

Town of Brunswick

2019 Shellfish Inventory Surveys

*Town of Brunswick Code of Ordinances
Chapter 11 Marine Activities, Structures, and Ways
Article III Shellfishing
Section 11-140 Limitation of Licenses*



Municipal Ordinance Chapter 11 Article III 11-40

Limitation on Licenses

- The Brunswick Marine Resource Committee shall use the following protocols in order to determine the number of resident commercial shellfish licenses and bushel licenses:
- Shellfish surveys. A shellfish inventory including all growing areas within the Town of Brunswick jurisdiction shall be completed every two (2) years, or upon the recommendation of the marine resources officer or the marine resources committee.
- Standing crop analysis, as determined by the shellfish population surveys.
- License availability, based on the standing crop analysis.
- Historical harvest data, as determined by the Maine Department of Marine Resources.
- Harvester and public input.
- The committee must take into account all of the above factors in determining the number of resident commercial shellfish licenses to be made available. However, the final number of licenses made available shall not vary more than fifteen (15) percent from the number determined solely by the standing crop analysis under criterion above.

Coastal Characteristics

- Recreational Uses

- Shellfishing
- Sport Fishing
- Hunting
- Boating (Kayak & Power)
- Water Sports
- Birding
- Swimming

- Commercial Uses

- Commercial Fishing
- Shellfishing
- Aquaculture
- Commercial Guiding
- Boat Repairs/Moorings
- Island Transports
- Marinas



Coastal Attributes

Harbor Area		Total (acre)	Intertidal (% acre)	Shallow (% acre)	Deep (% acre)
1	Maquoit Bay	1,570	32% (510)	39% (610)	29% (450)
2	Merepoint Bay	420	38% (160)	22% (90)	40% (170)
3	Middle Bay	640	56% (360)	41% (260)	3% (20)
4	Harpwell Sound	410	69% (280)	24% (100)	7% (30)
5	New Meadows River	830	33% (270)	45% (370)	22% (180)
Total Coastal		3,900	41% (1,600)	37% (1,450)	22% (850)
6	Androscoggin River	1,050	---	---	---
	Tidal	810	300 (37%)	460 (57%)	50 (6%)
	Non-Tidal	240	---	---	---

Table 2 – Shoreline Frontage

Harbor Area		Total (mi)	Private (mi, %)	Open Space (mi, %)
1	Maquoit Bay	13.7	6.4 (47%)	7.3 (53%)
2	Merepoint Bay	3.6	2.5 (68%)	1.2 (32%)
3	Middle Bay	10.4	5.0 (48%)	5.4 (52%)
4	Harpwell Sound	14.0	10.3 (73%)	3.7 (27%)
5	New Meadows River	19.1	12.9 (67%)	6.3 (33%)
Total Coastal		60.9	37.0 (61%)	23.8 (39%)
6	Androscoggin River	20.6	8.0 (39%)	12.7 (61%)
Total Shoreline		81.5	45.0 (55%)	36.5 (45%)

Species Surveyed in 2019

Softshell Clams

Hardshell Clams



Historical Commercial License Sales

(Includes Resident and Non Resident)

• 1998-1999 =	54	• 2009-2010 =	57
• 1999-2000 =	60	• 2010-2011 =	58
• 2000-2001 =	69	• 2011-2012 =	53 ^{**}
• 2001-2002 =	69	• 2012-2013 =	57 ^{**}
• 2002-2003 =	75	• 2013-2014 =	60 ^{***}
• 2003-2004 =	75	• 2014-2015 =	50 ^{***}
• 2004-2005 =	74	• 2015-2016 =	50 ^{***}
• 2005-2006 =	74	• 2016-2017 =	51 ^{***}
• 2006-2007 =	74	• 2017-2018 =	62
• 2007-2008 =	56 [*]	• 2018-2019 =	62
• 2008-2009 =	64	• 2019-2020 =	62
		• 2020-2021 =	TBA

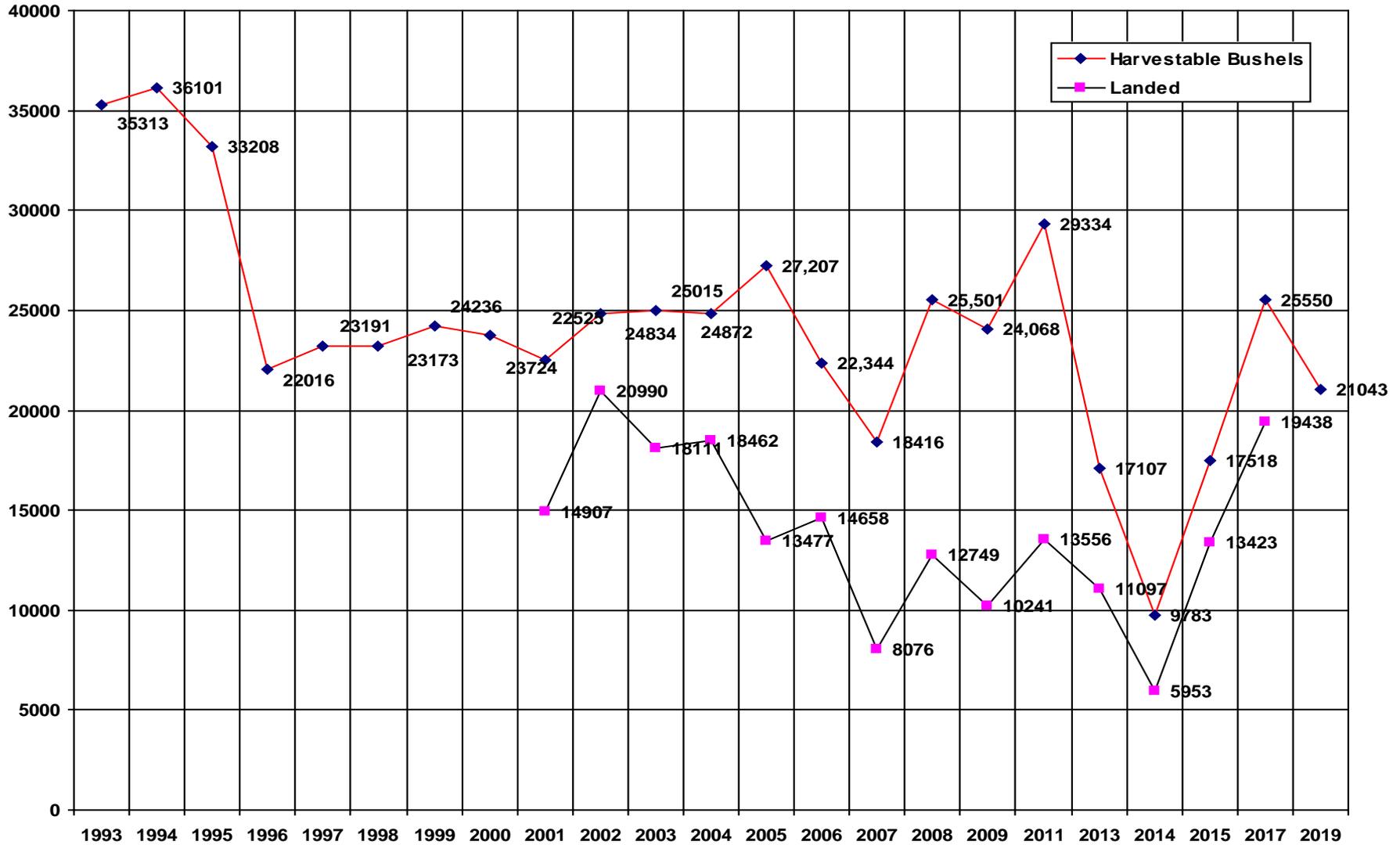
62 Average # of Licenses over 21 Years

*= Re-evaluation of average harvest

**=Green Crab Inundation

***=Implementation of Ramped Up Student License Program

25 Year Softshell Clam Inventory Trends



Hardshell Clam Landing

2013 - 2018* Brunswick, ME Hard Clam Landings				
Year	PORT	SPECIES	LIVE_POUNDS	TOTAL_VALUE
2013	Brunswick	clam northern quahog / hard	98,975	\$101,044
2014	Brunswick	clam northern quahog / hard	279,469	\$265,946
2015	Brunswick	clam northern quahog / hard	434,023	\$631,336
2016	Brunswick	clam northern quahog / hard	389,335	\$637,437
2017	Brunswick	clam northern quahog / hard	349,208	\$612,480
2018*	Brunswick	clam northern quahog / hard	767,035	\$1,357,356

*2018 data are preliminary and subject to change without notice.
all data current as of 7/1/2019 and were pulled from dealer reported data.

