1	+		3	2	+				VP(s)
3	110	74	1.4	4070	0	1			1	0	+				
4	128	82	1.5	5248	2	2			1	0	+		+		
5	72	45	1.6	1620	1	1			2	0					
6	63	37	1.7	1165	1	2			3	0	+				A(c), VP(s)
7	78	53	1.4	2067	1	1			0	0	+				AV(c), P(c)
8	59	46	1.2	1357	0	1			0	0	+				
9	101	82	1.2	4141	2	1			3	0	+				AV(s)
10	89	59	1.5	2625	1	1			2	2	+				V(c)
11	74	54	1.3	1998	0	1			1	0	+				
12	92	59	1.5	2714	1	1			2	0	+				VP(c), V(s)
13	76	46	1.6	1748	0	2			0	0	+				AV(s), VP(s)
14	78	59	1.3	2301	2	1			0	0	+				VP(s)
15	63	48	1.3	1512	0	2			0	0	+				V(c)
16	67	47	1.4	1574	1	1			2	1	+				P(c)
17	102	71	1.4	3621	1	1			0	0	+				VP(K)
18	93	67	1.3	3115	2	1			0	0	+				V(c)
19	86	59	1.4	2537	2	1			2	1	+				P(c)
20	124	77	1.6	4774	0	2			0	0	+				
21	85	57	1.4	2422	1	1	+		0	0	+				VP(s)

Oyster Shell Analysis

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Unit/Stratum

Feature 8 level 11
Cat #173

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
22	104	62	1.6	3224	1	1			0	0	+		+		AV(s)
23	89	58	1.5	2581	1	1	+		2	0	+				
24	91	66	1.3	3003	1	0			3	1					P(c)
25	118	65	1.8	3835	0	1			2	1	+				
26	105	73	1.4	3832	1	1			2	2	+				VP(c)
27	77	60	1.2	2310	2	1	+		0	0	+				
28	84	63	1.3	2646	1	6			0	1	+		+		V(c)
29	62	47	1.3	1457	2	2			1	0	+				
30	84	63	1.3	2646	1	1			1	0	+				VP(c)
31	107	68	1.5	3638	1	1	+		0	0	+				
32	68	48	1.4	1632	1	1	+		0	0	+				A(s), P(s)
33	82	57	1.4	2337	0	1			2	2	+				AV(s)
34	90	59	1.5	2655	2	1	+		0	0	+				
35	76	58	1.3	2204	0	1			0	0	+		+		
36	60	37	1.6	1110	0	1			0	0	+				
37	70	48	1.4	1680	0	1			0	0	+				
38	55	37	1.4	1017	1	1			0	0	+				V(s)
39	61	43	1.4	1311	0	1			0	0	+				P(c)
40	57	37	1.5	1054	0	2			0	0					V(c)
41	71	50	1.4	1775	0	1			2	0	+				V(s), VP(s)
42	65	37	1.7	1202	0	2			1	0	+				AV(s), VP(s)

Oyster Shell Analysis

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Unit/Stratum
Feature 8 Level 1
Cat #173

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
43	61	41	1.4	1250	1	1			0	0	+				
44	67	47	1.4	1574	1	1			0	0	+				V(S)
45	87	56	1.5	2436	1	1			0	0	+				
46	71	50	1.4	1775	1	2			0	0	+				
47	72	55	1.3	1980	1	3	+		0	0	+				V(C),
48	93	74	1.2	3441	2	2	+		0	0	+				
49	84	55	1.5	2310	1	1			0	0	+				VP(S), VP(C)
50	46	35	1.3	805	1	1			0	0	+				
51	80	54	1.4	2160	1	1			2	2	+				
52	78	55	1.4	2145	1	2	+		1	0	+				
53	75	47	1.5	1762	0	1			1	0	+		+		AV(S)
54	92	58	1.5	2668	1	3			1	1	+		+		V(C), P(C)
55	50	48	1.0	1200	0	2			0	0	+				
56	87	67	1.2	2914	2	1	+		2	2	+				
57	92	73	1.2	3358	1	1			1	0	+				
58	75	57	1.3	2137	1	1			0	0	+				
59	55	42	1.3	1155	1	1			0	0	+			+	AV(S) VP(S)
60	81	52	1.5	2106	1	1	+		0	0	+				VP(S)
61	70	49	1.4	1715	1	0			1	0	+				V(K), VP(C)
62	65	46	1.4	1495	1	2	+		0	0	+				
63	62	46	1.3	1426	0	1			0	0	+				AV(C)

