



Department of
Environmental
Conservation

Whelk Regulatory Proposal

January 22, 2019

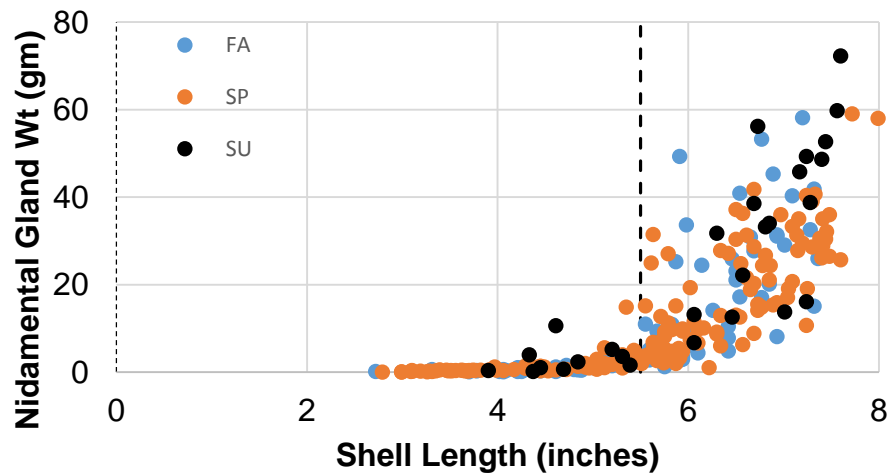


Proposed Whelk Regulations

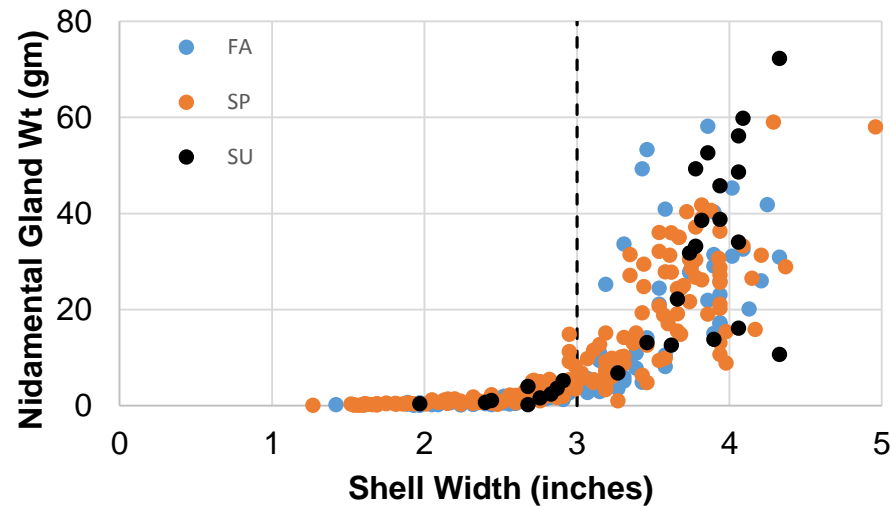
- ***Minimum Size Limit: 3” width or 5-1/2” length***
 - Allow immature females to mature before harvest
- ***Mandatory Bait Bags***
 - Decrease the amount of horseshoe crabs used as bait
- ***Pot Identification***
 - Assist enforcement and identification of lost gear
- ***Prohibit pots set in navigation channels***
 - Navigation safety