2019 Quahog Survey



Bull Rock, New Meadows River



Survey Results

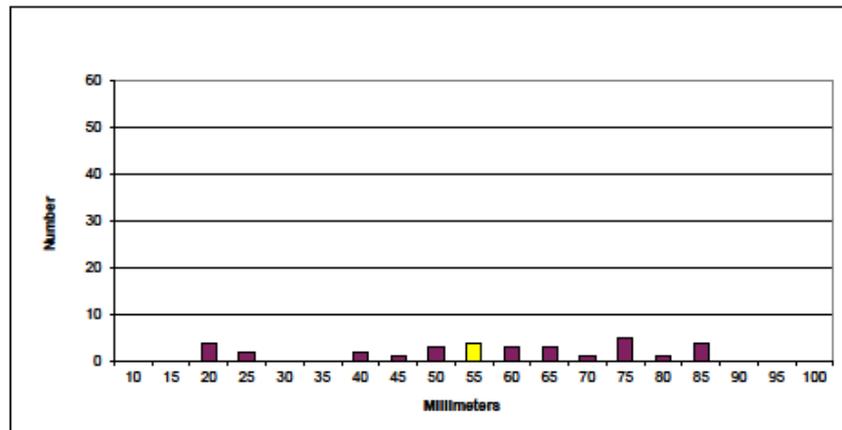
TOWN: Bull Rock (Q)
 FLAT: Brunswick
 CREW: Devereaux/FW

PLOT SIZE: 1' x 2'
 PLOT INTERVAL: 100
 PLOTS: 16

DATE: 11/20/2019

ACRES: 2

Length (mm)	# of Clams	% Number		
10-14	0	0.0%	Total # of Clams	33
15-19	0	0.0%	Total # of Clams > 50.8mm	21
20-24	4	12.1%	% of clams > 50.8mm	63.64%
25-29	2	6.1%	Total Average Bu./Acre	58.40
30-34	0	0.0%	Total Avg. Bu./Acre > 50.8mm	53.49
35-39	0	0.0%		
40-44	2	6.1%	Total standing crop (bu)	117
45-49	1	3.0%	Total standing crop > 50.8mm	107
50-54	3	9.1%	% of crop > 50.8mm	91.59%
55-59	4	12.1%		
60-64	3	9.1%	Conversion Inches to Millimeters	
65-69	3	9.1%	.5" = 12.7 mm	
70-74	1	3.0%	1" = 25.4mm	
75-79	5	15.2%	2" = 50.8 mm	
80-84	1	3.0%	2.5" = 63.5 mm	
85-89	4	12.1%	3" = 76.2 mm	
90-94	0	0.0%	3.5" = 88.9 mm	
95-99	0	0.0%		
100	0	0.0%		



Bunganuc, Maquoit Bay



Survey Results

TOWN: Bunganuc Total (Q)
 FLAT: Brunswick
 CREW: Devereaux/FW

PLOT SIZE: 1' x 2'
 PLOT INTERVAL: 200
 PLOTS: 57

DATE: 10/30/2019

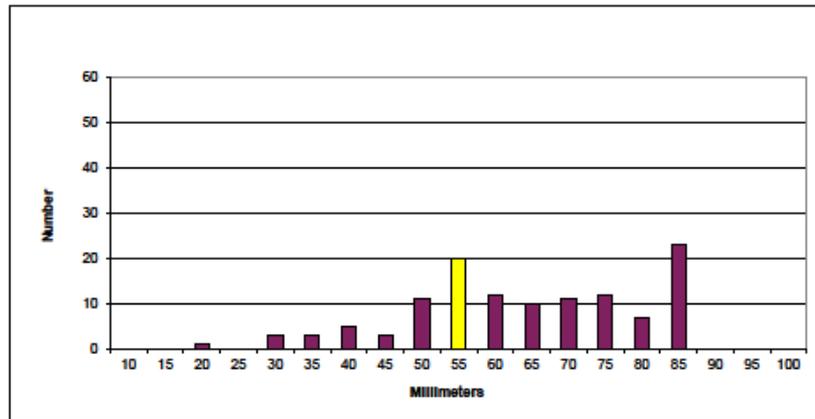
ACRES: 6

Length (mm)	# of Clams	% Number
10-14	0	0.0%
15-19	0	0.0%
20-24	1	0.8%
25-29	0	0.0%
30-34	3	2.5%
35-39	3	2.5%
40-44	5	4.1%
45-49	3	2.5%
50-54	11	9.1%
55-59	20	16.5%
60-64	12	9.9%
65-69	10	8.3%
70-74	11	9.1%
75-79	12	9.9%
80-84	7	5.8%
85-89	23	19.0%
90-94	0	0.0%
95-99	0	0.0%
100	0	0.0%

Total # of Clams	121
Total # of Clams > 50.8mm	95
% of clams > 50.8mm	78.51%
Total Average Bu./Acre	74.22
Total Avg. Bu./Acre > 50.8mm	69.65
Total standing crop (bu)	445
Total standing crop > 50.8mm	418
% of crop > 50.8mm	93.85%

Conversion Inches to Millimeters

.5" = 12.7 mm
 1" = 25.4mm
 2" = 50.8 mm
 2.5" = 63.5 mm
 3" = 76.2 mm
 3.5" = 88.9 mm



Catlin Shore, Middle Bay



Survey Results

TOWN: Catlin Shore (Q)
 FLAT: Brunswick
 CREW: Devereaux/FW

PLOT SIZE: 1' x 2'
 PLOT INTERVAL: 200
 PLOTS: 60

DATE: 10/24/2019

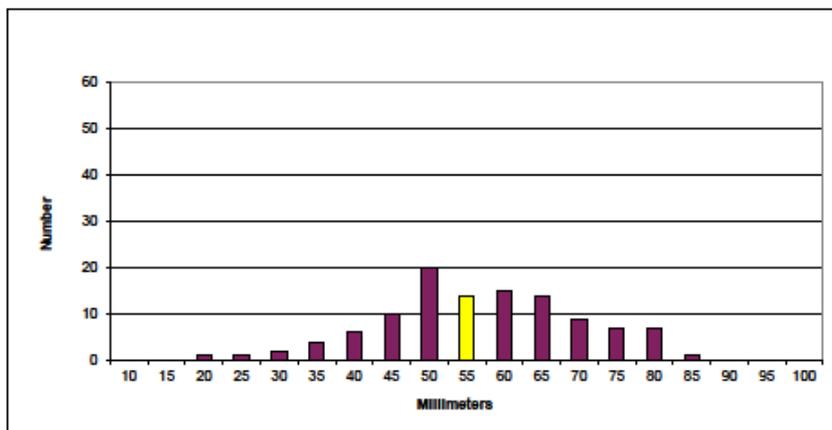
ACRES: 19

Length (mm)	# of Clams	% Number
10-14	0	0.0%
15-19	0	0.0%
20-24	1	0.9%
25-29	1	0.9%
30-34	2	1.8%
35-39	4	3.6%
40-44	6	5.4%
45-49	10	9.0%
50-54	20	18.0%
55-59	14	12.6%
60-64	15	13.5%
65-69	14	12.6%
70-74	9	8.1%
75-79	7	6.3%
80-84	7	6.3%
85-89	1	0.9%
90-94	0	0.0%
95-99	0	0.0%
100	0	0.0%

Total # of Clams	111
Total # of Clams > 50.8mm	67
% of clams > 50.8mm	60.36%
Total Average Bu./Acre	45.09
Total Avg. Bu./Acre > 50.8mm	37.09
Total standing crop (bu)	857
Total standing crop > 50.8mm	705
% of crop > 50.8mm	82.25%

Conversion Inches to Millimeters

.5" = 12.7 mm
 1" = 25.4mm
 2" = 50.8 mm
 2.5" = 63.5 mm
 3" = 76.2 mm
 3.5" = 88.9 mm



