



2023 Shellfish License Allocation

Agenda Item

Shellfish Survey & License Allocation Overview

- Committee Questions

Public Comment

- Questions and Comments from public

Committee Discussion

- Make License Allocation Recommendation
- ACTION ITEM**



Survey Purpose

- Shellfish Inventory Surveys are completed every other year.
- The surveys determine an estimated standing crop.
- The standing crop is used to determine the amount of resident commercial licenses to be issued +/- 15%



Hardshell Clam Overview



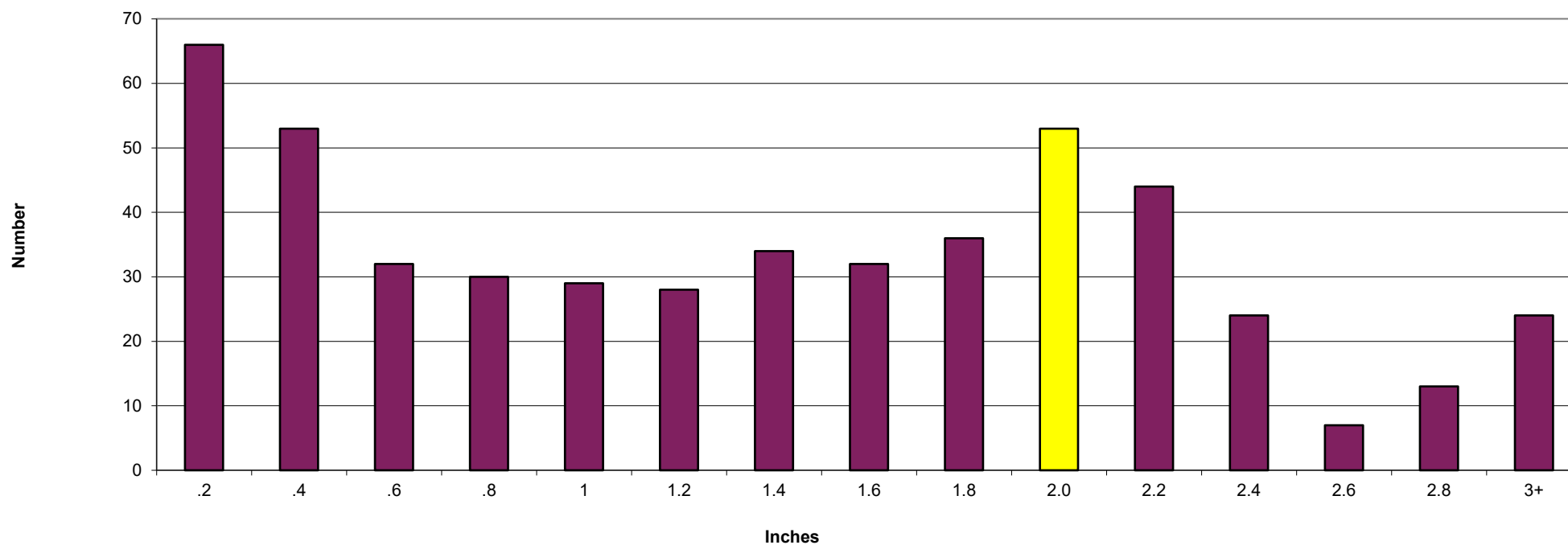
Northern Quahog (*Mercenaria mercenaria*)

Female Reproductive Rate 1-5 million eggs per spawning event

Climate Susceptibility MODERATE

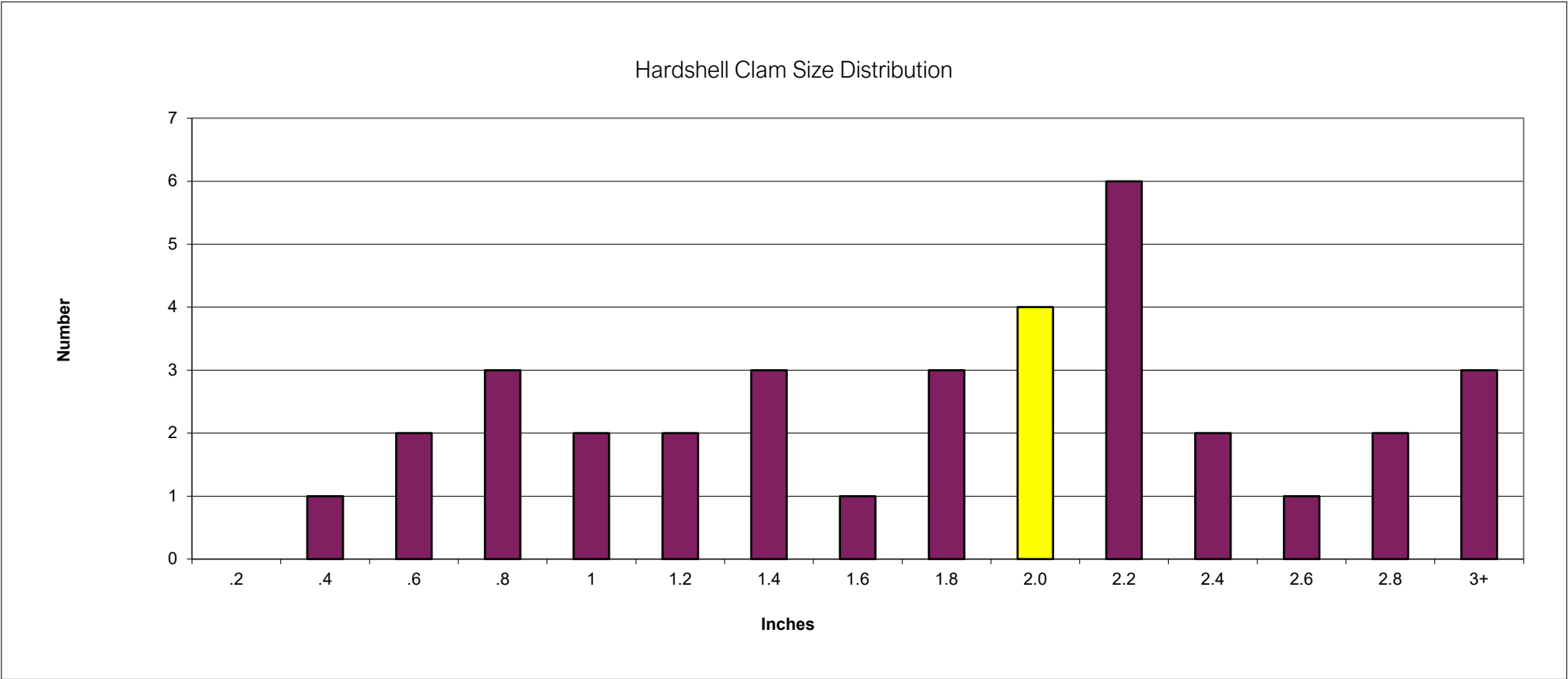
Upper Middle Bay ~ Barnes Landing ~ Simpsons Point