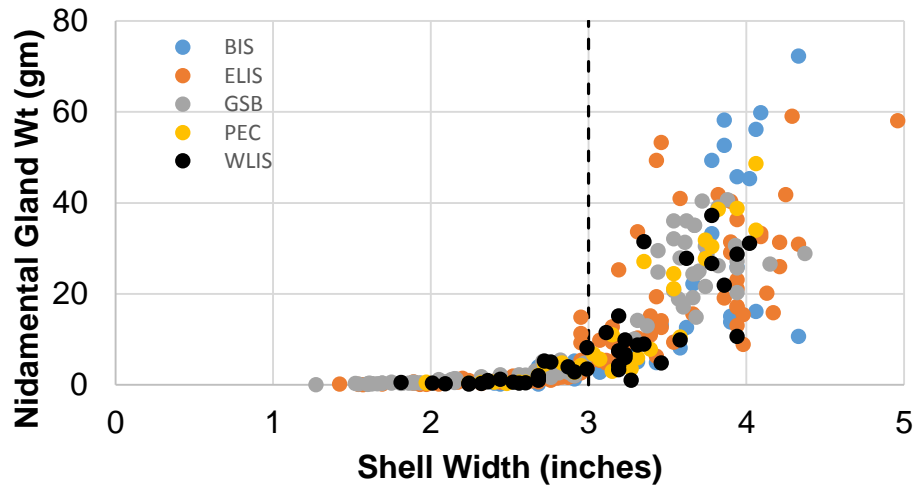
Female Channeled Whelk Maturity



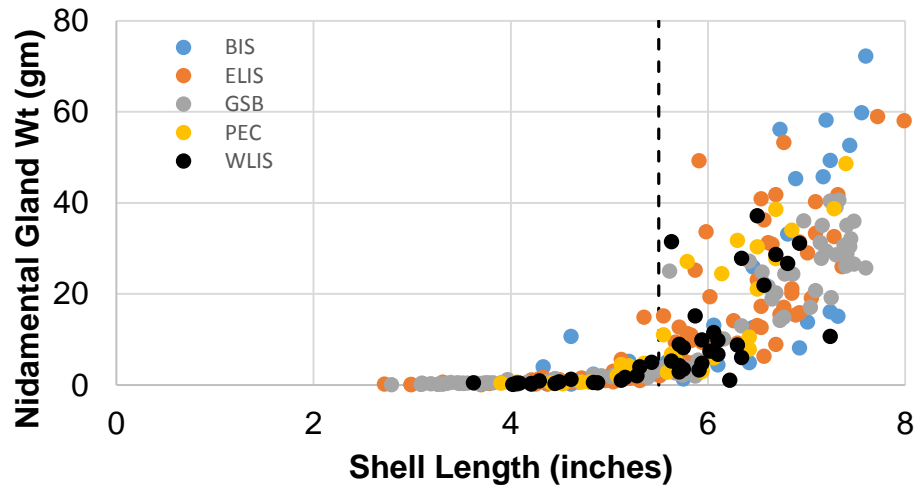
Female Channeled Whelk Maturity



Female Channeled Whelk Maturity



Female Channeled Whelk Maturity



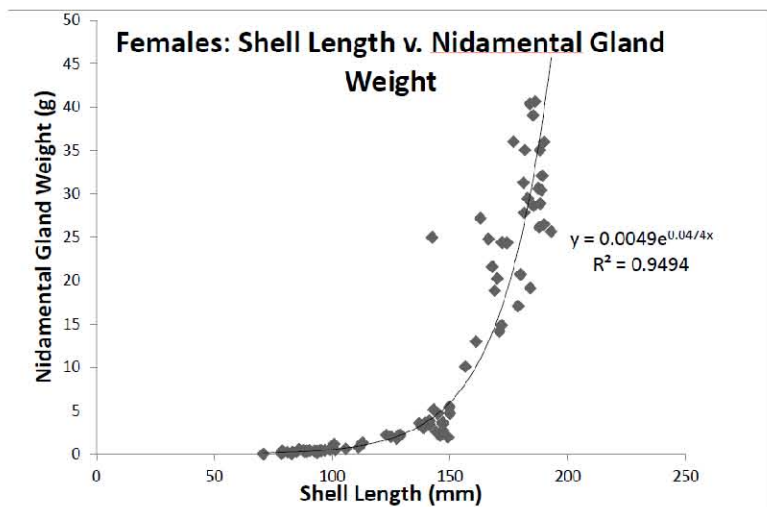


Figure 16– Linear regression, shell length (mm) vs. nidamental gland weight (g) for 83 female channeled whelk harvested from the Great South Bay, New York from May- June 2015.