Clay Cove, Middle Bay



Survey Results

TOWN: Clay Cove (Q)
 FLAT: Brunswick
 CREW: Devereaux/FW

PLOT SIZE: 1' x 2'
 PLOT INTERVAL: 100
 PLOTS: 29

DATE: 10/22/2019

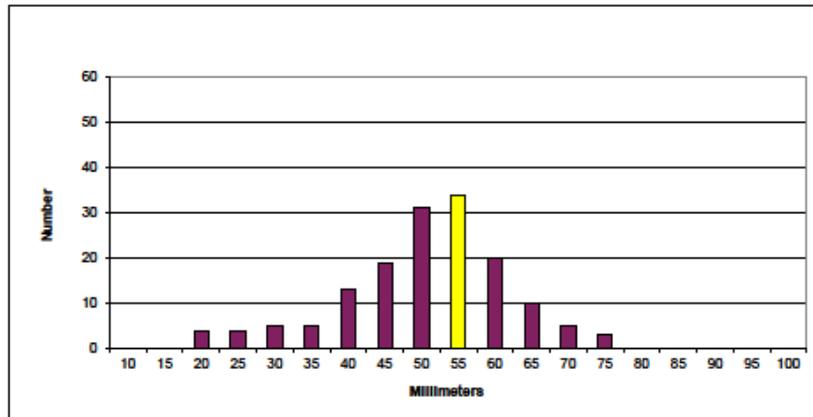
ACRES: 10

Length (mm)	# of Clams	% Number
10-14	0	0.0%
15-19	0	0.0%
20-24	4	2.6%
25-29	4	2.6%
30-34	5	3.3%
35-39	5	3.3%
40-44	13	8.5%
45-49	19	12.4%
50-54	31	20.3%
55-59	34	22.2%
60-64	20	13.1%
65-69	10	6.5%
70-74	5	3.3%
75-79	3	2.0%
80-84	0	0.0%
85-89	0	0.0%
90-94	0	0.0%
95-99	0	0.0%
100	0	0.0%

Total # of Clams	153
Total # of Clams > 50.8mm	72
% of clams > 50.8mm	47.06%
Total Average Bu./Acre	90.27
Total Avg. Bu./Acre > 50.8mm	62.05
Total standing crop (bu)	903
Total standing crop > 50.8mm	620
% of crop > 50.8mm	68.74%

Conversion Inches to Millimeters

.5" = 12.7 mm
 1" = 25.4mm
 2" = 50.8 mm
 2.5" = 63.5 mm
 3" = 76.2 mm
 3.5" = 88.9 mm



Maquoit Bay



Survey Results

TOWN: Maquoit Bay (Q)
 FLAT: Brunswick
 CREW: Devereaux/FW

PLOT SIZE: 1' x 2'
 PLOT INTERVAL: 200
 PLOTS: 98

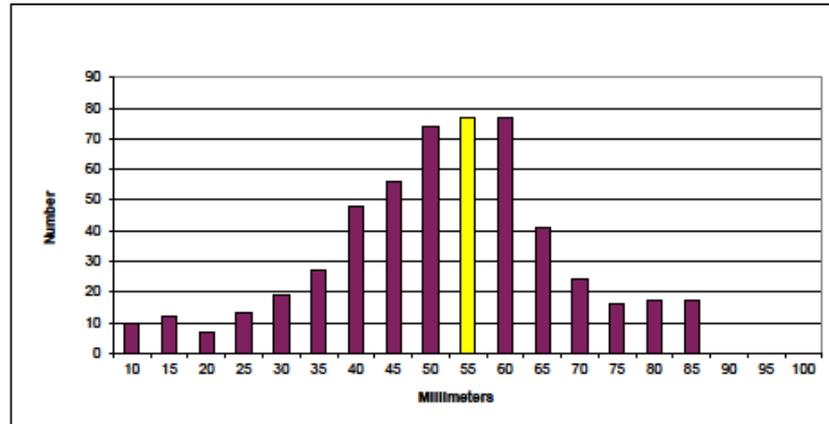
DATE: 10/29/2019 and 10/30/19

ACRES: 68

Length (mm)	# of Clams	% Number
10-14	10	1.9%
15-19	12	2.2%
20-24	7	1.3%
25-29	13	2.4%
30-34	19	3.6%
35-39	27	5.0%
40-44	48	9.0%
45-49	56	10.5%
50-54	74	13.8%
55-59	77	14.4%
60-64	77	14.4%
65-69	41	7.7%
70-74	24	4.5%
75-79	16	3.0%
80-84	17	3.2%
85-89	17	3.2%
90-94	0	0.0%
95-99	0	0.0%
100	0	0.0%

Total # of Clams	535
Total # of Clams > 50.8mm	269
% of clams > 50.8mm	50.28%
Total Average Bu./Acre	110.42
Total Avg. Bu./Acre > 50.8mm	86.77
Total standing crop (bu)	7508
Total standing crop > 50.8mm	5900
% of crop > 50.8mm	78.58%

Conversion Inches to Millimeters
 .5" = 12.7 mm
 1" = 25.4mm
 2" = 50.8 mm
 2.5" = 63.5 mm
 3" = 76.2 mm
 3.5" = 88.9 mm



Penneville, Middle Bay



Survey Results

TOWN: Penneville (Q)
 FLAT: Brunswick
 CREW: Devereaux/FW

PLOT SIZE: 1' x 2'
 PLOT INTERVAL: 100
 PLOTS: 67

DATE: 10/21/2019

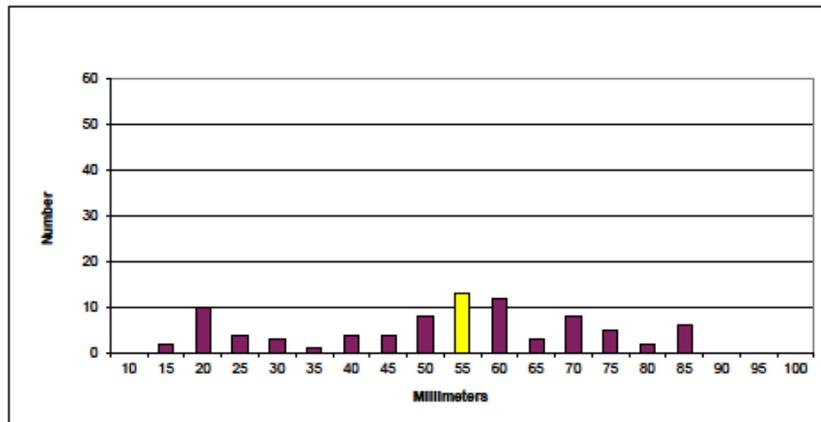
ACRES: 25

Length (mm)	# of Clams	% Number
10-14	0	0.0%
15-19	2	2.4%
20-24	10	11.8%
25-29	4	4.7%
30-34	3	3.5%
35-39	1	1.2%
40-44	4	4.7%
45-49	4	4.7%
50-54	8	9.4%
55-59	13	15.3%
60-64	12	14.1%
65-69	3	3.5%
70-74	8	9.4%
75-79	5	5.9%
80-84	2	2.4%
85-89	6	7.1%
90-94	0	0.0%
95-99	0	0.0%
100	0	0.0%

Total # of Clams	85
Total # of Clams > 50.8mm	49
% of clams > 50.8mm	57.65%
Total Average Bu./Acre	28.90
Total Avg. Bu./Acre > 50.8mm	25.51
Total standing crop (bu)	723
Total standing crop > 50.8mm	638
% of crop > 50.8mm	88.27%

Conversion Inches to Millimeters

.5" = 12.7 mm
 1" = 25.4mm
 2" = 50.8 mm
 2.5" = 63.5 mm
 3" = 76.2 mm
 3.5" = 88.9 mm



Softshell Clam Survey



Barnes Landing, Middle Bay



Survey Results

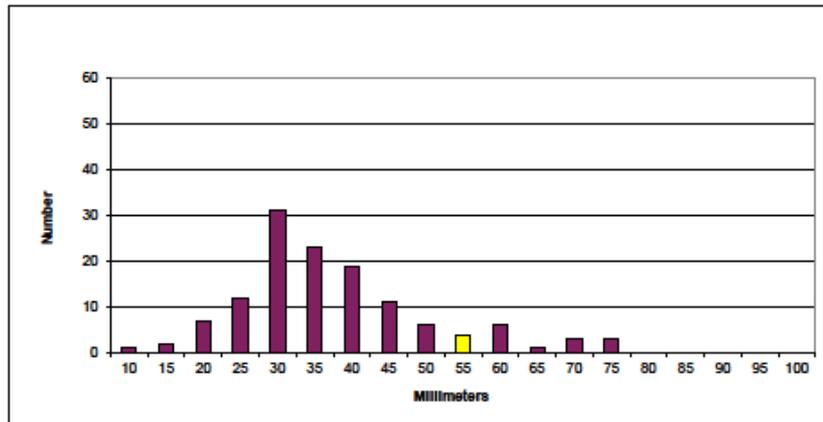
TOWN: Barnes Landing
 FLAT: Brunswick
 CREW: Devereaux/FW