Hardshell Clam Size Distribution



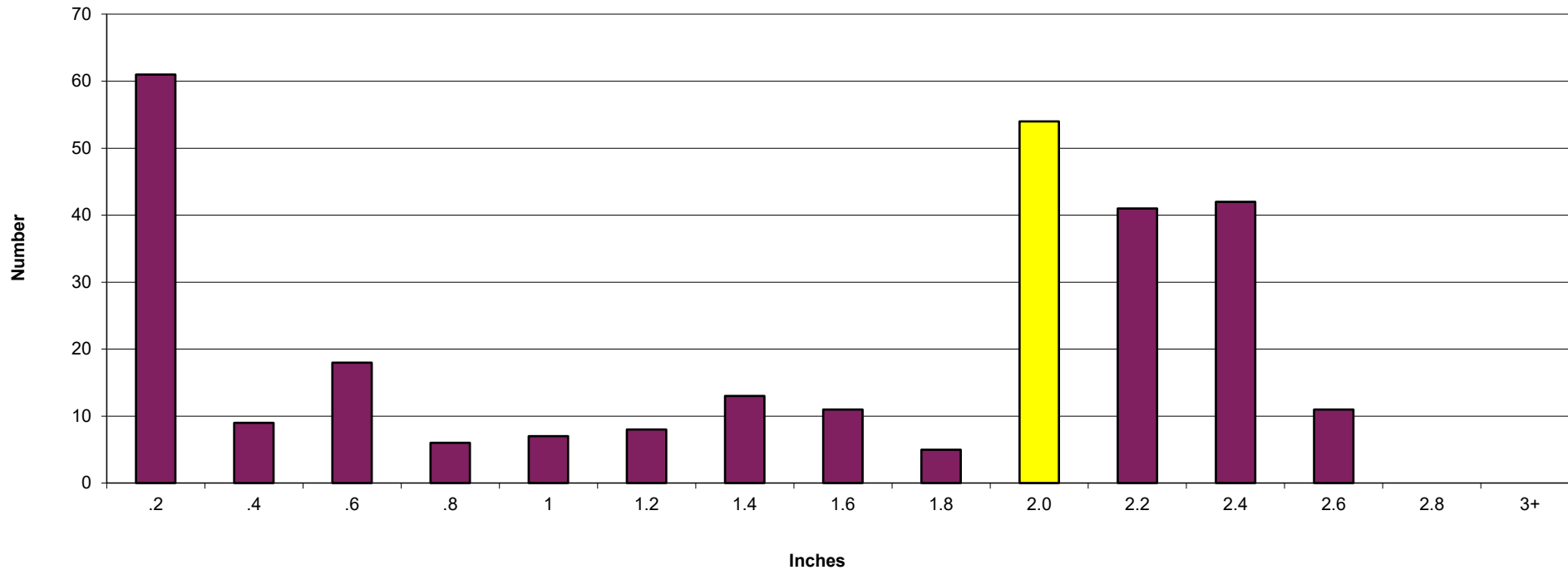
Est. Standing
Crop
1150

New Meadows River ~ Bull Rock ~ Horse Pen Cove



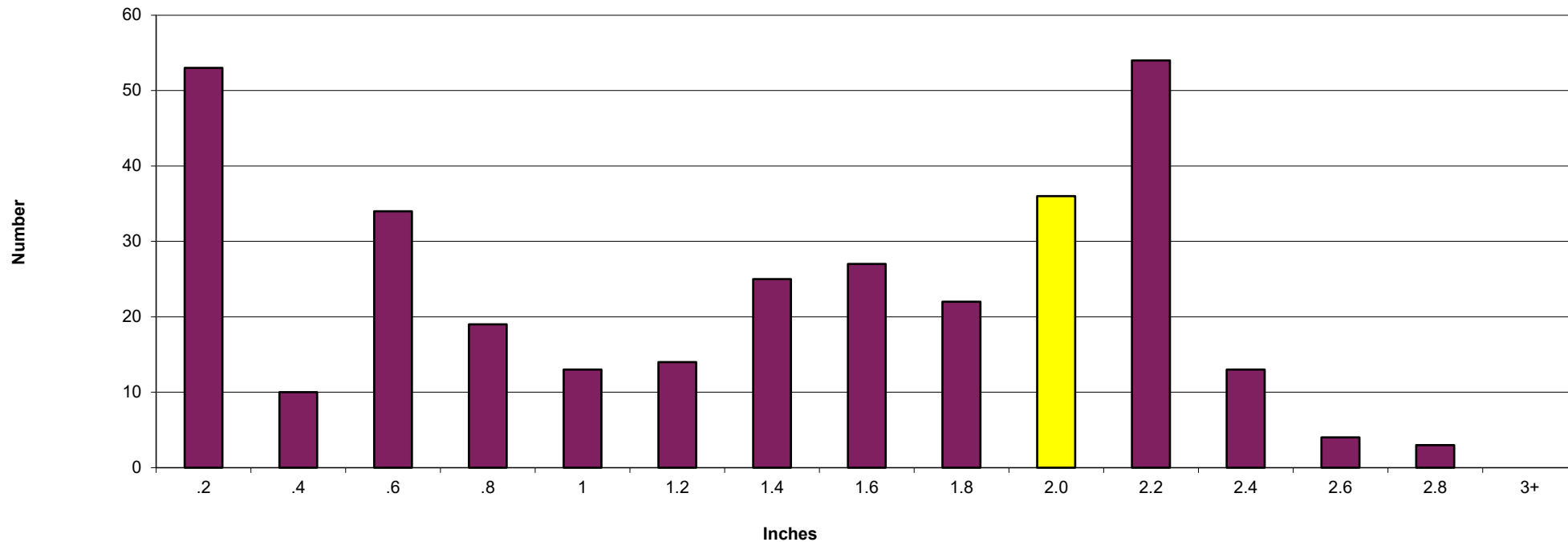
Est. Standing
Crop
45

Bunganuc Shores



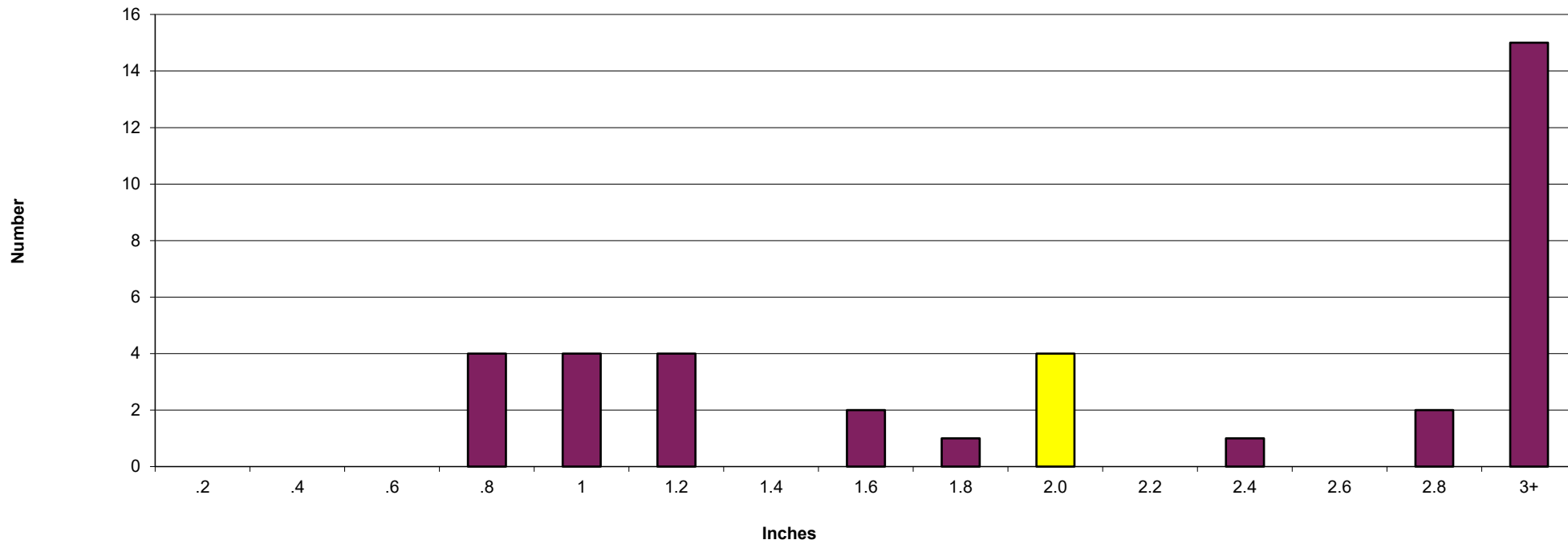
Est. Standing
Crop
644

Clay Cove ~ Miller Creek ~ Catlin Shore



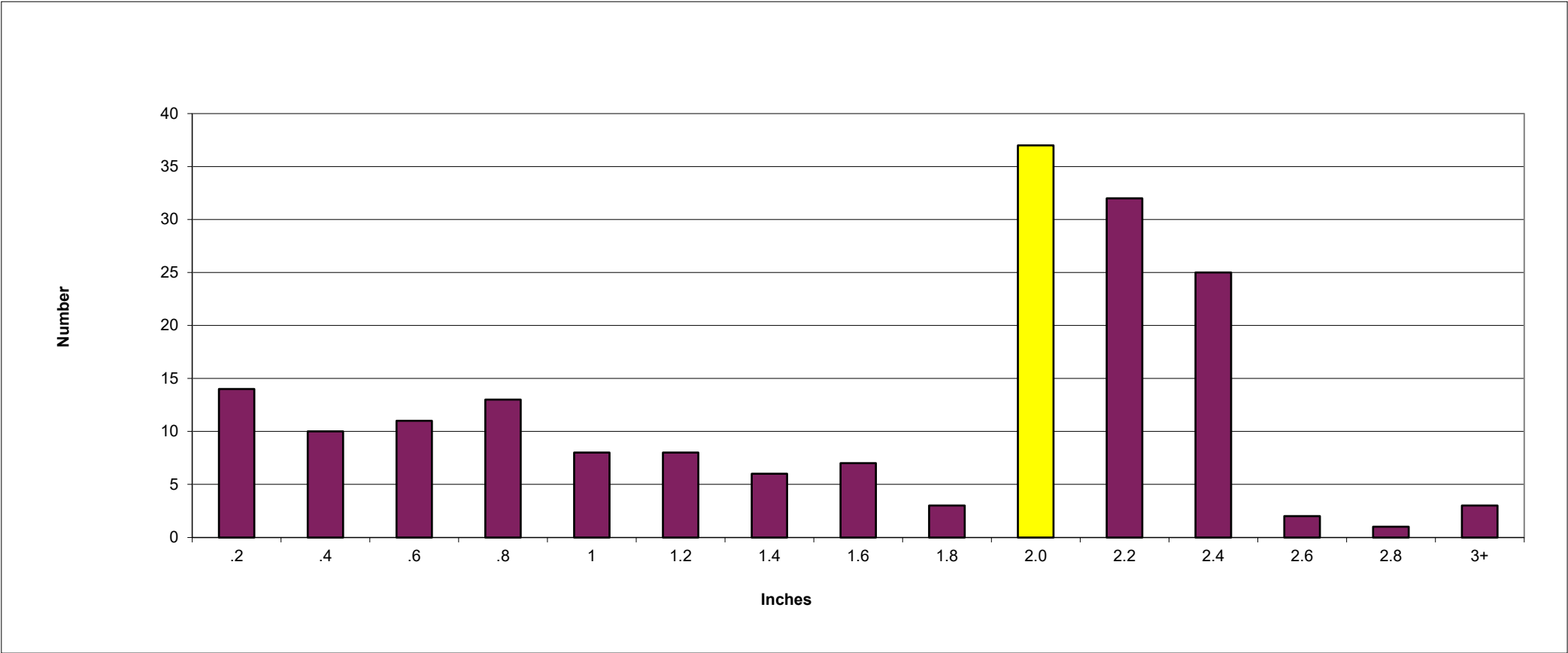
Est. Standing
Crop
5075

Princess Point ~ Long Reach ~ Buttermilk Cove



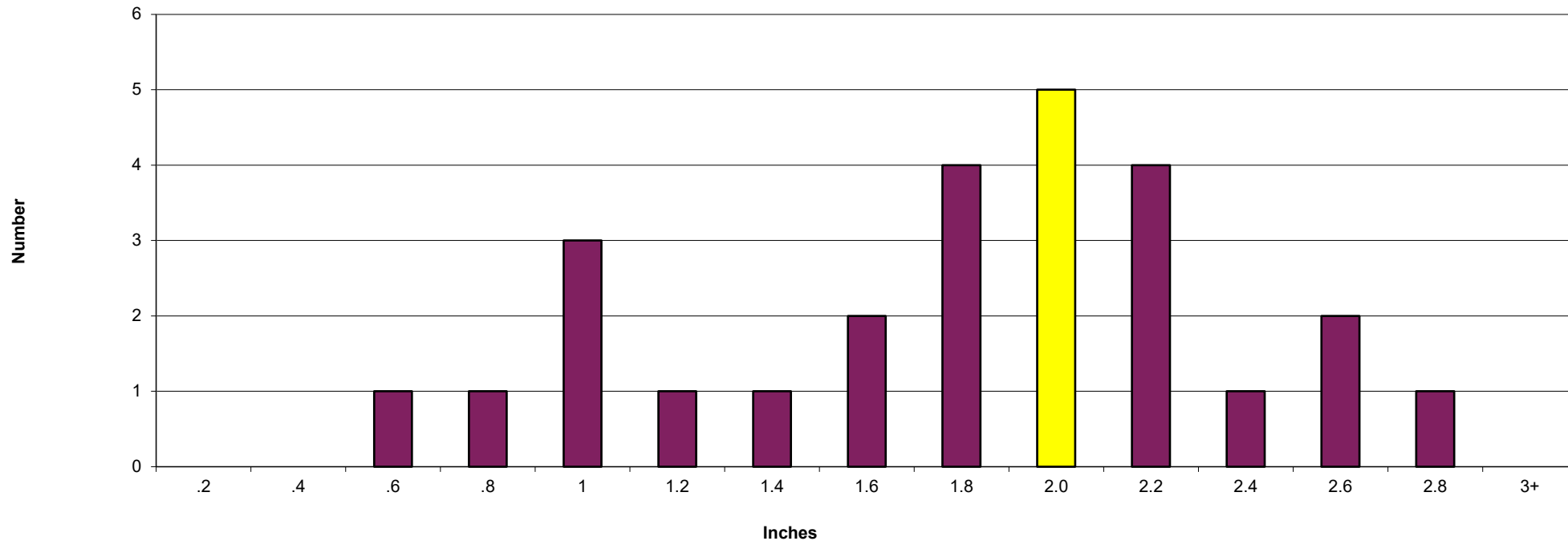
Est. Standing
Crop
214

Maquoit Bay



