# Multi-species Regulatory Proposal

- Whelk
  - Mandatory reporting
  - Minimum size limit

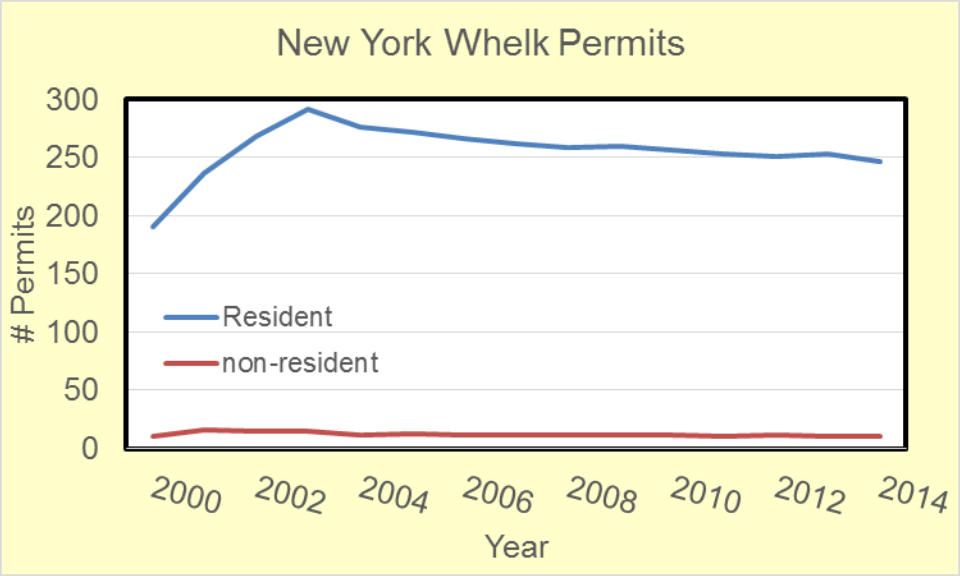
- Terrapin excluder devise

- Crab endorsement
- Horseshoe crab harvest limit
- Release/introduction of non-native & non-naturalized crustaceans

# Whelk update

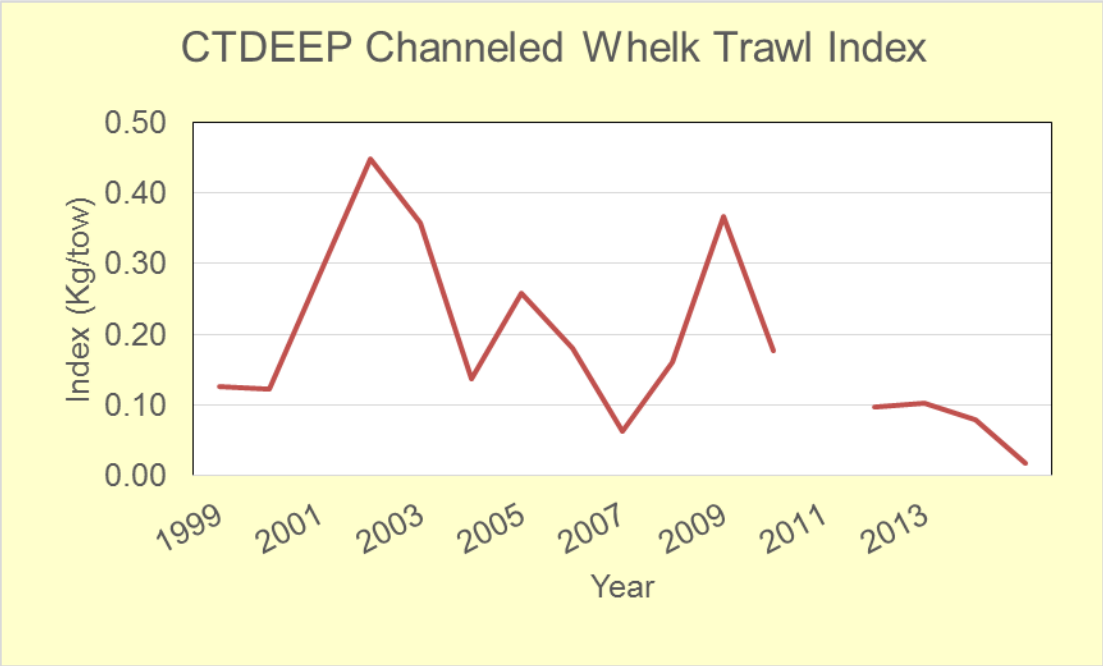
# Whelk Reporting

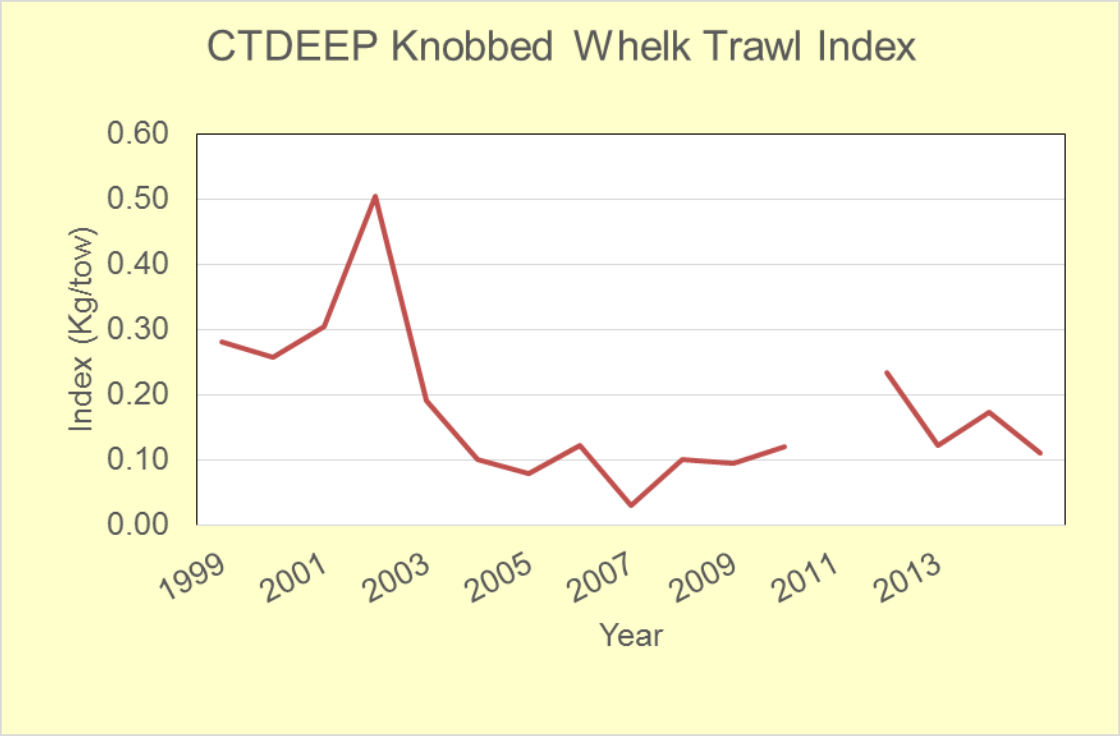
- DEC has regulatory authority on whelk (ECL 13-0330)
- Limited rules
- mandatory permit instituted in 2000
  - 2004 the license became limited entry
- Currently no reporting requirements for whelk permit

