Transect Report Lone Cabbage

Overview

This report provides summary statistics and figures for ongoing transect sampling. The first section of the report focuses on the current sampling (Winter 2022-2023) and how the collected data compare to last year's sampling (Winter 2021-2022). So far 7 days have been sampled this season. The second half of the report gives summaries of all of the data that have been collected since the beginning of the project (2010-05-27). In total, 151 days have been sampled over this entire project.

Definition of Localities

| LOCALITY | LOCATION |
|--------------------------|-----------------|
| $\overline{\mathrm{BT}}$ | Big Trout |
| CK | Cedar Key |
| CR | Corrigan's Reef |
| HB | Horseshoe Beach |
| LC | Lone Cabbage |
| LT | Little Trout |
| NN | No Name |

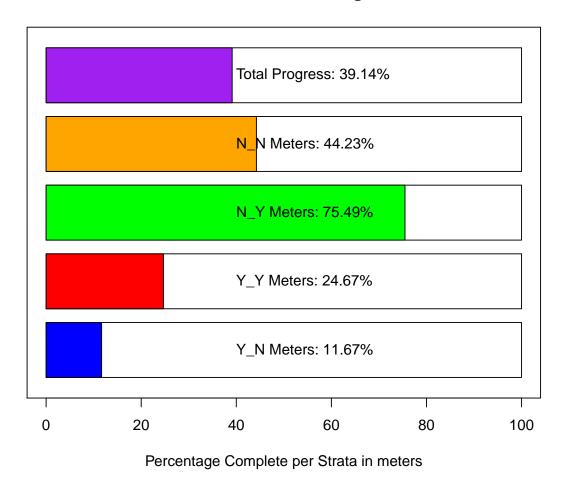
Definition of Strata

| STRATA | DEFINITION |
|---------|-------------------------|
| Y_N | Yes Harvest, No Rock |
| Y_Y | Yes Harvest, Yes Rock |
| N_N | No Harvest, No Rock |
| N_Y | No Harvest, Yes Rock |
| N_PILOT | No Harvest, Pilot Rocks |

Current Sampling

Here, we provide a progress bar showing how much of the sampling has been completed for this season, plus summary tables and plots comparing live counts and density of oysters between this current season and last year. The current sampling period is period 26, and last year's sampling period is period 24.

Field Sites - Strata Progress



Summary Tables for Periods 20, 22, 24, and 26

These summary tables provide summary statistics on live counts and oyster densities for just periods 20 (Winter 2019-2020), 22 (Winter 2020-2021), 24 (Winter 2021-2022), and 26 (Winter 2022-2023).

Summary statistics include:

- Locality or Strata or Period Mean
- Median
- Standard Deviation (SD)
- Variance (Var)

N PILOT 143

- Coefficient of variation (CV)
- Standard Error (SE)
- Lower 95% Confidence Interval assuming normal distribution (L95)
- Upper 95% Confidence Interval assuming normal distribution (U95)
- Bootstrap Mean (Bstrap Mean)
- Lower 95% Confidence Interval from Bootstrap Values (L95 Bstrap)
- Upper 95% Confidence Interval from Bootstrap Values (U95 Bstrap)

Summary of Live Counts for Periods 20, 22, 24, and 26

| Live Oyster Counts by Locality | | | | | |
|---|--------------------------------------|--------|--|--|--|
| · · · · · · · · · · · · · · · · · · · | L95 U95 Bstrap_Mean L95_Bstrap U95_ | Retran | | | |
| BT 1331 766 2188 4789476 1.64 607 | | 2603 | | | |
| LC 1920 1200 2083 4338305 1.08 194 1 | | 2336 | | | |
| LT 1097 877 582 338863 0.53 150 | | 1419 | | | |
| NN 842 714 639 408613 0.76 202 | | 1261 | | | |
| NN 042 714 033 400013 0.70 202 | 110 1200 012 322 | 1201 | | | |
| Live Oyster Counts by Strata | | | | | |
| Strata Mean Median SD Var CV SE L | 95 U95 Bstrap_Mean L95_Bstrap U95_B | strap | | | |
| N_N 1083 767 1185 1403189 1.09 154 7 | 81 1385 1085 834 | 1429 | | | |
| N_PILOT 2180 3009 1582 2501624 0.73 913 3 | 90 3970 2171 356 | 3174 | | | |
| N_Y 3650 3674 2182 4759072 0.60 412 28 | 42 4458 3647 2856 | 4430 | | | |
| Y_N 740 626 662 437764 0.89 95 5 | 55 926 742 569 | 928 | | | |
| Y_Y 3861 3230 2836 8044464 0.73 758 23 | 75 5347 3839 2535 | 5315 | | | |
| Live Oyster Counts by Period Period Mean Median SD Var CV SE L95 U95 Bstrap_Mean L95_Bstrap U95_Bstrap 20 1844 1253 2125 4517189 1.2 310 1236 2451 1844 1339 2498 22 1334 702 1693 2867783 1.3 242 860 1808 1336 890 1844 24 1729 942 1845 3403035 1.1 266 1207 2251 1731 1218 2258 26 3107 3690 2496 6230888 0.8 832 1476 4738 3118 1570 4700 | | | | | |
| Live Density by Locality | | | | | |
| Locality Mean Median SD Var CV SE L95 U | 95 Bstrap Mean L95 Bstrap U95 Bstrap | | | | |
| BT 235 205 192 37004 0.82 53 131 3 | | | | | |
| LC 168 161 110 12103 0.65 10 148 1 | | | | | |
| LT 320 321 129 16749 0.40 33 255 3 | | | | | |
| NN 233 174 230 52911 0.99 73 91 3 | | | | | |
| 200 27.2 200 02022 0700 70 02 0 | | | | | |
| Live Density by Strata | | | | | |
| · · | 5 Bstrap_Mean L95_Bstrap U95_Bstrap | | | | |
| N_N 239 192 163 26724 0.69 21 197 28 | | | | | |

143

102

180

147 39 1557 0.28 23 98 188

| N_Y | 179 | 180 | 83 | 6878 | 0.46 | 16 | 148 | 209 | 179 | 150 | 211 |
|-------|-----|-----|-----|-------|------|----|-----|-----|-----|-----|-----|
| Y_N | 162 | 153 | 134 | 18016 | 0.83 | 19 | 125 | 200 | 162 | 127 | 206 |
| Y_Y | 147 | 145 | 75 | 5563 | 0.51 | 20 | 108 | 186 | 147 | 111 | 188 |

Live Density by Period

| ${\tt Period}$ | Mean | ${\tt Median}$ | SD | Var | CV | SE | L95 | U95 | Bstrap_Mean | L95_Bstrap | U95_Bstrap |
|----------------|------|----------------|-----|-------|------|----|-----|-----|-------------|------------|------------|
| 20 | 256 | 203 | 187 | 35057 | 0.73 | 27 | 203 | 310 | 256 | 208 | 315 |
| 22 | 137 | 121 | 93 | 8638 | 0.68 | 13 | 111 | 163 | 137 | 112 | 163 |
| 24 | 185 | 181 | 92 | 8385 | 0.49 | 13 | 159 | 211 | 185 | 160 | 210 |
| 26 | 207 | 198 | 124 | 15322 | 0.60 | 41 | 126 | 288 | 207 | 133 | 281 |

Summary of Dead Counts for Periods 20, 22, 24, and 26

| Dead Oyster Counts by Locality | |
|---|---------------------------------------|
| · · · · · · · · · · · · · · · · · · · | Mean L95_Bstrap U95_Bstrap |
| BT 163 98 175 30535 1.07 48 68 258 | 164 95 266 |
| LC 182 130 185 34048 1.02 17 148 216 | 181 150 216 |
| LT 206 137 151 22760 0.73 39 130 282 | 206 137 283 |
| NN 102 72 94 8760 0.92 30 44 160 | 100 55 161 |
| NN 102 72 34 0700 0.32 30 44 100 | 100 00 101 |
| Dead Oyster Counts by Strata | |
| <u>-</u> - | ean L95_Bstrap U95_Bstrap |
| - | 172 133 218 |
| - | 135 9 270 |
| N_Y 196 166 143 20537 0.73 27 143 249 | 198 148 249 |
| Y_N 128 81 130 16802 1.01 19 92 164 | 128 93 166 |
| Y_Y 348 246 299 89594 0.86 80 191 504 3 | 347 211 508 |
| Dead Oyster Counts by Period | |
| Period Mean Median SD Var CV SE L95 U95 Bstrap_Mea | an L95_Bstrap U95_Bstrap |
| 20 148 107 140 19727 0.95 20 108 188 14 | 48 112 187 |
| 22 191 128 193 37399 1.01 28 137 245 19 | 91 141 246 |
| 24 192 130 194 37816 1.01 28 137 247 19 | 92 144 250 |
| 26 178 171 149 22311 0.84 50 81 276 18 | 31 100 285 |
| Dead Oyster Density by Locality Locality Mean Median SD Var CV SE L95 U95 Bstrap_Mea | an L95_Bstrap U95_Bstrap |
| BT 36 28 23 534 0.64 6.4 23 48 | 36 24 48 |
| LC 22 13 22 467 1.00 2.0 18 26 | 22 18 26 |
| LT 56 50 30 881 0.53 7.7 41 71 | 56 42 70 |
| NN 27 21 22 500 0.83 7.1 13 41 | 27 15 42 |
| Dead Oyster Density by Strata | |
| | Mean L95_Bstrap U95_Bstrap |
| N_N 37.9 32.5 26.5 700 0.70 3.4 31.2 45 | 38.0 31.2 44 |
| N_PILOT 7.6 7.6 5.0 25 0.66 2.9 1.9 13 | 7.7 2.6 13 |
| N_Y 9.9 9.6 6.4 42 0.65 1.2 7.5 12 | 9.9 7.7 12 |
| Y_N 27.4 19.4 25.6 658 0.94 3.7 20.2 35 | 27.5 20.8 35 |
| Y_Y 12.3 13.1 5.2 27 0.42 1.4 9.5 15 | 12.3 9.6 15 |
| | |
| Dead Oyster Density by Period | oon IOE Batman HOE Batman |
| Period Mean Median SD Var CV SE L95 U95 Bstrap_Me 20 28 18 26.1 682 0.94 3.8 20.2 35 | ean L95_Bstrap U95_Bstrap 28 20 36 |
| 20 28 14 28.4 807 1.00 4.1 20.5 36 | 28 21 36 |
| | |
| | 26 20 32 13 9 18 |
| 26 13 10 7.6 58 0.58 2.5 8.1 18 | 13 9 18 |