Est. Standing
Crop
7171

Thomas Point Beach

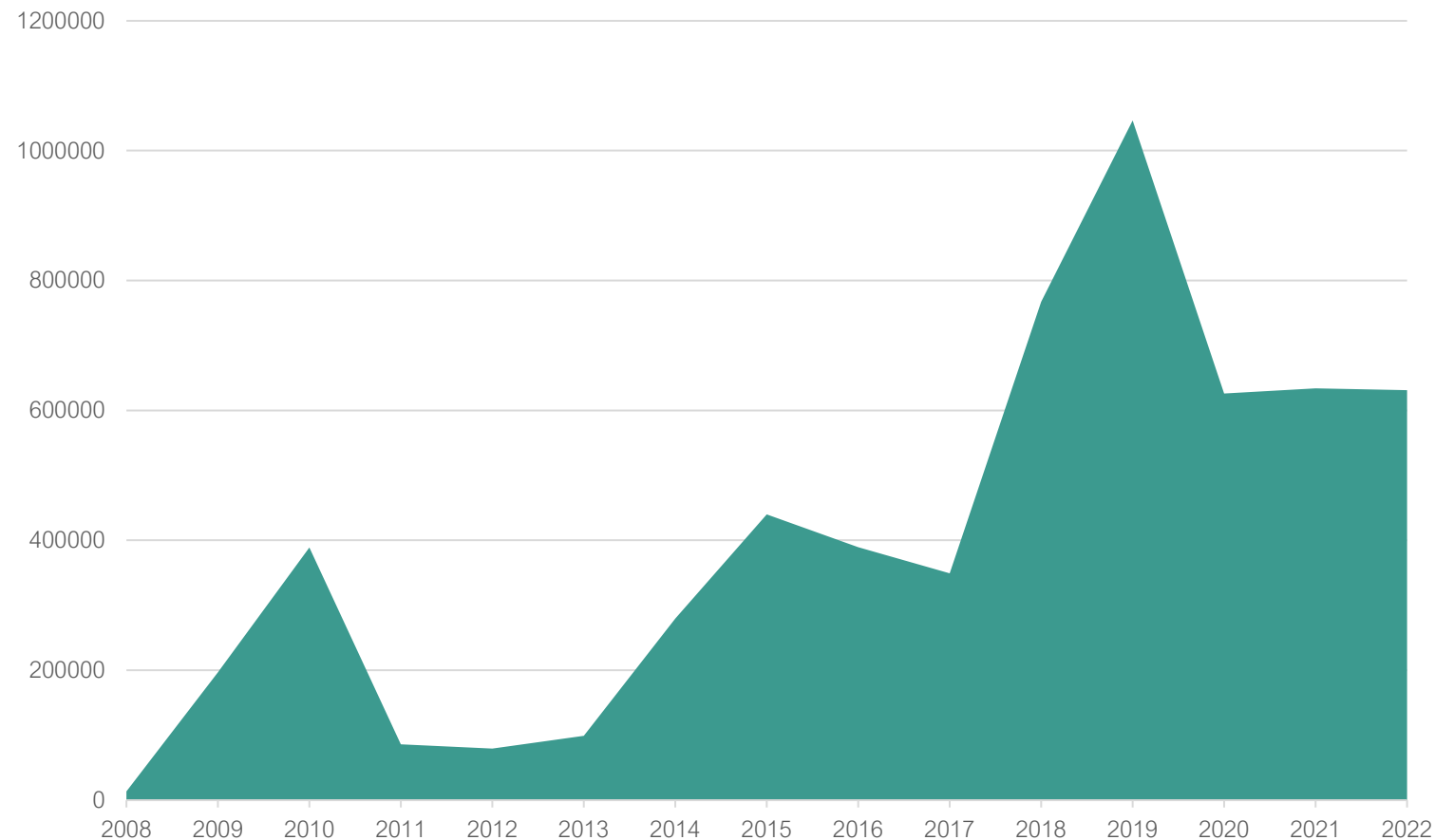


Est. Standing
Crop
366

Hardshell Clam Landing Data 08-22

2022 Student Harvest = 7,900 lbs.

08-22 Hardshell Commercial Clam Landings





Sustainable Commercial Licenses Attributed to Hardshell Clam Populations

	Standing Crop	Projected Harvest Days	Average Harvest	Sustainable Licenses
Hardshell	14666 Bushels	209 Harvest Days	2.0	35

Softshell Clam Survey Overview

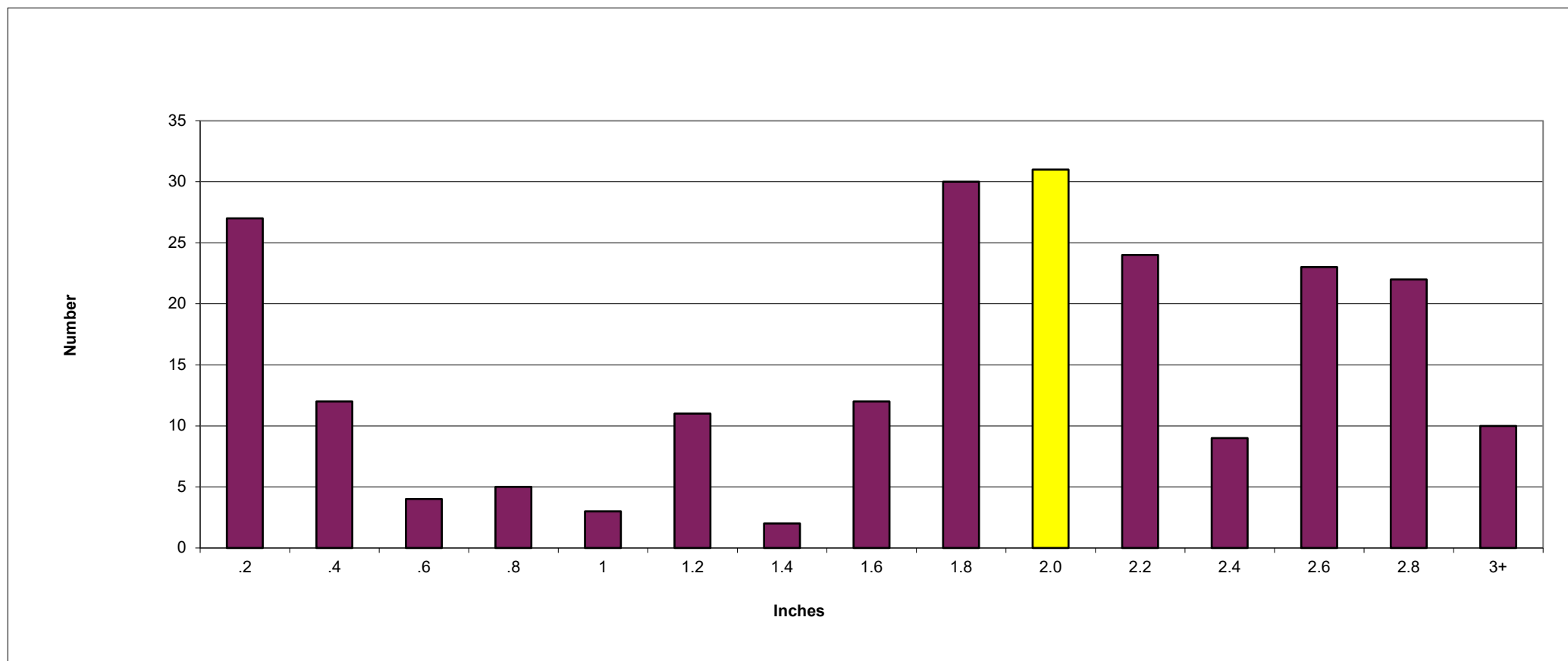
Softshell Clam (*Mercenaria mercenaria*)