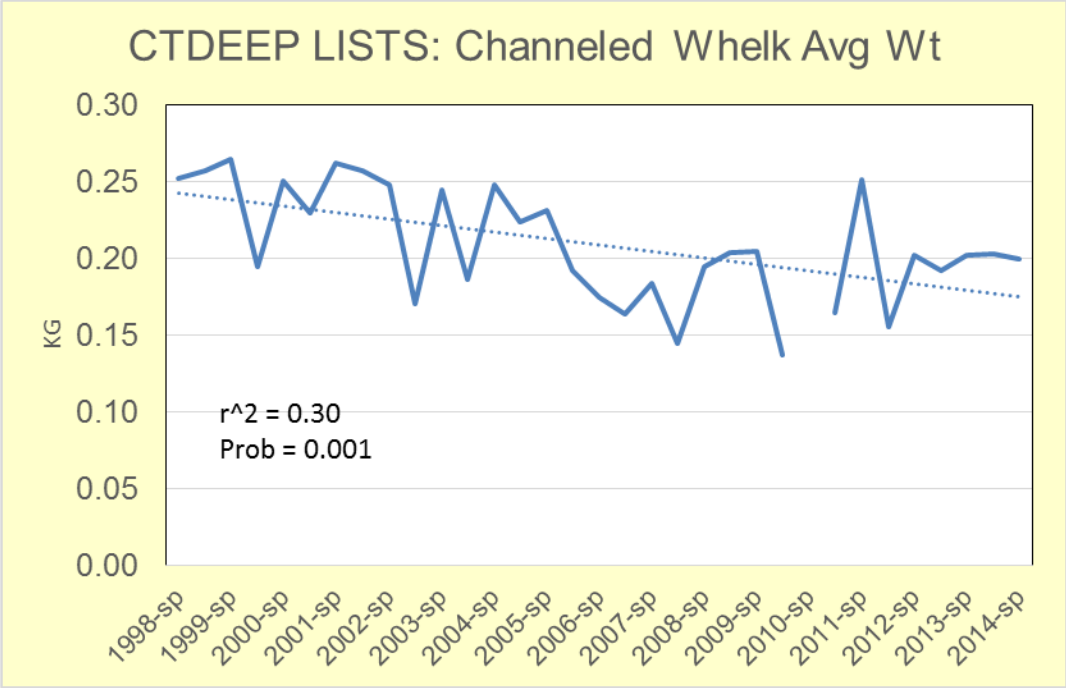


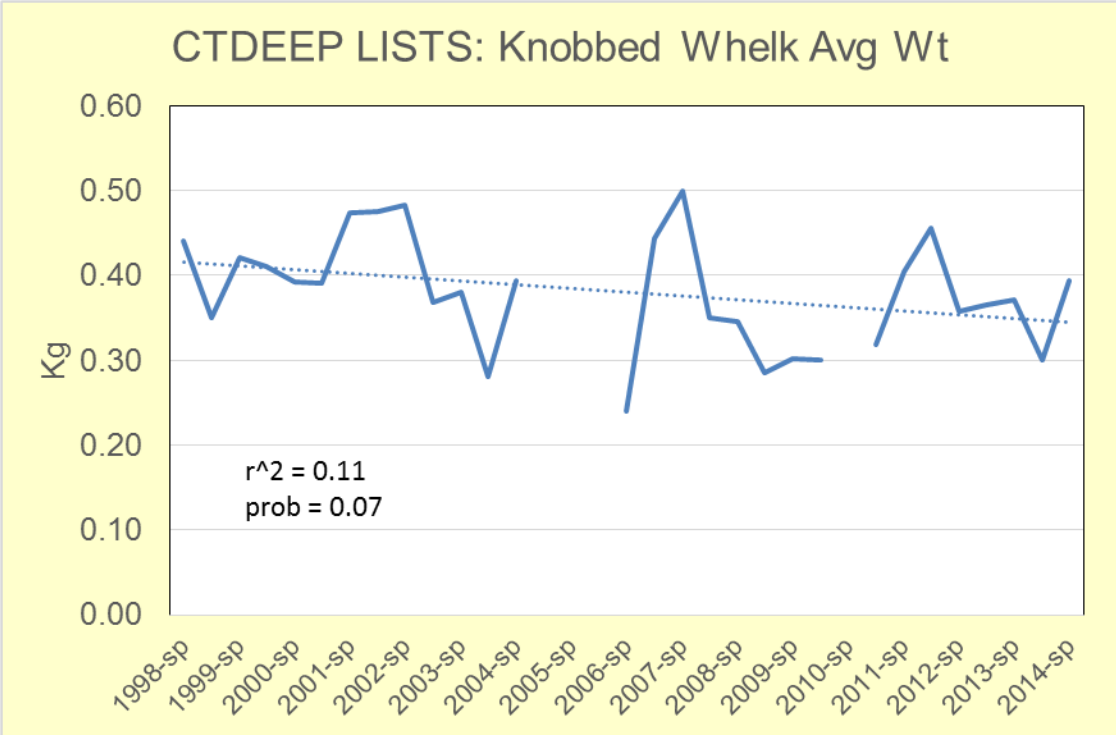
# WhelK Abundance & Life History

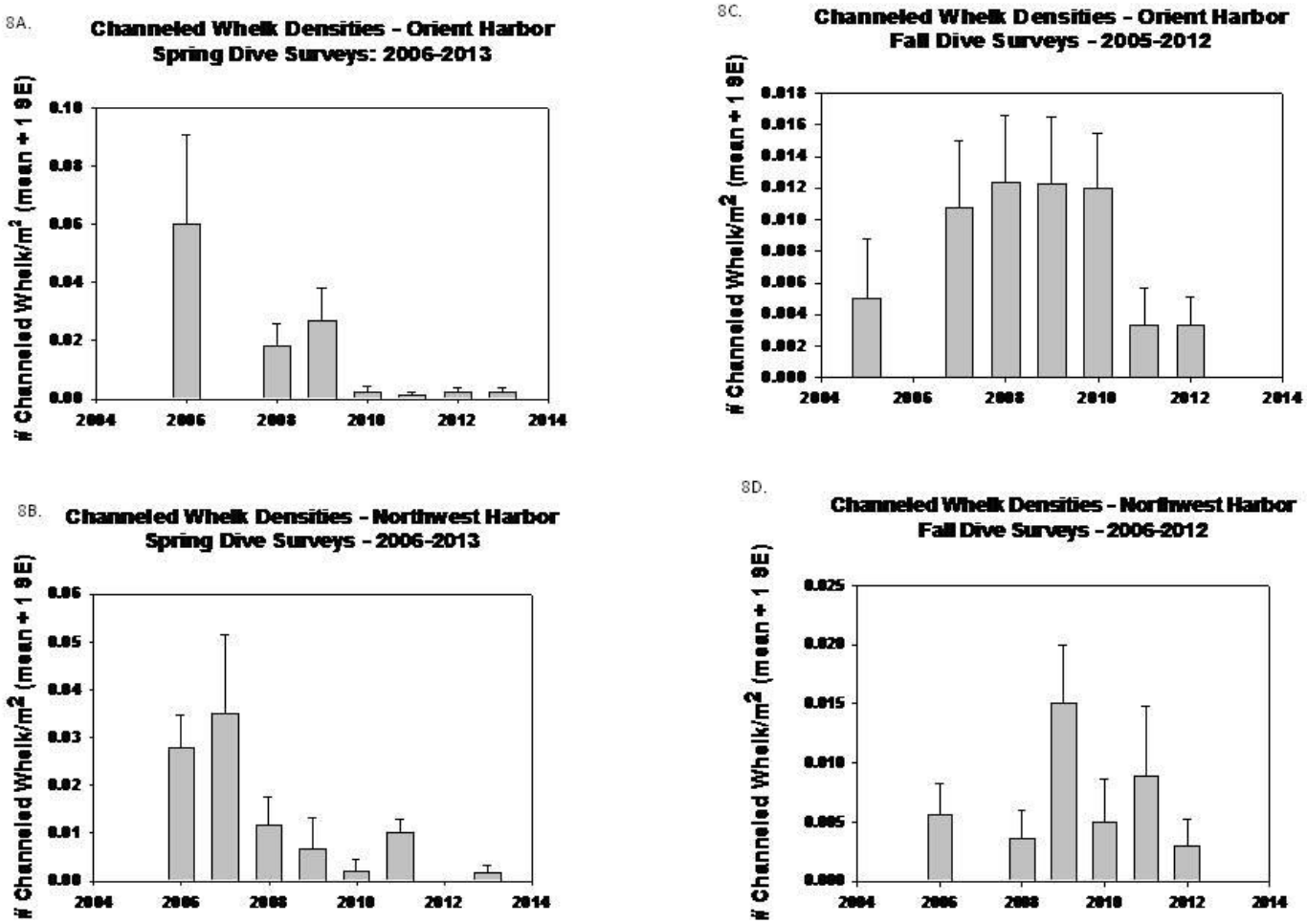
- Whelk life history characteristics make them especially prone to depletion
  - slow growth rate
  - slow maturation
  - lack of a dispersal larval mode


CTDEEP Channeled Whelk Trawl Index
Index (Kg/tow)
0.50
0.40
0.30
0.20
0.10
0.00
1999
2001
2003
2005
2007
2009
2011
2013
Year


CTDEEP Knobbed Whelk Trawl Index
Index (Kg/tow)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
1999
2001
2003
2005
2007
2009
2011
2013
Year


CTDEEP LISTS: Channeled Whelk Avg Wt
KG
0.30
0.25
0.20
0.15
0.10
0.05
0.00
r^2 = 0.30
Prob = 0.001
1998-sp
1999-sp
2000-sp
2001-sp
2002-sp
2003-sp
2004-sp
2005-sp
2006-sp
2007-sp
2008-sp
2009-sp
2010-sp
2011-sp
2012-sp
2013-sp
2014-sp