Summary Plots for Periods 20, 22, 24, and 26

Live Oyster Density by Locality for Periods 20, 22, 24, and 26

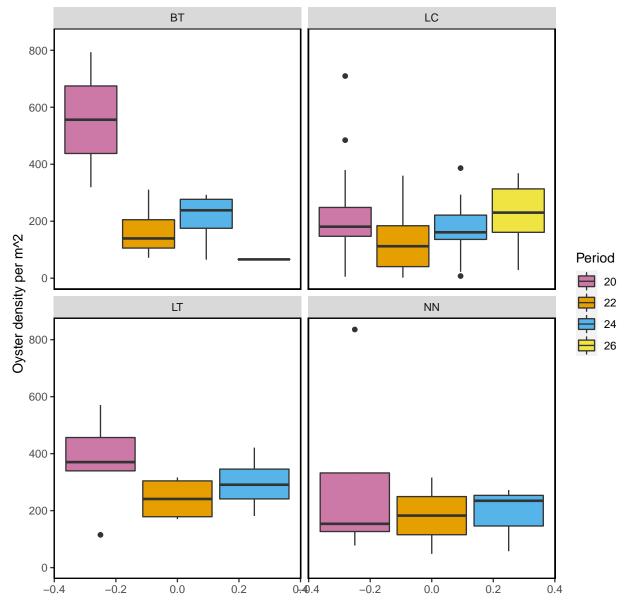


Figure- Calculated live oyster density by locality for periods 20 (Winter 2019-2020), 22 (Winter 2020-2021), 24 (Winter 2021-2022), and 26 (Winter 2022-2023) with the last sample date of period 26 as 2022-12-11.

Dead Oyster Density by Locality for Periods 20, 22, 24, and 26

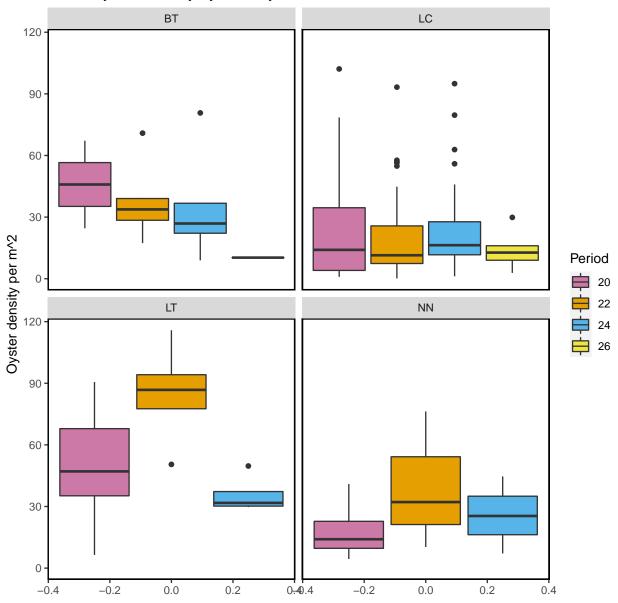


Figure- Calculated dead oyster density by locality for periods 20 (Winter 2019-2020), 22 (Winter 2020-2021), 24 (Winter 2021-2022), and 26 (Winter 2022-2023) with the last sample date of period 26 as 2022-12-11.

Live Oyster Density by Strata for Periods 20, 22, 24, and 26

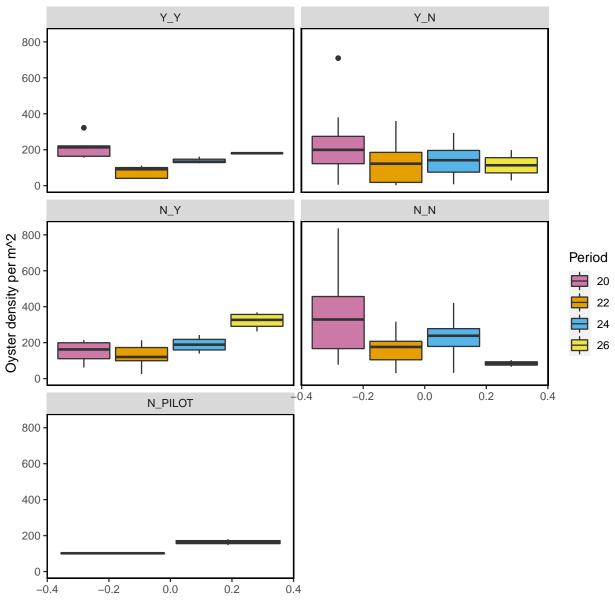


Figure- Calculated live oyster density by strata for periods 20 (Winter 2019-2020), 22 (Winter 2020-2021), 24 (Winter 2021-2022), and 26 (Winter 2022-2023) with the last sample date of period 26 as 2022-12-11.

Dead Oyster Density by Strata for Periods 20, 22, 24, and 26

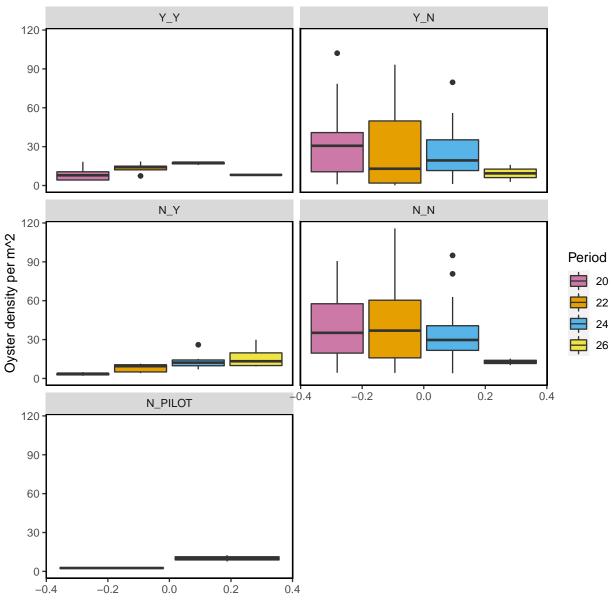


Figure- Calculated dead oyster density by strata for periods 20 (Winter 2019-2020), 22 (Winter 2020-2021), 24 (Winter 2021-2022), and 26 (Winter 2022-2023) with the last sample date of period 26 as 2022-12-11.

The following summary plot is calculated in R using the <code>geom_density</code> (https://ggplot2.tidyverse.org/reference/geom_density.html) statistical function in <code>ggplot</code>. The <code>geom_density</code> function computes and draws kernel density estimates, which is then represented as a smoothed version of a histogram.

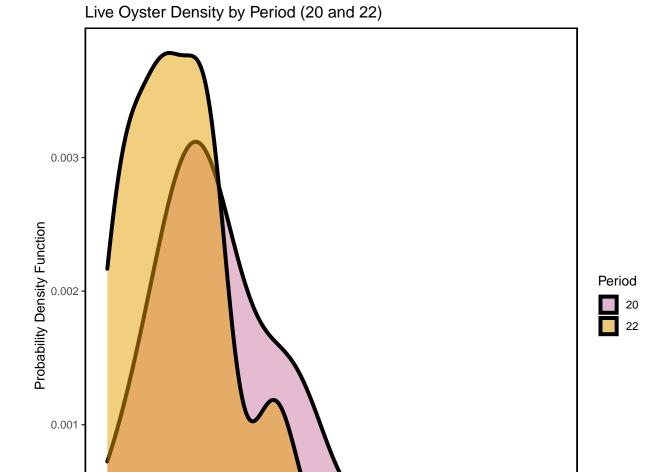


Figure- Calculated live oyster density by periods 20 (Winter 2019-2020) and 22 (Winter 2020-2021) using a probability density function with the last sample date of period 22 as 2022-12-11.

