

2021 Shellfish Inventory Surveys



Coastal Resource Office
85 Union Street
Brunswick, Maine 04011
207-721-4027

Brunswick
maine



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 in account 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

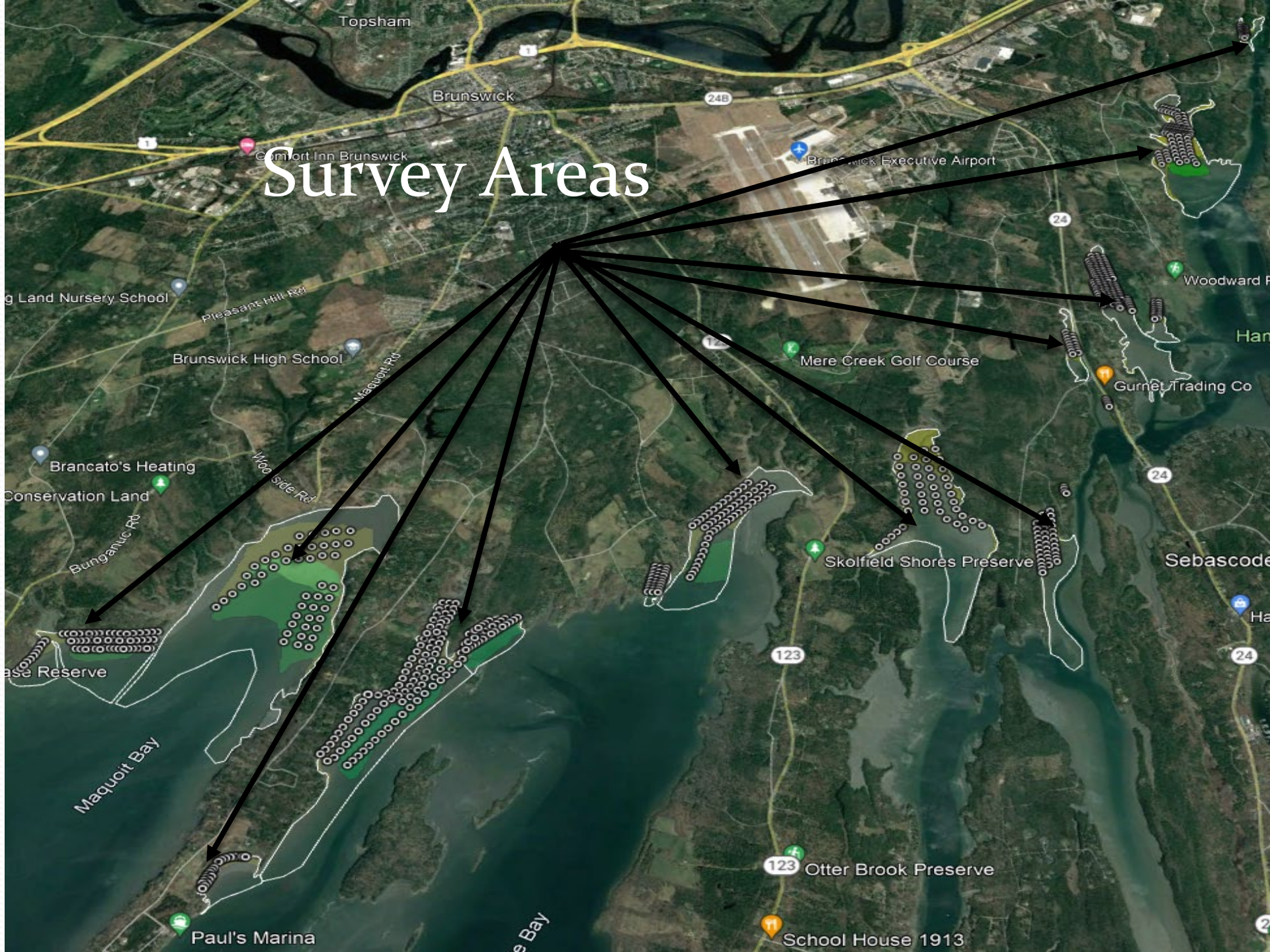
- Commercial Fishing
- Shellfishing
- Aquaculture
- Commercial Guiding
- Boat Repairs/Mooring's
- Island Transports
- Marinas

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)
	Androscoggin River	1,050	---	---	---
6	Tidal	810	300 (37%)	460 (57%)	50 (6%)
	Non-Tidal	240	---	---	---

Survey Areas





Species Surveyed

Softshell Clams

Hardshell Clams

Species Noted

Blood & Sand Worms

Ribbon Worms

Green Crabs

Historical Commercial License Allocations

(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 =	65

62 Average # of Licenses over 23 Years

*= Re-evaluation of average harvest

**=Green Crab Inundation

***=Implementation of Ramped Up Student License Program

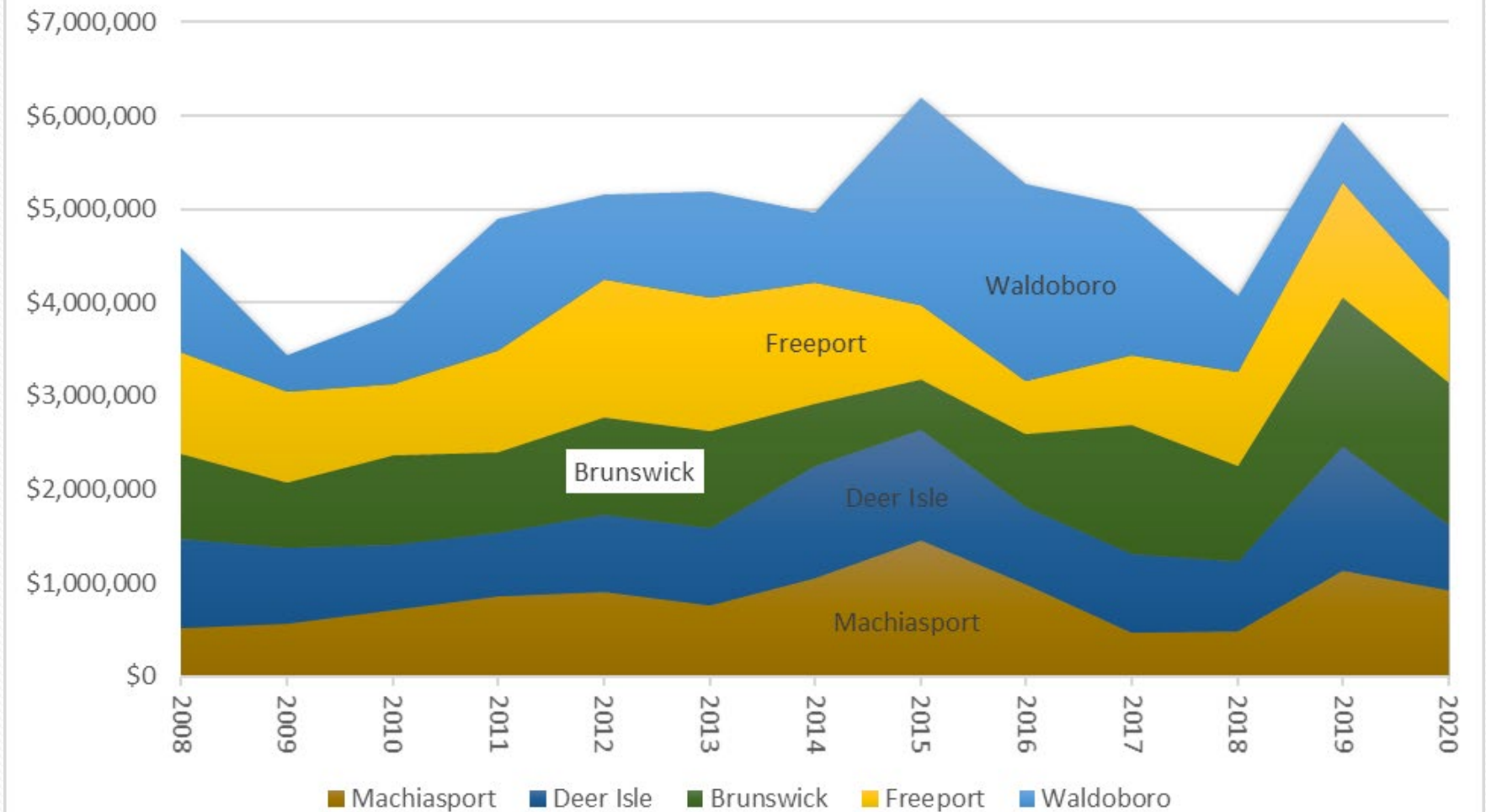
Student License Allocations

(Includes Resident and Non-Resident)