Oyster Shell Analysis

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Unit/Stratum Feature 8 Level 1 Cat # 173

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
64	65	58	1.1	1885	1	1	+		0	0	+	+			V(c)
65	69	46	1.5	1587	0	1			0	0	+				P(c)
66	69	45	1.5	1552	0	1			0	0	+				A(K), VP(c)
67	63	46	1.3	1449	0	2			2	2	+				
68	52	36	1.4	936	0	2			2	2	+				A(s)
69	136	95	1.4	6460	1	2	+		2	1	+				
70	48	38	1.2	912	0	2			1	0					
71	43	38	1.1	817	0	0			0	0	+				V(s)
72	42	31	1.3	651	1	1			0	0				+	A(s), V(K)
73	49	32	1.5	784	0	2			0	0	+				
74	97	60	1.6	2910	1	3			1	0	+				V(c)
75	95	48	1.9	2280	1	1			3	0	+				V(c), VP(c)
76	166	107	1.5	8881	1	2			0	0	+				V(c), VP(s)
77	147	82	1.7	6027	0	2			0	0	+		+		AV(s)
78	81	71	1.1	2875	1	2			0	0	+				V(s)
79	112	64	1.7	3584	2	1			0	0	+				P(c)
80	67	44	1.5	1474	2	2			0	0	+				V(c), A(c)
81	70	53	1.3	1855	2	1			2	0	+				
82	82	75	1.0	3075	1	1			2	0	+				V(K), DP(K)
83	62	54	1.1	1674	2	2			0	0	+				AV(c)
84	62	41	1.5	1271	0	1			0	0	+				

Oyster Shell Analysis

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Unit/Stratum
Feature 8 Level 1
Cat #173

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
85	53	37	1.4	980	0	1			0	0	+				
86	78	53	1.4	2067	1	1			0	0	+				V(c), P(c)
87	51	47	1.0	1198	0	1			2	0	+		+		AV(s)
88	55	39	1.4	1072	1	1			0	0	+				AV(c)
89	91	78	1.1	3549	2	2	+		0	0	+				
90	61	46	1.3	1403	1	1			0	0					AV(c)
91	57	39	1.4	1111	1	2			1	0	+				AV(c)
92	93	81	1.1	3766	1	1			1	0	+				AV(s)
93	56	41	1.3	1148	0	1			0	0					
94	71	46	1.5	1633	1	1			0	0	+			+	AV(s)
95	100	58	1.7	2900	0	2			1	0	+				
96	71	51	1.3	1810	1	1			1	1	+				V(s)
97	100	66	1.5	3300	1	2			1	0	+		+		AV(c), VP(c)
98	104	77	1.3	4004	1	1			0	0	+				V(c),
99	83	65	1.2	2697	1	2			1	0	+				V(c)
100	81	57	1.4	2308	2	2			1	0	+				
101	91	58	1.5	2639	1	1			0	0	+			+	
102	63	41	1.5	1291	0	1			0	0	+				VP(s)
103	89	59	1.5	2625	1	1			0	0	+				V(c), P(c)
104	67	49	1.3	1641	0	1			0	0	+				VP(c)
105	85	69	1.2	2932	0	1			3	2	+				

Oyster Shell Analysis

Site
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Unit/Stratum
Feature 8 Level 1
Cat #173