PLOT SIZE: 1' x 2'
 PLOT INTERVAL: 100
 PLOTS: 11

DATE: 11/20/2019

ACRES: 4

Length (mm)	# of Clams	% Number		
10-14	1	0.8%	Total # of Clams	129
15-19	2	1.6%	Total # of Clams > 50.8mm	17
20-24	7	5.4%	% of clams > 50.8mm	13.18%
25-29	12	9.3%		
30-34	31	24.0%	Total Average Bu./Acre	102.65
35-39	23	17.8%	Total Avg. Bu./Acre > 50.8mm	46.64
40-44	19	14.7%		
45-49	11	8.5%	Total standing crop (bu)	411
50-54	6	4.7%	Total standing crop > 50.8mm	187
55-59	4	3.1%	% of crop > 50.8mm	45.44%
60-64	6	4.7%		
65-69	1	0.8%	Conversion Inches to Millimeters	
70-74	3	2.3%	.5" = 12.7 mm	
75-79	3	2.3%	1" = 25.4mm	
80-84	0	0.0%	2" = 50.8 mm	
85-89	0	0.0%	2.5' = 63.5 mm	
90-94	0	0.0%	3" = 76.2 mm	
95-99	0	0.0%	3.5" = 88.9 mm	
100	0	0.0%		



Bullpen, New Meadows River



Survey Results

TOWN: Big Bull Pen
 FLAT: Brunswick
 CREW: Devereaux/FW

PLOT SIZE: 1' x 2'
 PLOT INTERVAL: 100
 PLOTS: 27

DATE: 10/15/2019

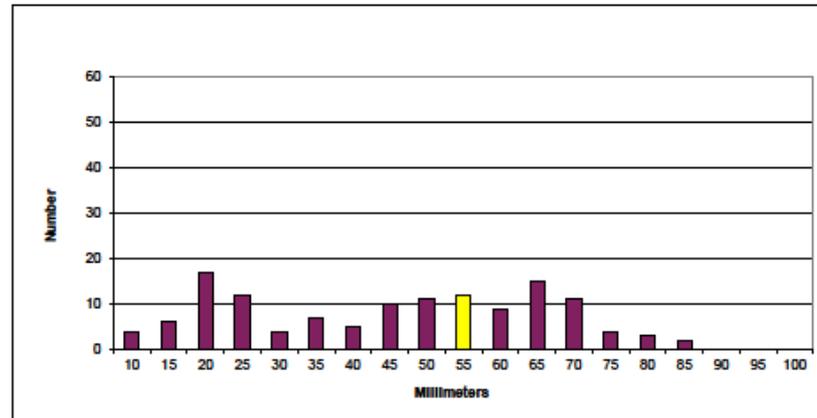
ACRES: 24

Length (mm)	# of Clams	% Number
10-14	4	3.0%
15-19	6	4.5%
20-24	17	12.9%
25-29	12	9.1%
30-34	4	3.0%
35-39	7	5.3%
40-44	5	3.8%
45-49	10	7.6%
50-54	11	8.3%
55-59	12	9.1%
60-64	9	6.8%
65-69	15	11.4%
70-74	11	8.3%
75-79	4	3.0%
80-84	3	2.3%
85-89	2	1.5%
90-94	0	0.0%
95-99	0	0.0%
100	0	0.0%

Total # of Clams	132
Total # of Clams > 50.8mm	56
% of clams > 50.8mm	42.42%
Total Average Bu./Acre	83.10
Total Avg. Bu./Acre > 50.8mm	68.06
Total standing crop (bu)	1994
Total standing crop > 50.8mm	1633
% of crop > 50.8mm	81.91%

Conversion Inches to Millimeters

.5" = 12.7 mm
1" = 25.4mm
2" = 50.8 mm
2.5" = 63.5 mm
3" = 76.2 mm
3.5" = 88.9 mm



Bullrock, New Meadows River



Survey Results

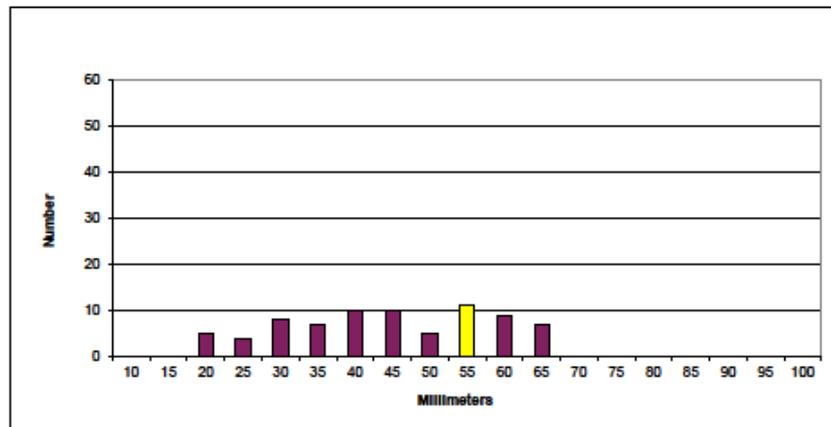
TOWN: Bull Rock
 FLAT: Brunswick
 CREW: Devereaux/FW

PLOT SIZE: 1' x 2'
 PLOT INTERVAL: 100
 PLOTS: 16

DATE: 11/20/2019

ACRES: 3

Length (mm)	# of Clams	% Number		
10-14	0	0.0%	Total # of Clams	76
15-19	0	0.0%	Total # of Clams > 50.8mm	27
20-24	5	6.6%	% of clams > 50.8mm	35.53%
25-29	4	5.3%		
30-34	8	10.5%	Total Average Bu./Acre	62.16
35-39	7	9.2%	Total Avg. Bu./Acre > 50.8mm	41.07
40-44	10	13.2%		
45-49	10	13.2%	Total standing crop (bu)	186
50-54	5	6.6%	Total standing crop > 50.8mm	123
55-59	11	14.5%	% of crop > 50.8mm	66.08%
60-64	9	11.8%		
65-69	7	9.2%	Conversion Inches to Millimeters	
70-74	0	0.0%	.5" = 12.7 mm	
75-79	0	0.0%	1" = 25.4mm	
80-84	0	0.0%	2" = 50.8 mm	
85-89	0	0.0%	2.5" = 63.5 mm	
90-94	0	0.0%	3" = 76.2 mm	
95-99	0	0.0%	3.5" = 88.9 mm	
100	0	0.0%		



Bunganuc, Maquoit Bay



Survey Results

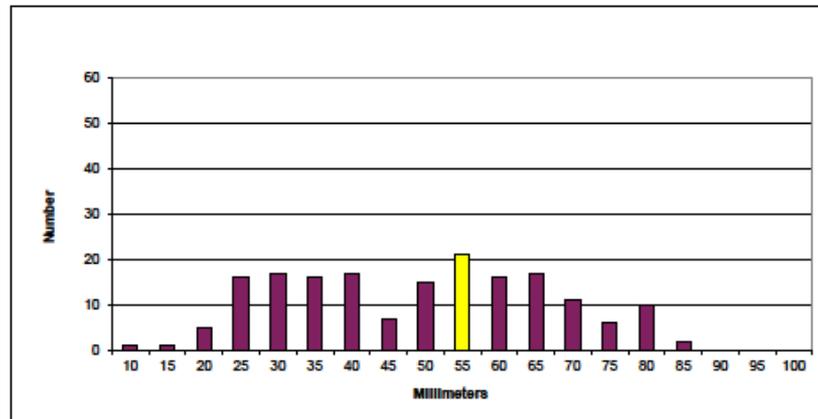
TOWN: Bunganuc Total
 FLAT: Brunswick
 CREW: Devereaux/FW