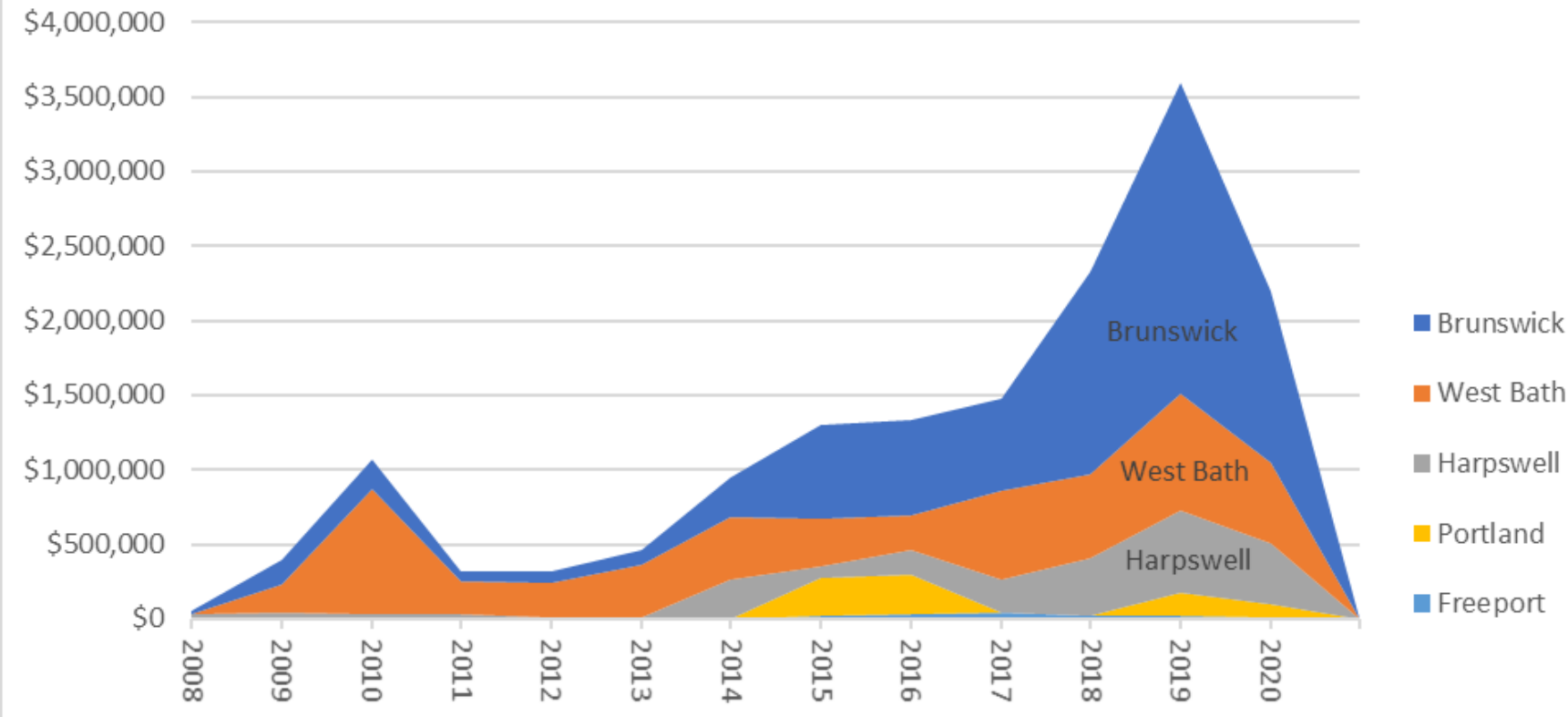
• 1998-1999 =	5	• 2009-2010 =	10
• 1999-2000 =	5	• 2010-2011 =	0
• 2000-2001 =	5	• 2011-2012 =	0
• 2001-2002 =	5	• 2012-2013 =	0
• 2002-2003 =	5	• 2013-2014 =	9
• 2003-2004 =	6	• 2014-2015 =	11
• 2004-2005 =	10	• 2015-2016 =	11
• 2005-2006 =	10	• 2016-2017 =	11
• 2006-2007 =	10	• 2017-2018 =	15
• 2007-2008 =	10	• 2018-2019 =	15
• 2008-2009 =	10	• 2019-2020 =	17
		• 2020-2021 =	17
		• 2021-2022 =	17

Average of 8 licenses over 23 years.

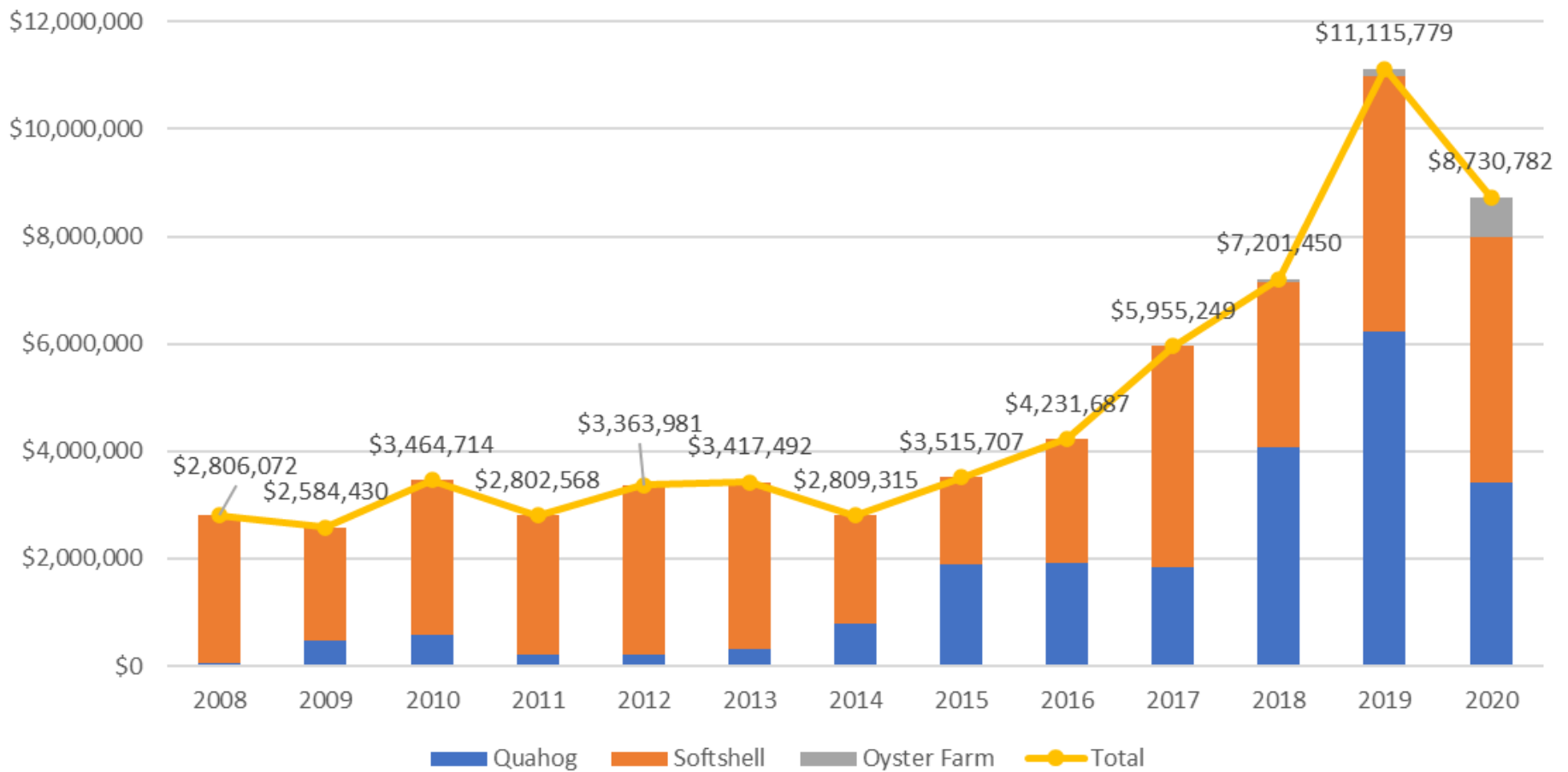
Top 5 Maine Softshell Clam Ports by \$ Value