CTDEEP LISTS: Knobbed Whelk Avg Wt
Kg
0.60
0.50
0.40
0.30
0.20
0.10
0.00
r^2 = 0.11
prob = 0.07
1998-sp
1999-sp
2000-sp
2001-sp
2002-sp
2003-sp
2004-sp
2005-sp
2006-sp
2007-sp
2008-sp
2009-sp
2010-sp
2011-sp
2012-sp
2013-sp
2014-sp




S. Tettelbach, LIU – unpub. data

# Female Channeled Whelk Samples

| SL (inches) | WLIS | ELIS | PEC | BIS | GSB* | Total |
|---|---|---|---|---|---|---|
| < 3" | 1 | 1 | 0 | 0 | 1 | 3 |
| 3 - 3.24 | 2 | 0 | 0 | 0 | 4 | 6 |
| 3.25 - 3.49 | 0 | 1 | 0 | 0 | 6 | 7 |
| 3.5 - 3.74 | 2 | 3 | 0 | 0 | 7 | 12 |
| 3.75 - 3.99 | 0 | 2 | 4 | 0 | 5 | 11 |
| 4 - 4.24 | 5 | 1 | 1 | 0 | 2 | 9 |
| 4.25 - 4.49 | 2 | 4 | 4 | 3 | 5 | 18 |
| 4.5 - 4.74 | 1 | 0 | 3 | 3 | 1 | 8 |
| 4.75 - 4.99 | 2 | 8 | 1 | 1 | 2 | 14 |
| 5 - 5.24 | 3 | 10 | 3 | 1 | 3 | 20 |
| 5.25 - 5.49 | 3 | 6 | 1 | 1 | 4 | 15 |
| 5.5 - 5.74 | 5 | 3 | 4 | 2 | 7 | 21 |
| 5.75 - 5.99 | 5 | 7 | 3 | 2 | 7 | 24 |
| 6 - 6.24 | 5 | 2 | 2 | 3 | 1 | 13 |
| 6.25 - 6.49 | 3 | 1 | 5 | 3 | 2 | 14 |
| 6.5 - 6.74 | 2 | 6 | 4 | 2 | 5 | 19 |
| 6.75 - 6.99 | 2 | 6 | 1 | 3 | 4 | 16 |
| 7 - 7.24 | 0 | 3 | 0 | 3 | 6 | 12 |
| 7.25 - 7.49 | 0 | 3 | 2 | 4 | 13 | 22 |
| 7.5 - 7.74 | 0 | 0 | 0 | 2 | 1 | 3 |
| 7.75 - 7.99 | 0 | 0 | 0 | 0 | 0 | 0 |
| > 8" | 0 | 1 | 0 | 0 | 0 | 1 |
| Total | 43 | 68 | 38 | 33 | 86 | 268 |
| % ≥ 5.25" | 58% | 56% | 58% | 76% | 58% | 60% |
| % ≥ 5.5" | 51% | 47% | 55% | 73% | 53% | 54% |

* GSB samples from LIU – Dr. Tettelbach's student Ms. R. Lynn

# Male Channeled Whelk Samples

| SL (inches) | WLIS | ELIS | PEC | BIS | GSB* | Total |
|---|---|---|---|---|---|---|
| < 3" | 1 | 0 | 2 | 0 | 1 | 4 |
| 3 - 3.24 | 0 | 2 | 0 | 0 | 0 | 2 |
| 3.25 - 3.49 | 1 | 3 | 0 | 0 | 4 | 8 |
| 3.5 - 3.74 | 0 | 2 | 1 | 0 | 3 | 6 |
| 3.75 - 3.99 | 0 | 2 | 1 | 0 | 7 | 10 |
| 4 - 4.24 | 0 | 3 | 3 | 1 | 2 | 9 |
| 4.25 - 4.49 | 2 | 1 | 3 | 2 | 4 | 12 |
| 4.5 - 4.74 | 5 | 5 | 3 | 2 | 4 | 19 |
| 4.75 - 4.99 | 3 | 6 | 1 | 7 | 14 | 31 |
| 5 - 5.24 | 7 | 19 | 4 | 7 | 12 | 49 |
| 5.25 - 5.49 | 2 | 0 | 4 | 3 | 4 | 13 |
| 5.5 - 5.74 | 1 | 5 | 5 | 5 | 2 | 18 |
| 5.75 - 5.99 | 1 | 3 | 2 | 11 | 0 | 17 |
| 6 - 6.24 | 0 | 0 | 0 | 20 | 0 | 20 |
| 6.25 - 6.49 | 0 | 0 | 0 | 21 | 1 | 22 |
| 6.5 - 6.74 | 0 | 0 | 1 | 10 | 2 | 13 |
| 6.75 - 6.99 | 0 | 0 | 1 | 1 | 0 | 2 |
| 7 - 7.24 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.25 - 7.49 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.5 - 7.74 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.75 - 7.99 | 0 | 0 | 0 | 0 | 0 | 0 |
| > 8" | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 23 | 51 | 31 | 90 | 60 | 255 |
| % ≥ 5.25" | 17% | 16% | 42% | 79% | 15% | 41% |
| % ≥ 5.5" | 9% | 16% | 29% | 76% | 8% | 36% |