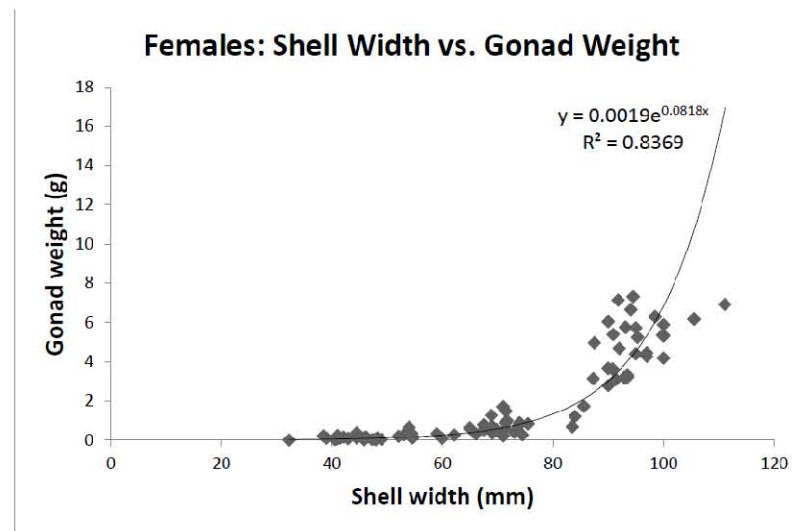


Figure 21 – Curvilinear regression of shell width (mm) vs. gonad weight (g) for 83 female channeled whelk harvested from the Great South Bay, New York from May- June 2015.