PLOT SIZE: 1' x 2'
 PLOT INTERVAL: 200
 PLOTS: 57

DATE: 10/30/2019

ACRES: 32

Length (mm)	# of Clams	% Number		
10-14	1	0.6%	Total # of Clams	178
15-19	1	0.6%	Total # of Clams > 50.8mm	83
20-24	5	2.8%	% of clams > 50.8mm	46.63%
25-29	16	9.0%	Total Average Bu./Acre	58.90
30-34	17	9.6%	Total Avg. Bu./Acre > 50.8mm	48.21
35-39	16	9.0%	Total standing crop (bu)	1885
40-44	17	9.6%	Total standing crop > 50.8mm	1543
45-49	7	3.9%	% of crop > 50.8mm	81.84%
50-54	15	8.4%		
55-59	21	11.8%	Conversion Inches to Millimeters	
60-64	16	9.0%	.5" = 12.7 mm	
65-69	17	9.6%	1" = 25.4mm	
70-74	11	6.2%	2" = 50.8 mm	
75-79	6	3.4%	2.5' = 63.5 mm	
80-84	10	5.6%	3" = 76.2 mm	
85-89	2	1.1%	3.5" = 88.9 mm	
90-94	0	0.0%		
95-99	0	0.0%		
100	0	0.0%		



Buttermilk Cove, Long Reach



Survey Results

TOWN: Buttermilk Cove
 FLAT: Brunswick
 CREW: Devereaux/FW

PLOT SIZE: 1' x 2'
 PLOT INTERVAL: 100
 PLOTS: 19

DATE: 10/16/2019

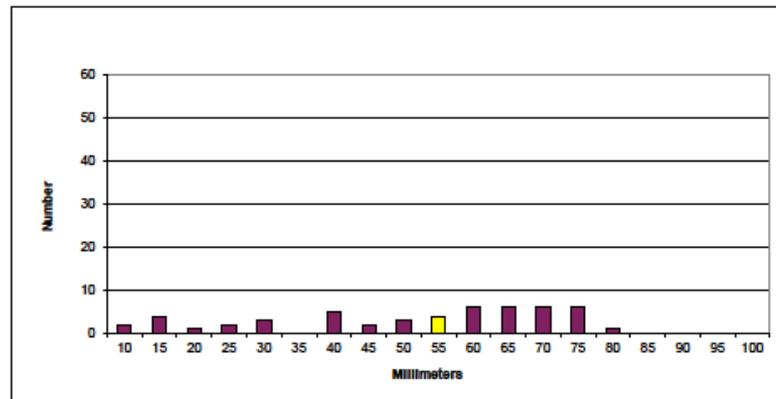
ACRES: 9

Length (mm)	# of Clams	% Number
10-14	2	3.9%
15-19	4	7.8%
20-24	1	2.0%
25-29	2	3.9%
30-34	3	5.9%
35-39	0	0.0%
40-44	5	9.8%
45-49	2	3.9%
50-54	3	5.9%
55-59	4	7.8%
60-64	6	11.8%
65-69	6	11.8%
70-74	6	11.8%
75-79	6	11.8%
80-84	1	2.0%
85-89	0	0.0%
90-94	0	0.0%
95-99	0	0.0%
100	0	0.0%

Total # of Clams	51
Total # of Clams > 50.8mm	29
% of clams > 50.8mm	56.86%
Total Average Bu./Acre	58.15
Total Avg. Bu./Acre > 50.8mm	51.71
Total standing crop (bu)	523
Total standing crop > 50.8mm	465
% of crop > 50.8mm	88.91%

Conversion Inches to Millimeters

.5" = 12.7 mm
 1" = 25.4mm
 2" = 50.8 mm
 2.5" = 63.5 mm
 3" = 76.2 mm
 3.5" = 88.9 mm



Catlin Shore, Middle Bay



Survey Results

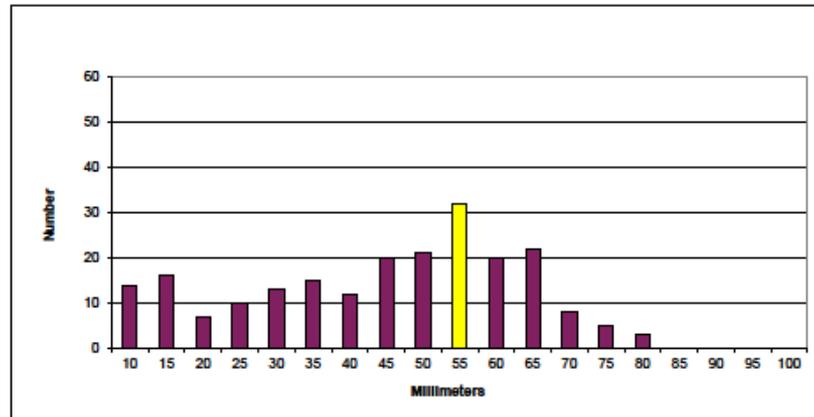
TOWN: Catlin Shore
 FLAT: Brunswick
 CREW: Devereaux/FW

PLOT SIZE: 1' x 2'
 PLOT INTERVAL: 200
 PLOTS: 60

DATE: 10/24/2019

ACRES: 9

Length (mm)	# of Clams	% Number		
10-14	14	6.4%	Total # of Clams	218
15-19	16	7.3%	Total # of Clams > 50.8mm	90
20-24	7	3.2%	% of clams > 50.8mm	41.28%
25-29	10	4.6%		
30-34	13	6.0%	Total Average Bu./Acre	55.00
35-39	15	6.9%	Total Avg. Bu./Acre > 50.8mm	41.96
40-44	12	5.5%		
45-49	20	9.2%	Total standing crop (bu)	495
50-54	21	9.6%	Total standing crop > 50.8mm	378
55-59	32	14.7%	% of crop > 50.8mm	76.29%
60-64	20	9.2%		
65-69	22	10.1%	Conversion Inches to Millimeters	
70-74	8	3.7%	.5" = 12.7 mm	
75-79	5	2.3%	1" = 25.4mm	
80-84	3	1.4%	2" = 50.8 mm	
85-89	0	0.0%	2.5" = 63.5 mm	
90-94	0	0.0%	3" = 76.2 mm	
95-99	0	0.0%	3.5" = 88.9 mm	
100	0	0.0%		



Clay Cove, Middle Bay



Survey Results

TOWN: Clay Cove
 FLAT: Brunswick
 CREW: Devereaux/FW

PLOT SIZE: 1' x 2'
 PLOT INTERVAL: 100
 PLOTS: 29

DATE: 10/22/2019

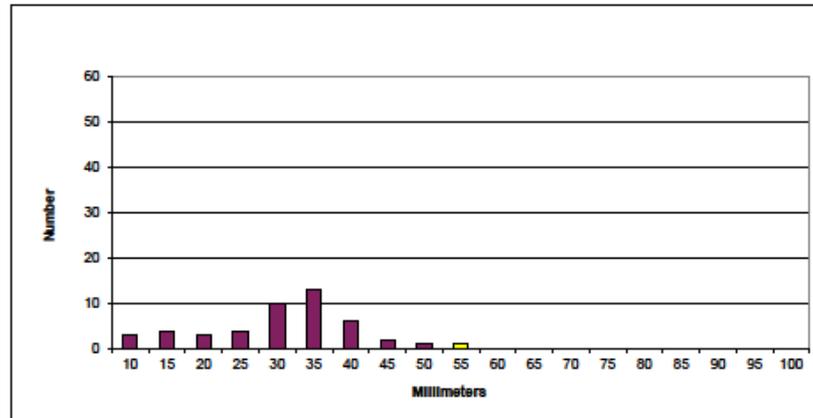
ACRES: 17

Length (mm)	# of Clams	% Number
10-14	3	6.4%
15-19	4	8.5%
20-24	3	6.4%
25-29	4	8.5%
30-34	10	21.3%
35-39	13	27.7%
40-44	6	12.8%
45-49	2	4.3%
50-54	1	2.1%
55-59	1	2.1%
60-64	0	0.0%
65-69	0	0.0%
70-74	0	0.0%
75-79	0	0.0%
80-84	0	0.0%
85-89	0	0.0%
90-94	0	0.0%
95-99	0	0.0%
100	0	0.0%

Total # of Clams	47
Total # of Clams > 50.8mm	1
% of clams > 50.8mm	2.13%
Total Average Bu./Acre	7.57
Total Avg. Bu./Acre > 50.8mm	0.67
Total standing crop (bu)	129
Total standing crop > 50.8mm	11
% of crop > 50.8mm	8.81%

Conversion Inches to Millimeters

.5" = 12.7 mm
 1" = 25.4mm
 2" = 50.8 mm
 2.5" = 63.5 mm
 3" = 76.2 mm
 3.5" = 88.9 mm