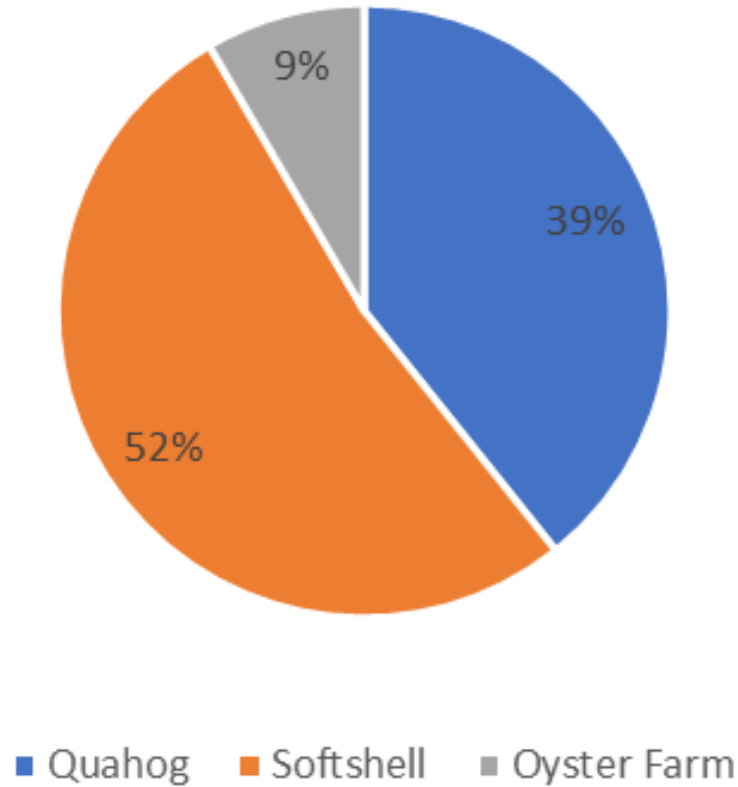
Top 5 ME Quahog Ports by \$ Value



Brunswick Shellfish Total Economic Contribution



2020 Brunswick Shellfish % by Total Value



2021 Shellfish Inventory Stock Assessment

t Nixon



Barnes Landing



Acres: 5/5
SS Standing Crop: 240
HS Standing Crop: 214

Figure 1. Barnes Landing Softshell

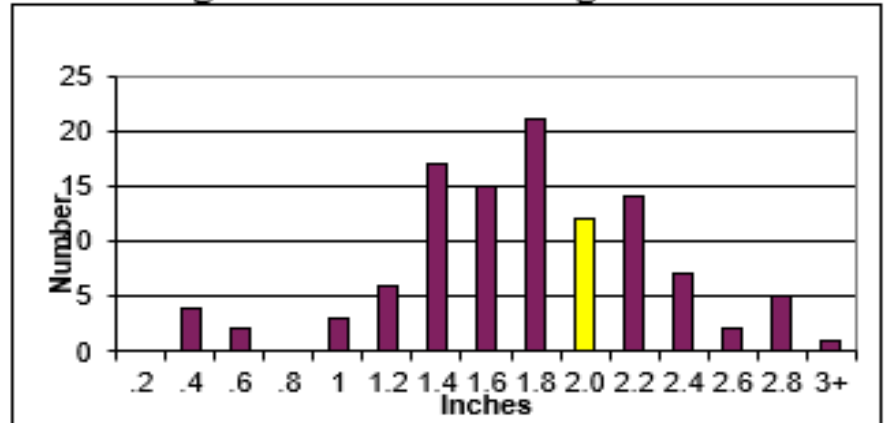
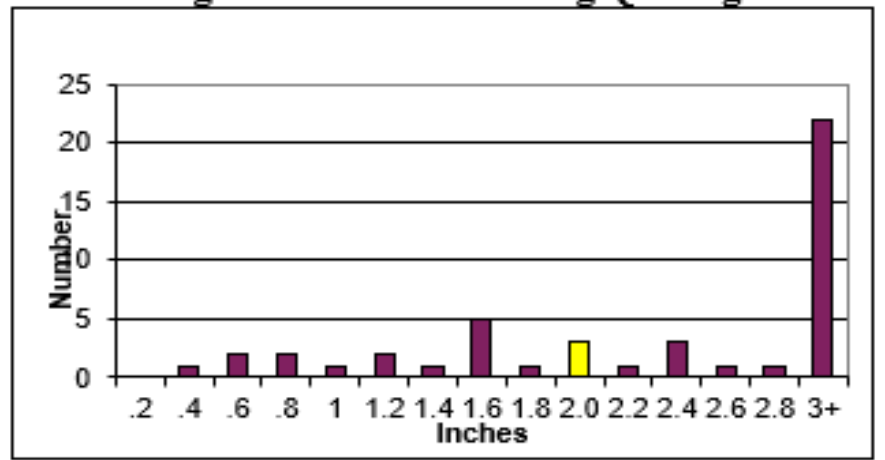


Figure 2. Barnes Landing Quahogs



Big Bull Pen



Acres: 25/0

SS Standing Crop: 1835

HS Standing Crop: 0

Figure 3. Big Bullpen Softshell

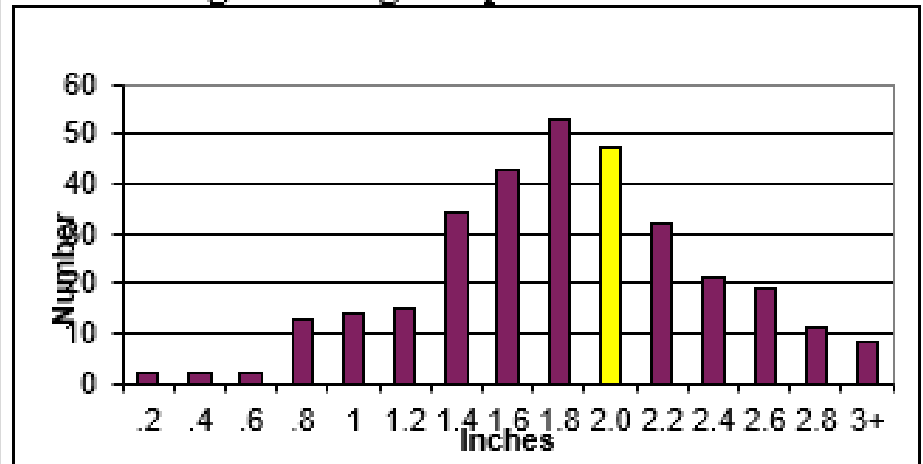
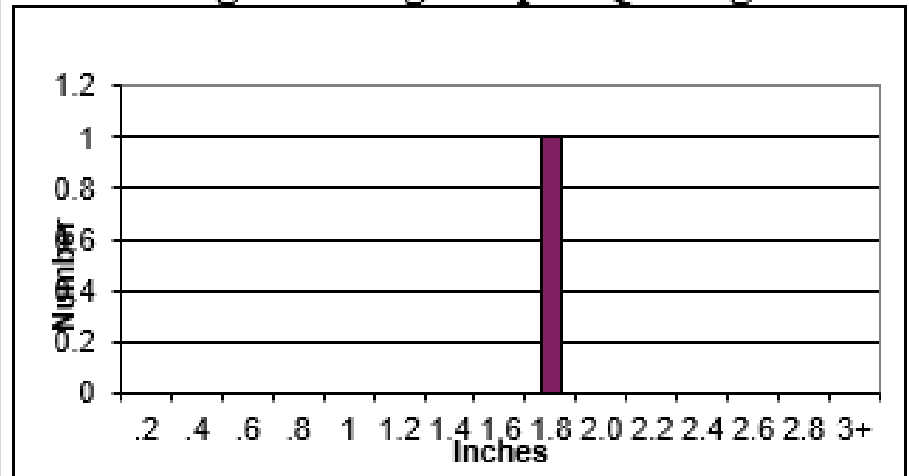