AGE, GROWTH, AND MATURITY OF CHANNЕLED AND KNOBBED WHELK

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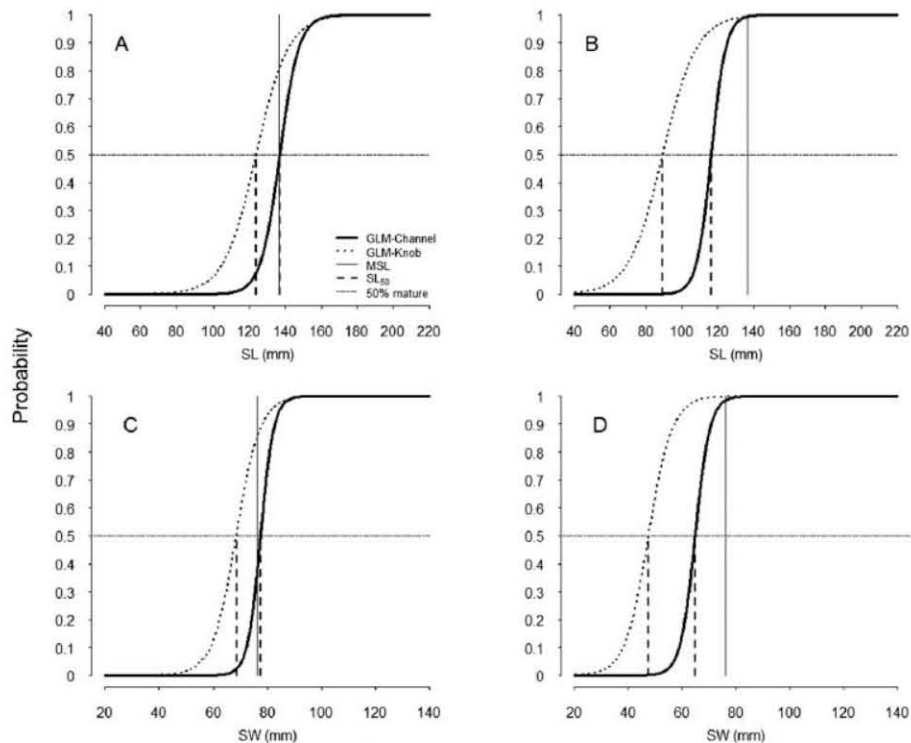
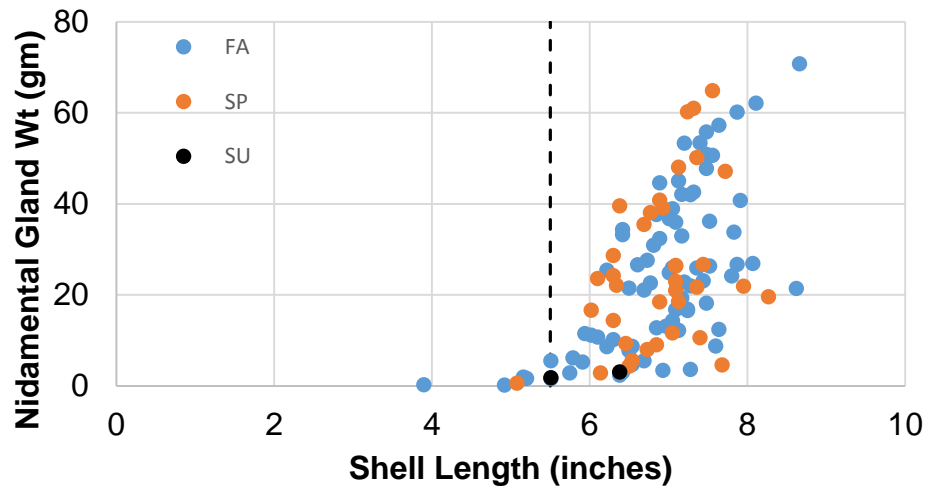
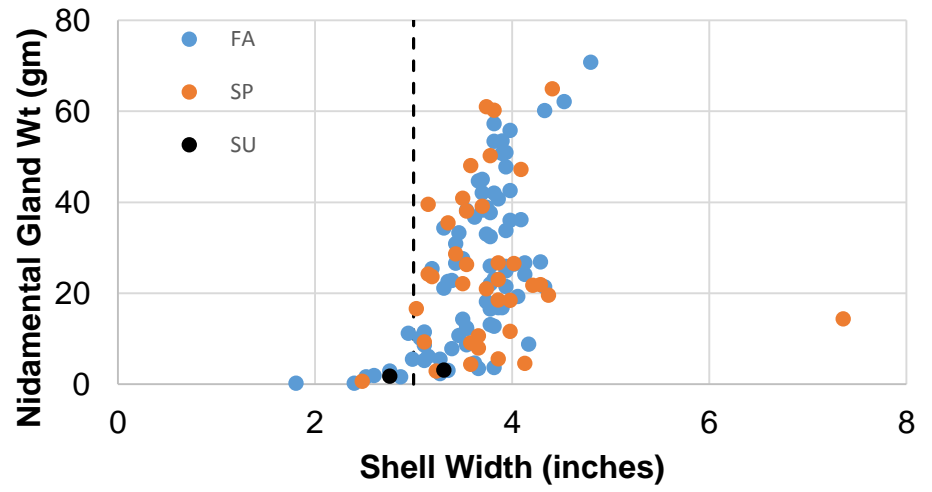