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
106	83	55	1.5	2282	1	3			0	0	+				
107	88	58	1.5	2552	1	1			1	0	+				
108	91	63	1.4	2866	0	1			3	2	+				AV(s),
109	62	46	1.3	1426	2	1			0	0	+				
110	80	49	1.6	1960	1	2	+		0	0	+				V(c), P(c)
111	84	56	1.5	2352	0	1	+		0	0	+				
112	76	52	1.4	1976	0	1			0	0	+				AV(c)
113	125	73	1.7	4562	0	1			2	0	+		+		V(c), P(c)
114	69	55	1.2	1897	1	1			0	0	+				A(v),
115	82	48	1.7	1968	1	1			0	0	+				AV(s), V(s)
116	77	51	1.5	1963	1	1			1	0			+		
117	107	85	1.2	4547	1	2			0	1	+				V(c)
118	55	31	1.7	852	0	1			0	0	+			+	
119	64	54	1.1	1728	0	1			0	0	+				
120	70	43	1.6	1505	0	2			0	0	+				V(c), P(s)
121	35	33	1.0	577	0	1			0	0	+				
122	87	64	1.3	2784	0	1			2	0	+				
123	88	46	1.9	2024	1	2			0	0	+				P(s), AV(c)
124	76	60	1.2	2280	2	2			2	2	+				AD(c)
125	90	50	1.8	2250	0	1			2	0	+				A(c)
126	95	46	2.0	2185	0	1			0	0	+				AV(c)

Oyster Shell Analysis

Site
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Unit/Stratum
Feature 8 Level 1
Cat # 173

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
127	72	57	1.2	2052	2	1			0	0	+				VP(c), V(c)
128	73	56	1.3	2044	1	1			0	0	+	+			V(c)
129	65	44	1.4	1430	0	1			3	2					V(c), AV(s)
130	68	51	1.3	1734	1	2			0	0	+				V(c)
131	78	58	1.3	2262	0	2			3	0	+				V(c)
132	88	58	1.5	2552	1	1	+		3	2	+				AV(c), V(c)
133	107	75	1.4	4012	1	2			0	0	+				
134	87	51	1.7	2218	1	2			2	0	+				P(c)
135	103	78	1.3	4017	2	2			1	1	+		+		V(s)
136	72	56	1.2	2016	0	1			3	1	+				V(s)
137	76	57	1.3	2166	1	1			0	0	+		+		VP(c)
138	89	62	1.4	2536	1	1			2	2	+				VP(s)
139	70	50	1.4	1750	1	1			0	2	+				VP(s)
140	75	58	1.2	2175	2	1			0	0	+				
141	98	64	1.5	3136	1	1			0	0	+				A(s), V(s)
142	96	59	1.6	2832	2	1	+		1	0	+				
143	71	53	1.3	1881	1	2			0	0	+				A(c), AV(s), VP(c)
144	100	67	1.4	3350	1	1	+		0	0	+				AV(s)
145	78	54	1.4	2106	1	1			0	0	+				AV(s)
146	70	47	1.4	1645	1	1			0	0	+				V(c), P(c)
147	85	57	1.4	2412	0	1			0	0	+		+		AV(s)

Oyster Shell Analysis

Site
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Unit/Stratum
Feature 8 Level 1
Cat # 173

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
148	67	65	1.0	2177	0	1			1	0	+				AV(c), V(c)
149	73	52	1.4	1898	0	2			3	2					
150	83	60	1.3	2490	1	1			0	0	+				AV(c)
151	70	52	1.3	1820	1	1			0	0	+				
152	42	30	1.4	630	0	1			0	0					
153	73	55	1.3	2007	0	2			1	0	+				P(c)
154	68	44	1.5	1496	0	1			0	0	+				
155	67	45	1.4	1507	1	1			0	0	+				AV(s), V(c)
156	74	52	1.4	1924	1	1			1	0	+				V(c)
157	42	30	1.4	630	0	1	+		0	0				+	V(c)
158	78	54	1.4	2106	1	1			3	0	+				AV(s), P(c)
159	77	56	1.3	2156	1	2			0	0	+				VP(c)
160	71	51	1.3	1810	1	1			0	0	+				
161	84	68	1.2	2856	1	2			0	0	+				AV(s)
162	75	61	1.2	2287	1	1			1	0	+				VP(c)
163	82	53	1.5	2173	0	1			0	0	+				AV(c)
164	112	77	1.4	4312	1	1			0	0	+				AV(s), VP(c)
165	64	41	1.5	1312	1	2			0	0	+				
166	71	45	1.5	1597	1	2			0	0	+				
167	57	52	1.0	1482	0	1			1	0					V(s)
168	92	58	1.5	2668	1	1			2	0					