Oyster density per m^2

600

800

400

200

0.000

Ö

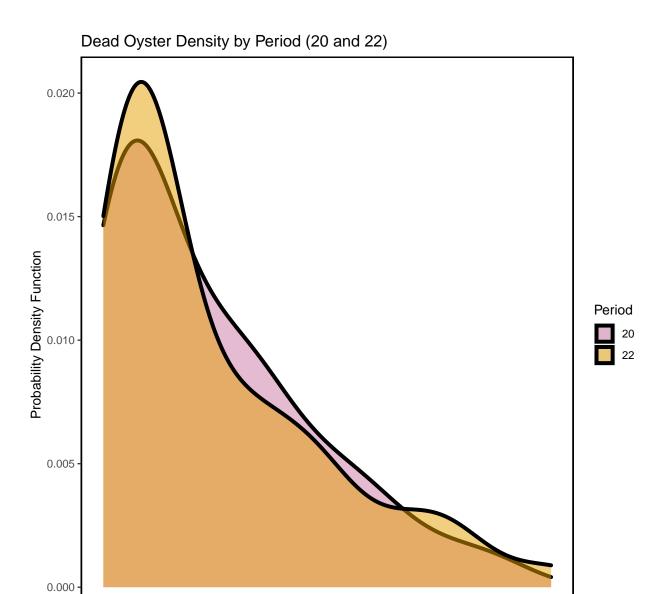


Figure- Calculated dead oyster density by periods 20 (Winter 2019-2020) and 22 (Winter 2020-2021) using a probability density function with the last sample date of period 22 as 2022-12-11.

Oyster density per m^2

Live Oyster Density by Period (22 and 24)

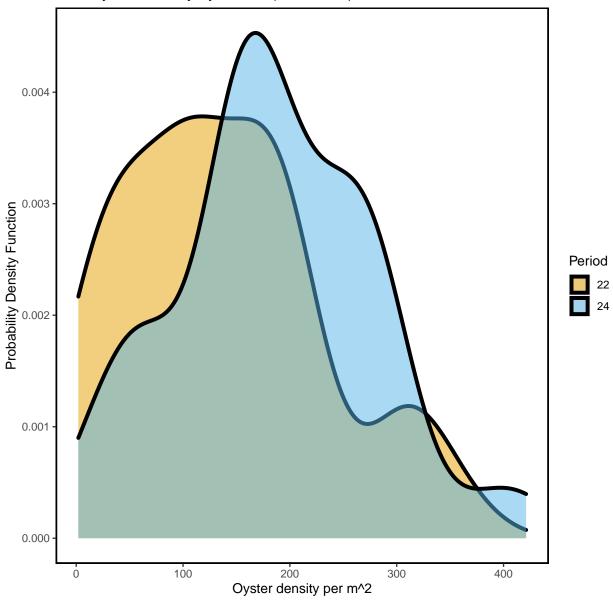


Figure- Calculated live oyster density by periods 22 (Winter 2020-2021) and 24 (Winter 2021-2022) using a probability density function with the last sample date of period 24 as 2022-12-11.

Dead Oyster Density by Period (22 and 24)

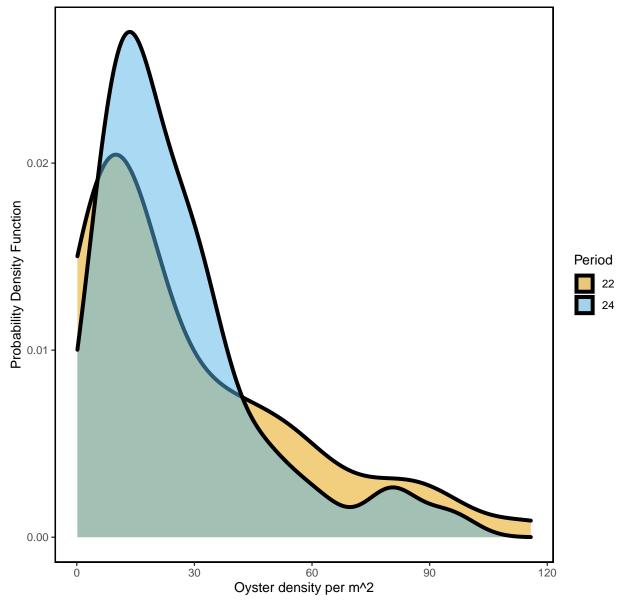


Figure- Calculated dead oyster density by periods 22 (Winter 2020-2021) and 24 (Winter 2021-2022) using a probability density function with the last sample date of period 24 as 2022-12-11.

Live Oyster Density by Period (24 and 26)

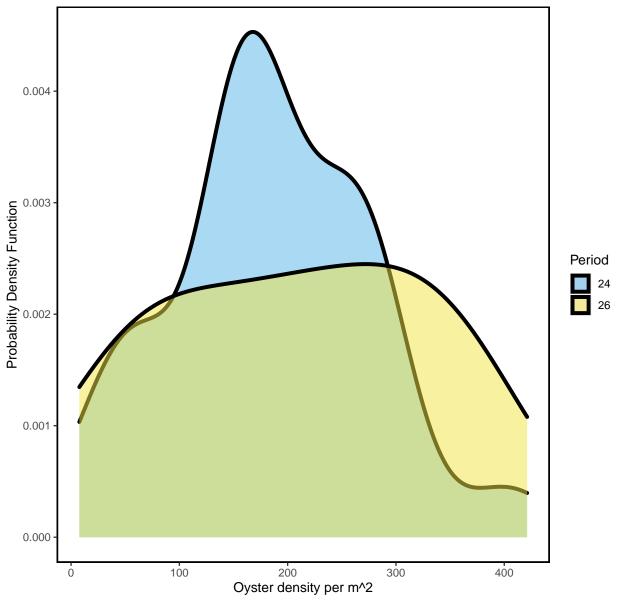


Figure- Calculated live oyster density by periods 24 (Winter 2021-2022) and 26 (Winter 2022-2023) using a probability density function with the last sample date of period 26 as 2022-12-11.

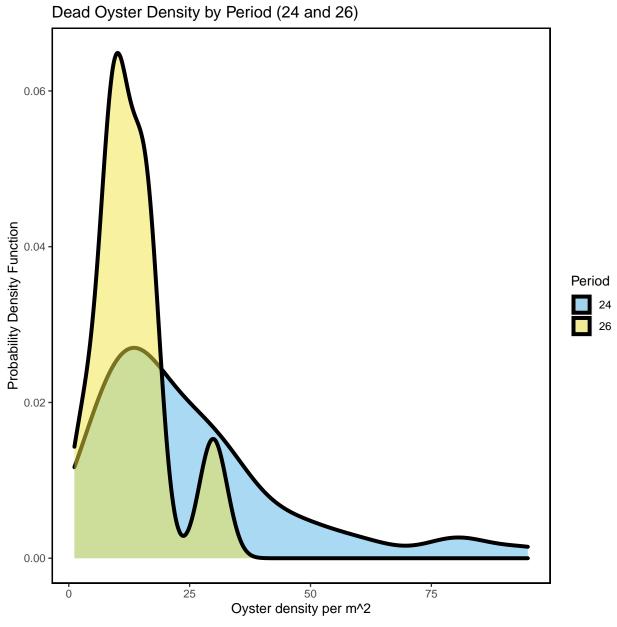


Figure- Calculated dead oyster density by periods 24 (Winter 2021-2022) and 26 (Winter 2022-2023) using a probability density function with the last sample date of period 26 as 2022-12-11.

Live and Dead Oyster Count Comparison for Periods 20, 22, 24, and 26

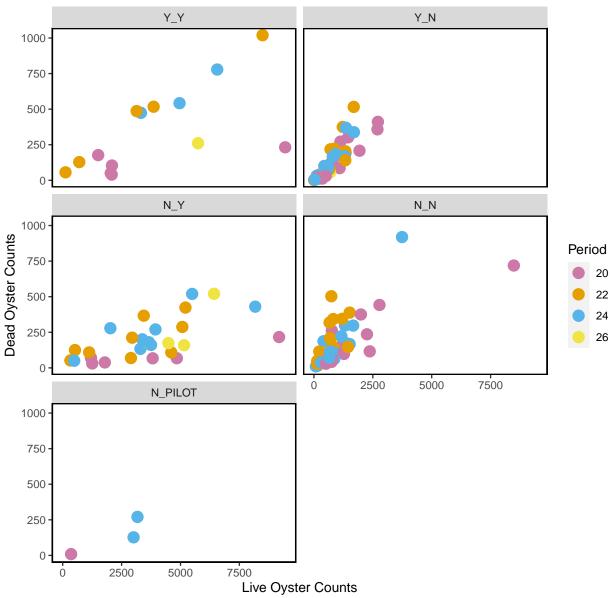


Figure- Live and dead oyster count comparison by periods 20 (Winter 2019-2020), 22 (Winter 2020-2021), 24 (Winter 2021-2022), and 26 (Winter 2022-2023) last sample date of period 26 as 2022-12-11.