Figure 8. Size-at-maturity ogives by species, sex, SL, and SW, with MSL and SL₅₀ indicated. (A) Female channeled and knobbed SL₅₀, (B) male channeled and knobbed SL, (C) female channeled and knobbed SW, and (D) male channeled and knobbed SW.

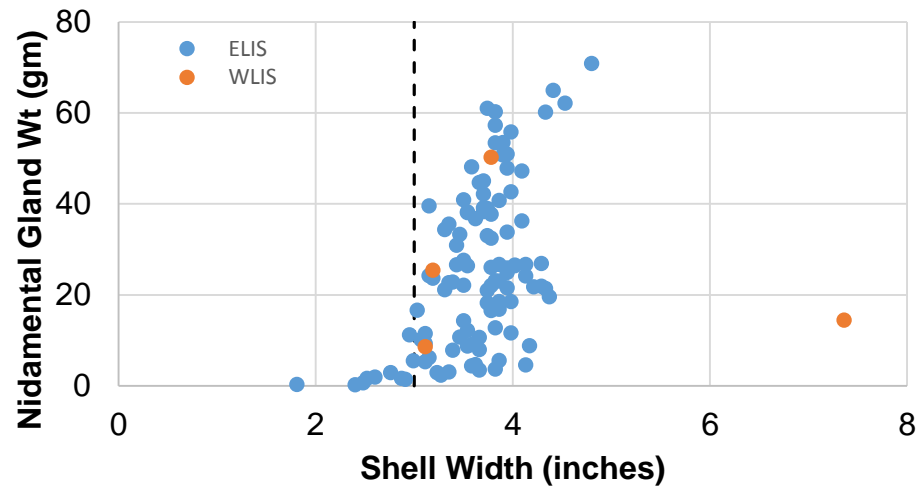
Female Knobbed Whelk Maturity



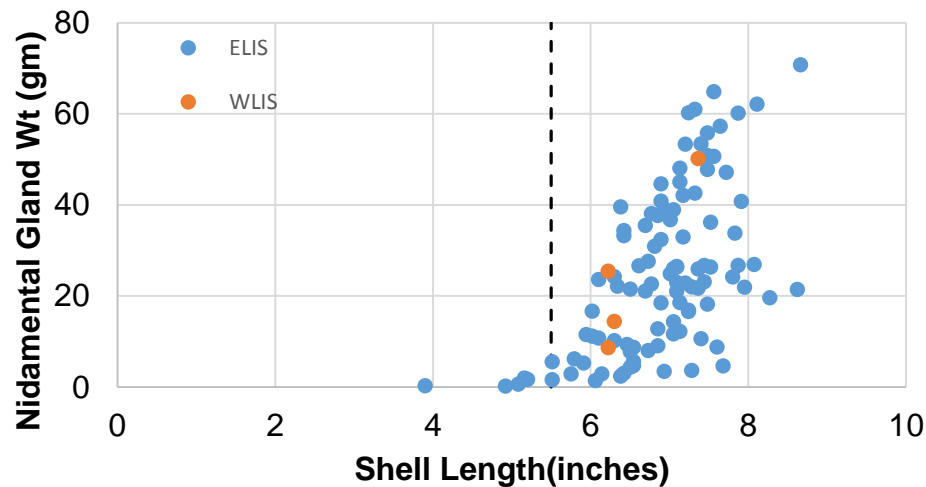