Female Reproductive Rate 1-5 million eggs per spawning event

Climate Susceptibility HIGH

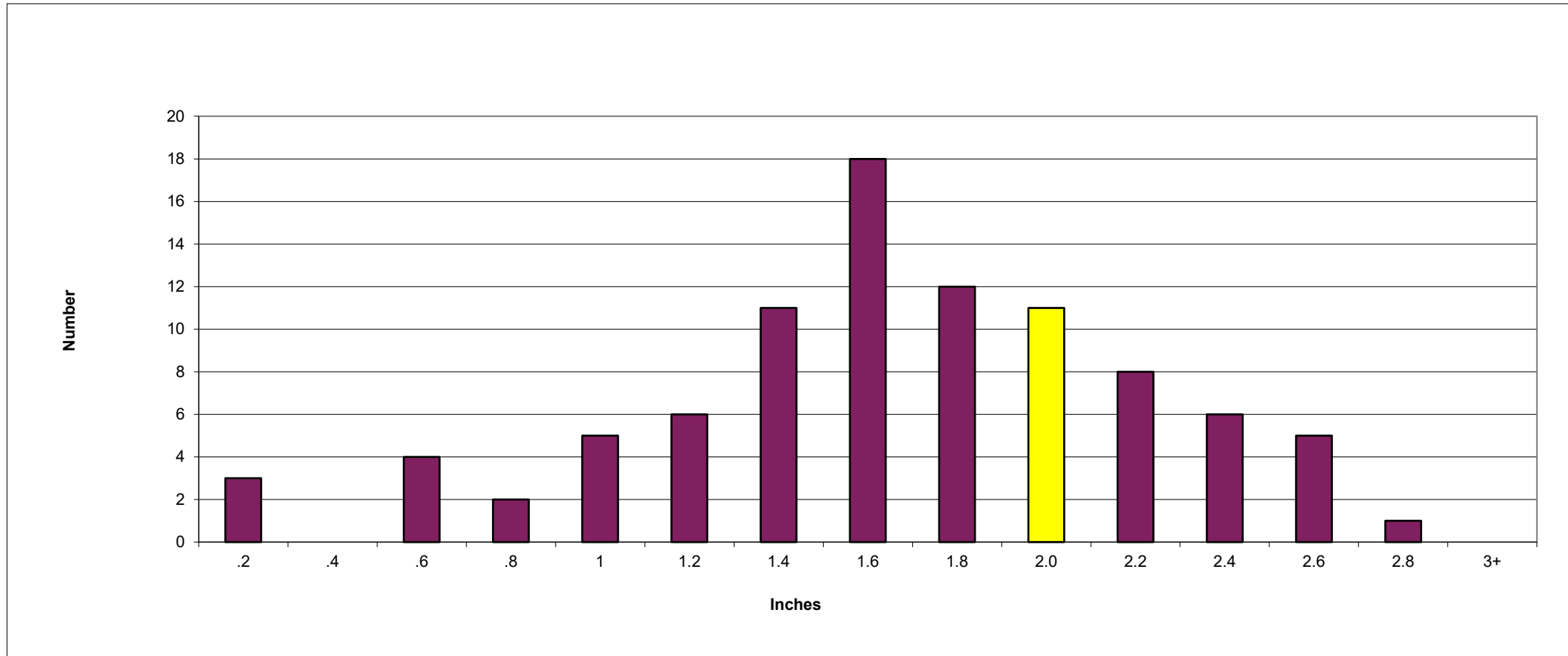


Upper Middle Bay ~ Barnes Landing ~ Simpsons Point



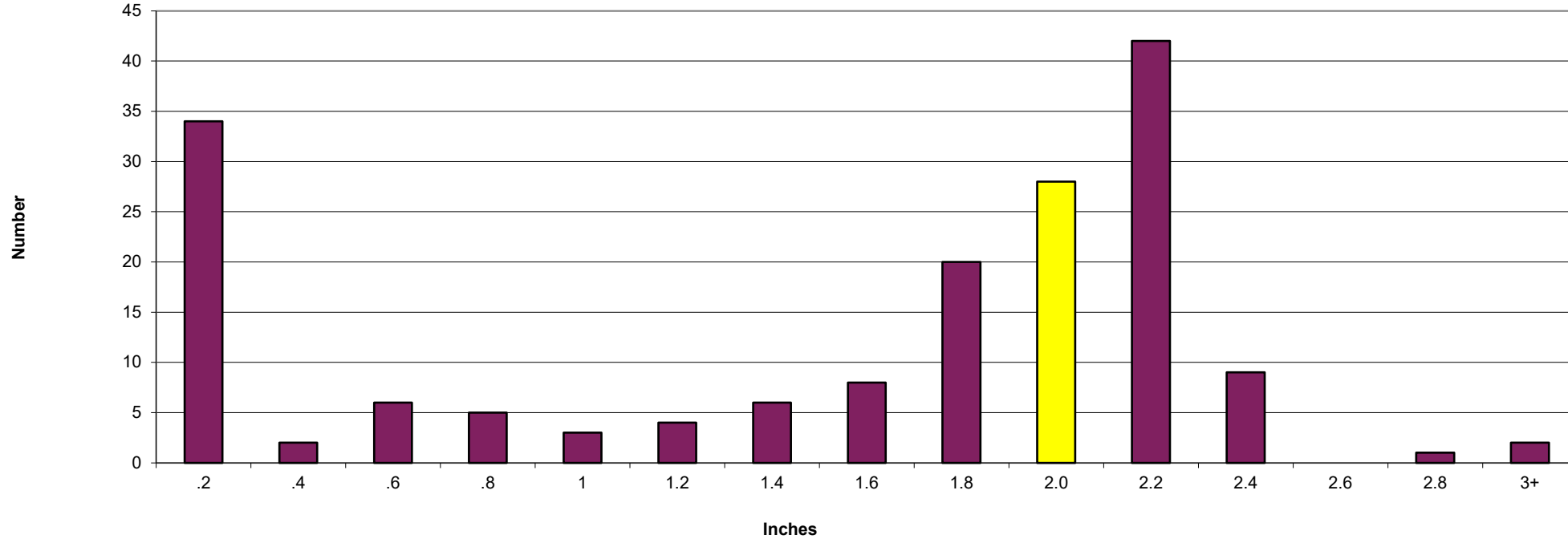
Est. Standing
Crop
464

New Meadows River ~ Bull Rock ~ Horse Pen Cove



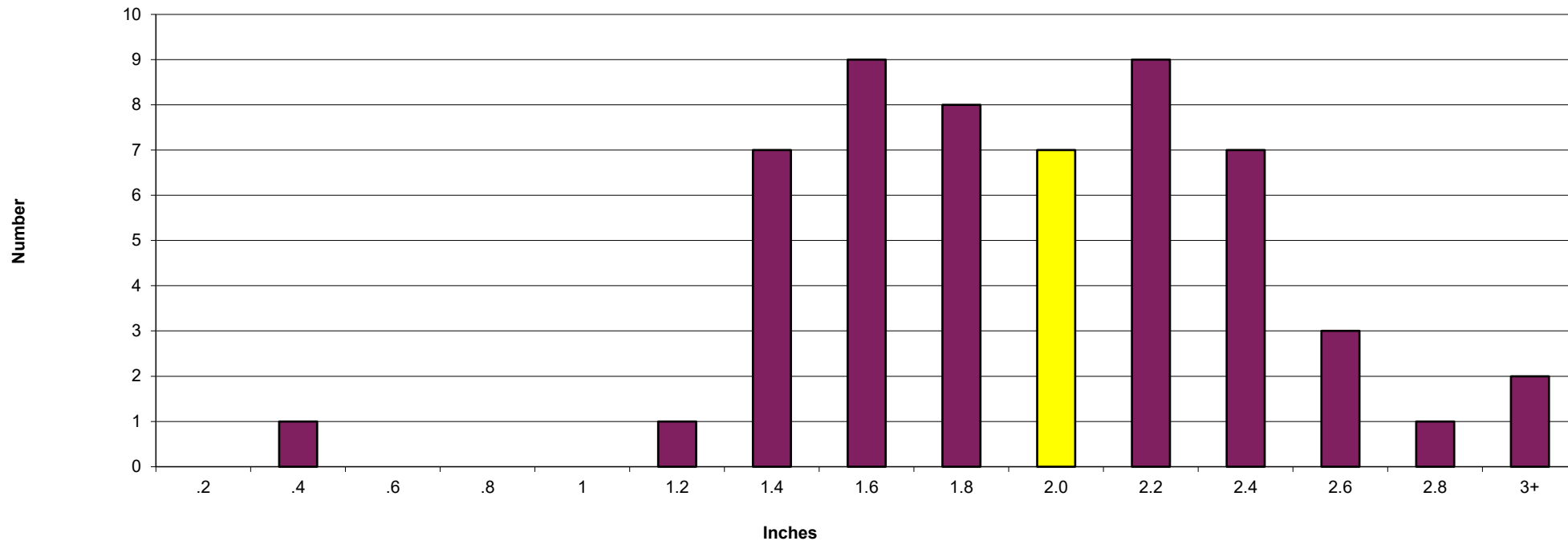