Oyster Shell Analysis

Site
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Unit/Stratum
Feature 8
Level 1 Cat #173

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
169	62	45	1.3	1395	2	2	+		0	0	+				
170	160	82	1.9	6560	0	3			2	1	+				
171	78	48	1.6	1872	1	1			0	0	+				AV(s), P(c)
172	44	39	1.1	858	1	1			0	0					
173	73	49	1.4	1788	2	1	+		1	0	+				V(c) AV(s)
174	85	47	1.8	1997	1	2			1	0	+				V(c)
175	47	32	1.4	752	0	1			0	0	+				
176	48	33	1.4	792	0	0			0	0					
177	42	42	1	882	0	1			0	0					
178	67	45	1.4	1507	0	1			0	0	+				
179	111	64	1.7	3552	1	2			0	0	+				
180	72	45	1.6	1620	1	1	+		0	0	+				P(s)
181	80	61	1.3	2440	1	1	+		0	0	+				V(s)
182	66	41	1.6	1353	1	1			0	0	+		+		V(c)
183	82	60	1.3	2460	1	1			0	0	+				
184	108	56	1.9	3024	1	1			0	0	+		+		
185	75	67	1.1	2512	1	1	+		1	0	+				V(s)
186	95	70	1.3	3325	0	2			2	1	+				P(c), V(c)
187	73	50	1.4	1825	1	2			1	0	+				
188	109	75	1.4	4087	1	3			2	1	+				AV(s)
189	75	54	1.3	2025	0	1			1	0	+				

Oyster Shell Analysis

Site
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Unit/Stratum
Feature 8
Level 1 Cat #173

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
190	101	69	1.4	3484	1	1	+		0	0	+				V(c)
191	85	69	1.2	2932	2	1			0	0	+				VP(c)

Oyster Shell Analysis

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Unit/Stratum Feature 8 Level 2 Cat #198

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
1	71	56	1.2	1988	1	2			0	0	+			+	V(c), VP(s)
2	142	83	1.7	5893	1	2	+		0	0	+				AV(c)
3	77	55	1.4	2117	1	3			2	0	+				
4	87	56	1.5	2436	0	1			1	0	+		+		AV(c)
5	68	36	1.8	1224	0	1			0	0	+				
6	75	54	1.3	2025	1	1			0	0	+				AV(c), VP(v)
7	77	64	1.2	2464	2	1			2	0	+				V(s)
8	127	72	1.7	4572	1	3			2	2	+				AV(c)
9	65	45	1.4	1462	1	1			1	0	+				A(c)
10	78	50	1.5	1950	1	1			2	0	+				A(c), AV(c)
11	72	52	1.3	1872	1	1			0	0	+				AV(c)
12	67	42	1.5	1407	0	1			1	0					
13	71	39	1.8	1384	0	2			2	2	+				AV(s)
14	124	61	2.0	3782	1	2	+		2	1	+				P(s)
15	49	38	1.2	931	1	1			0	0	+				
16	78	63	1.2	2457	1	1			0	0	+				VP(s)
17	47	46	1.0	1081	0	1			0	0	+				
18	71	42	1.6	1491	1	2	+		2	0	+				P(c)
19	69	44	1.5	1518	1	2			1	0	+				
20	80	66	1.2	2640	0	2			1	0	+		+		
21	72	55	1.3	1980	1	2	+		0	0	+				