Figure 4. Big Bullpen Quahogs



Bull Rock



Acres: 4/3

SS Standing Crop: 214

HS Standing Crop: 94

Figure 5. Bull Rock Softshell

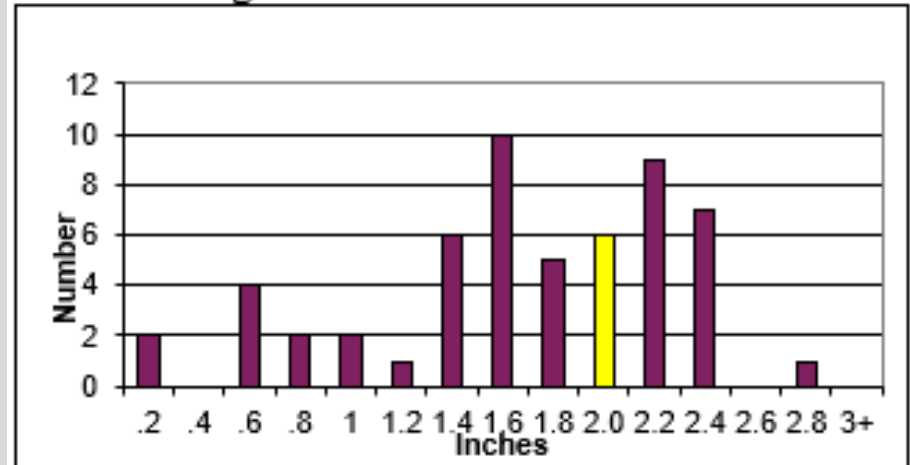
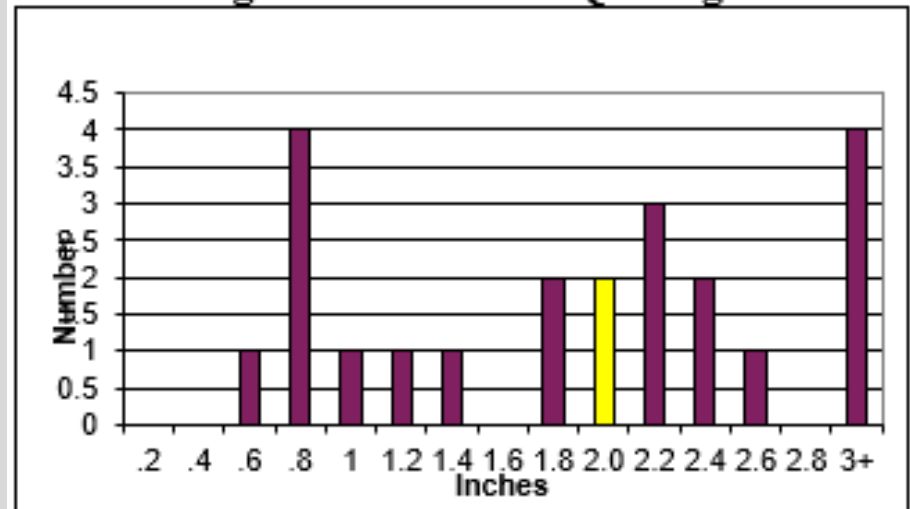


Figure 6. Bull Rock Quahogs



Bunganuc



Acres: 34/13
SS Standing Crop: 2165
HS Standing Crop: 497

Figure 7. Bunganuc Softshell

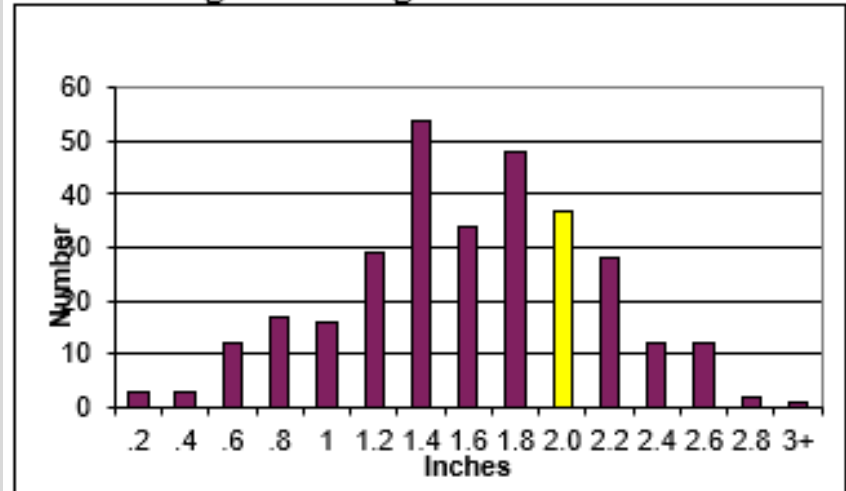
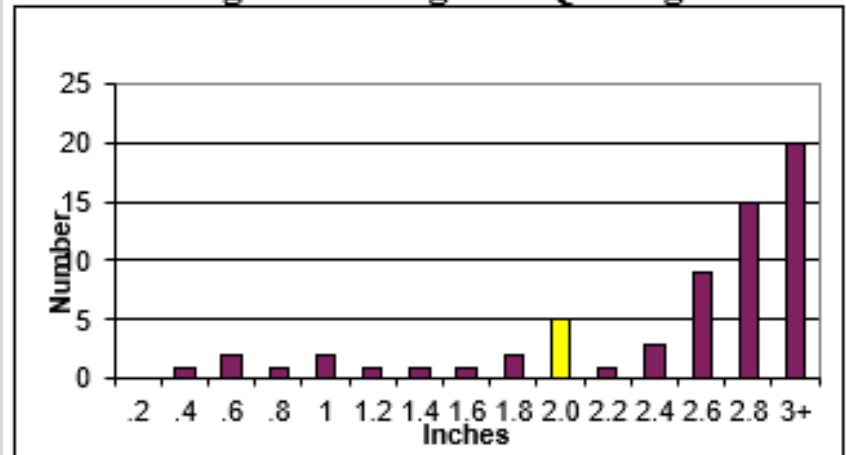
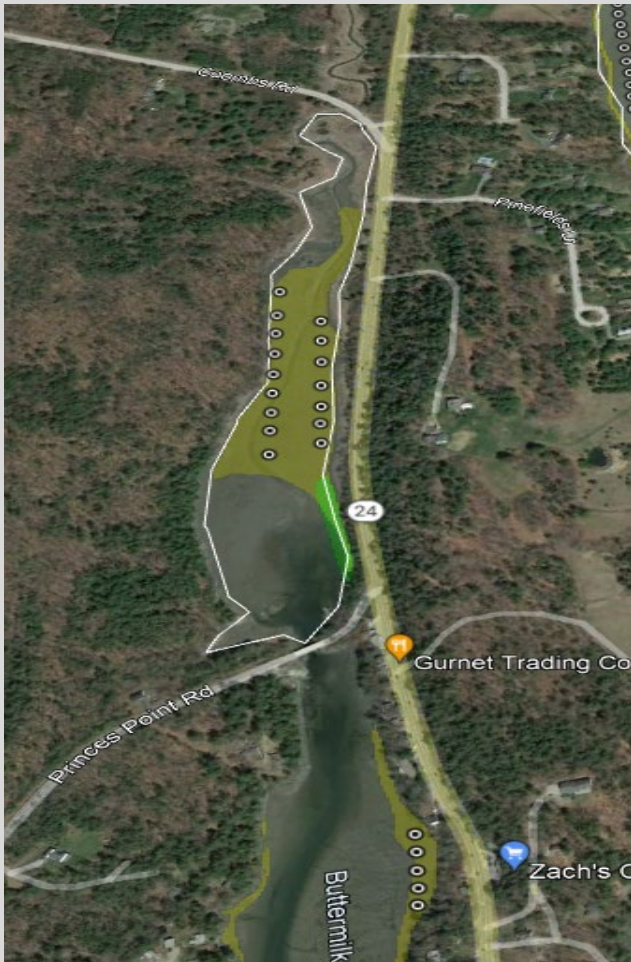