Harpswell Cove



Survey Results

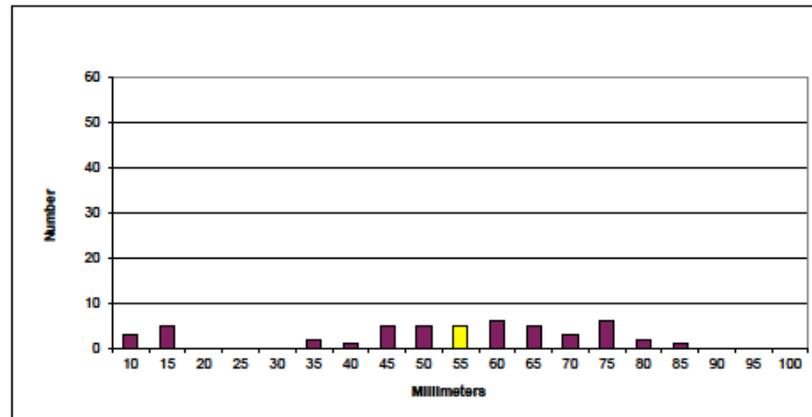
TOWN: Harpswell Cove
 FLAT: Brunswick
 CREW: Devereaux/FW

PLOT SIZE: 1' x 2'
 PLOT INTERVAL: 100
 PLOTS: 35

DATE: 11/25/2019

ACRES: 12

Length (mm)	# of Clams	% Number		
10-14	3	6.1%	Total # of Clams	49
15-19	5	10.2%	Total # of Clams > 50.8mm	28
20-24	0	0.0%	% of clams > 50.8mm	57.14%
25-29	0	0.0%		
30-34	0	0.0%	Total Average Bu./Acre	32.43
35-39	2	4.1%	Total Avg. Bu./Acre > 50.8mm	28.16
40-44	1	2.0%		
45-49	5	10.2%	Total standing crop (bu)	389
50-54	5	10.2%	Total standing crop > 50.8mm	338
55-59	5	10.2%	% of crop > 50.8mm	86.83%
60-64	6	12.2%		
65-69	5	10.2%	Conversion Inches to Millimeters	
70-74	3	6.1%	.5" = 12.7 mm	
75-79	6	12.2%	1" = 25.4mm	
80-84	2	4.1%	2" = 50.8 mm	
85-89	1	2.0%	2.5" = 63.5 mm	
90-94	0	0.0%	3" = 76.2 mm	
95-99	0	0.0%	3.5" = 88.9 mm	
100	0	0.0%		



Little Bullpen, New Meadows River



Survey Results

TOWN: Little Bull Pen
 FLAT: Brunswick
 CREW: Devereaux/FW

PLOT SIZE: 1' x 2'
 PLOT INTERVAL: 100
 PLOTS: 7

DATE: 10/15/2019

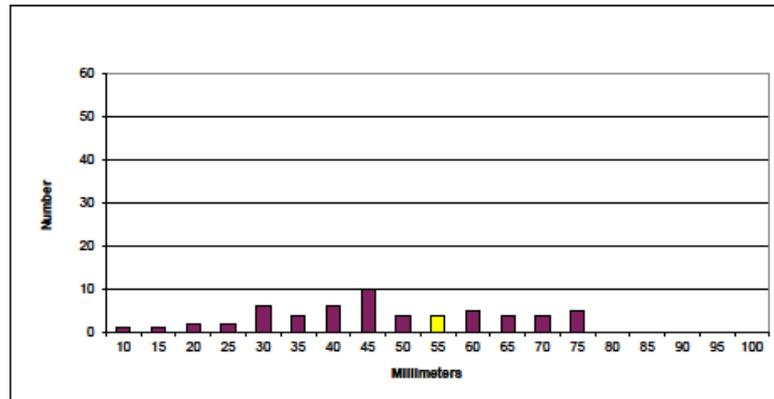
ACRES: 5

Length (mm)	# of Clams	% Number
10-14	1	1.7%
15-19	1	1.7%
20-24	2	3.4%
25-29	2	3.4%
30-34	6	10.3%
35-39	4	6.9%
40-44	6	10.3%
45-49	10	17.2%
50-54	4	6.9%
55-59	4	6.9%
60-64	5	8.6%
65-69	4	6.9%
70-74	4	6.9%
75-79	5	8.6%
80-84	0	0.0%
85-89	0	0.0%
90-94	0	0.0%
95-99	0	0.0%
100	0	0.0%

Total # of Clams	58
Total # of Clams > 50.8mm	22
% of clams > 50.8mm	37.93%
Total Average Bu./Acre	139.67
Total Avg. Bu./Acre > 50.8mm	102.16
Total standing crop (bu)	698
Total standing crop > 50.8mm	511
% of crop > 50.8mm	73.14%

Conversion Inches to Millimeters

.5" = 12.7 mm
 1" = 25.4mm
 2" = 50.8 mm
 2.5" = 63.5 mm
 3" = 76.2 mm
 3.5" = 88.9 mm



Robbie's, Long Reach



Survey Results

TOWN: Long Reach
 FLAT: Brunswick
 CREW: Devereaux/FW

PLOT SIZE: 1' x 2'
 PLOT INTERVAL: 100
 PLOTS: 18

DATE: 10/16/2019

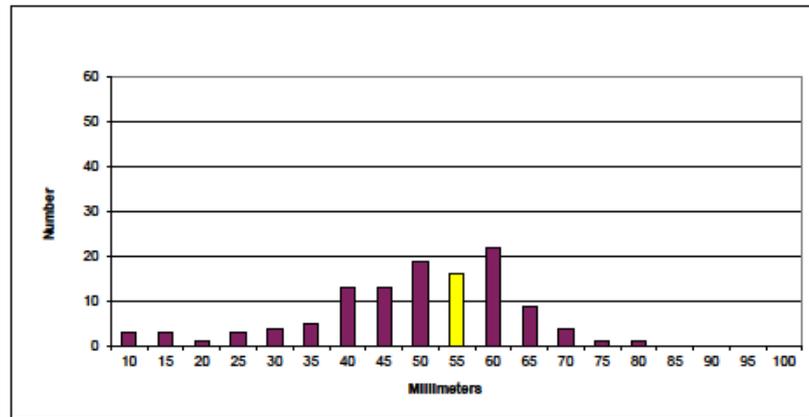
ACRES: 14

Length (mm)	# of Clams	% Number
10-14	3	2.6%
15-19	3	2.6%
20-24	1	0.9%
25-29	3	2.6%
30-34	4	3.4%
35-39	5	4.3%
40-44	13	11.1%
45-49	13	11.1%
50-54	19	16.2%
55-59	16	13.7%
60-64	22	18.8%
65-69	9	7.7%
70-74	4	3.4%
75-79	1	0.9%
80-84	1	0.9%
85-89	0	0.0%
90-94	0	0.0%
95-99	0	0.0%
100	0	0.0%

Total # of Clams	117
Total # of Clams > 50.8mm	53
% of clams > 50.8mm	45.30%
Total Average Bu./Acre	109.17
Total Avg. Bu./Acre > 50.8mm	77.47
Total standing crop (bu)	1528
Total standing crop > 50.8mm	1085
% of crop > 50.8mm	70.96%

Conversion Inches to Millimeters

.5" = 12.7 mm
 1" = 25.4mm
 2" = 50.8 mm
 2.5" = 63.5 mm
 3" = 76.2 mm
 3.5" = 88.9 mm



Maquoit Bay



Survey Results

TOWN: Maquoit Bay
 FLAT: Brunswick
 CREW: Devereaux/FW

PLOT SIZE: 1' x 2'
 PLOT INTERVAL: 200
 PLOTS: 98

DATE: 10/29/2019 and 10/30/19

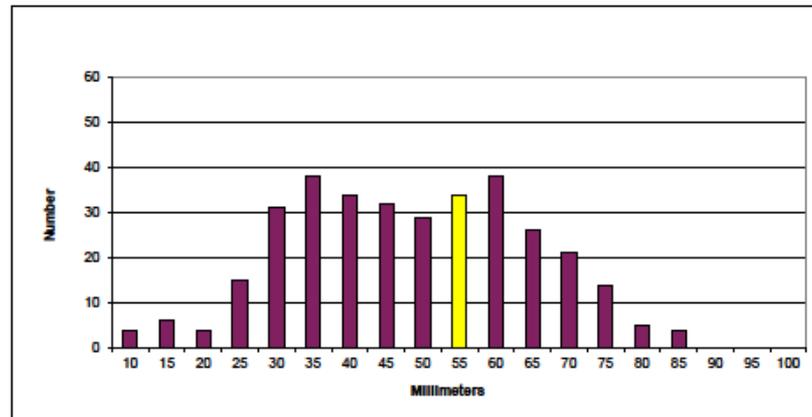
ACRES: 78

Length (mm)	# of Clams	% Number
10-14	4	1.2%
15-19	6	1.8%
20-24	4	1.2%
25-29	15	4.5%
30-34	31	9.3%
35-39	38	11.3%
40-44	34	10.1%
45-49	32	9.6%
50-54	29	8.7%
55-59	34	10.1%
60-64	38	11.3%
65-69	26	7.8%
70-74	21	6.3%
75-79	14	4.2%
80-84	5	1.5%
85-89	4	1.2%
90-94	0	0.0%
95-99	0	0.0%
100	0	0.0%