Est. Standing
Crop
74

Bunganuc Shores



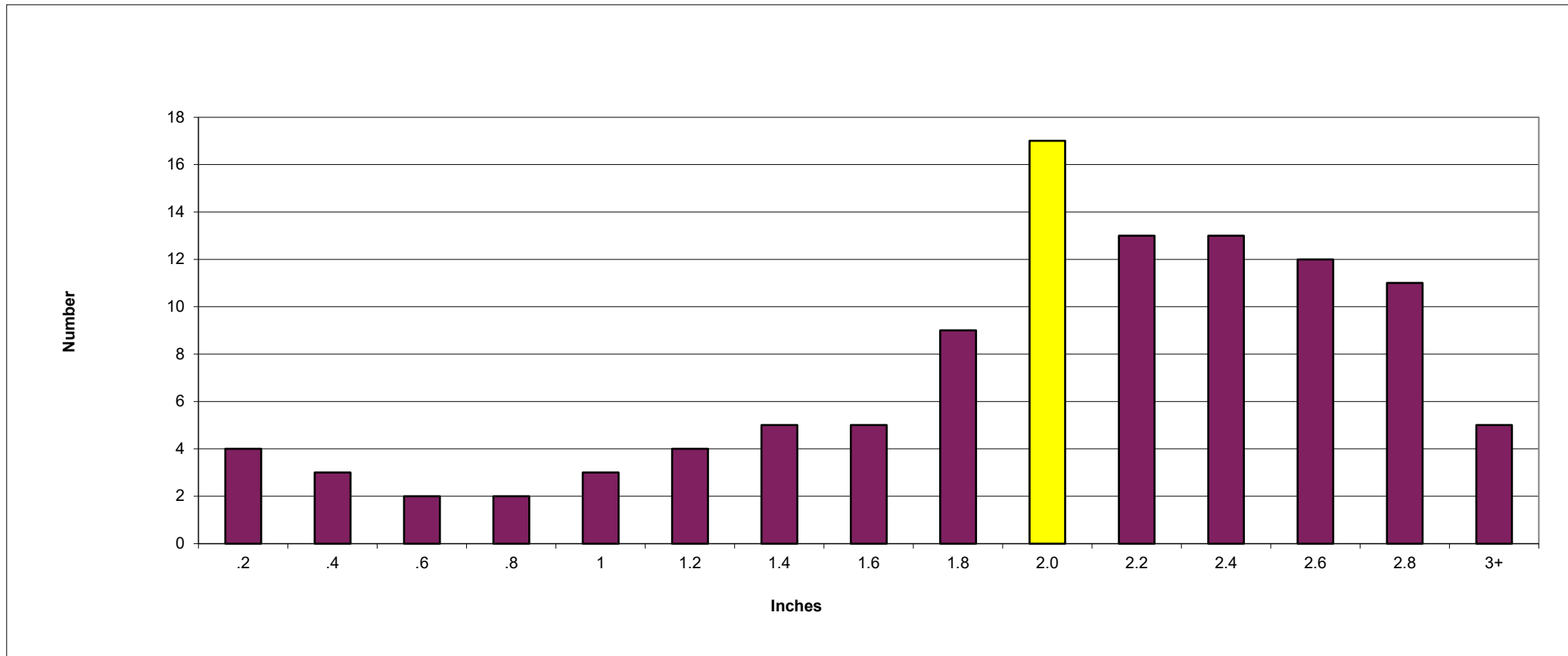
Est. Standing
Crop
492

Buttermilk Cove



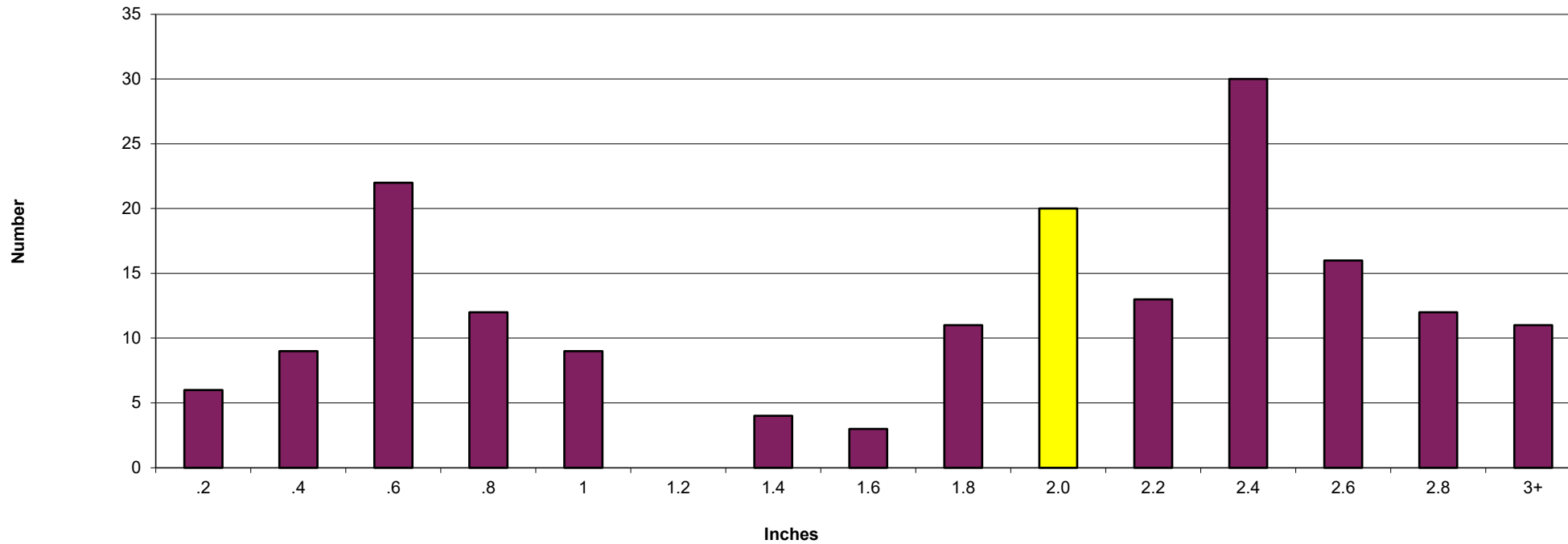
Est. Standing
Crop
275

Clay Cove ~ Miller Creek ~ Catlin Shore



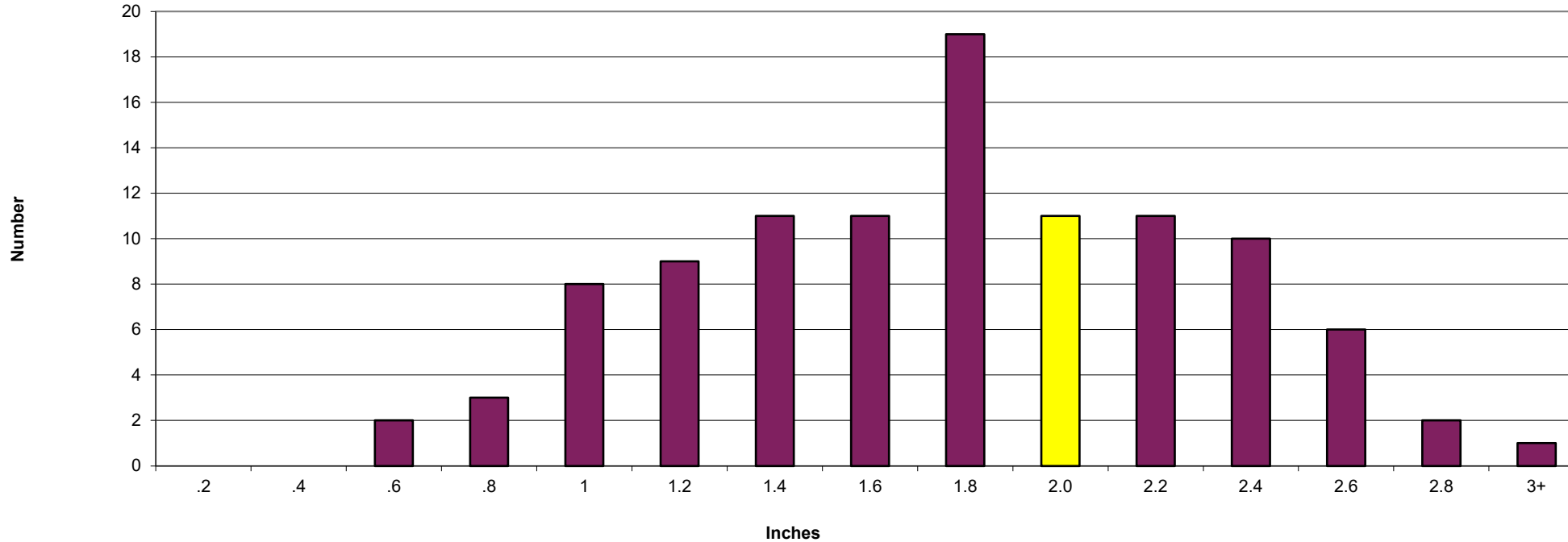
Est. Standing
Crop
2426

Harpswell Cove



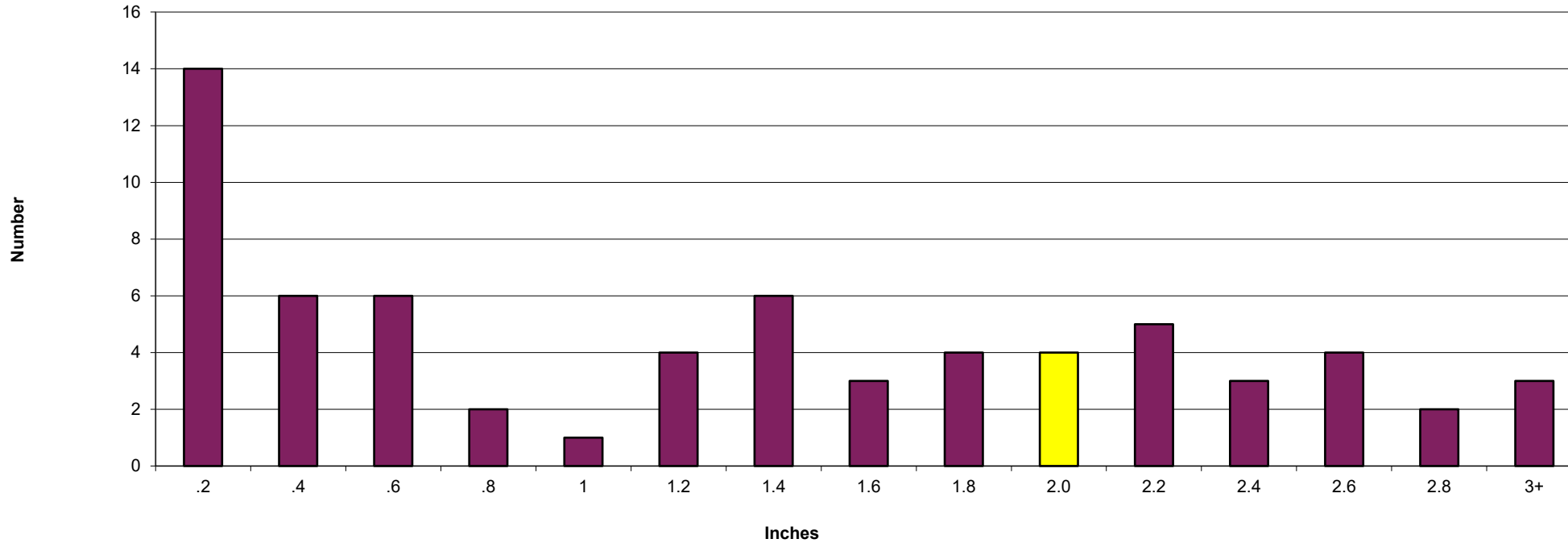