Figure 8. Bunganuc Quahog



Buttermilk



Acres: 8/1

SS Standing Crop: 434

HS Standing Crop: 0

Figure 9. Buttermilk Cove Softshell

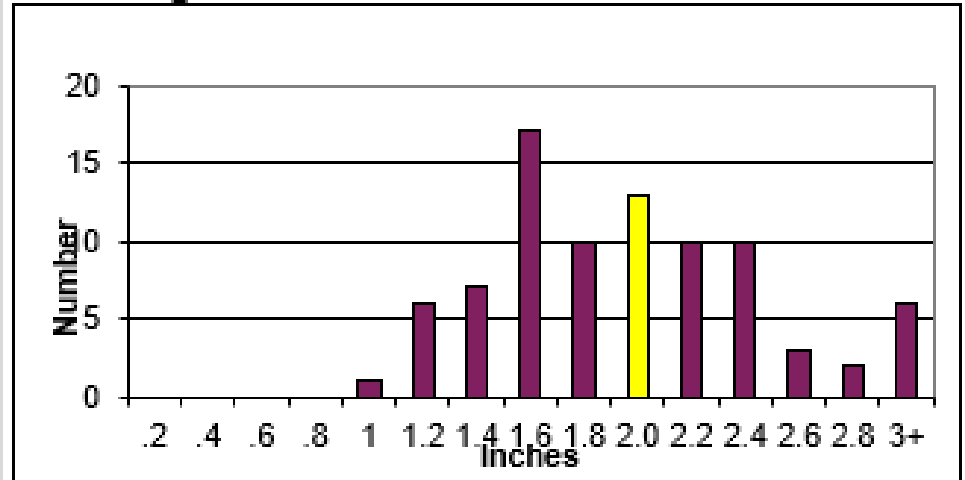
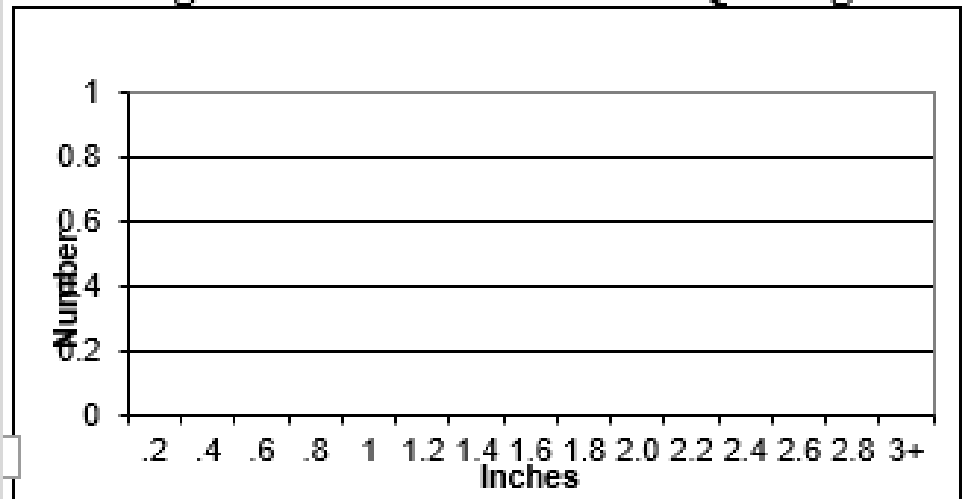


Figure 10. Buttermilk Cove Quahog



Clay Cove



Acres: 17/17

SS Standing Crop: 547

HS Standing Crop: 981

Figure 11. Clay Cove Softshell

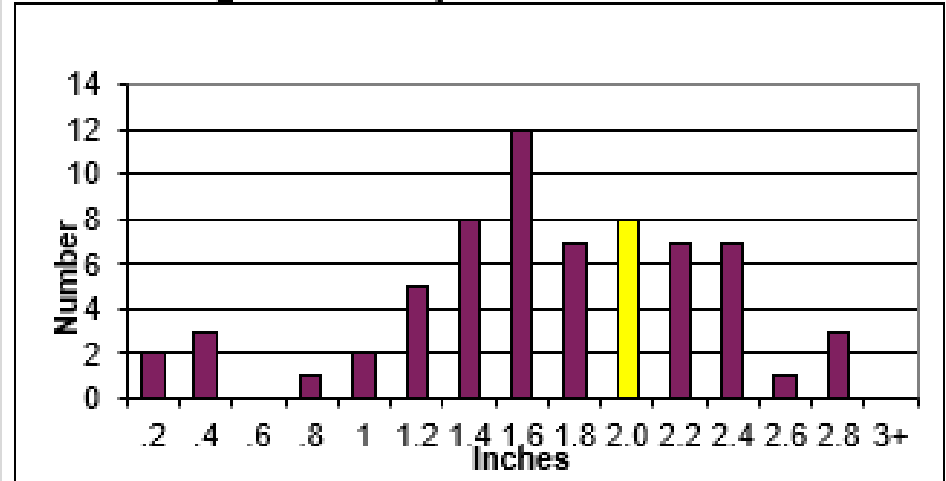
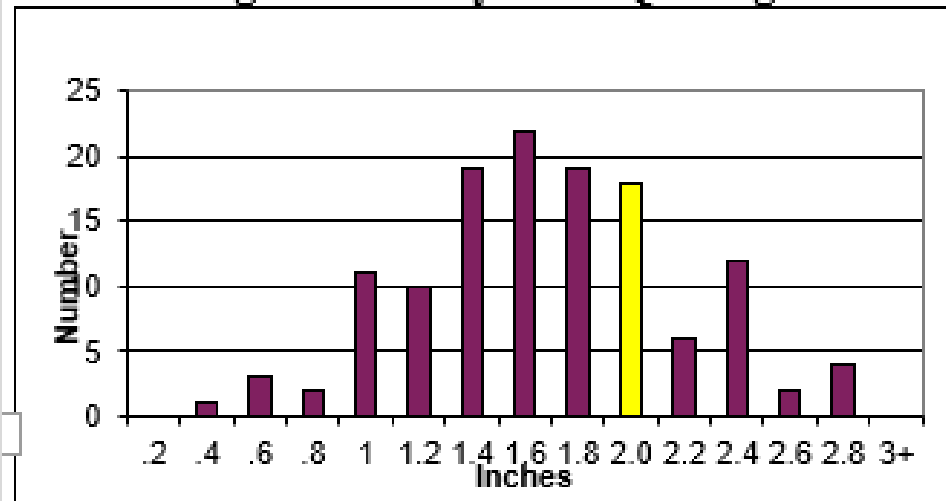