* GSB samples from LIU – Dr. Tettelbach's student Ms. R. Lynn

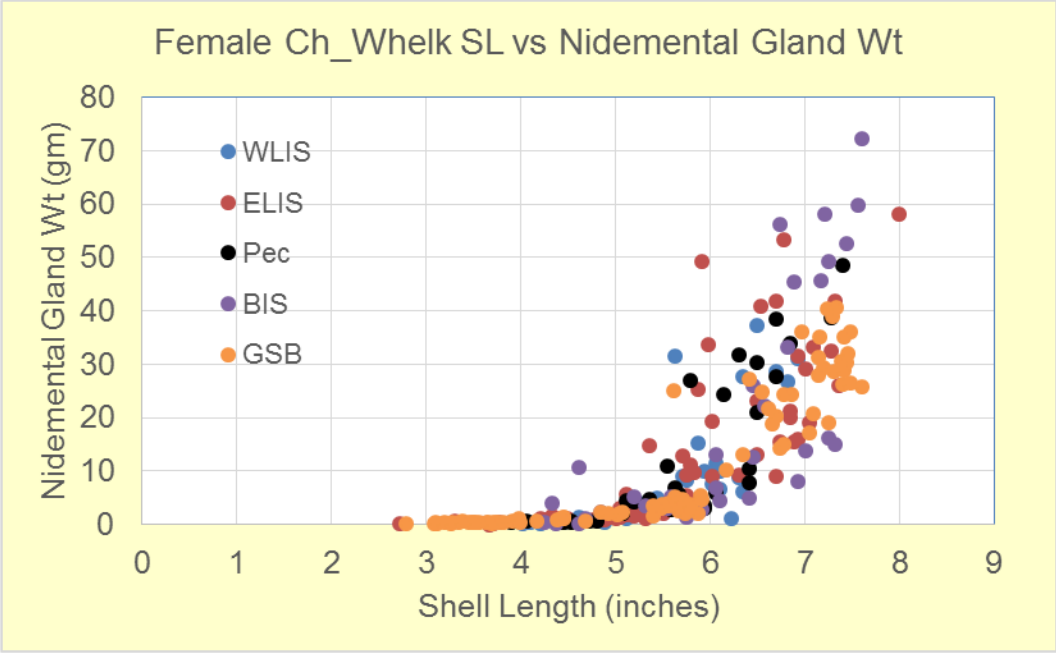
# Knobbed Whelk Samples

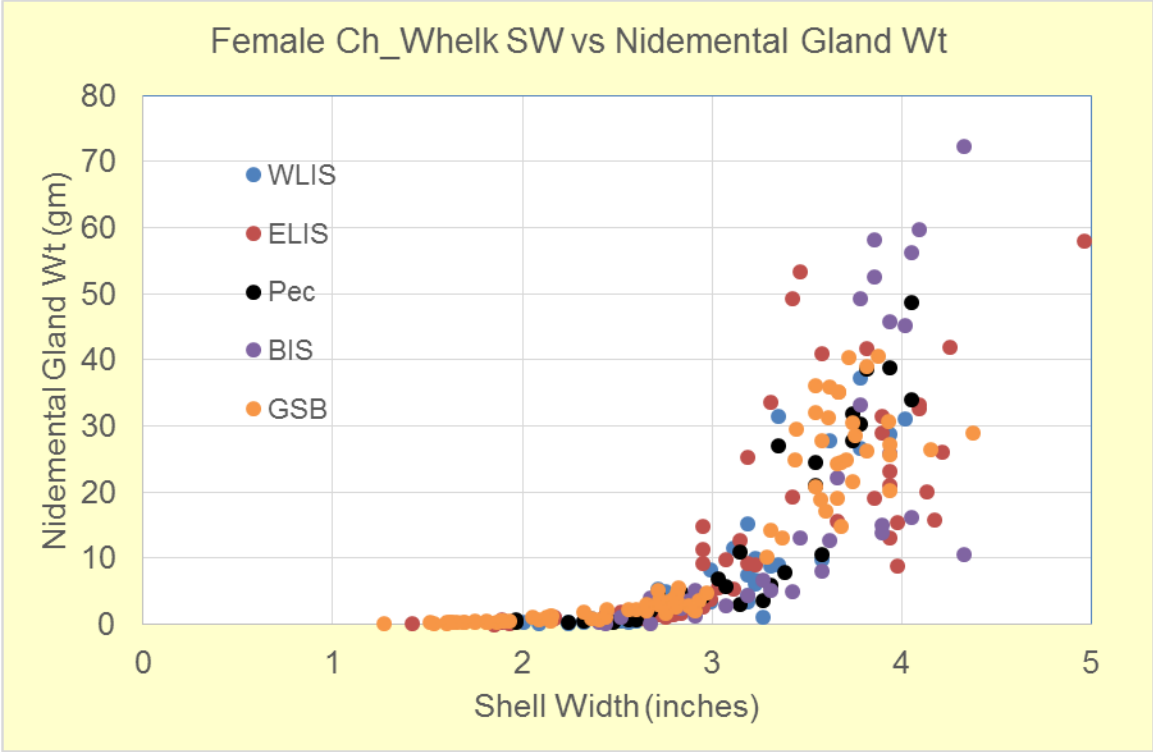
**Female Knobbed Whelk**

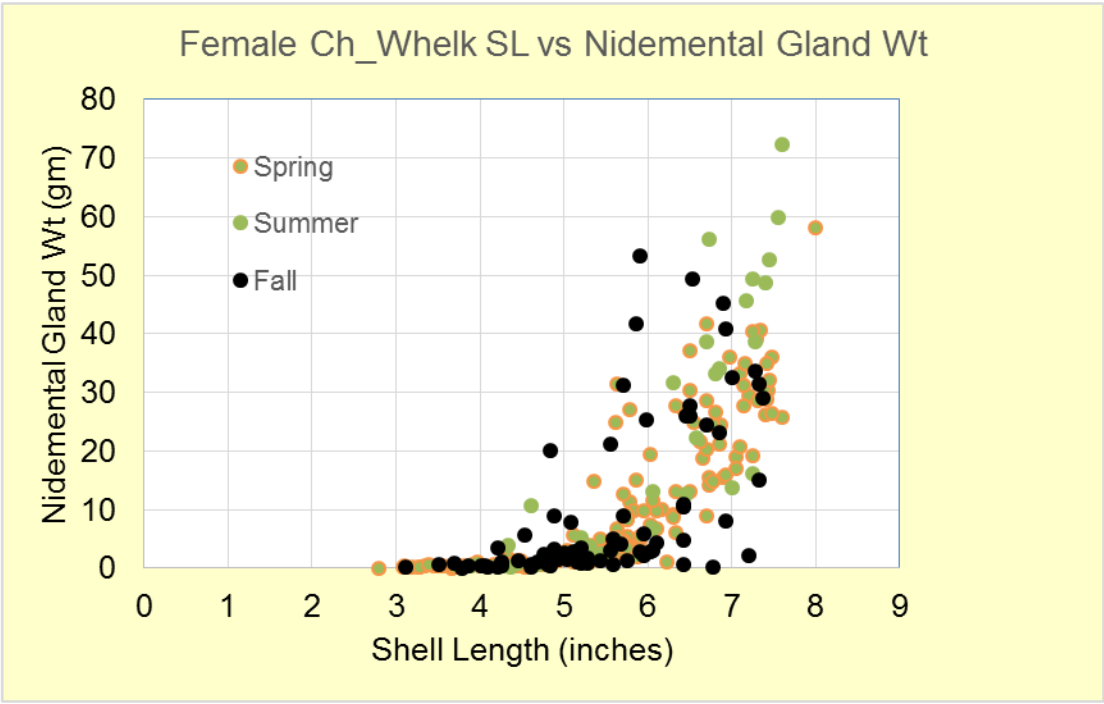
| SL (inches) | WLIS | ELIS | Total |
|---|---|---|---|
| < 3" | 0 | 0 | 0 |
| 3 - 3.24 | 0 | 0 | 0 |
| 3.25 - 3.49 | 0 | 0 | 0 |
| 3.5 - 3.74 | 0 | 0 | 0 |
| 3.75 - 3.99 | 0 | 0 | 0 |
| 4 - 4.24 | 0 | 0 | 0 |
| 4.25 - 4.49 | 0 | 0 | 0 |
| 4.5 - 4.74 | 0 | 0 | 0 |
| 4.75 - 4.99 | 0 | 1 | 1 |
| 5 - 5.24 | 0 | 1 | 1 |
| 5.25 - 5.49 | 0 | 0 | 0 |
| 5.5 - 5.74 | 0 | 2 | 2 |
| 5.75 - 5.99 | 0 | 3 | 3 |
| 6 - 6.24 | 1 | 4 | 5 |
| 6.25 - 6.49 | 0 | 7 | 7 |
| 6.5 - 6.74 | 0 | 5 | 5 |
| 6.75 - 6.99 | 0 | 7 | 7 |
| 7 - 7.24 | 0 | 11 | 11 |
| 7.25 - 7.49 | 1 | 7 | 8 |
| 7.5 - 7.74 | 0 | 4 | 4 |
| 7.75 - 7.99 | 0 | 5 | 5 |
| > 8" | 0 | 2 | 2 |
| Total | 2 | 59 | 61 |
| % ≥ 5.25" | 100% | 97% | 97% |
| % ≥ 5.5" | 100% | 97% | 97% |