Est. Standing
Crop
2765

Little Bullpen ~ Iron Island ~ Northern Coombs



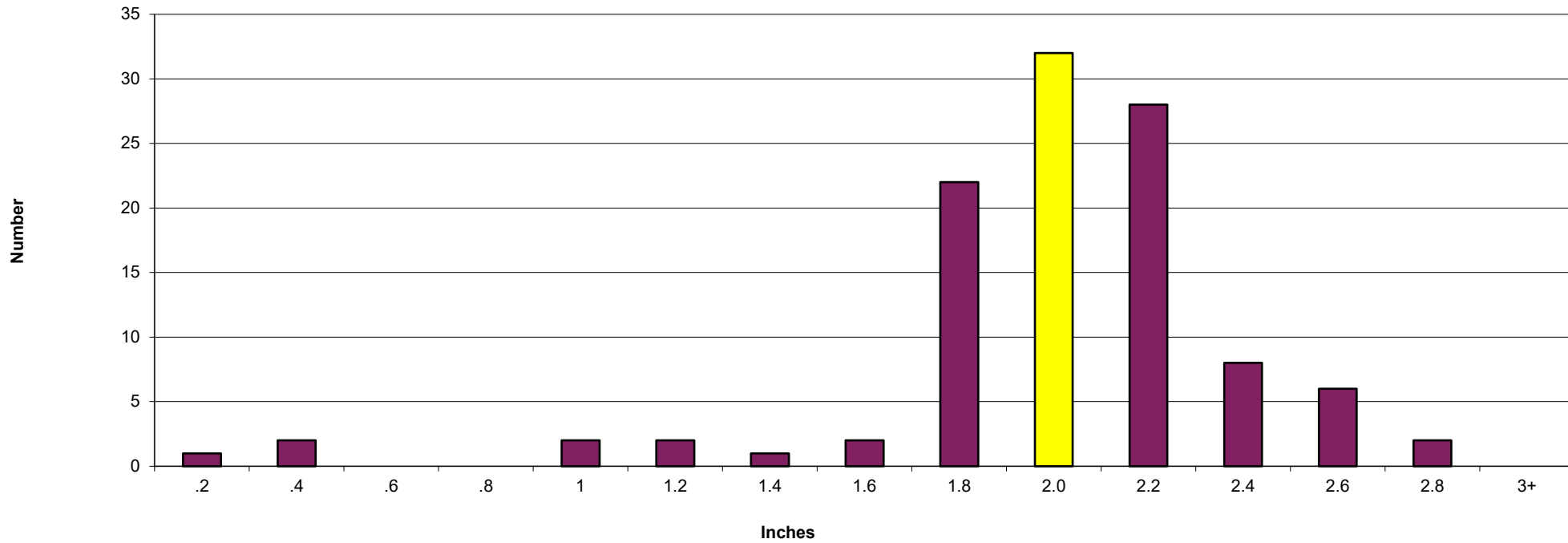
Est. Standing
Crop
145

Long Reach ~ Gurnet Straits



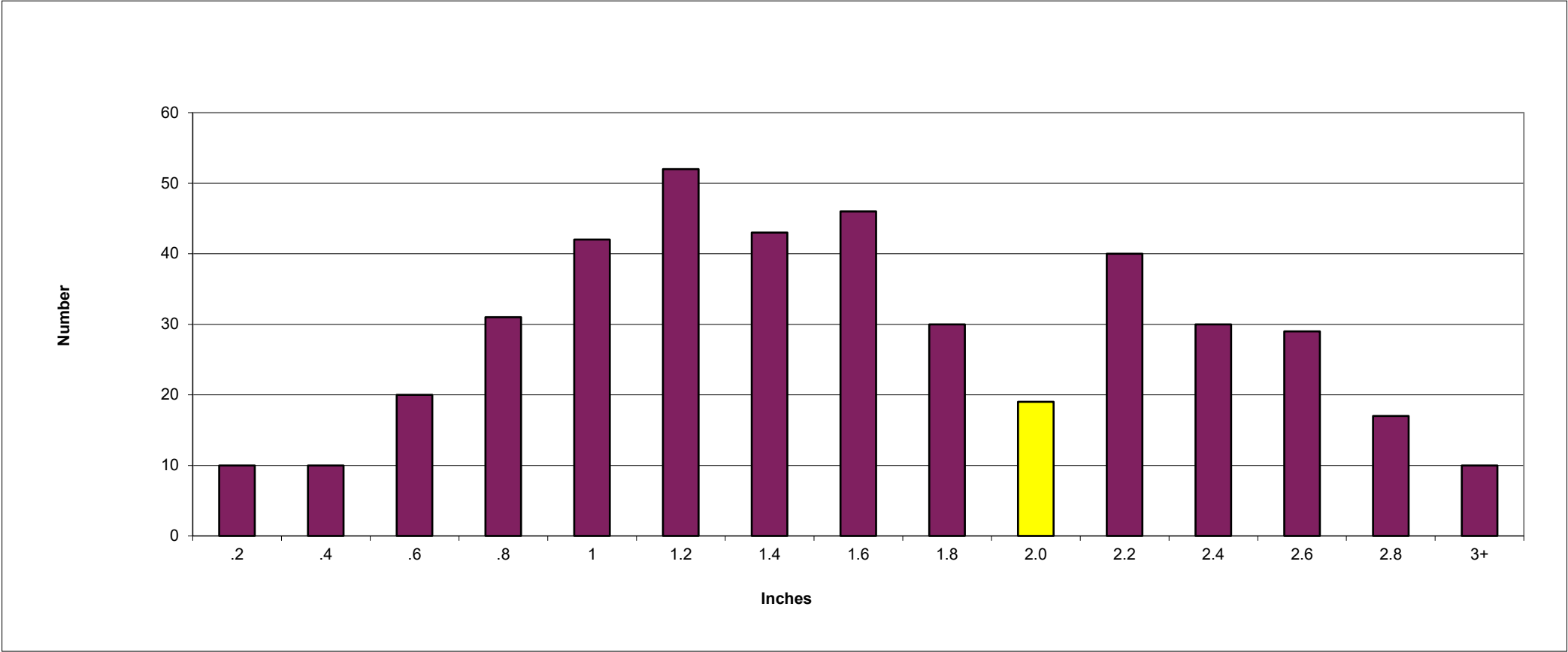
Est. Standing
Crop
196

Maquoket Bay



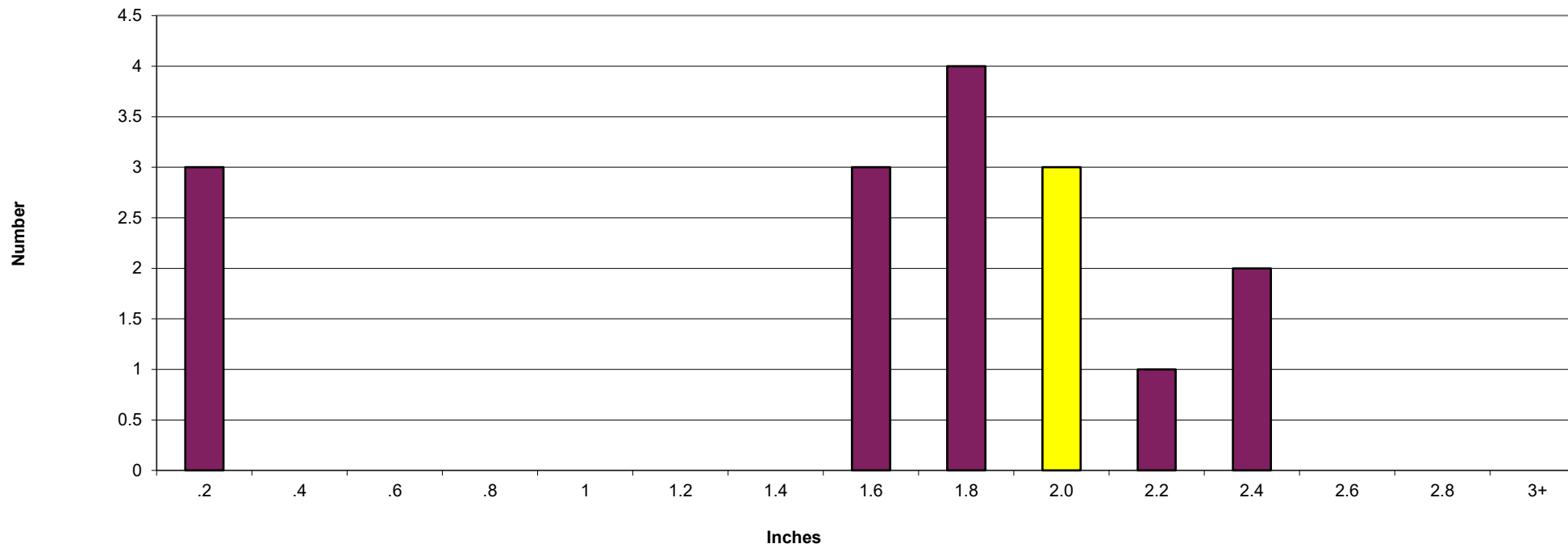
Est. Standing
Crop
3570

Thomas Point Beach