Female Knobbed Whelk Maturity



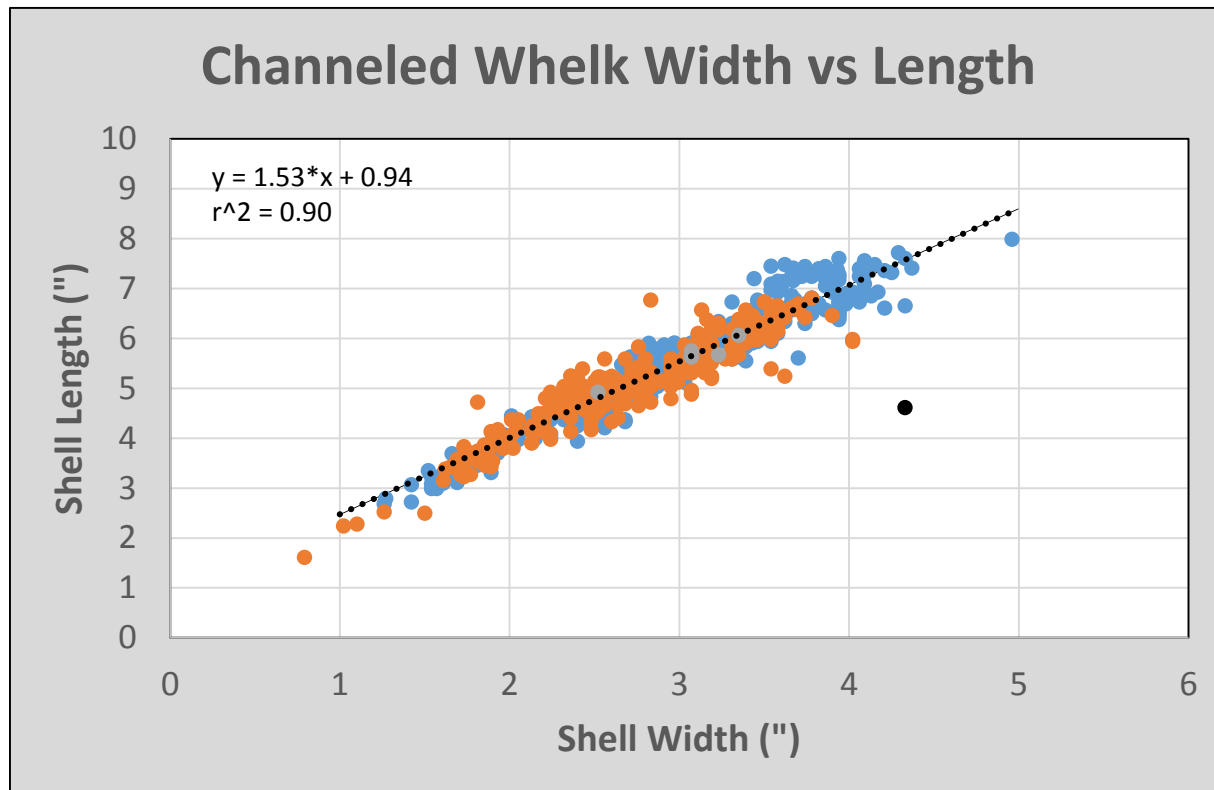
Female Knobbed Whelk Maturity



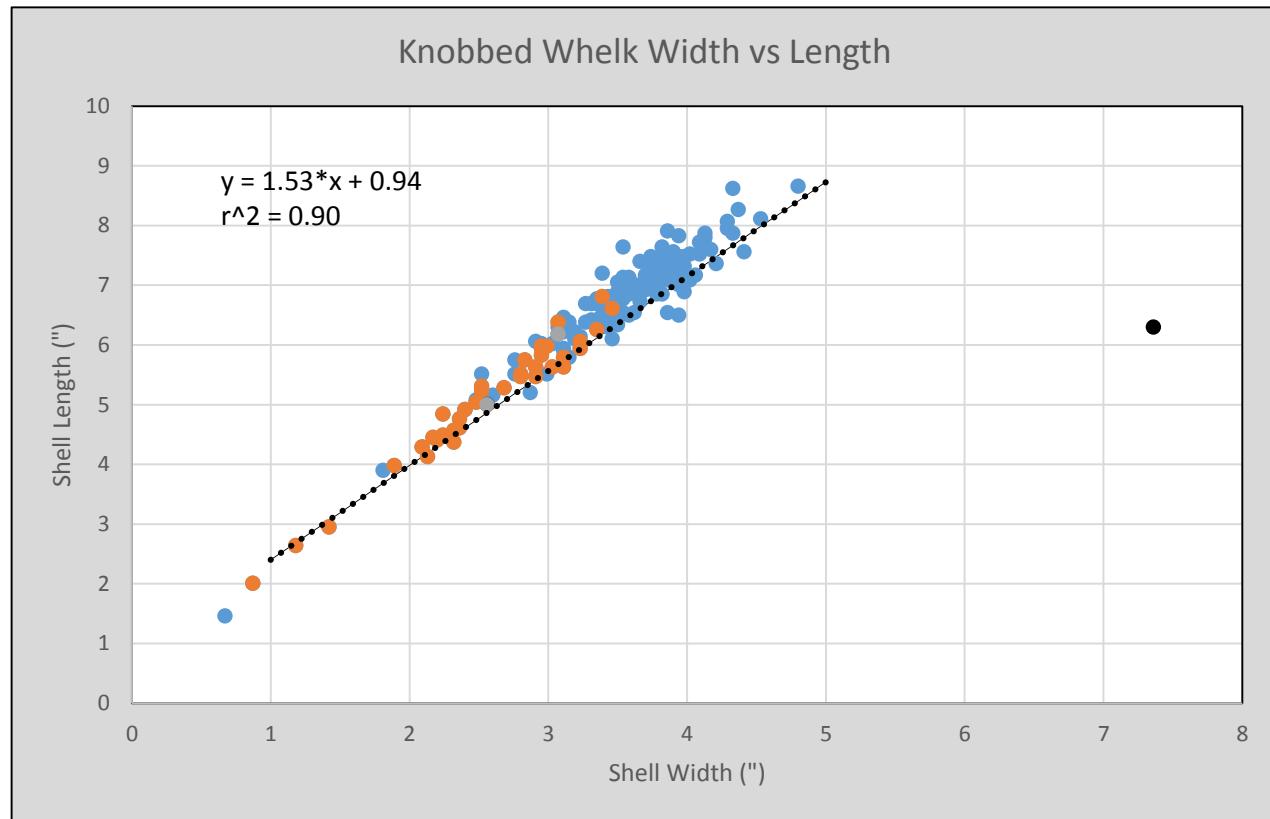
Female Knobbed Whelk Maturity



Shell Width	Shell Length
1	2.47
1.25	2.86
1.5	3.24
1.75	3.62
2	4.01
2.25	4.39
2.5	4.77
2.75	5.15
3	5.54
3.25	5.92
3.5	6.3
3.75	6.69
4	7.07
4.25	7.45
4.5	7.84
4.75	8.22
5	8.6