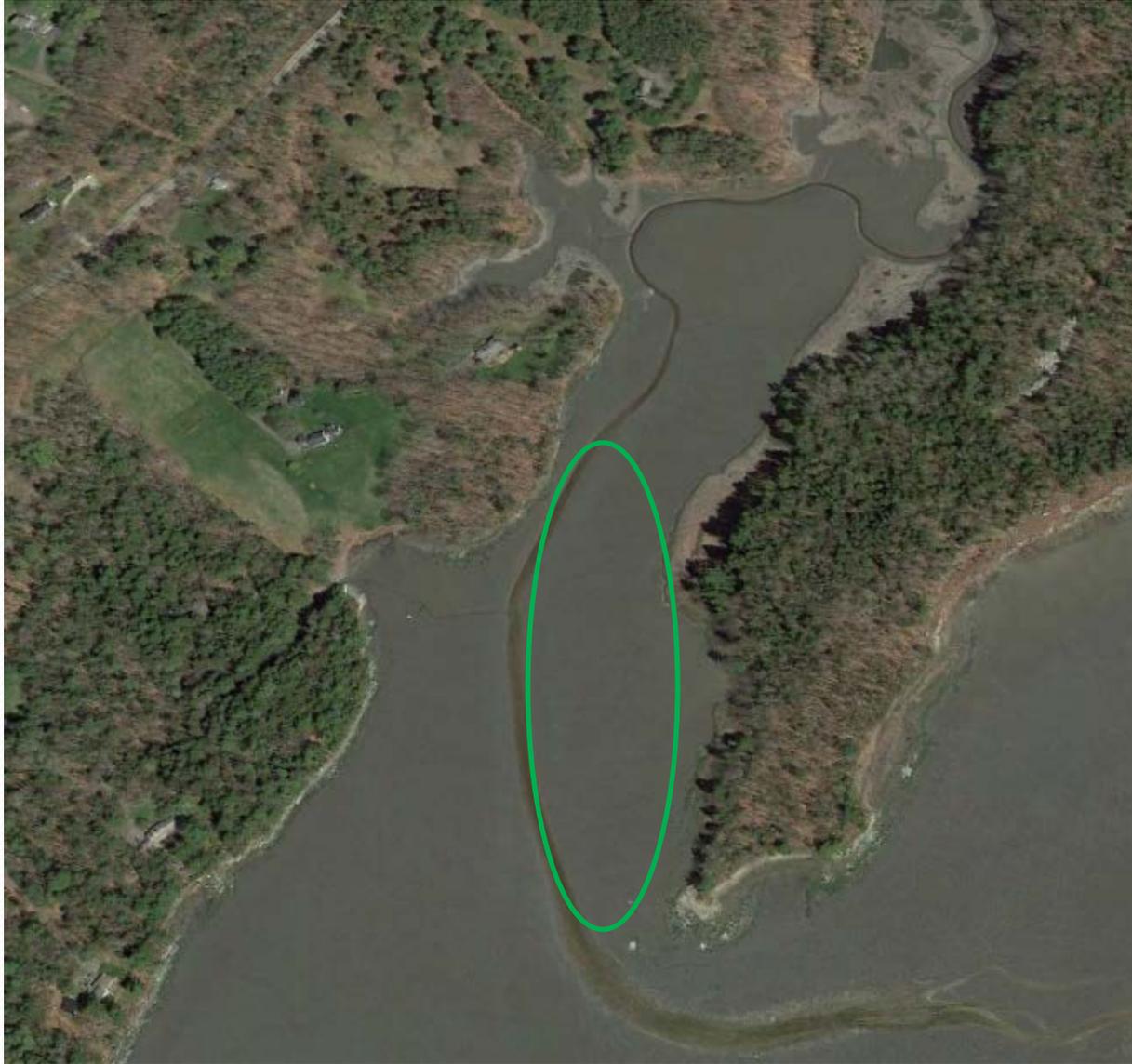
Total # of Clams	335
Total # of Clams > 50.8mm	142
% of clams > 50.8mm	42.39%
Total Average Bu./Acre	59.36
Total Avg. Bu./Acre > 50.8mm	45.24
Total standing crop (bu)	4630
Total standing crop > 50.8mm	3529
% of crop > 50.8mm	76.22%

Conversion Inches to Millimeters

.5" = 12.7 mm
1" = 25.4mm
2" = 50.8 mm
2.5" = 63.5 mm
3" = 76.2 mm
3.5" = 88.9 mm



Miller Creek, Middle Bay



Survey Results

TOWN: Miller Creek
 FLAT: Brunswick
 CREW: Devereaux/FW

PLOT SIZE: 1' x 2'
 PLOT INTERVAL: 100
 PLOTS: 20

DATE: 10/22/2019

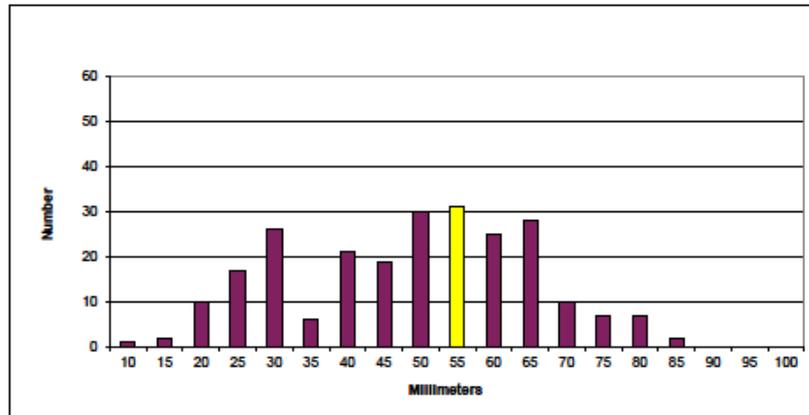
ACRES: 29

Length (mm)	# of Clams	% Number
10-14	1	0.4%
15-19	2	0.8%
20-24	10	4.1%
25-29	17	7.0%
30-34	26	10.7%
35-39	6	2.5%
40-44	21	8.7%
45-49	19	7.9%
50-54	30	12.4%
55-59	31	12.8%
60-64	25	10.3%
65-69	28	11.6%
70-74	10	4.1%
75-79	7	2.9%
80-84	7	2.9%
85-89	2	0.8%
90-94	0	0.0%
95-99	0	0.0%
100	0	0.0%

Total # of Clams	242
Total # of Clams > 50.8mm	110
% of clams > 50.8mm	45.45%
Total Average Bu./Acre	216.33
Total Avg. Bu./Acre > 50.8mm	167.47
Total standing crop (bu)	6273
Total standing crop > 50.8mm	4857
% of crop > 50.8mm	77.42%

Conversion Inches to Millimeters

.5" = 12.7 mm
 1" = 25.4mm
 2" = 50.8 mm
 2.5" = 63.5 mm
 3" = 76.2 mm
 3.5" = 88.9 mm