Figure 12. Clay Cove Quahog



Harpswell Cove



Acres: 20/0

SS Standing Crop: 1125

HS Standing Crop: 0

Figure 13. Harpswell Cove Softshell

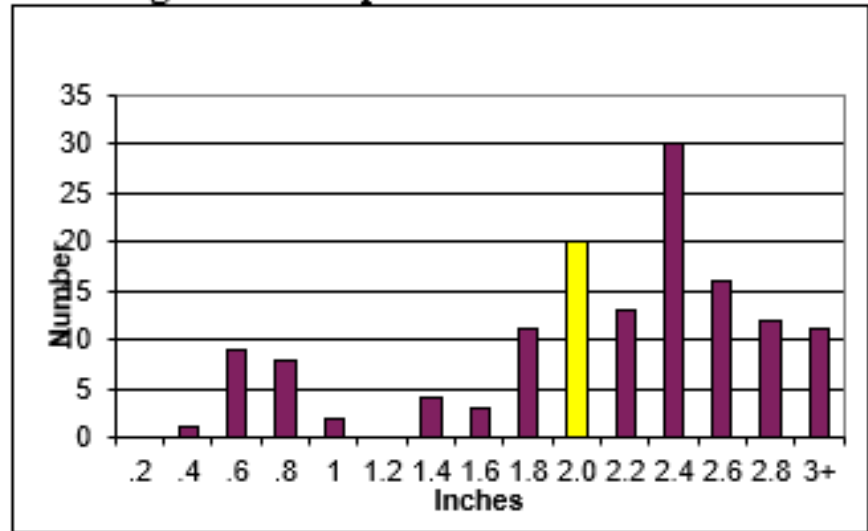
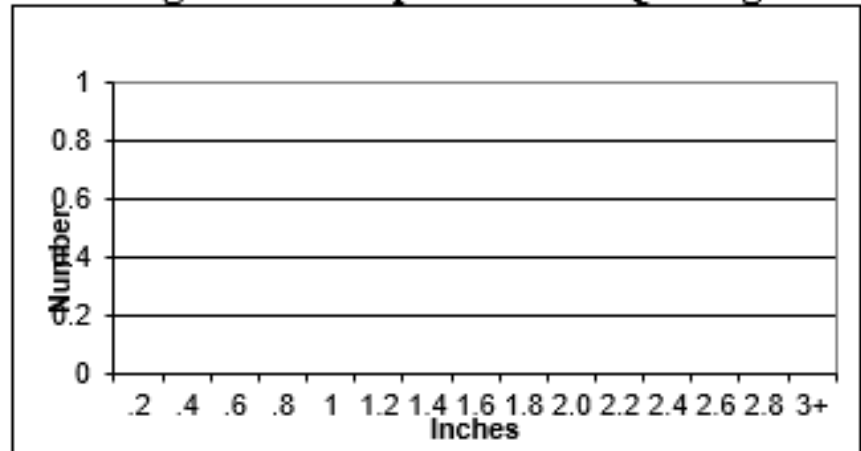


Figure 14. Harpswell Cove Quahog



Little Bullpen



Acres: 5/0

SS Standing Crop: 262

HS Standing Crop: 0

Figure 15. Little Bullpen Softshell

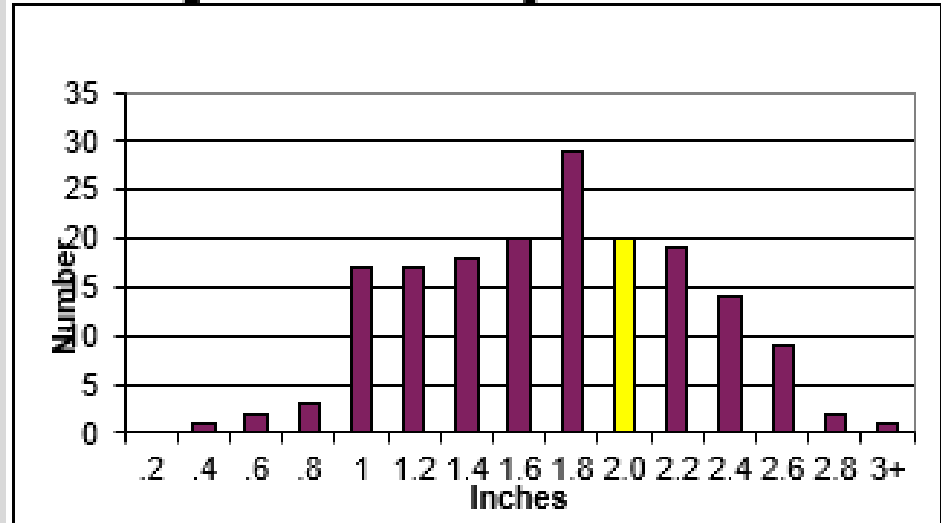
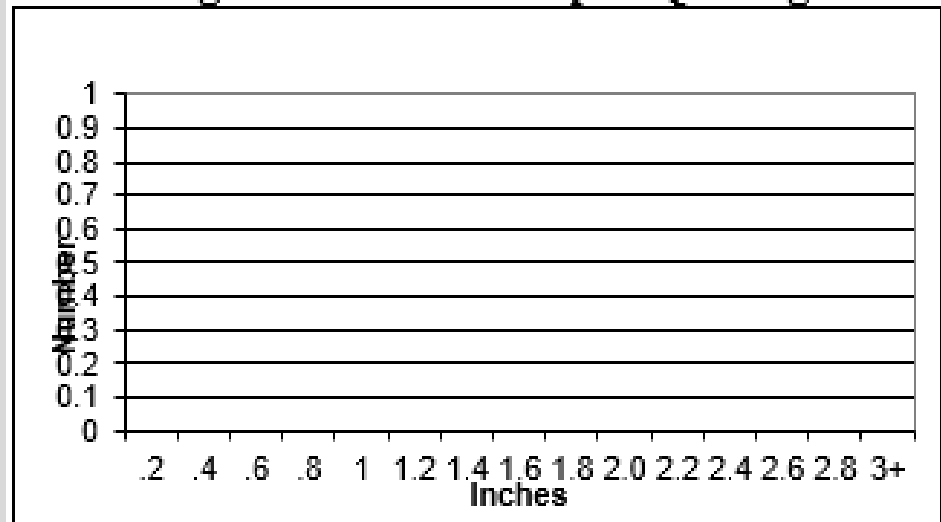