Live Counts Double Pass Results

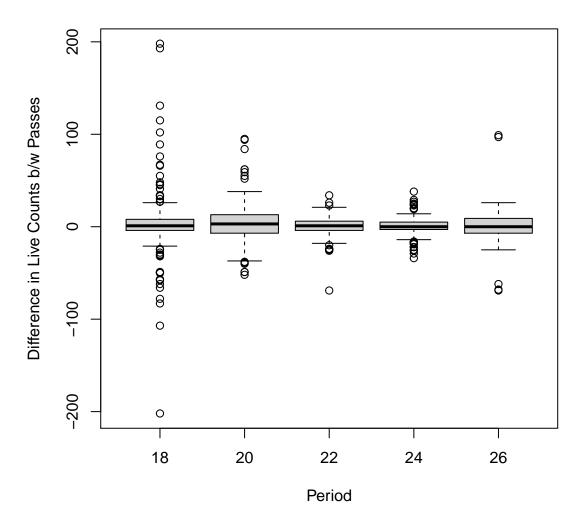
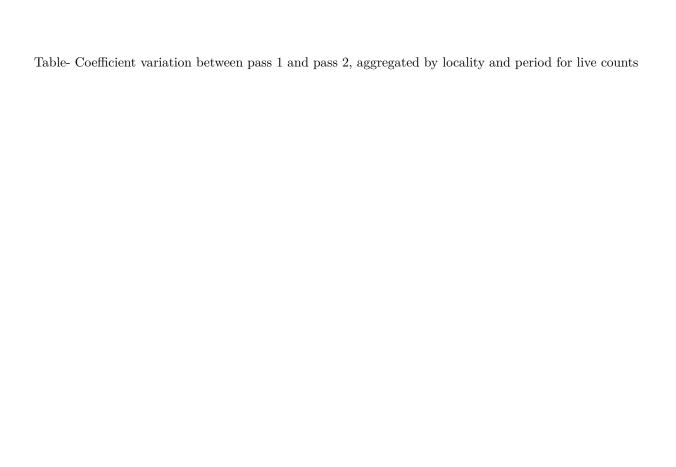


Figure- Boxplot of the difference in live counts between pass 1 and pass 2 (pass 1 live counts - pass 2 live counts) for period 18, 20, 22, 24,and 26

| locality | period | ${\tt mean_difference}$ | ${\tt sd_difference}$ | CV |
|----------|--------|--------------------------|------------------------|-------|
| BT | 18 | -5.43 | 60.0 | -11.1 |
| LC | 18 | 3.58 | 30.0 | 8.4 |
| NN | 18 | 13.17 | 15.5 | 1.2 |
| LC | 20 | 4.33 | 22.4 | 5.2 |
| LT | 20 | 2.64 | 39.2 | 14.9 |
| BT | 22 | -1.00 | 18.9 | -18.9 |
| LC | 22 | 0.14 | 9.0 | 63.6 |
| LT | 22 | 3.38 | 10.9 | 3.2 |
| BT | 24 | 9.23 | 14.0 | 1.5 |
| LC | 24 | -0.44 | 8.7 | -19.5 |
| LC | 26 | 1.07 | 26.3 | 24.5 |



Dead Counts Double Pass Results

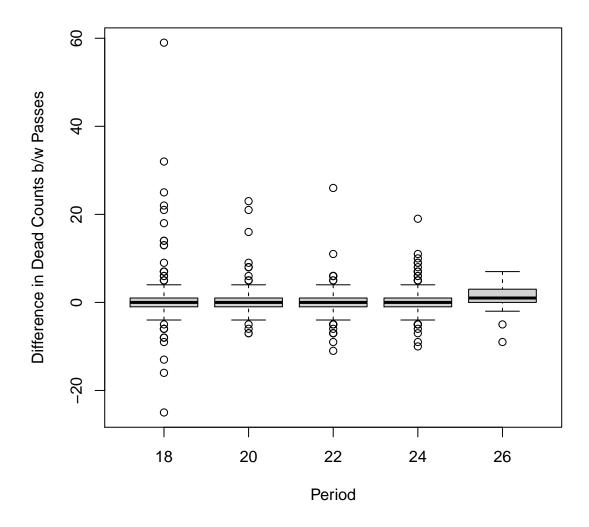


Figure- Boxplot of the difference in dead counts between pass 1 and pass 2 (pass 1 dead counts - pass 2 dead counts) for period 18, 20, 22, 24, and 26

| locality | period | CV_1 | CV_2 |
|----------|--------|------|------|
| BT | 18 | 0.78 | 0.82 |
| LC | 18 | 2.35 | 2.06 |
| NN | 18 | 0.55 | 0.73 |
| LC | 20 | 1.93 | 1.62 |
| LT | 20 | 0.76 | 0.67 |
| BT | 22 | 0.60 | 0.66 |
| LC | 22 | 1.09 | 1.07 |
| LT | 22 | 0.69 | 0.66 |
| BT | 24 | 0.54 | 0.51 |
| LC | 24 | 1.13 | 1.11 |
| LC | 26 | 0.87 | 1.30 |

Sampling for all Periods

Next, we provide summary tables and plots for all transect sampling. These data were collected between 2010-05-27 and 2022-12-11. The following are only for live oysters.

Definitions of Periods

| PERIOD | SEASON | YEAR |
|--------|--------|-----------|
| 1 | Summer | 2010 |
| 2 | Winter | 2010-2011 |
| 3 | Summer | 2011 |
| 4 | Winter | 2011-2012 |
| 5 | Summer | 2012 |
| 6 | Winter | 2012-2013 |
| 7 | Summer | 2013 |
| 8 | Winter | 2013-2014 |
| 9 | Summer | 2014 |
| 10 | Winter | 2014-2015 |
| 11 | Summer | 2015 |
| 12 | Winter | 2015-2016 |
| 13 | Summer | 2016 |
| 14 | Winter | 2016-2017 |
| 15 | Summer | 2017 |
| 16 | Winter | 2017-2018 |
| 17 | Summer | 2018 |
| 18 | Winter | 2018-2019 |
| 19 | Summer | 2019 |
| 20 | Winter | 2019-2020 |
| 21 | Summer | 2020 |
| 22 | Winter | 2020-2021 |
| 23 | Summer | 2021 |
| 24 | Winter | 2021-2022 |
| 25 | Summer | 2022 |
| 26 | Winter | 2022-2023 |

Summary of Effort for all Periods

Locality Number of Transects Total Length (m)

Effort by Locality

BT

LC

LT

NN

These effort summaries show the total number of transects and total number of meters walked per locality, strata, locality per period, and strata per period. These tables contain all data collected on the transects.

| BT | 19 | 640 |
|----------------|----------------------|---------------------|
| CK | 26 | 734 |
| CR | 46 | 1375 |
| НВ | 45 | 1129 |
| LC | 240 | 14245 |
| LT | 21 | 542 |
| NN | 14 | 357 |
| | | |
| Effort by Stra | ta | |
| | r of Transects Total | Length (m) |
| N N | 134 | 4379 |
| N_PILOT | 15 | 1050 |
| _ N_Y | 41 | 4785 |
| Y_N | 203 | 5912 |
| Y_Y | 18 | 2895 |
| - | | |
| Effort by Peri | od | |
| | of Transects Total | Length (m) |
| 1 | 42 | 1086 |
| 2 | 30 | 753 |
| 3 | 25 | 619 |
| 6 | 33 | 919 |
| 7 | 8 | 528 |
| 10 | 8 | 512 |
| 11 | 8 | 511 |
| 16 | 8 | 528 |
| 18 | 61 | 2660 |
| 19 | 35 | 944 |
| 20 | 47 | 2586 |
| 22 | 49 | 3535 |
| 24 | 48 | 3059 |
| 26 | 9 | 782 |
| 20 | J | 102 |
| Fffort by Loca | lity and Period | |
| | ty Number of Transec | ts Total Length (m) |
| | CK | 9 242 |
| | CR | 10 300 |
| | HB | 12 293 |
| | LC | 11 250 |
| | LC | |
| | LC | |
| | | |
| 16 | LC | 8 528 |

| 19 | CK | 9 | 221 |
|----|----|----|------|
| 19 | CR | 9 | 249 |
| 19 | HB | 9 | 247 |
| 19 | LC | 8 | 226 |
| 2 | CR | 9 | 283 |
| 2 | HB | 11 | 271 |
| 2 | LC | 10 | 199 |
| 20 | BT | 2 | 96 |
| 20 | LC | 34 | 2188 |
| 20 | LT | 7 | 176 |
| 20 | NN | 4 | 126 |
| 22 | BT | 5 | 132 |
| 22 | LC | 37 | 3228 |
| 22 | LT | 4 | 96 |
| 22 | NN | 3 | 78 |
| 24 | BT | 5 | 122 |
| 24 | LC | 36 | 2780 |
| 24 | LT | 4 | 87 |
| 24 | NN | 3 | 69 |
| 26 | BT | 1 | 52 |
| 26 | LC | 8 | 731 |
| 3 | CR | 9 | 269 |
| 3 | HB | 7 | 184 |
| 3 | LC | 9 | 167 |
| 6 | CK | 8 | 271 |
| 6 | CR | 9 | 272 |
| 6 | HB | 6 | 134 |
| 6 | LC | 10 | 242 |
| 7 | LC | 8 | 528 |

