

APPENDIX E

STANDING CROP OF SOFT-SHELL CLAMS

Standing Crop of Soft-Shell Clams for Woodward Cove

Clam size in mm	Conv.Fact.	No/size	%/size	Bu/Ac/sz	Bu/Ac	Bushels	Harvestable Bushels
10-14	0.000	0.000	0	0.0	0.0	0	0
15-19	0.550	0.000	0	0.0	0.0	0	0
20-24	1.196	0.000	0	0.0	0.0	0	0
25-29	2.212	0.550	17	2.5	9.4	0	3
30-34	3.681	1.196	71	10.4	84.9	4	23
35-39	5.690	2.212	103	15.1	227.8	12	62
40-44	8.327	3.681	71	10.4	261.4	14	72
45-49	11.670	5.690	49	7.2	278.8	15	76
50-54	15.795	8.327	67	9.8	557.9	29	153
55-59	20.818	11.670	103	15.1	1202.0	63	329
60-64	26.801	15.795	92	13.5	1453.1	76	398
65-69	33.780	20.818	61	8.9	1269.9	67	348
70-74	41.980	26.801	31	4.5	830.8	44	227
75-79	51.356	33.780	15	2.2	506.7	27	139
80-84	61.881	41.980	2	0.3	84.0	4	23
Totals		682	100.0		356	1852	1134
% Bushels harvestable:							61.2

APPENDIX F

COMPARISONS OF SIMULATED SURVEY RESULTS

**Comparison of Results of Simulated Random Survey of the Entire Area
Using a Reduced Numbers Sampling Approaches**

	No. of clams	Bu/Ac	Total bu.	Harv. bu.
Based on 4 stations				
Trial 1	121	284	9389	6922
Trial 2	59	175	5788	4497
Trial 3	26	104	3425	2263
Mean	69	188	6201	4561
Based on 8 stations				
Trial 1	219	273	9017	6263
Trial 2	92	177	5851	4551
Trial 3	91	162	5347	3838
Mean	134	204	6738	4884
Based on 12 stations				
Trial 1	152	182	6012	4254
Trial 2	196	201	6635	4180
Trial 3	236	175	5783	3493
Mean	195	186	6143	3976
Entire flat survey results	1166	179	5923	4146

**Comparison of Results of Simulated Random Survey of the Moderate-Density Area
Using a Reduced Numbers Sampling Approaches**

	No. of clams	Bu/Ac	Total bu.	Harv. Bu.
Based on 4 stations				
Trial 1	63	231	3736	2904
Trial 2	88	336	5447	3948
Trial 3	159	376	6093	3916
Mean	103	314	5092	3589
Based on 8 stations				
Trial 1	209	276	4474	2854
Trial 2	176	299	4852	3610
Trial 3	202	276	4471	2748
Mean	196	284	4599	3071
Based on 12 stations				
Trial 1	349	296	4802	2984
Trial 2	307	330	5348	3828
Trial 3	208	210	3399	2205
Mean	288	279	4516	3006
Moderate-density area syst.	996	273	4430	2987
Entire flat survey results	1166	179	5923	4146

**Comparison of Results of Simulated Random Survey of the High-Density Area
Using a Reduced Numbers Sampling Approaches**

	No. of clams	Bu/Ac	Total bu.	Harv. Bu.
Based on 4 stations				
Trial 1	132	407	2117	1454
Trial 2	156	340	1768	1231
Trial 3	231	422	2196	1226
Mean	173	390	2027	1303
Based on 8 stations				
Trial 1	301	457	2379	1060
Trial 2	348	604	3140	1892
Trial 3	261	608	3162	2112
Mean	303	556	2894	1688
Based on 12 stations				
Trial 1	473	365	1900	1210
Trial 2	413	374	1944	1245
Trial 3	428	365	1899	1196
Mean	438	368	1914	1217
High-density area systematic	682	356	1852	1134
Entire flat survey results	1166	179	5923	4146

APPENDIX G

FULL FLAT SURVEY

Enumeration of clams per plot according to size from all stations samples (full flat survey) (Cont.)