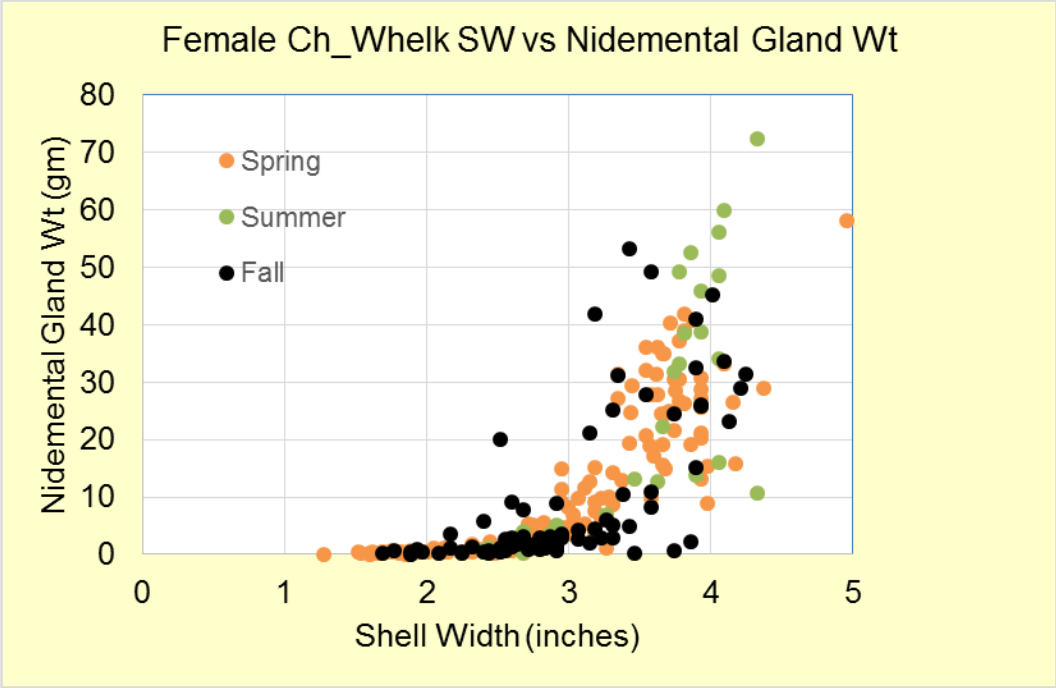
**Male Knobbed Whelk**

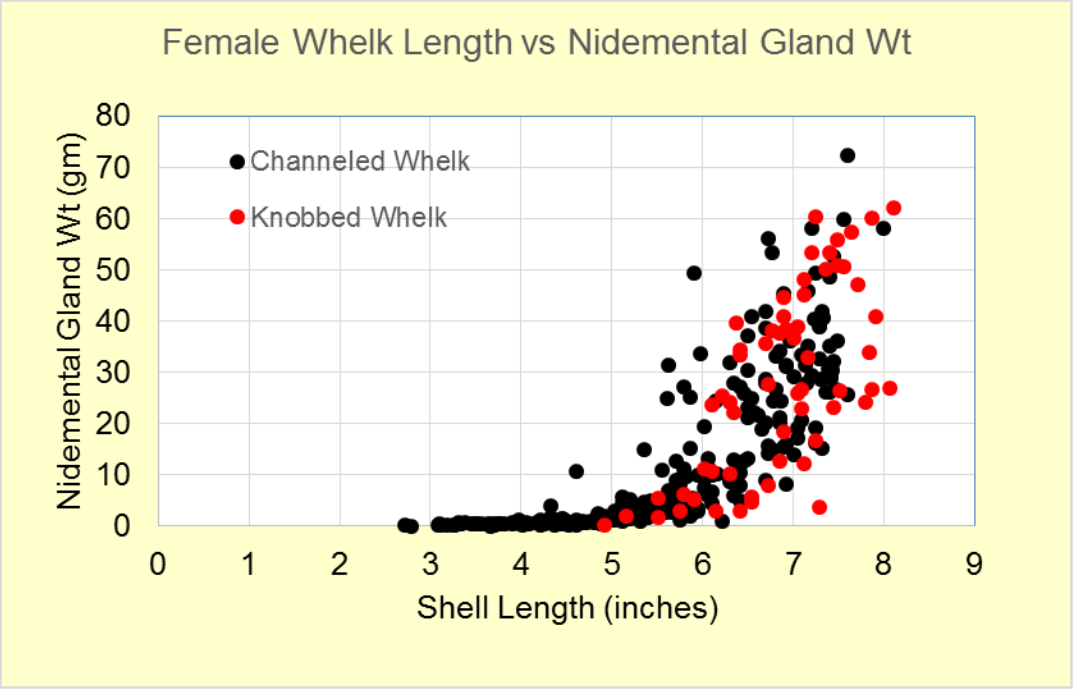
| SL (inches) | WLIS | ELIS | Total |
|---|---|---|---|
| < 3" | 0 | 0 | 0 |
| 3 - 3.24 | 0 | 0 | 0 |
| 3.25 - 3.49 | 0 | 0 | 0 |
| 3.5 - 3.74 | 0 | 0 | 0 |
| 3.75 - 3.99 | 0 | 1 | 1 |
| 4 - 4.24 | 0 | 0 | 0 |
| 4.25 - 4.49 | 0 | 2 | 2 |
| 4.5 - 4.74 | 0 | 2 | 2 |
| 4.75 - 4.99 | 0 | 2 | 2 |
| 5 - 5.24 | 0 | 1 | 1 |
| 5.25 - 5.49 | 1 | 2 | 3 |
| 5.5 - 5.74 | 0 | 2 | 2 |
| 5.75 - 5.99 | 0 | 4 | 4 |
| 6 - 6.24 | 0 | 1 | 1 |
| 6.25 - 6.49 | 0 | 2 | 2 |
| 6.5 - 6.74 | 0 | 0 | 0 |
| 6.75 - 6.99 | 0 | 0 | 0 |
| 7 - 7.24 | 0 | 0 | 0 |
| 7.25 - 7.49 | 0 | 0 | 0 |
| 7.5 - 7.74 | 0 | 0 | 0 |
| 7.75 - 7.99 | 0 | 0 | 0 |
| > 8" | 0 | 0 | 0 |
| Total | 1 | 19 | 20 |
| % ≥ 5.25" | 100% | 58% | 60% |
| % ≥ 5.5" | 0% | 47% | 45% |

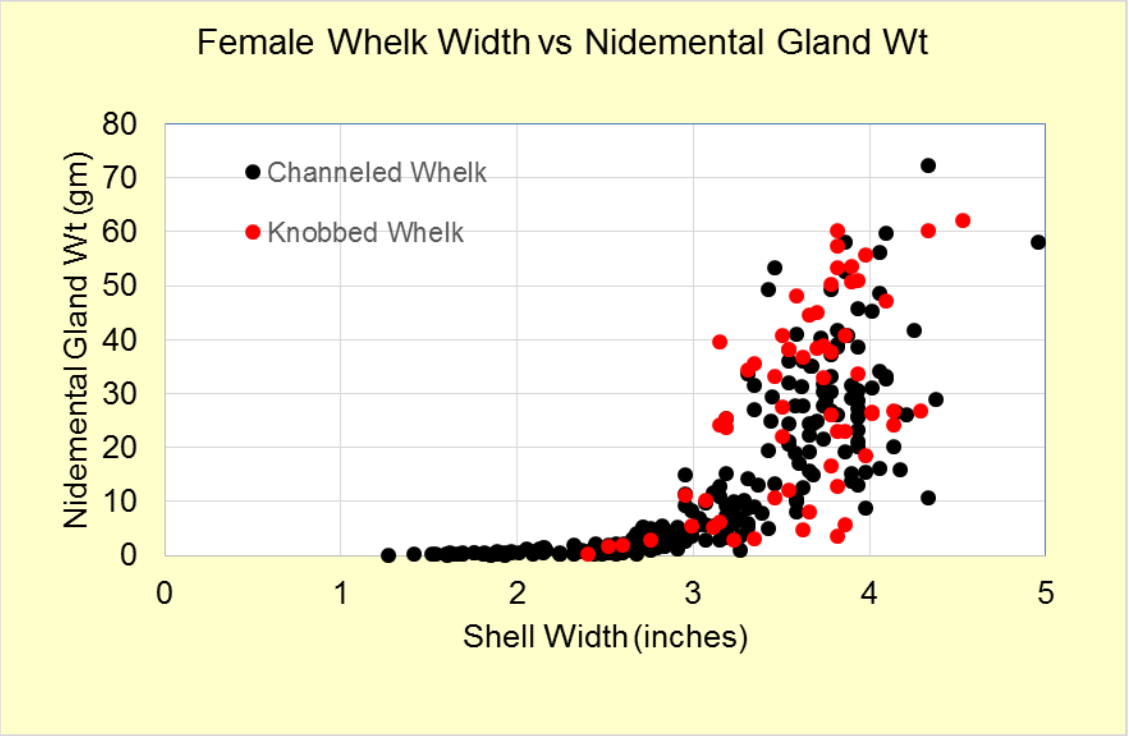

Female Ch_Whelk SL vs Nidemental Gland Wt
Nidemental Gland Wt (gm)
Shell Length (inches)
WLIS
ELIS
Pec
BIS
GSB
0
10
20
30
40
50
60
70
80
0
1
2
3
4
5
6
7
8
9

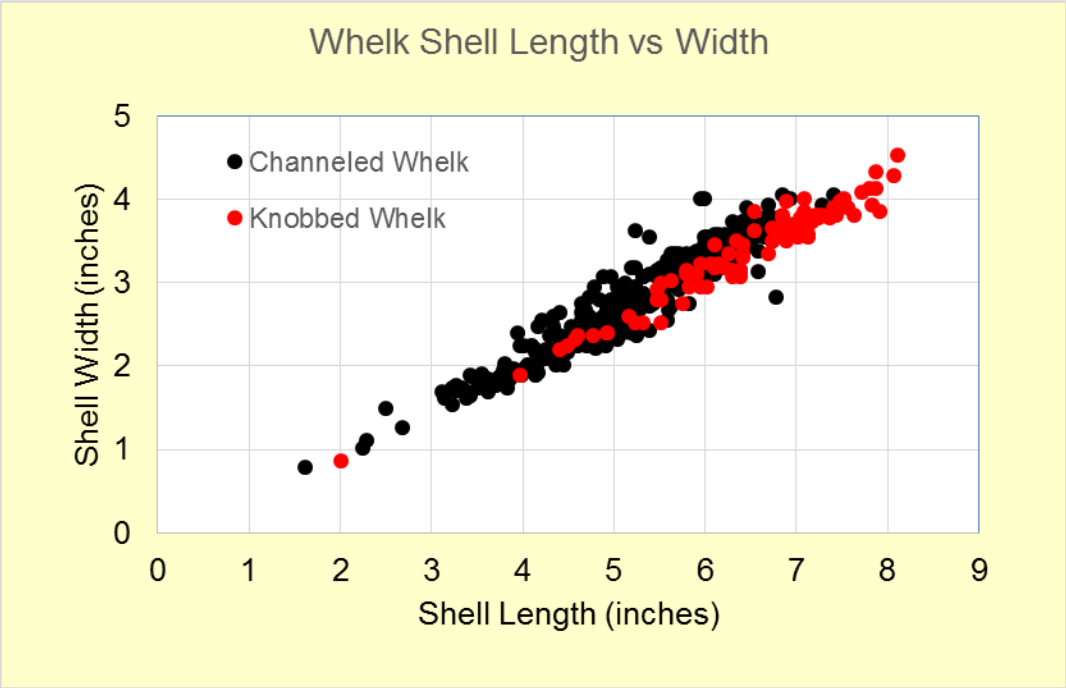

Female Ch_Whelk SW vs Nidemental Gland Wt
Nidemental Gland Wt (gm)
Shell Width (inches)
WLIS
ELIS
Pec
BIS
GSB
0
10
20
30
40
50
60
70
80
0
1
2
3
4
5