Penneville, Middle Bay



Survey Results

TOWN: Penneville
 FLAT: Brunswick
 CREW: Devereaux/FW

PLOT SIZE: 1' x 2'
 PLOT INTERVAL: 100
 PLOTS: 67

DATE: 10/21/2019

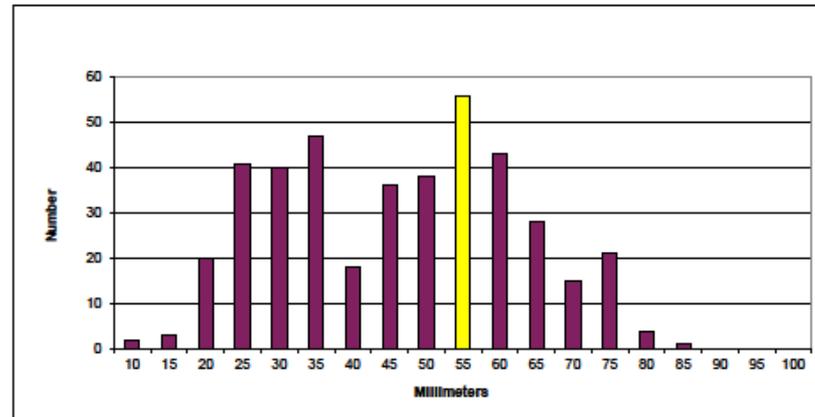
ACRES: 40

Length (mm)	# of Clams	% Number
10-14	2	0.5%
15-19	3	0.7%
20-24	20	4.8%
25-29	41	9.9%
30-34	40	9.7%
35-39	47	11.4%
40-44	18	4.4%
45-49	36	8.7%
50-54	38	9.2%
55-59	56	13.6%
60-64	43	10.4%
65-69	28	6.8%
70-74	15	3.6%
75-79	21	5.1%
80-84	4	1.0%
85-89	1	0.2%
90-94	0	0.0%
95-99	0	0.0%
100	0	0.0%

Total # of Clams	413
Total # of Clams > 50.8mm	168
% of clams > 50.8mm	40.68%
Total Average Bu./Acre	96.67
Total Avg. Bu./Acre > 50.8mm	73.05
Total standing crop (bu)	3867
Total standing crop > 50.8mm	2922
% of crop > 50.8mm	75.57%

Conversion Inches to Millimeters

.5" = 12.7 mm
 1" = 25.4mm
 2" = 50.8 mm
 2.5' = 63.5 mm
 3" = 76.2 mm
 3.5" = 88.9 mm



Smith Cove, Mere Point Bay



Survey Results

TOWN: Smith Cove
 FLAT: Brunswick
 CREW: Devereaux/FW

PLOT SIZE: 1' x 2'
 PLOT INTERVAL: 100
 PLOTS: 32

DATE: 11/4/2019

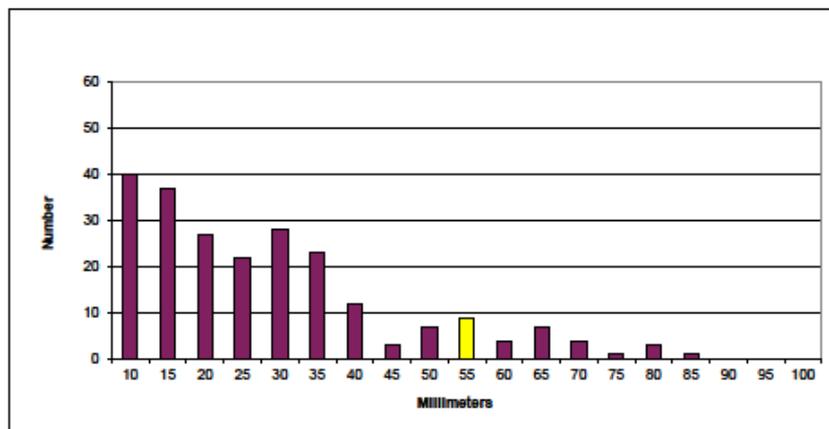
ACRES: 7

Length (mm)	# of Clams	% Number
10-14	40	17.5%
15-19	37	16.2%
20-24	27	11.8%
25-29	22	9.6%
30-34	28	12.3%
35-39	23	10.1%
40-44	12	5.3%
45-49	3	1.3%
50-54	7	3.1%
55-59	9	3.9%
60-64	4	1.8%
65-69	7	3.1%
70-74	4	1.8%
75-79	1	0.4%
80-84	3	1.3%
85-89	1	0.4%
90-94	0	0.0%
95-99	0	0.0%
100	0	0.0%

Total # of Clams	228
Total # of Clams > 50.8mm	29
% of clams > 50.8mm	12.72%
Total Average Bu./Acre	46.22
Total Avg. Bu./Acre > 50.8mm	29.11
Total standing crop (bu)	324
Total standing crop > 50.8mm	204
% of crop > 50.8mm	62.99%

Conversion Inches to Millimeters

.5" = 12.7 mm
 1" = 25.4mm
 2" = 50.8 mm
 2.5" = 63.5 mm
 3" = 76.2 mm
 3.5" = 88.9 mm



Thomas Point, New Meadows River



Survey Results

TOWN: TPB
 FLAT: Brunswick
 CREW: Devereaux/FW

PLOT SIZE: 1' x 2'
 PLOT INTERVAL: 100
 PLOTS: 79

DATE: 10/14/2019 and 10/18/19

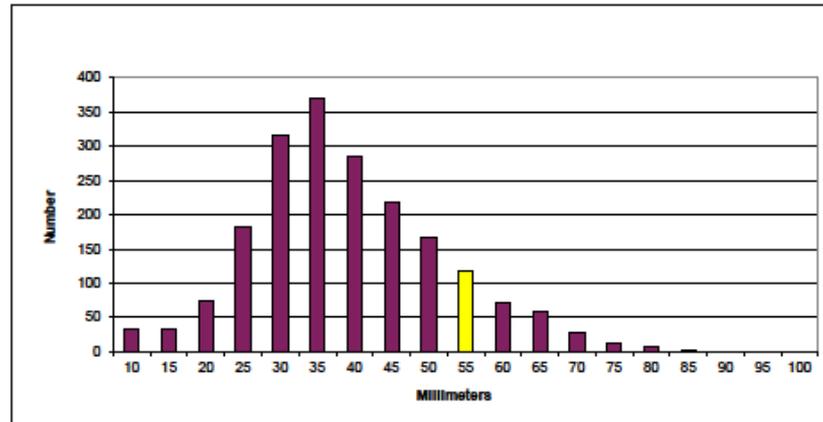
ACRES: 32

Length (mm)	# of Clams	% Number
10-14	33	1.7%
15-19	34	1.7%
20-24	75	3.8%
25-29	181	9.2%
30-34	316	16.0%
35-39	370	18.7%
40-44	286	14.5%
45-49	218	11.0%
50-54	167	8.5%
55-59	117	5.9%
60-64	71	3.6%
65-69	59	3.0%
70-74	28	1.4%
75-79	12	0.6%
80-84	7	0.4%
85-89	2	0.1%
90-94	0	0.0%
95-99	0	0.0%
100	0	0.0%

Total # of Clams	1976
Total # of Clams > 50.8mm	296
% of clams > 50.8mm	14.98%
Total Average Bu./Acre	235.37
Total Avg. Bu./Acre > 50.8mm	101.78
Total standing crop (bu)	7532
Total standing crop > 50.8mm	3257
% of crop > 50.8mm	43.24%

Conversion Inches to Millimeters

.5" = 12.7 mm
 1" = 25.4mm
 2" = 50.8 mm
 2.5' = 63.5 mm
 3" = 76.2 mm
 3.5" = 88.9 mm



2019 License Allocations

Resident Commercial 56
Non-Resident Commercial 6
Student Bushel Licenses 17*
Bushel License 0
Recreational Licenses 74

2018 Student Harvest = 250,000 Quahogs & 281 lbs. Softshell Clams

EFFORT

*Softshell Clams = Est. 209 Days of Harvest @ an estimated 100 lbs. per day
&*

Hardshell Clams = Est. 209 Days of Harvest @ an estimated 1400 pieces per day

*** 2019 Est. Standing Softshell Clam Crop = 21,403 Bushels or 1.07 Million lbs.**

*** 2019 Est. Standing Hardshell Clam Crop = 8,388 Bushels or 5.8 Million Pcs.**

Calculated Total Number of Commercial Licenses = 77 (56 SS & 21 HS)

15 % +/- Marine Resource Committee Discretion = 66 to 88

Recommendation

59 Resident Commercial Licenses

6 Non Resident Commercial License

13 Resident Student Licenses

2 Non- Resident Student License

0 Bushel Licenses

Unlimited Recreational Licenses

*** 2017 Estimates (Softshell = 1.2 Million Lbs. ~~Down 207,350 Lbs.~~) (Quahogs = 2.4 Million Pieces ~~Up 3.4 Million Pieces~~)**