Effort by Strata and Period Period Strata Number of Tr

| Period | Strata | Number | of | ${\tt Transects}$ | Total | Length | (m) |
|--------|------------|--------|----|-------------------|-------|--------|-----|
| 1 | N_N | | | 8 | | | 149 |
| 1 | Y_N | | | 34 | | | 937 |
| 10 | N_N | | | 4 | | | 256 |
| 10 | N_PILOT | | | 4 | | | 256 |
| 11 | N_N | | | 4 | | | 255 |
| 11 | N_PILOT | | | 4 | | | 256 |
| 16 | N_N | | | 4 | | | 264 |
| 16 | N_PILOT | | | 4 | | | 264 |
| 18 | N_N | | | 18 | | | 571 |
| 18 | N_Y | | | 13 | | | 977 |
| 18 | Y_N | | | 26 | | | 728 |
| 18 | Y_Y | | | 4 | | | 384 |
| 19 | N_N | | | 5 | | | 93 |
| 19 | Y_N | | | 30 | | | 851 |
| 2 | N_N | | | 8 | | | 148 |
| 2 | Y_N | | | 22 | | | 605 |
| 20 | N_N | | | 18 | | | 595 |
| 20 | N_PILOT | | | 1 | | | 23 |
| 20 | N_Y | | | 6 | | | 903 |
| 20 | Y_N | | | 17 | | | 602 |
| 20 | Y_Y | | | 5 | | | 464 |
| 22 | N_N | | | 20 | | | 546 |

| 22 | N_Y | 9 | 1324 |
|----|------------|----|------|
| 22 | Y_N | 15 | 526 |
| 22 | Y_Y | 5 | 1138 |
| 24 | N_N | 19 | 521 |
| 24 | N_PILOT | 2 | 251 |
| 24 | N_Y | 9 | 1174 |
| 24 | Y_N | 15 | 412 |
| 24 | Y_Y | 3 | 700 |
| 26 | N_N | 2 | 128 |
| 26 | N_Y | 4 | 408 |
| 26 | Y_N | 2 | 38 |
| 26 | Y_Y | 1 | 209 |
| 3 | N_N | 8 | 147 |
| 3 | Y_N | 17 | 472 |
| 6 | N_N | 8 | 178 |
| 6 | Y_N | 25 | 740 |
| 7 | N N | 8 | 528 |

Effort Plot Summaries for all Periods

Total Transect Length Sampled by Locality

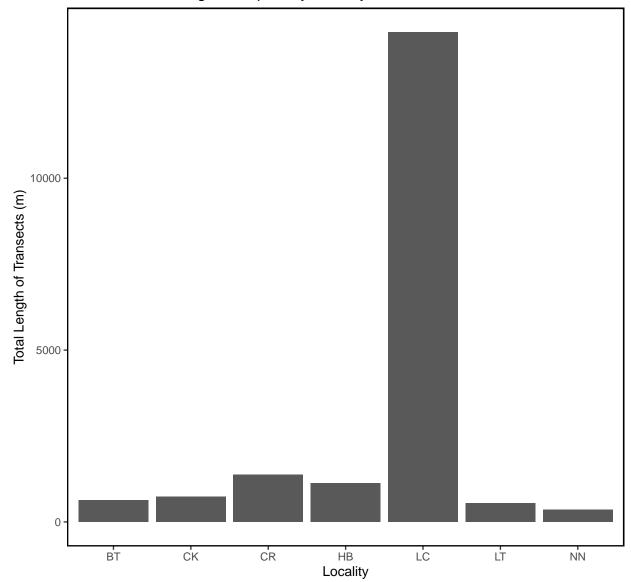


Figure – Bar plot of total transect length in meters sampled by locality for all periods.

Total Transect Length Sampled by Strata

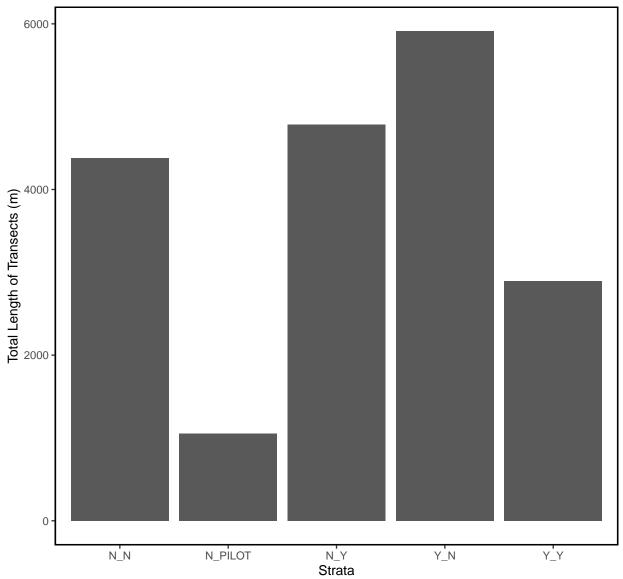


Figure – Bar plot of total transect length in meters sampled by strata for all periods.

Total Transect Length Sampled by Period

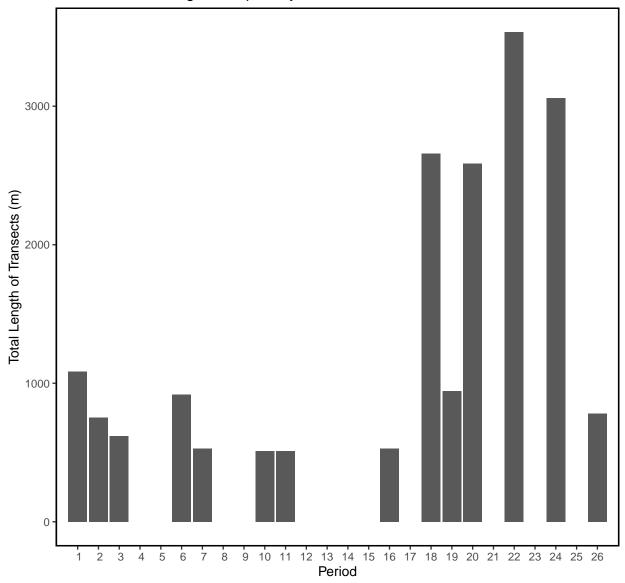


Figure – Bar plot of total transect length in meters sampled by period for all periods.

Summary Tables for all Periods

These summaries display summary statistics of live oysters by locality, strata, and period. These contain all data collected on the oyster transects.

The summary statistics include:

- Locality or Strata or Period Mean
- Median
- Standard Deviation (SD)
- Variance (Var)
- Coefficient of variation (CV)
- Standard Error (SE)
- Lower 95% Confidence Interval assuming normal distribution (L95)
- Upper 95% Confidence Interval assuming normal distribution (U95)
- Bootstrap Mean (Bstrap Mean)
- Lower 95% Confidence Interval from Bootstrap Values (L95 Bstrap)
- Upper 95% Confidence Interval from Bootstrap Values (U95 Bstrap)

Live Count Statistics for all Periods

| Live Oyste: | r Counts 1 | y Loca | ality | | | | | | | |
|-------------|------------|---------|----------|--------|-------|--------|---------|---------------|------------|------------|
| Locality 1 | Mean Media | an SI |) Va | ır (| CV S | SE L9 | 5 U95 | Bstrap_Mean | L95_Bstrap | U95_Bstrap |
| BT : | 1372 87 | 72 1908 | 363891 | 9 1.3 | 39 43 | 38 51 | .4 2230 | 1367 | 758 | 2320 |
| CK | 857 44 | 14 109 | 1 119093 | 3 1.5 | 27 21 | 14 43 | 88 1277 | 7 866 | 496 | 1348 |
| CR | 1026 71 | 16 103 | 5 107216 | 2 1.0 | 01 15 | 53 72 | 7 1325 | 1025 | 748 | 1323 |
| HB | 902 36 | 34 1047 | 7 109562 | 22 1. | 16 15 | 58 59 | 2 1211 | 907 | 598 | 1247 |
| LC : | 1318 70 | 04 1669 | 5 277093 | 34 1.5 | 26 10 | 08 110 | 6 1529 | 1315 | 1110 | 1525 |
| LT : | 1026 87 | 77 55: | 1 30372 | 21 0. | 54 12 | 20 79 | 0 1262 | 1029 | 815 | 1269 |
| NN | 735 67 | 74 584 | 4 34129 | 5 0. | 79 15 | 56 42 | 9 1041 | 738 | 475 | 1066 |
| Live Oyste | r Counts l | ov Stra | ata | | | | | | | |
| • | ean Mediar | • | Var | . C | V SI | E L95 | U95 | Bstrap_Mean | L95 Bstrap | U95 Bstrap |
| | | | 1025017 | | | | 1161 | 986 | 835 | 1187 |
| N_PILOT 1 | | 925 | 856059 | | | | 1787 | 1322 | 902 | 1819 |
| - N_Y 29 | | | 4892643 | | | | 3589 | 2917 | 2231 | 3614 |
| Y_N . | 763 438 | 890 | 791857 | 1.1 | 7 63 | 3 640 | 887 | 760 | 642 | 892 |
| Y_Y 3: | 106 2086 | 2876 | 8268636 | 0.93 | 3 678 | 3 1778 | 4435 | 3100 | 1896 | 4488 |
| | | | | | | | | | | |
| Live Oyste | | • | | | | | | | | |
| Period Mea | | SD | Var | CV | | | | Bstrap_Mean L | | |
| 1 140 | | | 1657932 | | | | | 1408 | 1045 | 1784 |
| 2 89 | | 945 | 893727 | | | | 1234 | 883 | 523 | 1249 |
| | 38 296 | 817 | 668064 | | | | 1065 | 738 | 442 | 1082 |
| | 33 176 | 534 | 284791 | 1.23 | 96 | 245 | 621 | 430 | 249 | 622 |
| 7 ! | 50 29 | 56 | 3186 | 1.12 | 20 | 11 | 90 | 51 | 17 | 88 |
| 10 120 | 07 1074 | 671 | 449607 | 0.56 | 237 | 743 | 1672 | 1211 | 816 | 1687 |
| 11 88 | 36 776 | 678 | 459708 | 0.77 | 240 | 416 | 1356 | 896 | 513 | 1338 |
| 16 49 | 94 366 | 467 | 217855 | 0.95 | 165 | 170 | 817 | 495 | 215 | 815 |
| 18 98 | 82 695 | 935 | 874733 | 0.95 | 120 | 748 | 1217 | 975 | 769 | 1212 |
| 19 5 | 55 329 | 573 | 328431 | 1.03 | 97 | 365 | 745 | 557 | 382 | 764 |
| 20 18 | 1253 | 2125 4 | 4517189 | 1.15 | 310 | 1236 | 2451 | 1841 | 1284 | 2474 |
| 22 13 | 34 702 | 1693 | 2867783 | 1.27 | 242 | 860 | 1808 | 1336 | 906 | 1829 |
| 24 17: | 29 942 | 1845 | 3403035 | 1.07 | 266 | 1207 | 2251 | 1719 | 1263 | 2253 |
| 26 31 | 3690 | 2496 6 | 5230888 | 0.80 | 832 | 1476 | 4738 | 3082 | 1571 | 4562 |