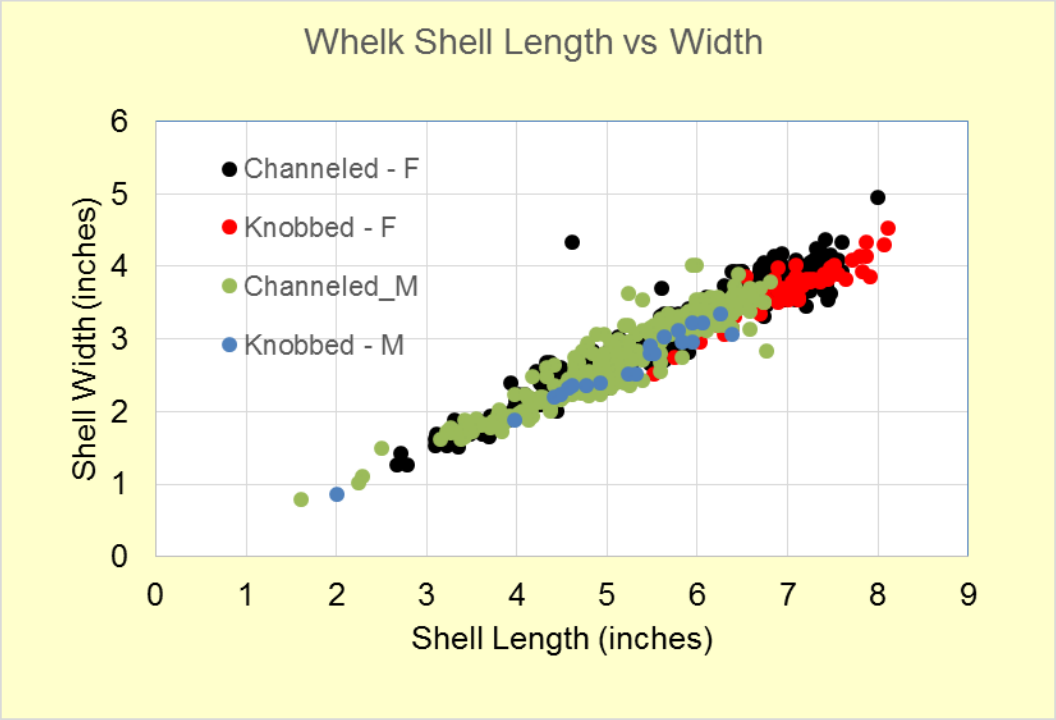

Female Ch_Whelk SL vs Nidemental Gland Wt
Nidemental Gland Wt (gm)
Shell Length (inches)
Spring
Summer
Fall
0
10
20
30
40
50
60
70
80
0
1
2
3
4
5
6
7
8
9

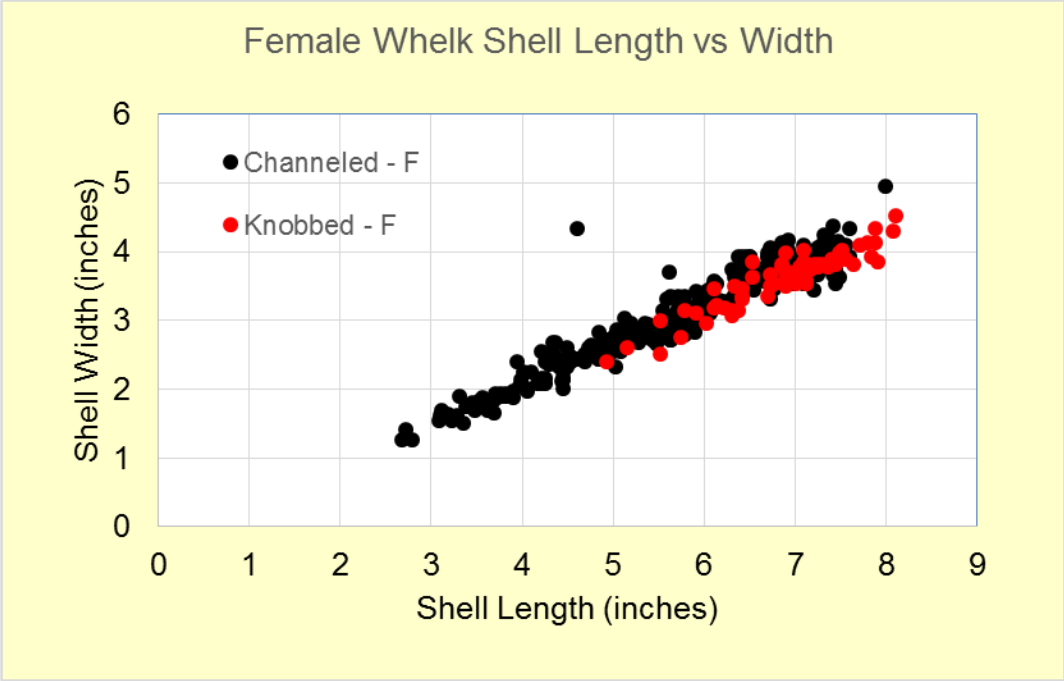

Female Ch_Whelk SW vs Nidemental Gland Wt
Nidemental Gland Wt (gm)
Shell Width (inches)
Spring
Summer
Fall
0
10
20
30
40
50
60
70
80
0
1
2
3
4
5

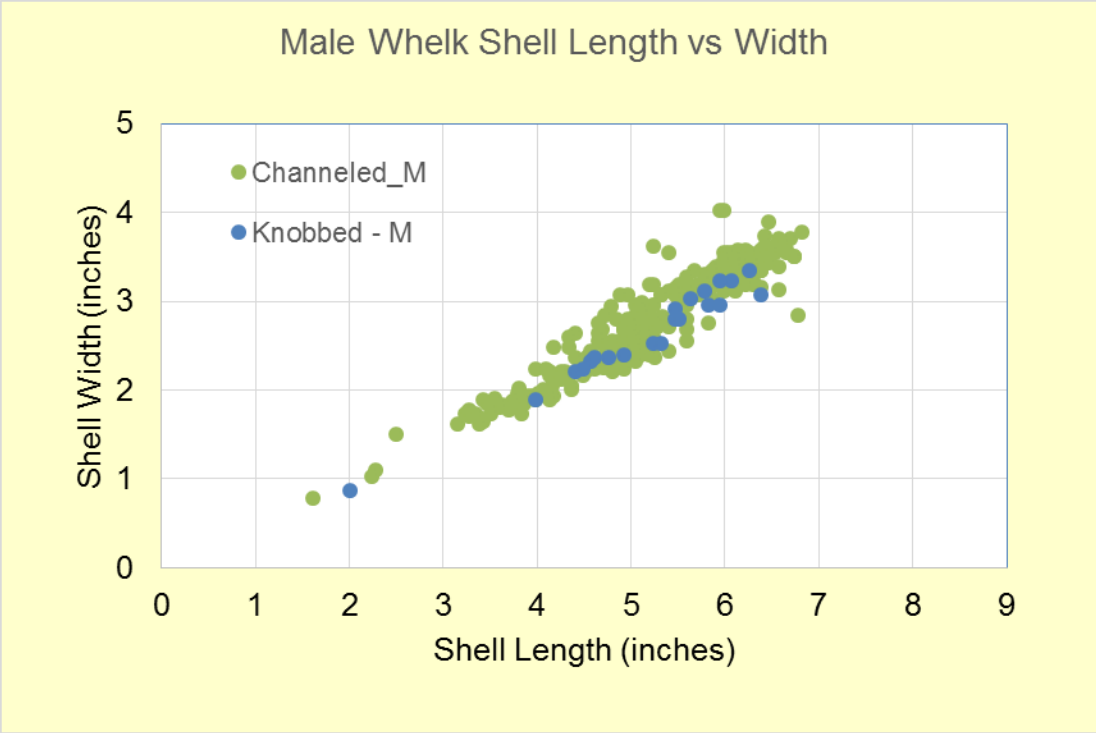

Female Whelk Length vs Nidemental Gland Wt
Channeled Whelk
Knobbed Whelk
Nidemental Gland Wt (gm)
0
10
20
30
40
50
60
70
80
0
1
2
3
4
5
6
7
8
9
Shell Length (inches)