Figure 16. Little Bullpen Quahog



Long Reach



Acres: 19/4

SS Standing Crop: 543

HS Standing Crop: 62

Figure 17. Long Reach Softshell

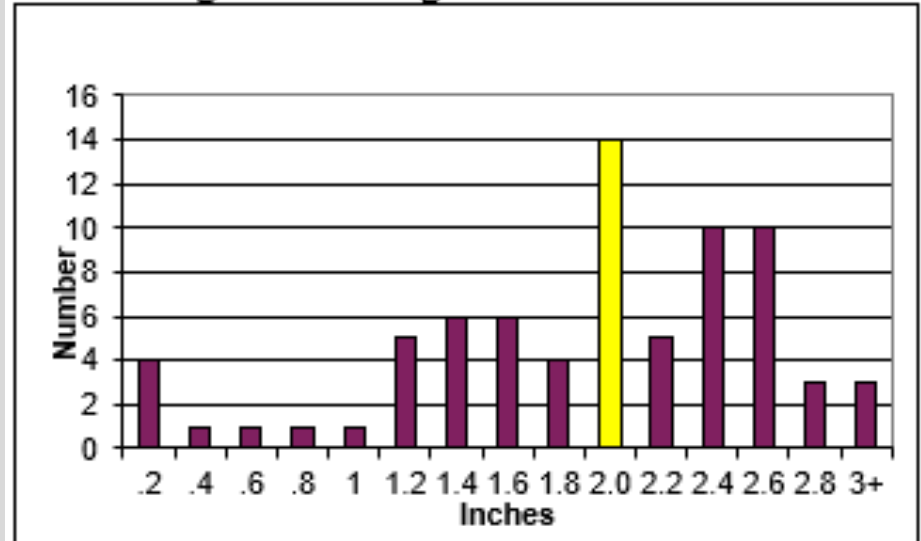
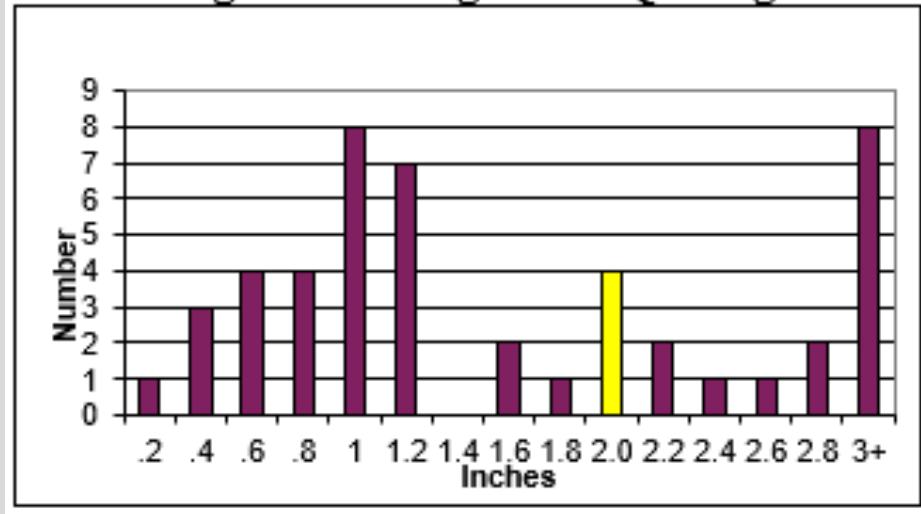


Figure 18. Long Reach Quahog



Maquoit Bay



Acres: 143/0

SS Standing Crop: 6595

HS Standing Crop: 9630

Figure 19. Maquoit Softshell

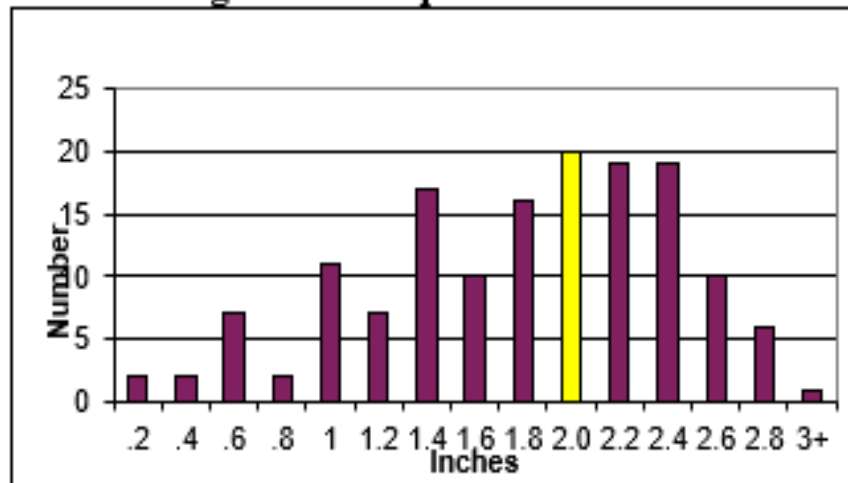
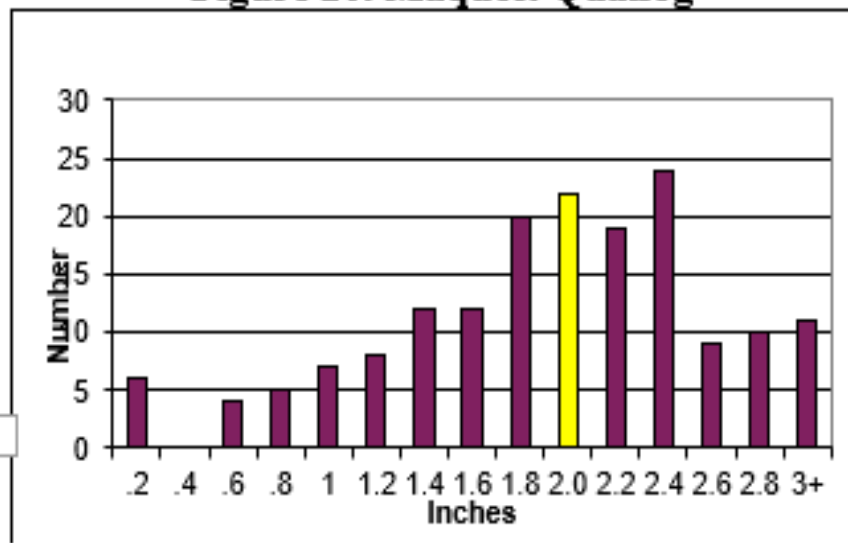


Figure 20. Maquoit Quahog



Middle Bay



Acres: 42/30

SS Standing Crop: 1470

HS Standing Crop: 1225

Figure 21. Middle Bay Softshell

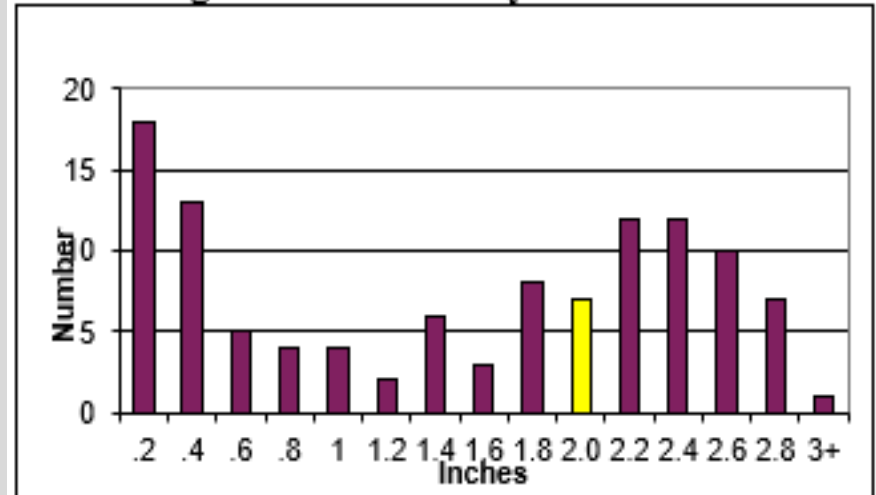
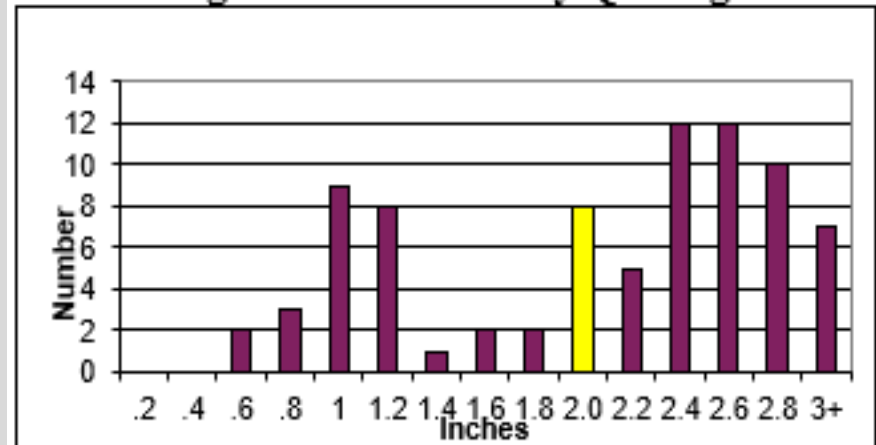