Oyster Shell Analysis

Site 18CV279

Unit/Stratum Feature 8

Level 2 Cat #198

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
22	111	69	1.6	3829	0	2			3	2	+				
23	77	58	1.3	2233	0	1			0	0	+				P(c)
24	101	63	1.6	3181	1	2	+		1	0	+				AV(c)
25	59	44	1.3	1298	2	1			0	0	+		+		AV(s), P(s)
26	92	54	1.7	2484	0	1			1	0	+				
27	93	56	1.6	2604	0	1			1	0	+				VP(s)
28	91	66	1.3	3003	1	2	+		3	0	+			+	V(s)
29	68	60	1.1	2040	1	1			0	0	+				
30	72	44	1.6	1584	0	1			2	0					
31	88	64	1.3	2816	1	1	+		2	0	+				AV(s)
32	64	32	2.	1024	1	2			0	0	+				AV(s)
33	73	45	1.6	1642	1	1			2	1	+		+		V(c)
34	82	63	1.3	2583	1	1			0	0	+				V(c)
35	65	43	1.5	1397	0	2			2	0	+				P(c)
36	42	26	1.6	546	0	1			1	0					
37	56	38	1.4	1064	0	1			3	2	+			+	
38	82	63	1.3	2583	1	1	+		2	0	+				V(s), P(c)
39	84	58	1.4	2436	0	1			3	2	+				
40	92	65	1.4	2990	1	4	+		0	0	+				
41	136	82	1.6	5576	1	1	+		0	0	+				AV(s)
42	67	50	1.3	1675	1	1	+		2	0	+				V(s), VP(s)

Oyster Shell Analysis

Site 18CV279

Unit/Stratum Feature 8

Level 2 Cat #198

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
43	81	52	1.5	2106	1	1			0	0	+				V(c), VP(c)
44	70	54	1.2	1890	1	1			1	0	+				
45	65	44	1.4	1430	1	1			0	0	+				AV(c)

Oyster Shell Analysis

Site 18CV279

Unit/Stratum Feature 8

Level 3 Cat#273

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
1	80	66	1.2	2640	1	1			3	2	+		+		V(s)
2	94	61	1.5	2867	0	2			0	0	+				AV(s), VP(s)
3	76	43	1.7	1634	0	1			0	0	+				P(s)
4	78	53	1.4	2067	1	1	+		0	0	+				V(c)
5	82	64	1.2	2624	1	2			1	0	+				
6	96	83	1.1	3984	1	2	+		1	0	+				V(s), VP(s)
7	80	47	1.7	1880	0	2			3	2	+				AV(c), V(c)
8	58	52	1.1	1508	0	3			0	0	+				
9	79	62	1.2	2449	2	2			0	0	+			+	AV(s)
10	85	52	1.6	2210	1	7	+		2	0	+				V(c)
11	100	75	1.3	3780	0	3			3	0	+				V(c), P(c)
12	146	77	1.8	5621	0	2			0	0	+				VP(s)
13	94	62	1.5	2914	1	1			1	0	+		+		AV(c),
14	73	43	1.6	1569	1	3	+		0	0	+				AV(v)
15	60	47	1.2	1410	1	1			1	0	+				V(c)
16	94	74	1.2	3478	1	1			2	0	+				
17	71	51	1.3	1810	0	5			2	1	+				AV(c)
18	67	47	1.4	1574	0	2			1	0	+				AV(s), P(c)
19	54	36	1.5	972	0	1			2	0					
20	55	38	1.4	1045	0	1			1	0	+				
21	76	59	1.2	2242	1	3	+		0	0	+				V(c)

Oyster Shell Analysis

Site 18CV279

Unit/Stratum Feature 8 Level 3 Cat #273

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
22	80	53	1.5	2120	1	3			0	0	+				VP(s)