Female Whelk Width vs Nidemental Gland Wt
Channeled Whelk
Knobbed Whelk
Nidemental Gland Wt (gm)
0
10
20
30
40
50
60
70
80
0
1
2
3
4
5
Shell Width (inches)


Whelk Shell Length vs Width
Channeled Whelk
Knobbed Whelk
Shell Width (inches)
Shell Length (inches)
0
1
2
3
4
5
6
7
8
9


Whelk Shell Length vs Width
Channeled - F
Knobbed - F
Channeled_M
Knobbed - M
Shell Width (inches)
Shell Length (inches)
0
1
2
3
4
5
6
7
8
9


Female Whelk Shell Length vs Width
Channeled - F
Knobbed - F
Shell Width (inches)
Shell Length (inches)
0
1
2
3
4
5
6
7
8
9


Male Whelk Shell Length vs Width
Channeled_M
Knobbed - M
Shell Width (inches)
Shell Length (inches)
0
1
2
3
4
5
6
7
8
9

## CT Trawl - Channeled Whelk SL

| SL(") | 2013 | 2014 | Total |
|---|---|---|---|
| 1.99 | 1 | 0 | 1 |
| 2.24 | 0 | 0 | 0 |
| 2.49 | 0 | 0 | 0 |
| 2.74 | 1 | 1 | 2 |
| 2.99 | 0 | 0 | 0 |
| 3.24 | 2 | 1 | 3 |
| 3.49 | 4 | 0 | 4 |
| 3.74 | 5 | 2 | 7 |
| 3.99 | 4 | 0 | 4 |
| 4.24 | 5 | 0 | 5 |
| 4.49 | 1 | 5 | 6 |
| 4.74 | 4 | 3 | 7 |
| 4.99 | 5 | 1 | 6 |
| 5.24 | 22 | 1 | 23 |
| 5.49 | 6 | 2 | 8 |
| 5.74 | 12 | 2 | 14 |
| 5.99 | 15 | 1 | 16 |
| 6.24 | 6 | 1 | 7 |
| 6.49 | 4 | 0 | 4 |
| 6.74 | 5 | 3 | 8 |
| 6.99 | 5 | 2 | 7 |
| 7.24 | 2 | 1 | 3 |
| 7.49 | 3 | 0 | 3 |
| 7.74 | 0 | 0 | 0 |
| 7.99 | 0 | 0 | 0 |
| >8 | 0 | 1 | 1 |
| Total | 112 | 27 | 139 |
| | | | |
| % ≥ 5.25" | 52% | 48% | 51% |
| % ≥ 5.5" | 46% | 41% | 45% |

## CT Trawl - Channeled Whelk SL

| SL(") | WLIS | ELIS | Total |
|---|---|---|---|
| 1.99 | 1 | 0 | 1 |
| 2.24 | 0 | 0 | 0 |
| 2.49 | 0 | 0 | 0 |
| 2.74 | 1 | 1 | 2 |
| 2.99 | 0 | 0 | 0 |
| 3.24 | 1 | 2 | 3 |
| 3.49 | 0 | 4 | 4 |
| 3.74 | 2 | 5 | 7 |
| 3.99 | 0 | 4 | 4 |
| 4.24 | 1 | 4 | 5 |
| 4.49 | 1 | 5 | 6 |
| 4.74 | 2 | 5 | 7 |
| 4.99 | 1 | 5 | 6 |
| 5.24 | 8 | 15 | 23 |
| 5.49 | 5 | 3 | 8 |
| 5.74 | 6 | 8 | 14 |
| 5.99 | 6 | 10 | 16 |
| 6.24 | 5 | 2 | 7 |
| 6.49 | 3 | 1 | 4 |
| 6.74 | 2 | 6 | 8 |
| 6.99 | 1 | 6 | 7 |
| 7.24 | 0 | 3 | 3 |
| 7.49 | 0 | 3 | 3 |
| 7.74 | 0 | 0 | 0 |
| 7.99 | 0 | 0 | 0 |
| >8 | 0 | 1 | 1 |
| Total | 46 | 93 | 139 |
| | | | |
| % ≥ 5.25" TL | 61% | 46% | 51% |
| % ≥ 5.5" TL | 50% | 43% | 45% |

## CCE - Channeled Whelk SL

| SL(") | 2013 | 2014 | Total |
|---|---|---|---|
| 1.99 | 0 | 0 | 0 |
| 2.24 | 0 | 0 | 0 |
| 2.49 | 0 | 0 | 0 |
| 2.74 | 0 | 0 | 0 |
| 2.99 | 0 | 0 | 0 |
| 3.24 | 0 | 0 | 0 |
| 3.49 | 0 | 0 | 0 |
| 3.74 | 1 | 0 | 1 |
| 3.99 | 1 | 1 | 2 |
| 4.24 | 5 | 4 | 9 |
| 4.49 | 5 | 18 | 23 |
| 4.74 | 17 | 37 | 54 |
| 4.99 | 9 | 21 | 30 |
| 5.24 | 15 | 28 | 43 |
| 5.49 | 43 | 26 | 69 |
| 5.74 | 50 | 23 | 73 |
| 5.99 | 27 | 24 | 51 |
| 6.24 | 29 | 12 | 41 |
| 6.49 | 34 | 18 | 52 |
| 6.74 | 36 | 16 | 52 |
| 6.99 | 17 | 3 | 20 |
| 7.24 | 20 | 10 | 30 |
| 7.49 | 8 | 8 | 16 |
| 7.74 | 6 | 3 | 9 |
| 7.99 | 0 | 4 | 4 |
| >8 | 0 | 0 | 0 |
| Total | 323 | 256 | 579 |
| | | | |
| % ≥ 5.25" | 84% | 57% | 72% |
| % ≥ 5.5" | 70% | 47% | 60% |

## CCE - Channeled Whelk SL

| SL(") | WLIS | ELIS | Total |
|---|---|---|---|
| 1.99 | 0 | 0 | 0 |
| 2.24 | 0 | 0 | 0 |
| 2.49 | 0 | 0 | 0 |
| 2.74 | 0 | 0 | 0 |
| 2.99 | 0 | 0 | 0 |
| 3.24 | 0 | 0 | 0 |
| 3.49 | 0 | 0 | 0 |
| 3.74 | 0 | 1 | 1 |
| 3.99 | 1 | 1 | 2 |
| 4.24 | 4 | 5 | 9 |
| 4.49 | 15 | 8 | 23 |
| 4.74 | 23 | 31 | 54 |
| 4.99 | 14 | 16 | 30 |
| 5.24 | 23 | 20 | 43 |
| 5.49 | 12 | 57 | 69 |
| 5.74 | 4 | 69 | 73 |
| 5.99 | 6 | 45 | 51 |
| 6.24 | 1 | 40 | 41 |
| 6.49 | 3 | 49 | 52 |
| 6.74 | 4 | 48 | 52 |
| 6.99 | 0 | 20 | 20 |
| 7.24 | 2 | 28 | 30 |
| 7.49 | 3 | 13 | 16 |
| 7.74 | 0 | 9 | 9 |
| 7.99 | 3 | 1 | 4 |
| >8 | 0 | 0 | 0 |
| Total | 118 | 461 | 579 |
| | | | |
| % ≥ 5.25" TL | 32% | 82% | 72% |
| % ≥ 5.5" TL | 22% | 70% | 60% |

## CT Trawl - Channeled Whelk Width

| Width (") | 2013 | 2014 | Total |
|---|---|---|---|
| 1.24 | 1 | 0 | 1 |
| 1.49 | 1 | 1 | 2 |
| 1.74 | 4 | 1 | 5 |
| 1.99 | 12 | 2 | 14 |
| 2.24 | 3 | 1 | 4 |
| 2.49 | 7 | 5 | 12 |
| 2.74 | 23 | 5 | 28 |
| 2.87 | 8 | 0 | 8 |
| 2.99 | 6 | 1 | 7 |
| 3.24 | 23 | 3 | 26 |
| 3.49 | 9 | 0 | 9 |
| 3.74 | 3 | 1 | 4 |
| 3.99 | 9 | 3 | 12 |
| 4.24 | 2 | 3 | 5 |
| 4.49 | 1 | 0 | 1 |
| 4.74 | 0 | 0 | 0 |
| 4.99 | 0 | 1 | 1 |
| 5.24 | 0 | 0 | 0 |
| 5.49 | 0 | 0 | 0 |
| >5.5 | 0 | 0 | 0 |
| Total | 112 | 27 | 139 |
| | | | |
| % ≥ 2 7/8" | 47% | 44% | 47% |
| % ≥ 3" | 42% | 41% | 42% |