Live Density Statistics for all Periods

| Live Dens: | ity by | / Local | ity | | | | | | | | | | | |
|------------|--------|---------|-------|---------|------|------|-------|-------|-----------|--------|---------|--------|--------|------|
| Locality | Mean | Median | SD | Var | C. | V | SE L9 | 5 U95 | Bstrap_l | Mean I | _95_Bst | rap U | 95_Bst | rap |
| BT | 238 | 218 | 168 | 28363 | 0.7 | 1 38 | .6 16 | 2 313 | | 238 | | 170 | | 317 |
| CK | 241 | 112 | 321 | 102927 | 1.3 | 3 62 | .9 11 | 8 364 | | 240 | | 128 | | 380 |
| CR | 283 | 178 | 294 | 86605 | 1.0 | 4 43 | .4 19 | 8 368 | | 283 | | 201 | | 369 |
| HB | 257 | 101 | 303 | 92052 | 1.1 | 3 45 | .7 16 | 8 347 | | 258 | | 178 | | 350 |
| LC | 157 | 132 | 141 | 19748 | 0.9 | 9 | .1 13 | 9 174 | | 156 | | 140 | | 175 |
| LT | 279 | 261 | 132 | 17460 | 0.4 | 7 28 | .8 22 | 2 335 | | 279 | | 226 | | 338 |
| NN | 215 | 174 | 202 | 40919 | 0.9 | 4 54 | .1 10 | 9 321 | | 214 | | 130 | | 318 |
| | | | | | | | | | | | | | | |
| Live Dens: | ity by | y Strat | a | | | | | | | | | | | |
| Strata 1 | Mean N | ledian | SD | Var | CV | SE L | 95 U9 | 5 Bst | rap_Mean | L95_E | Sstrap | U95_B | strap | |
| N_N | 253 | | | 56963 0 | | | | | 252 | | 212 | | 293 | |
| N_PILOT | 118 | 121 | 59 | 3467 0 | .50 | 15 | 38 14 | 8 | 118 | | 89 | | 149 | |
| N_Y | 169 | 159 | 97 | 9362 0 | .57 | 15 1 | 39 19 | 8 | 168 | | 141 | | 197 | |
| Y_N | 183 | 117 | 211 4 | 44489 1 | . 15 | 15 1 | 54 21 | 2 | 183 | | 154 | | 213 | |
| Y_{Y} | 121 | 118 | 82 | 6711 0 | .68 | 19 | 34 15 | 9 | 121 | | 86 | | 159 | |
| _ | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Live Dens: | ity by | , Perio | d | | | | | | | | | | | |
| Period Me | ean Me | edian | SD | Var | C | V SE | L9 | 5 U: | 95 Bstraj | o_Mear | 1 L95_E | Sstrap | U95_B | stra |
| 1 : | 393 3 | 300.8 3 | 62.6 | | | | | | .1 | 391.8 | | 284.1 | | 508 |
| 2 | 255 : | 119.0 2 | 85.2 | 81348 | 1.1 | 2 53 | 151. | 3 358 | .9 | 255.5 | 5 | 160.4 | i | 366 |

| Live Der | nsity | by Per | ıoa | | | | | | | | |
|----------|-------|----------------|-------|--------|------|----|-------|-------|----------------------|------------|------------|
| Period | Mean | ${\tt Median}$ | SD | Var | CV | SE | L95 | U95 | ${\tt Bstrap_Mean}$ | L95_Bstrap | U95_Bstrap |
| 1 | 393 | 300.8 | 362.6 | 131444 | 0.92 | 56 | 283.8 | 503.1 | 391.8 | 284.1 | 508 |
| 2 | 255 | 119.0 | 285.2 | 81348 | 1.12 | 53 | 151.3 | 358.9 | 255.5 | 160.4 | 366 |
| 3 | 234 | 85.3 | 269.3 | 72523 | 1.15 | 55 | 126.1 | 341.6 | 233.6 | 135.3 | 341 |
| 6 | 121 | 72.2 | 150.9 | 22767 | 1.25 | 27 | 68.1 | 174.3 | 121.2 | 70.6 | 181 |
| 7 | 5 | 2.9 | 5.6 | 31 | 1.12 | 2 | 1.1 | 8.9 | 5.1 | 1.7 | 9 |
| 10 | 124 | 113.3 | 67.4 | 4536 | 0.54 | 24 | 76.9 | 170.3 | 124.1 | 86.2 | 169 |
| 11 | 90 | 79.5 | 67.8 | 4596 | 0.75 | 24 | 43.4 | 137.4 | 89.2 | 49.1 | 135 |
| 16 | 49 | 36.3 | 46.4 | 2154 | 0.95 | 16 | 16.9 | 81.2 | 49.4 | 24.0 | 84 |
| 18 | 176 | 154.5 | 130.2 | 16945 | 0.74 | 17 | 143.7 | 209.0 | 176.9 | 146.5 | 211 |
| 19 | 154 | 72.7 | 168.5 | 28408 | 1.10 | 28 | 97.9 | 209.6 | 154.1 | 101.4 | 208 |
| 20 | 256 | 202.8 | 187.2 | 35057 | 0.73 | 27 | 202.6 | 309.6 | 255.1 | 204.8 | 312 |
| 22 | 137 | 120.6 | 92.9 | 8638 | 0.68 | 13 | 111.2 | 163.3 | 136.9 | 112.7 | 163 |
| 24 | 185 | 180.6 | 91.6 | 8385 | 0.49 | 13 | 159.3 | 211.1 | 185.2 | 160.2 | 210 |
| 26 | 207 | 198.0 | 123.8 | 15322 | 0.60 | 41 | 125.9 | 287.6 | 207.2 | 129.5 | 281 |
| | | | | | | | | | | | |