Oyster Shell Analysis

Site 18CV279

Unit/Stratum Feature 8 Level 4 Cat # 215

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
1	183	79	2.3	7228	0	4	+		1	0	+				
2	179	91	1.9	8144	0	2			2	0	+				A(c)
3	124	65	1.9	4030	0	2			0	0	+				
4	105	69	1.5	3627	1	4			0	0	+				
5	95	69	1.3	3277	1	2			3	0	+				V(c)
6	91	64	1.4	2912	1	3			3	0	+		+		AV(c)
7	85	69	1.2	2132	1	1	+		2	1	+				VP(c)
8	105	59	1.7	3097	0	2	+		2	0	+				AV(c)
9	157	83	1.8	4515	1	1			2	2	+				AV(c), VP(G)
10	85	51	1.6	2167	1	2			2	0	+				P(c)
11	90	57	1.5	2565	0	3			3	2	+		+		
12	106	85	1.2	4505	1	2			1	0	+				
13	124	75	1.6	4650	0	2			1	0	+		+		V(c), VP(G)
14	134	81	1.6	5427	0	2			2	2	+		+		AD(c)
15	82	64	1.2	2624	2	4			2	1	+		+		
16	90	61	1.4	2745	1	2			2	0	+				AV(c)
17	120	80	1.5	4800	1	3			2	0	+			+	AV(G)
18	98	76	1.2	3724	0	3			0	0	+				V(c)
19	79	66	1.1	2607	1	5			2	0	+		+		AV(c), P(c)
20	94	67	1.4	3149	1	3			1	0	+				AV(G),
21	87	57	1.5	2479	1	1			2	0	+				P(c)

Oyster Shell Analysis

Site 18CV279

Unit/Stratum Feature 8 level 4 Cat # 216

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
22	74	64	1.1	2365	0	1			0	0	+				
23	80	64	1.2	2561	1	2			3	0	+				
24	69	50	1.3	1725	1	2			3	2	+				
25	86	54	1.5	2322	1	2			2	0	+			+	AV(s)
26	68	46	1.4	1564	0	1			0	0	+			+	AV(c)
27	73	49	1.4	1788	0	1			1	0	+				
28	82	51	1.6	2051	1	2			0	0	+				AV(c)
29	82	57	1.4	2337	0	2			1	0	+		+		AV(s)
30	82	57	1.4	2337	1	1			0	0	+				AV(c), VP(c)
31	61	43	1.4	1311	1	3			2	0	+				
32	66	45	1.4	1485	1	1			1	0	+				AV(c)
33	55	41	1.3	1127	1	1			3	0	+				AV(c)
34	63	47	1.3	1480	0	1			0	0	+		+		AV(c), VP(s)
35	64	35	1.8	1120	1	2			0	2	+				P(c)
36	61	43	1.4	1311	2	1			0	0					P(c)
37	71	48	1.4	1704	1	1			0	1	+				
38	50	39	1.2	975	0	1			0	0					AV(s)
39	54	46	1.1	1242	1	2			2	0	+			+	
40	75	40	1.8	1500	0	2			1	0					P(c), AV(c)
41	79	48	1.6	1896	1	2			3	1	+		+		AV(c)
42	72	47	1.5	1692	2	1			2	0	+				

Oyster Shell Analysis

Site
18CV279

Unit/Stratum
Feature 8
Level 4 Cat # 268

Number	Height	Length	Ratio	Area	Rays	Oyster Att.	Barnicle Att.	Mussel Att.	S. Boring Sponge	L. Boring Sponge	Mudworm	Drill	Ectoprocts	Burned	Edge Damage
43	56	42	1.3	1176	1	2			1	0	+				
44	56	47	1.1	1316	0	2			0	0	+			+	V(s)
45	60	41	1.4	1230	2	1			2	0	+				
46	64	42	1.5	1344	1	2			0	0	+				AV(s)
47	52	37	1.4	962	0	1			1	0					P(s)
48	48	36	1.3	864	1	1			0	0	+				AV(s)
49	29	21	1.3	304	0	1			2	0					
50	39	28	1.3	546	0	1			1	1					