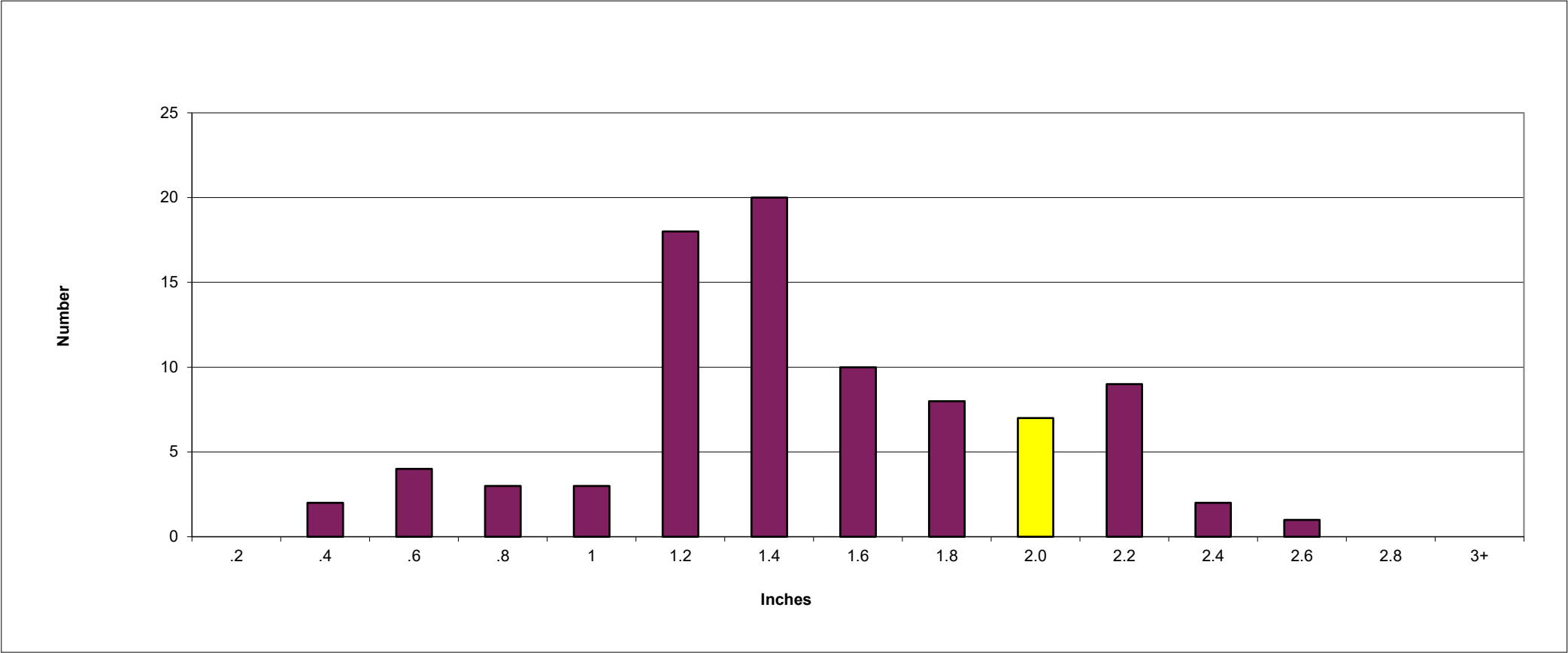
Est. Standing
Crop
5622

Smith Cove



Est. Standing
Crop
270

Woodward Cove

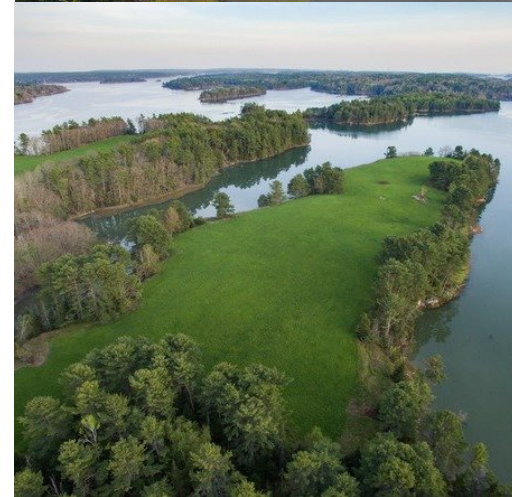
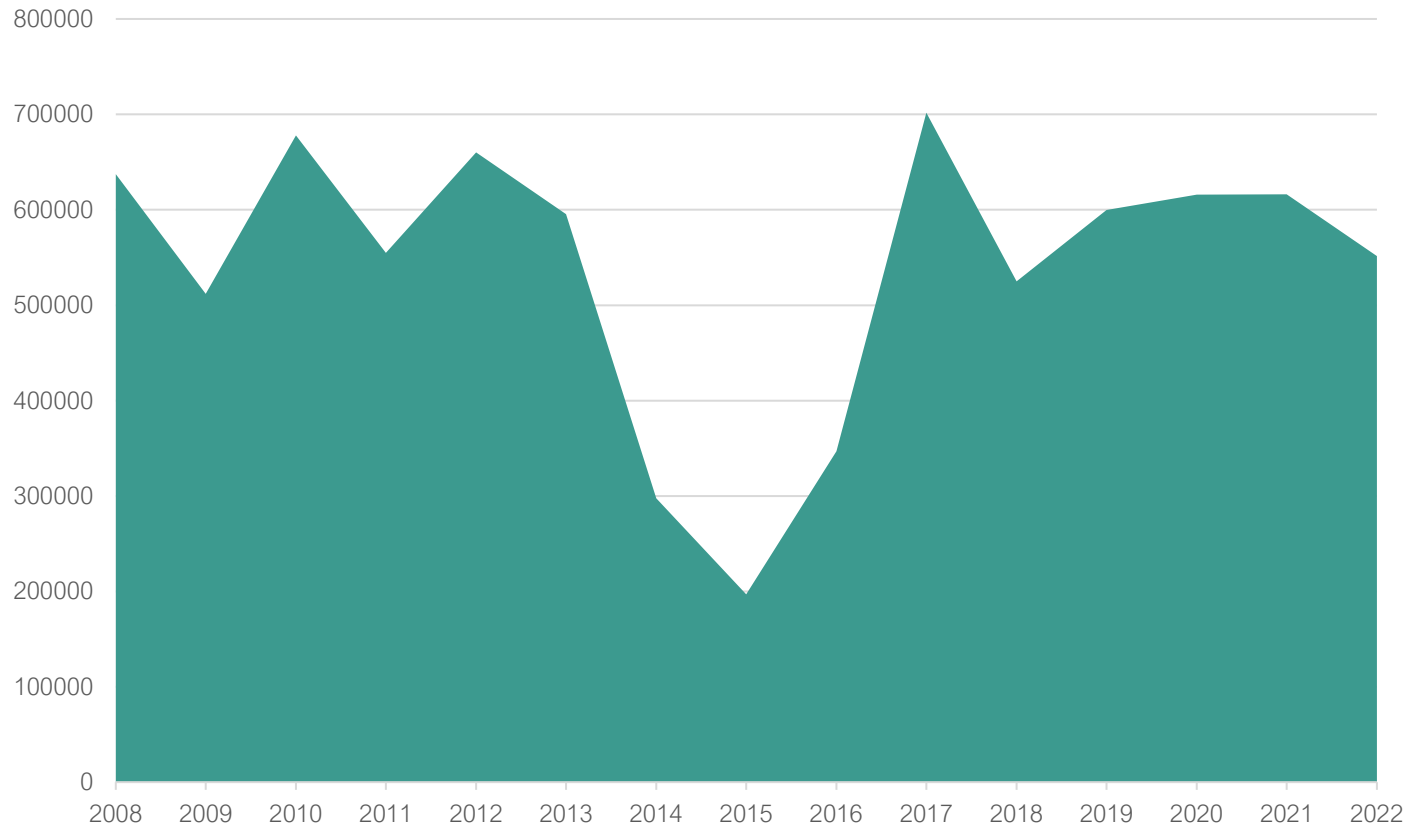


Est. Standing
Crop
249

Softshell Clam Landing Data 08-22

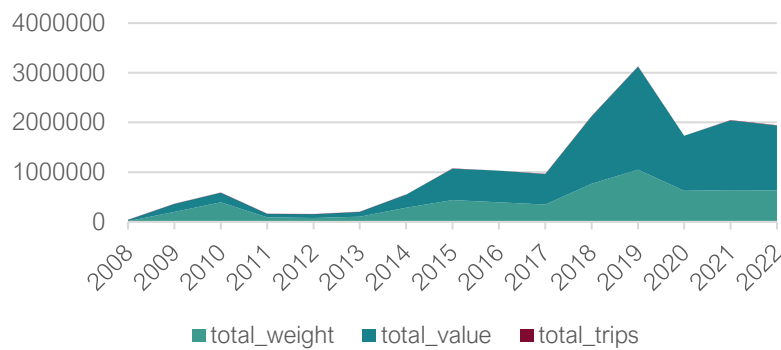
2022 Student Harvest = 17,000 lbs.