Dead Count Statistics for all Periods

| Dead Oyst | er Cou | ints by | Loca | ality | | | | | | | |
|-----------|--------|---------|-------|--------|-------|------|-----------|------|---------------|---------------------|------------|
| Locality | Mean | Median | SD. | Vai | - C | V SE | L95 | U95 | Bstrap_Mean | L95_Bstrap | U95_Bstrap |
| ВТ | 249 | 160 | 278 | 77231 | 1.1 | 2 64 | 123.6 | 374 | 250 | 142 | 380 |
| CK | 78 | 32 | 106 | 11170 | 1.3 | 6 37 | 4.3 | 151 | 80 | 18 | 149 |
| CR | 60 | 47 | 38 | 1444 | 0.6 | 3 13 | 35.2 | 85 | 60 | 40 | 84 |
| HB | 44 | 21 | 45 | 2000 | 1.0 | 2 15 | 14.8 | 73 | 44 | 18 | 73 |
| LC | 134 | 76 | 159 | 25236 | 3 1.1 | 9 11 | 112.0 | 156 | 134 | 112 | 157 |
| LT | 218 | 141 | 180 | 32543 | 0.8 | 3 39 | 140.5 | 295 | 218 | 151 | 294 |
| NN | 98 | 72 | 87 | 7493 | 0.8 | 8 23 | 52.5 | 143 | 99 | 61 | 146 |
| Dead Oyst | or Co | ınta bu | . C+~ | n+n | | | | | | | |
| Strata | | | | | CV | GE. | 1 0 5 110 | F Ra | trap_Mean L95 | 5 Retran IIO | 5 Retran |
| N N | 157 | | | | | | 120 19 | | 156 | о_выстар оэк 122 | 193 |
| N PILOT | 98 | | | | | | 65 13 | | 98 | 70 | 134 |
| N_FILOI | 145 | | | | | | 102 18 | | 145 | 105 | 189 |
| Y_N | 103 | | | | | | 81 12 | | 103 | 82 | 125 |
| Y Y | | | | | | | 136 41 | | 273 | 148 | 401 |
| 1_1 | 214 | 102 | 290 (| 30700 | 1.09 | 70 | 130 41 | 1 | 213 | 140 | 401 |
| Dead Oyst | er Cou | ınts by | Per | iod | | | | | | | |
| Period M | ean Me | edian | SD | Var | CV | SE | L95 | U95 | Bstrap_Mean | L95_Bstrap | U95_Bstrap |
| 7 | 29 | 18 | 30 | 898 1 | .03 | 10.6 | 8.2 | 50 | 29 | 11 | 49 |
| 10 | 80 | 88 | 65 | 4245 (| .82 | 23.0 | 34.5 | 125 | 79 | 39 | 124 |
| 11 | 50 | 40 | 25 | 620 (| .49 | 8.8 | 33.2 | 68 | 51 | 35 | 68 |
| 16 | 44 | 28 | 41 | 1708 (| .93 | 14.6 | 15.6 | 73 | 45 | 18 | 71 |
| 18 | 133 | 55 1 | 92 3 | 6903 1 | .44 | 24.6 | 85.1 | 182 | 134 | 90 | 187 |
| 19 | 63 | 44 | 67 | 4548 1 | .08 | 11.6 | 40.0 | 85 | 63 | 42 | 85 |
| 20 | 148 | 107 1 | 40 19 | 9727 (| .95 | 20.5 | 107.6 | 188 | 148 | 109 | 190 |
| 22 | 191 | 128 1 | .93 3 | 7399 1 | .01 | 27.6 | 137.2 | 245 | 192 | 147 | 244 |
| 24 | 192 | 130 1 | .94 3 | 7816 1 | .01 | 28.1 | 136.8 | 247 | 193 | 143 | 247 |
| 26 | 178 | 171 1 | 49 2 | 2311 (| .84 | 49.8 | 80.8 | 276 | 179 | 95 | 275 |

Dead Density Statistics for all Periods

| Dead Oyster Density by Locality | | | | | | | | | | | | |
|---------------------------------|---|---------|-------|------|--------|-----|------|------|-------------|--------------|-----------------|--|
| Localit | y Mean | Media | n SD | Var | CV | SE | L95 | U95 | Bstrap_Mean | L95_Bstrap | U95_Bstrap | |
| В | BT 46 | 34 | 4 33 | 1076 | 0.72 | 7.5 | 30.9 | 60 | 45 | 32.7 | 60 | |
| C | K 21 | 1 | 1 28 | 757 | 1.29 | 9.7 | 2.3 | 40 | 21 | 5.4 | 41 | |
| C | R 18 | 1 | 1 16 | 247 | 0.87 | 5.2 | 7.8 | 28 | 18 | 9.4 | 28 | |
| H | IB 13 | ; | 8 14 | 201 | 1.12 | 4.7 | 3.4 | 22 | 13 | 5.1 | 21 | |
| L | .C 18 | 10 | 0 20 | 413 | 1.14 | 1.4 | 15.1 | 21 | 18 | 15.4 | 21 | |
| L | T 54 | 4 | 7 35 | 1232 | 0.64 | 7.7 | 39.5 | 70 | 54 | 40.8 | 70 | |
| N | IN 28 | 2 | 1 22 | 463 | 0.78 | 5.7 | 16.4 | 39 | 27 | 17.2 | 38 | |
| D 10 | . 5 | | | | | | | | | | | |
| | Dead Oyster Density by Strata Strata Mean Median SD Var CV SE L95 U95 Bstrap_Mean L95_Bstrap U95_Bstrap | | | | | | | | | | | |
| | | | | Var | | | | | | | | |
| _ | 33.1 | | | | 0.92 | | | 39 | | | 39 | |
| N_PILOT | | | | | | | | 11 | | | 11 | |
| _ | 8.4 | | | | | | 6.4 | | | | | |
| _ | 1 23.0 | | | | | | | | | | 28 | |
| Y_Y | 9.8 | 9.4 | 6.6 | 3 44 | 0.68 | 1.6 | 6.7 | 13 | 9.8 | 6.8 | 13 | |
| | | | | | | | | | | | | |
| Dead Oys | ster De | nsitv 1 | by Pe | riod | | | | | | | | |
| Period | | | SD | Vai | c CV | , , | SE : | L95 | II95 Estran | Mean I.95 Bs | trap U95_Bstrap | |
| | 2.9 | | | | 1.03 | | | | 4.9 | 2.9 | 1.1 5.0 | |
| | 8.2 | | | | 0.83 | | | | | 8.1 | 3.9 12.3 | |
| 11 | 5.2 | 4.1 | 2.6 | | 0.49 | | | .41 | 7.0 | 5.2 | 3.7 6.9 | |
| 16 | 4.4 | 2.8 | 4.1 | | 0.93 | | | | 7.2 | 4.4 | 1.8 7.2 | |
| | 26.4 | 15.7 | 31.3 | | | | | | | | 19.3 34.9 | |
| | 17.5 | 10.5 | | | | | | | | | 11.3 24.1 | |
| | 27.7 | 18.4 | | | | | | | | | 20.5 35.6 | |
| | 28.5 | 14.2 | | | | | | | | | 20.7 36.6 | |
| | 25.7 | 19.1 | | | | | | | | | 19.9 32.1 | |
| | 13.1 | | | | 0.58 | | | | | 13.2 | 9.2 18.3 | |
| 20 | 10.1 | 10.0 | , | 00.1 | . 0.00 | | | . 10 | | 10.2 | 10.0 | |

Summary Density Plots for all Periods

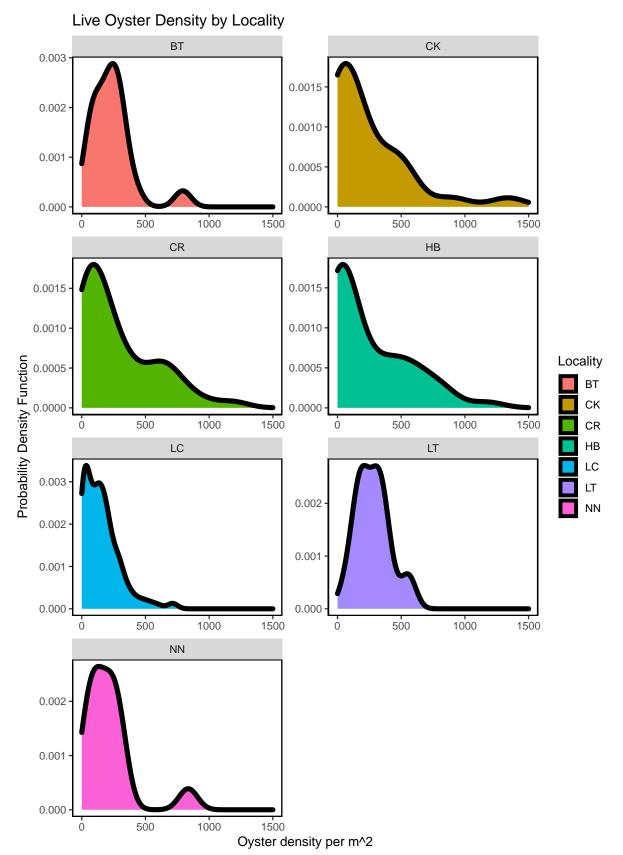


Figure – Calculated live oyster density by locality for all periods including period 22 (current period).

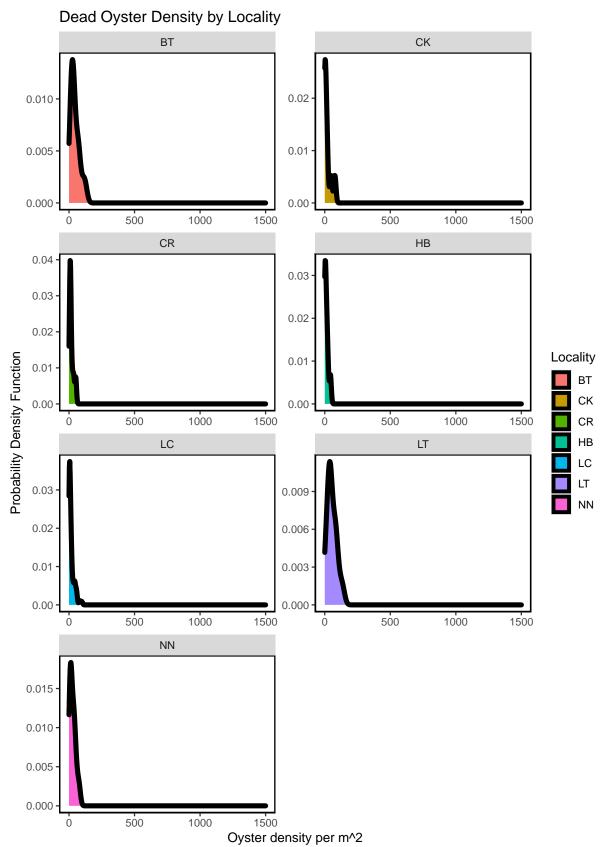


Figure – Calculated dead oyster density by locality for all periods including period 22 (current period).