## CT Trawl - Channeled Whelk

| Width (") | WLIS | ELIS | Total |
|---|---|---|---|
| 1.24 | 1 | 0 | 1 |
| 1.49 | 1 | 1 | 2 |
| 1.74 | 2 | 3 | 5 |
| 1.99 | 1 | 13 | 14 |
| 2.24 | 1 | 3 | 4 |
| 2.49 | 5 | 7 | 12 |
| 2.74 | 10 | 18 | 28 |
| 2.87 | 3 | 5 | 8 |
| 2.99 | 2 | 5 | 7 |
| 3.24 | 11 | 15 | 26 |
| 3.49 | 4 | 5 | 9 |
| 3.74 | 2 | 2 | 4 |
| 3.99 | 3 | 9 | 12 |
| 4.24 | 0 | 5 | 5 |
| 4.49 | 0 | 1 | 1 |
| 4.74 | 0 | 0 | 0 |
| 4.99 | 0 | 1 | 1 |
| 5.24 | 0 | 0 | 0 |
| 5.49 | 0 | 0 | 0 |
| >5.5 | 0 | 0 | 0 |
| Total | 46 | 93 | 139 |
| | | | |
| % ≥ 2 7/8" | 48% | 46% | 47% |
| % ≥ 3" | 43% | 41% | 42% |

## CCE - Channeled Whelk Width

| Width (") | 2013 | 2014 | Total |
|---|---|---|---|
| 1.24 | 0 | 0 | 0 |
| 1.49 | 0 | 0 | 0 |
| 1.74 | 0 | 0 | 0 |
| 1.99 | 2 | 1 | 3 |
| 2.24 | 3 | 6 | 9 |
| 2.49 | 18 | 46 | 64 |
| 2.74 | 15 | 34 | 49 |
| 2.87 | 34 | 20 | 54 |
| 2.99 | 23 | 21 | 44 |
| 3.24 | 69 | 32 | 101 |
| 3.49 | 39 | 28 | 67 |
| 3.74 | 42 | 24 | 66 |
| 3.99 | 52 | 20 | 72 |
| 4.24 | 11 | 8 | 19 |
| 4.49 | 13 | 10 | 23 |
| 4.74 | 2 | 4 | 6 |
| 4.99 | 0 | 2 | 2 |
| 5.24 | 0 | 0 | 0 |
| 5.49 | 0 | 0 | 0 |
| >5.5 | 0 | 0 | 0 |
| Total | 323 | 256 | 579 |
| | | | |
| % ≥ 2 7/8" | 78% | 58% | 69% |
| % ≥ 3" | 71% | 50% | 61% |

## CCE - Channeled Whelk Width

| Width (") | WLIS | ELIS | Total |
|---|---|---|---|
| 1.24 | 0 | 0 | 0 |
| 1.49 | 0 | 0 | 0 |
| 1.74 | 0 | 0 | 0 |
| 1.99 | 1 | 2 | 3 |
| 2.24 | 4 | 5 | 9 |
| 2.49 | 29 | 35 | 64 |
| 2.74 | 24 | 25 | 49 |
| 2.87 | 17 | 37 | 54 |
| 2.99 | 10 | 34 | 44 |
| 3.24 | 15 | 86 | 101 |
| 3.49 | 1 | 66 | 67 |
| 3.74 | 5 | 61 | 66 |
| 3.99 | 5 | 67 | 72 |
| 4.24 | 0 | 19 | 19 |
| 4.49 | 6 | 17 | 23 |
| 4.74 | 1 | 5 | 6 |
| 4.99 | 0 | 2 | 2 |
| 5.24 | 0 | 0 | 0 |
| 5.49 | 0 | 0 | 0 |
| >5.5 | 0 | 0 | 0 |
| Total | 118 | 461 | 579 |
| | | | |
| % ≥ 2 7/8" | 36% | 77% | 69% |
| % ≥ 3" | 28% | 70% | 61% |

# Whelk Size Limits

| State | Year | Species | Min Length (“) | Min Width (“) |
|---|---|---|---|---|
| MA | 2013 | knobbed | | 2 - 3/4 |
| | 2015 | channeled | | 3 |
| RI | 2014 | knobbed & channeled | 5 - 3/8 | 3 |
| CT | | | | |
| NY | | | | |
| NJ | 2013 | Conch | 5 | |
| MD | 2013 | channeled | 6 | 3 - 1/8 |
| | 2010 | knobbed | 6 | 3- ½ |
| VA | 2013 | conch | 6 | |

# Terrapin Excluder Devise

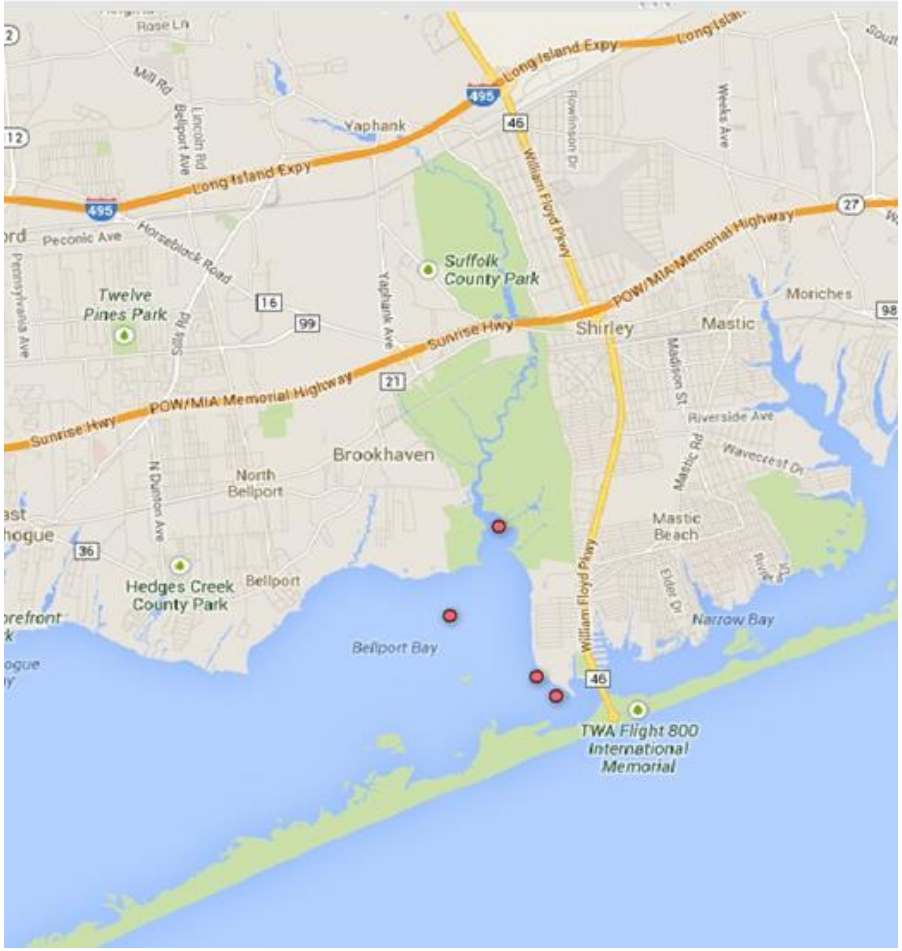
- MRAC supported a motion to mandate the use of TEDs measuring 1-3/4” ” x 4-3/4” throughout New York’s Marine District.

# Terrapin Excluder Devise

- Meeting – April 2014
  - crab permit holders, environmentalists and researchers
  - discuss areas of disagreement between the groups to try and develop a compromise rule.
- General Consensus
  - mandate TEDs in the near shore harbors, creeks, coves, rivers and tributaries where the major interaction occur.
  - Consider timing of rule so permit holders have time to comply
- Work with enforcement on language

# Continue Bellport Bay Study

- Sample similar sites as in 2012
- Add 2 new sites upriver in Carmens River where terrapin have been sighted
- Survey will start mid to late August



# NEW- Crab Endorsement

- Modifying crab endorsement language to mirror the language used in the lobster ECL which stipulates that permit holder must be on board when permit is used
- Ensure that the state's crab resource is harvested by the permit holder who has met the limited entry requirements

# NEW- Horseshoe Crab Harvest Limit

- Current rule allows only 1 harvest limit on board a vessel
  - Intent of rule was to restrict the possession to one harvest limit per day
  - Inadvertently created potential unsafe conditions for permit holders
- Revised rule will allow 2 harvest limits aboard a vessel
- Dec proposes further clarification of the possession language to increase enforceability

# Non-native or non-naturalized Crustaceans and Asian Horserhoe Crabs

- Prohibit the importation, possession and use of Asian horseshoe crabs and the release of non-native or non-naturalized crustacean
  - take advantage of new habitats and hosts to the detriment of local populations
  - Difficult to impossible to eradicate once they are established
  - Most effective and economic approach is to avoid introduction