Plot No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	Total/Plot	Plot No.	
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	>90			
53																				0	53	
54							2	2	2	1	5	4	2								18	54
55						1		2	3		3	3	4	1	1						18	55
56					2	3	1	1		3	5	5	6	2	1						29	56
57				2	7	9	4	2	1	3	1		1							30	57	
58					2			1	1	3	2	1								10	58	
59				6	18	26	14	12	7	5	3	1		1						93	59	
60								2	3	2	3	6	6	4	1					27	60	
61								1	1	1	1	3	1	2						10	61	
62							1	1		2										4	62	
63																				0	63	
64										5	3	3	1	3	1					16	64	
65				1	14	29	14	1	2	1	3	4	1							70	65	
66					1	3		1			2									7	66	
67					2	3	1			1										7	67	
68					5	8	9	1	1	1										25	68	
69					1		1	3	2	1	7	1	2							18	69	
70								1				1	1	1						4	70	
71									1	1	2		1	1	1					7	71	
72																				0	72	
73						1		2			2									5	73	
74						1	1	1												3	74	
75					4	7	8	2												21	75	
76					1				1											2	76	
77							2	1	1		2			1						7	77	
78				1		1		2												4	78	
79						1			8	9	9	8	3							38	79	
Totals	0	0	1	18	83	123	105	88	118	172	192	139	78	40	11	1	1	0	0	1170		
%/size	0.0	0.0	0.1	1.5	7.1	10.5	9.0	7.5	10.1	14.7	16.4	11.9	6.7	3.4	0.9	0.1	0.1	0.0	0.0	100		
#/sq. ft.	0.0	0.0	0.1	0.9	0.5	0.8	0.7	0.6	0.7	1.1	1.2	0.9	0.5	0.3	0.1	0.0	0.0	0.0	0.0	7.4		

APPENDIX H

Moderate Density Simulation Results

Enumeration of clams per plot according to size from all stations sampled in moderate-density area simulation (Cont.)

Plot No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	Total/Plot	Plot No.
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	>90		
45							1	1	1	4	2	1		1						11	45
47						1	2	2	2	8	4	3	3	5						30	47
48					2	2		4	3	8	10		1							30	48
49				1	3	3	3	4	6	11	5	3								39	49
50					1	1	2	1	1	3	6	7	3							25	50
51							1		2	3	2	1	2							11	51
54							2	2	2	1	5	4	2							18	54
55						1		2	3		3	3	4	1	1					18	55
56					2	3	1	1		3	5	5	6	2	1					29	56
57				2	7	9	4	2	1	3	1		1							30	57
58					2			1	1	3	2	1								10	58
59				6	18	26	14	12	7	5	3	1		1						93	59
60								2	3	2	3	6	6	4	1					27	60
61								1	1	1	3	1	2		1					10	61
64										5	3	3	1	3	1					16	64
65				1	14	29	14	1	2	1	3	4	1							70	65
68					5	8	9	1	1	1										25	68
69					1		1	3	2	1	7	1	2							18	69
75					4	7	8	2												21	75
79						1			8	9	9	8	3							38	79
Totals	0	0	1	17	77	113	93	71	103	153	161	107	65	29	6	0	0	0	0	996	
%/size	0.0	0.0	0.1	1.7	7.7	11.3	9.3	7.1	10.3	15.4	16.2	10.7	6.5	2.9	0.6	0.0	0.0	0.0	0.0	100	
#/sq. ft.	0.0	0.0	0.1	1.6	0.9	1.3	1.1	0.8	1.2	1.8	1.9	1.3	0.8	0.3	0.1	0.0	0.0	0.0	0.0	11.9	

APPENDIX I

High-Density Simulation Results

Enumeration of clams per plot according to size from all stations sampled in high-density area simulation

Clam resource survey sheet
High-density area only

Page 1

Location: Woodward Cove, Brunswick

Date: 12 November 2002

No. samples: 19

Plot No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	Total/Plot	Plot No.
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	>90		
19						2		1	7	5	2	3	2							22	19
24				7	11	4		4	9	8	8	3								54	24
31					1		2	5	3	10	7	2		1						31	31
32						1		1	3	6	7	3	1	1						23	32
39						2	3	4	5	10	3	3								30	39
40					2	1	1	1	4	4	7	2	4	1						27	40
41					1	3	8	1	2	6	9	8								38	41
47						1	2	2	2	8	4	3	3	5						30	47
48					2	2		4	3	8	10		1							30	48
49				1	3	3	3	4	6	11	5	3								39	49
50					1	1	2	1	1	3	6	7	3							25	50
56					2	3	1	1		3	5	5	6	2	1					29	56
57				2	7	9	4	2	1	3	1		1							30	57
59				6	18	26	14	12	7	5	3	1		1						93	59
60								2	3	2	3	6	6	4	1					27	60
65				1	14	29	14	1	2	1	3	4	1							70	65
68					5	8	9	1	1	1										25	68
75					4	7	8	2												21	75
79						1			8	9	9	8	3							38	79
Totals	0	0	0	17	71	103	71	49	67	103	92	61	31	15	2	0	0	0	0	682	
%/size	0.0	0.0	0.0	2.5	10.4	15.1	10.4	7.2	9.8	15.1	13.5	8.9	4.5	2.2	0.3	0.0	0.0	0.0	0.0	100	