Figure 22. Middle Bay Quahog



Miller Creek /Catlin Shore



Acres: 44/51

SS Standing Crop: 408

HS Standing Crop: 2699

Figure 23. Miller Creek Softshell

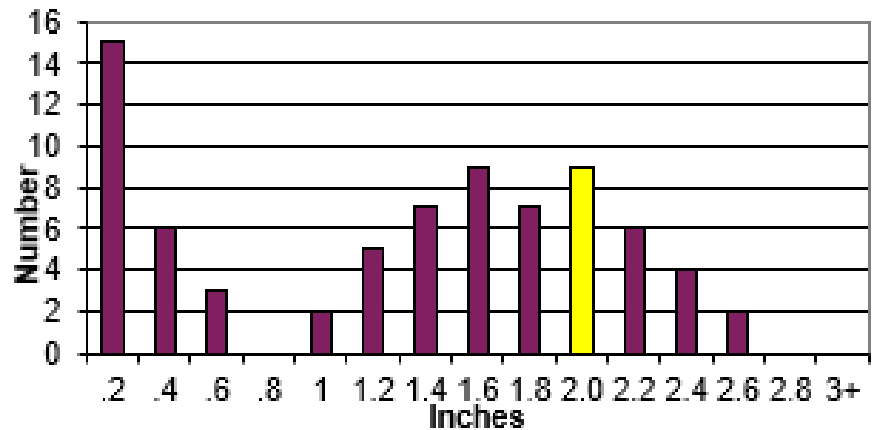
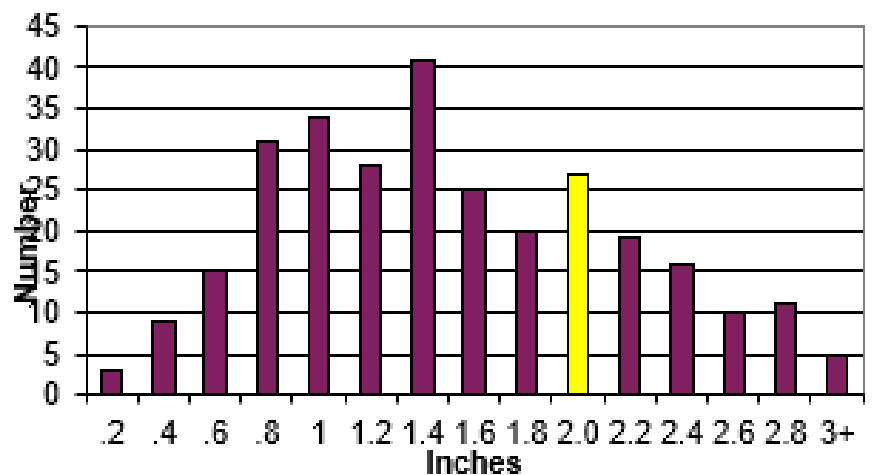


Figure 24. Miller Creek Quahog



Thomas Point Beach



Acres: 33/37

SS Standing Crop: 8358

HS Standing Crop: 549

Figure 25. Thomas Point Beach Softshell

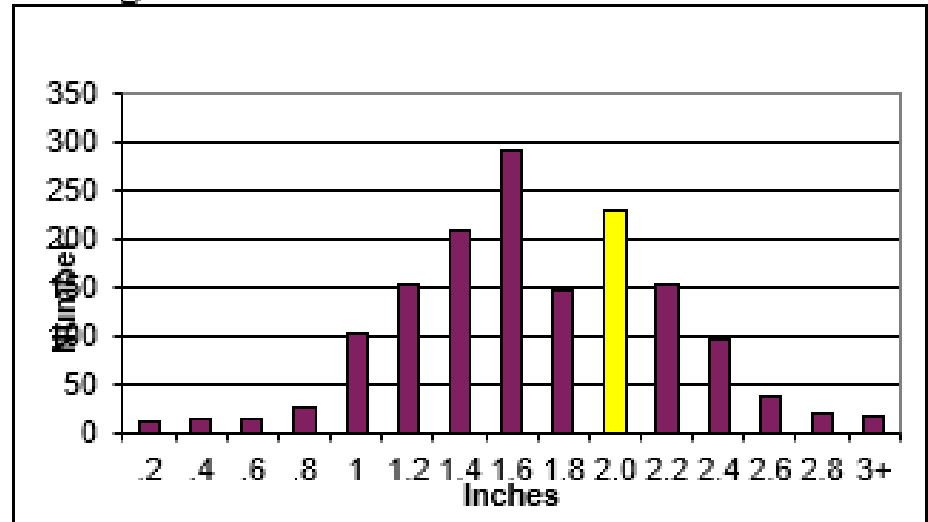
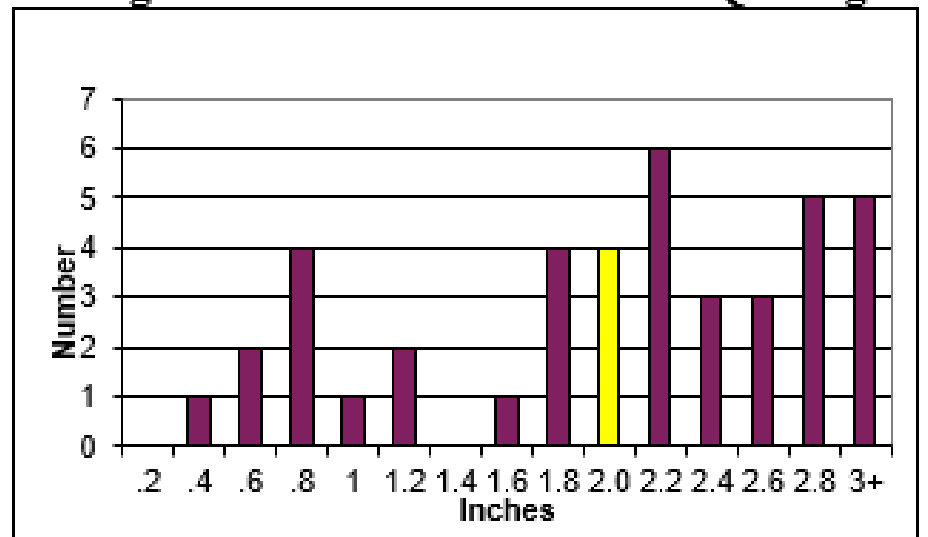


Figure 26. Thomas Point Beach Quahog



- Softshell Clams = Est. 225 Days of Harvest @ an estimated ~~100~~ **125** lbs. per day (**2.5 bushels**)
&
- Hardshell Clams = Est. 200 Days of Harvest @ an estimated ~~1400~~ **1750** pieces per day (**2.5 bushels**)
- * 2022 Est. Standing Softshell Clam Crop = **23,335 Bushels** or **1.16 Million lbs.**
- * 2022 Est. Standing Hardshell Clam Crop = **13,252 Bushels** or **9.1 Million Pcs.**
- Calculated Total Number of Commercial Licenses = ~~85~~ **67** (~~52~~ **41** SS & ~~33~~ **26** HS)
- 15 % +/- Marine Resource Committee Discretion = ~~57~~ **73** to ~~97~~ **77**
- Staff Recommendation ~~63~~ **60** Resident Commercial Licenses (Increase of ~~6~~ **3**)
 ~~7~~ **6** Non-Resident Commercial License (**NO** Increase of ~~1~~ **0**)
 13 Resident Student Licenses
 2 Non- Resident Student License
 2 Bushel Licenses
 Unlimited Recreational Licenses

* 2019 Estimates (Softshell = 1.16 Million lbs. **Up 90,000 lbs.**) (Quahogs = 9.1 Million Pieces **Up 3.3 Million Pieces**)