08-22 Softshell Clam Landings

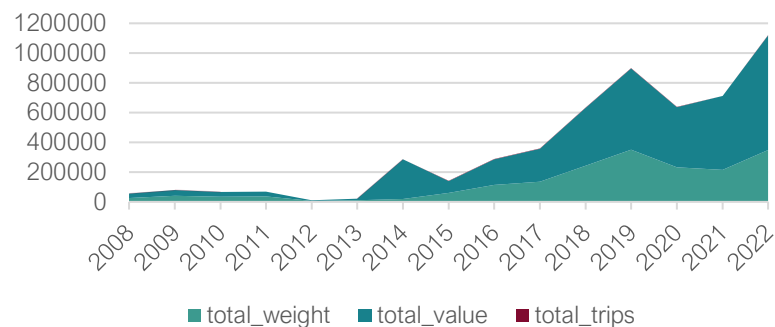


2022 State Shellfish Landing Data

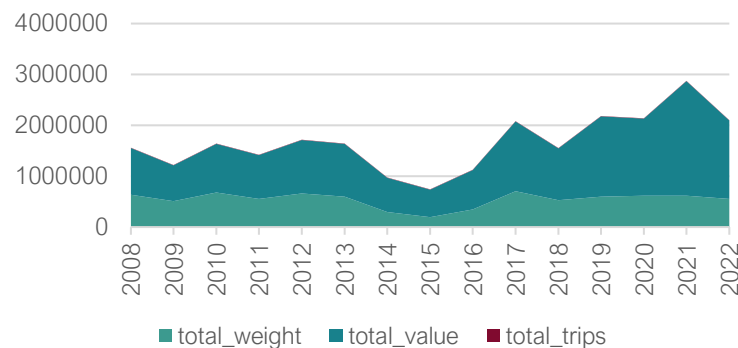
Brunswick Hardshell Landing 08-22
MEDMR



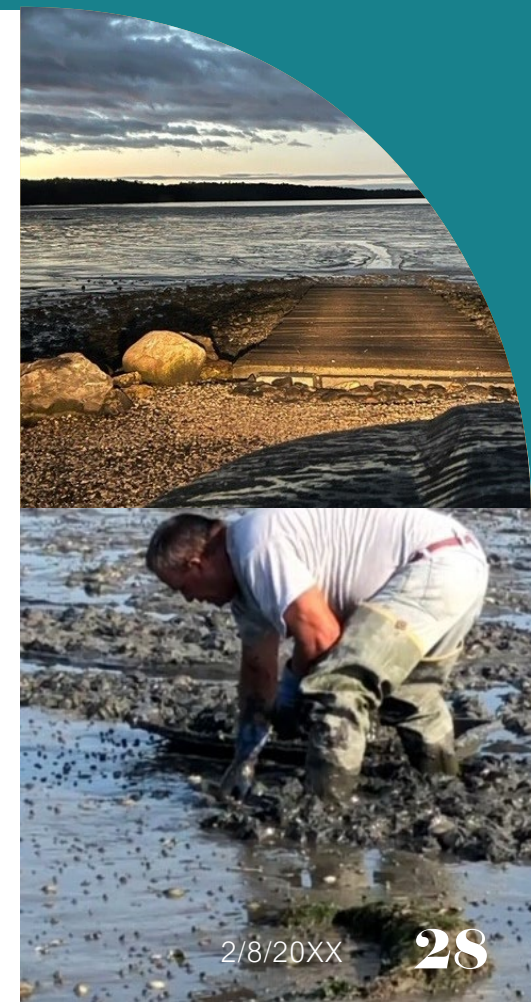
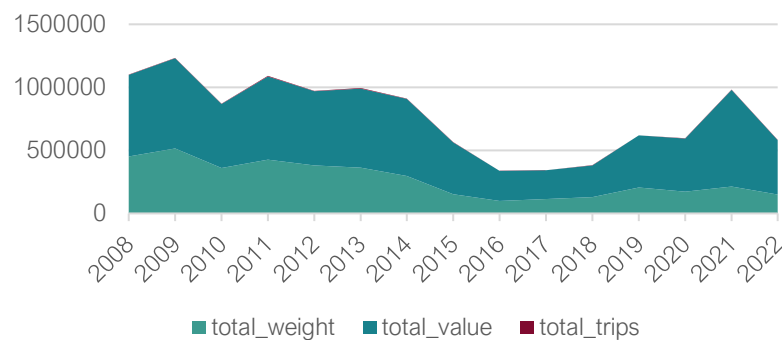
Harpswell Hardshell Landings 08-22
MEDMR



Brunswick Softshell Landings 08-22
MEDMR



Harpswell Softshell Landings 08-22
MEDMR



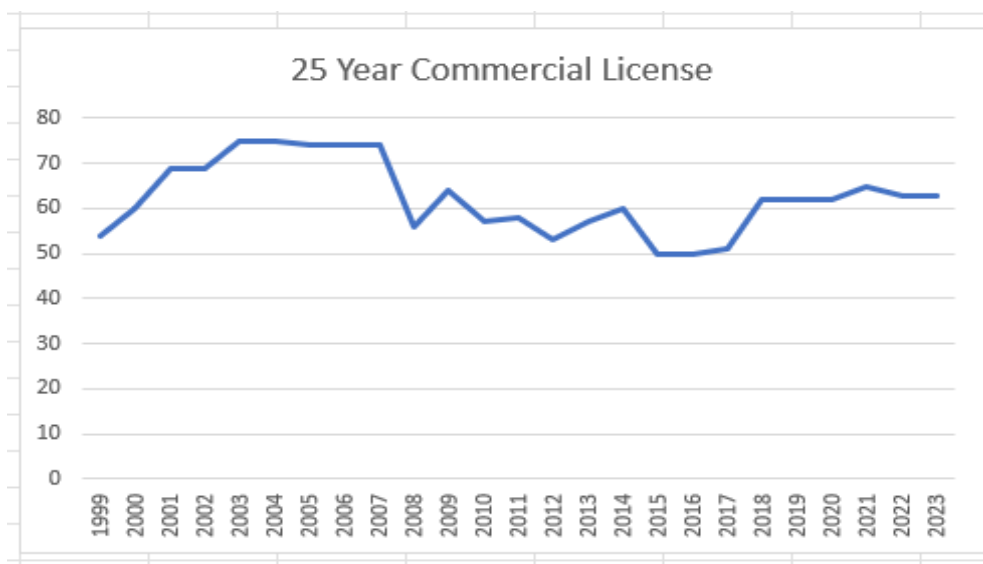
Sustainable Commercial Licenses Attributed to Softshell Clam Populations

	Standing Crop	Projected Harvest Days	Average Harvest	Sustainable Licenses
Softshell Populations	16305 Bushels	225 Harvest Days	2.0 Bushel	36

Commercial Shellfish License Allocations

Resident and Non-Residents

- 1998-1999 = 54
- 1999-2000 = 60
- 2000-2001 = 69
- 2001-2002 = 69
- 2002-2003 = 75
- 2003-2004 = 75
- 2004-2005 = 74
- 2005-2006 = 74
- 2006-2007 = 74
- 2007-2008 = 56
- 2008-2009 = 64
- 2009-2010 = 57
- 2010-2011 = 58
- 2011-2012 = 53
- 2012-2013 = 57



- 2013-2014 = 60
- 2014-2015 = 50
- 2015-2016 = 50
- 2016-2017 = 51
- 2017-2018 = 62
- 2018-2019 = 62
- 2019-2020 = 62
- 2020-2021 = 65
- 2021-2022 = 63
- 2022-2023 = 63
- 2023-2024 = 63
- 2024-2025 = ??

25 Year Average = 62 Commercial
Licenses

Student License Allocations

(Includes Resident and Non-Resident)

- 1998-1999 = 5
- 1999-2000 = 5
- 2000-2001 = 5
- 2001-2002 = 5
- 2002-2003 = 5
- 2003-2004 = 6
- 2004-2005 = 10
- 2005-2006 = 10
- 2006-2007 = 10
- 2007-2008 = 10
- 2008-2009 = 10
- 2009-2010 = 10
- 2010-2011 = 0
- 2011-2012 = 0
- 2012-2013 = 0
- 2013-2014 = 9
- 2014-2015 = 11
- 2015-2016 = 11
- 2016-2017 = 11
- 2017-2018 = 15
- 2018-2019 = 15
- 2019-2020 = 17
- 2020-2021 = 17
- 2021-2022 = 17
- 2022-2023 = 17
- 2023-2024 = 17
- 2023-2024 =



Average of 8 licenses over 25years.

License Allocations

- 2024 Est. Standing Softshell Clam Crop = 16,305 Bushels
Standing Crop 16305 BU $\div$ 225 Harvest Days $\div$ 2.0 BU Average = 36 Licenses
- 2024 Est. Standing Hardshell Clam Crop = 14,666 Bushels
Standing Crop 14666 BU $\div$ 209 Harvest Days $\div$ 2.0 BU Average = 35 Licenses
- Survey Supported Number of Commercial Licenses = 71
- 15 % +/- Marine Resource Committee Discretion = 60 through 81
- Recommended Motion
 - 57 Resident Commercial Licenses Unlimited
 - 6 Non-Resident Commercial License Unlimited
 - 7 Resident Student Licenses @1.5BU
 - 1 Non- Resident Student License @1.5BU
 - 1 Bushel Licenses (Stays Same)
 - Unlimited Recreational Licenses
- 2019 Estimates ~ Softshell = 25,550 Bushels ~ Quahogs = 3,140 Bushels (209/209 Days 2BU Avg.) = (77) TL) (65TA) (15SL)
- 2021 Estimates ~ Softshell = 23,335 Bushels ~ Quahogs = 13,252 Bushels (225/209 Days 2BU Avg.) = (95 TL) (63TA) (17SL)
- 2023 Estimates ~ Softshell = 16,305 Bushels ~ Quahogs = 14,666 Bushels (225/209 Days 2BU Avg.) = (71 TL) (63TA) (8SL) (1BU)