Shell Width	Shell Length
1	2.53
1.25	2.94
1.5	3.36
1.75	3.77
2	4.19
2.25	4.6
2.5	5.02
2.75	5.43
3	5.85
3.25	6.26
3.5	6.68
3.75	7.09
4	7.5
4.25	7.92
4.5	8.33
4.75	8.75
5	9.16



2018 Whelk Regulations by State

State	Species	Min Size	Bait bags
MA	channeled & knobbed	Use of 2- 7/8" chute gauge in any orientation	
RI	channeled & knobbed	3" width or 5-3/8" length	
CT	Whelk (conch)	None	
NY	channeled & knobbed	None	
NJ	conch	5" length	Yes
DE	channeled	3-1/8" width or 6" long	
	knobbed	3" width or 5" long	
MD	Conch (channeled, knobbed, lightning)	6" length (all conch) or 3-3/8" width for channeled whelk only	
VA	channeled	5-1/5" length or pass through 2-3/4" dia cull ring	Yes



CTDEEP Trawl Survey Channeled Whelk

SL"	2013	2014	2015	2016	2017	Total
<4"	17	4	1	1	8	31
4.24	5	0	1	2	0	8
4.49	1	5	3	1	3	13
4.74	4	3	0	3	3	13
4.99	5	1	1	2	0	9
5.24	22	1	1	3	1	28
5.49	6	2	2	3	2	15
5.74	12	2	8	6	1	29
5.99	15	1	3	3	2	24
6.24	6	1	0	1	0	8
6.49	4	0	0	1	0	5
6.74	5	4	4	2	1	16
6.99	5	2	0	1	0	8
7.24	2	1	1	1	0	5
7.49	3	0	0	0	0	3
>7.5	0	1	1	0	0	2
	112	28	26	30	21	217

%>5.25"	52%	50%	73%	60%	29%	53%
%>5.5"	46%	43%	65%	50%	19%	46%

CTDEEP Trawl Survey Channeled Whelk

SL"	West	East	Unknown n	Total
<4"	7	24	0	31
4.24	1	7		8
4.49	2	11		13
4.74	2	11		13
4.99	1	8		9
5.24	8	20		28
5.49	5	10		15
5.74	6	23		29
5.99	7	17		24
6.24	5	3		8
6.49	3	2		5
6.74	3	12		15
6.99	1	7		8
7.24	1	4		5
7.49	0	3		3
>7.5	0	2		2
	52	164		216

%>5.25"	60%	51%	53%
%>5.5"	50%	45%	46%



CTDEEP Trawl Survey Knobbed Whelk

SL"	2013	2014	2015	2016	2017	Total
<4"	1	1	0	1	3	6
4.24	0	0	0	0	1	1
4.49	1	1	1	0	2	5
4.74	1	1	0	0	0	2
4.99	2	1	1	0	0	4
5.24	2	0	1	1	2	6
5.49	2	1	1	0	0	4
5.74	1	3	2	0	1	7
5.99	6	1	3	0	1	11
6.24	3	3	2	0	2	10
6.49	5	4	3	0	3	15
6.74	2	3	7	1	0	13
6.99	3	4	1	1	6	15
7.24	8	5	4	4	5	26
7.49	4	2	6	4	0	16
>7.5	7	4	8	1	0	20
Total	48	34	40	13	26	161

%>5.25" 85% 88% 93% 85% 69% 85%

%>5.5" 81% 85% 90% 85% 69% 83%

CTDEEP Trawl Survey Knobbed Whelk

SL"	Unknown			Total
	West	East	n	
<4"	0	6	0	6
4.24	0	1	0	1
4.49	0	5	0	5
4.74	0	2	0	2
4.99	0	3	1	4
5.24	0	6	0	6
5.49	1	3	0	4
5.74	0	6	1	7
5.99	0	11	0	11
6.24	2	8	0	10
6.49	1	11	3	15
6.74	0	12	1	13
6.99	0	14	1	15
7.24	0	23	3	26
7.49	1	14	1	16
>7.5	0	19	1	20
	5	144	12	161

%>5.25" 100% 84% 92% 85%

%>5.5" 80% 82% 92% 83%



Thank You

- Kim McKown
- Marine Invertebrates & Protected Resources
- kim.mckown@dec.ny.gov
- 631-444-0454

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