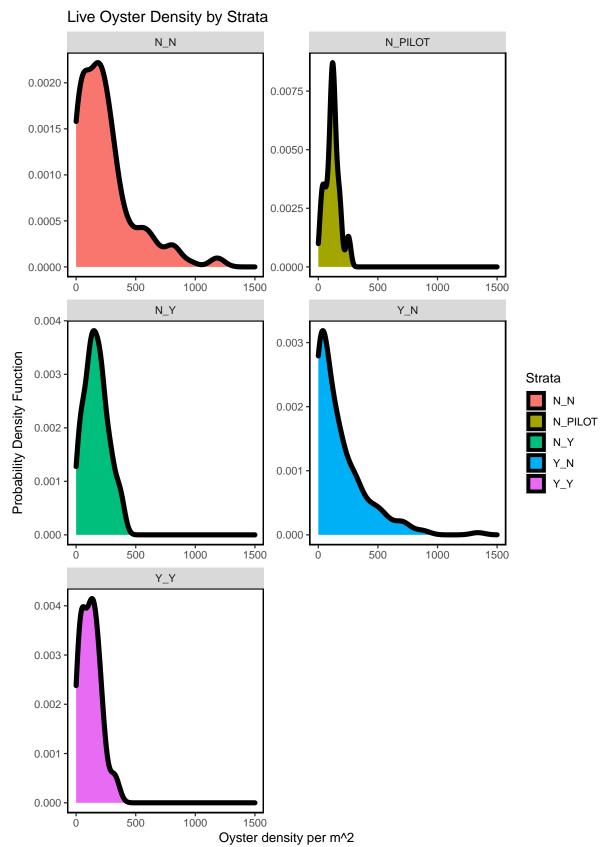


Figure – Calculated live oyster density by strata for all periods including period 22 (current period).

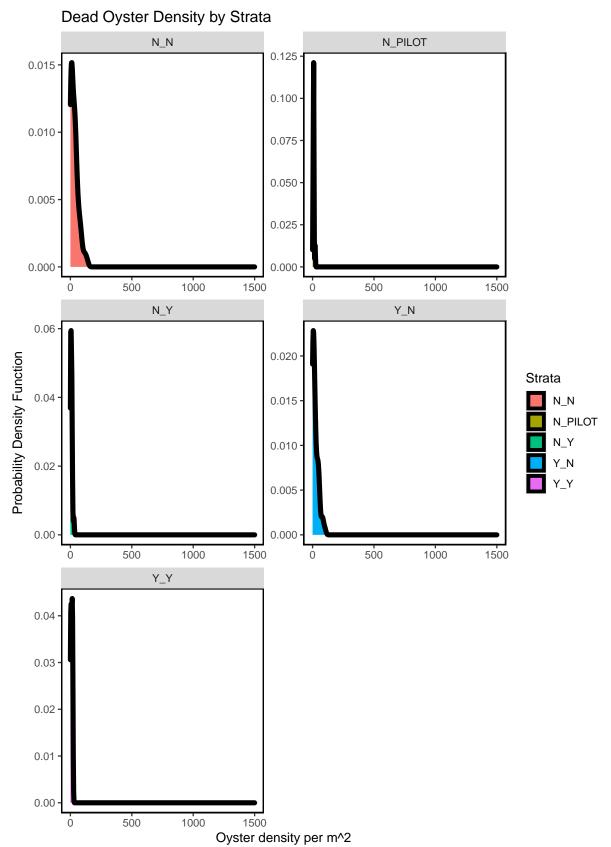


Figure – Calculated dead oyster density by strata for all periods including period 22 (current period).

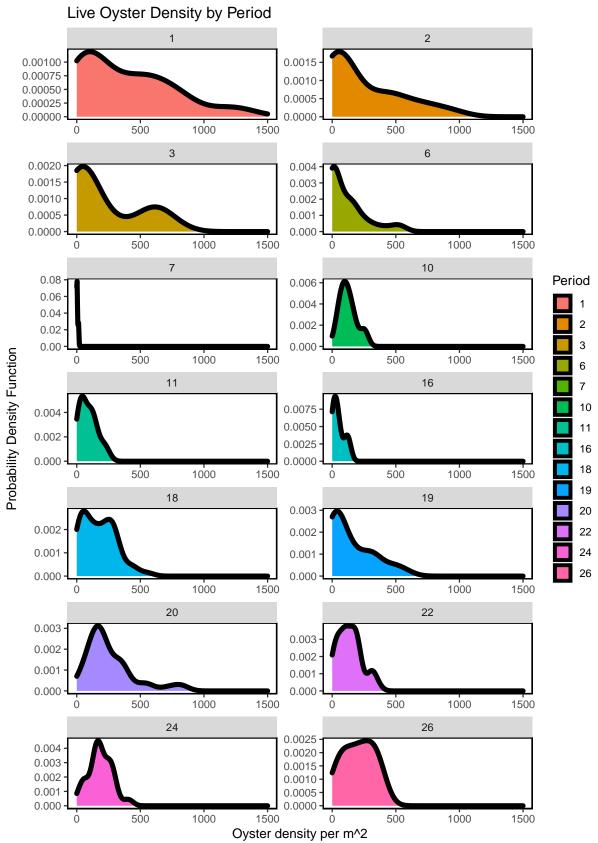


Figure – Calculated live oyster density for all periods including period 24 (current period) using a probability densit

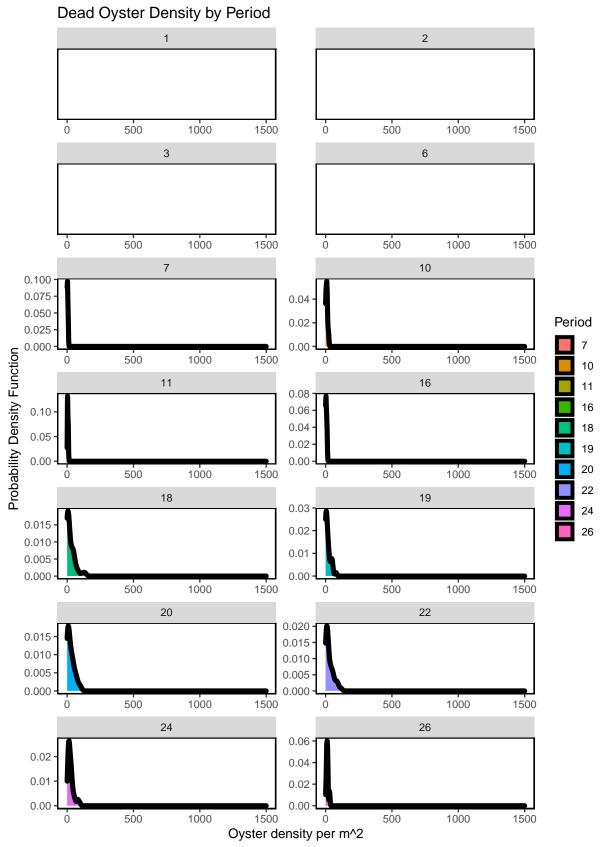


Figure – Calculated Dead oyster density for all periods including period 22 (current period) using a probability densit

Live Oyster Density by Locality

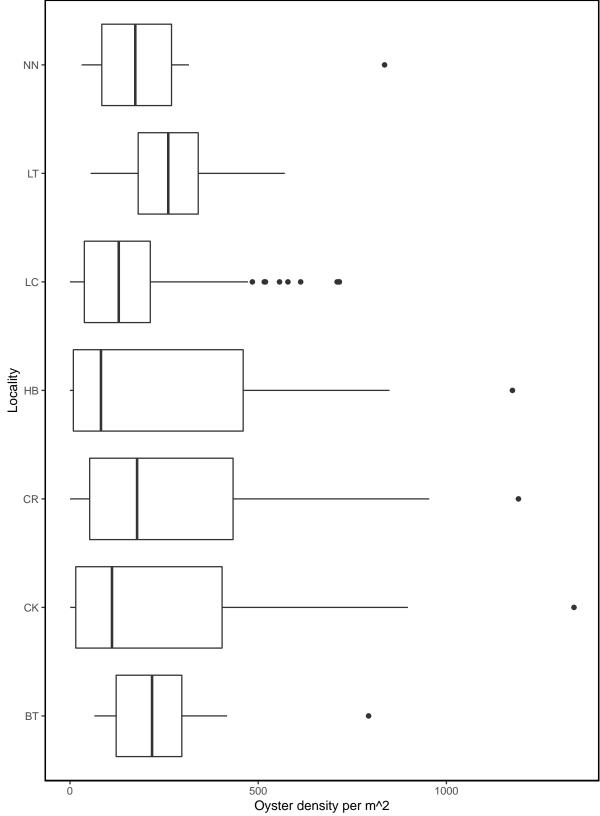


Figure – Box plot depicting live oyster density by locality for all periods including period 22 (current period).

Dead Oyster Density by Locality NN LT LC CR CK ВТ 50 100 Oyster density per m^2

Figure – Box plot depicting dead oyster density by locality for all periods including period 22 (current period).

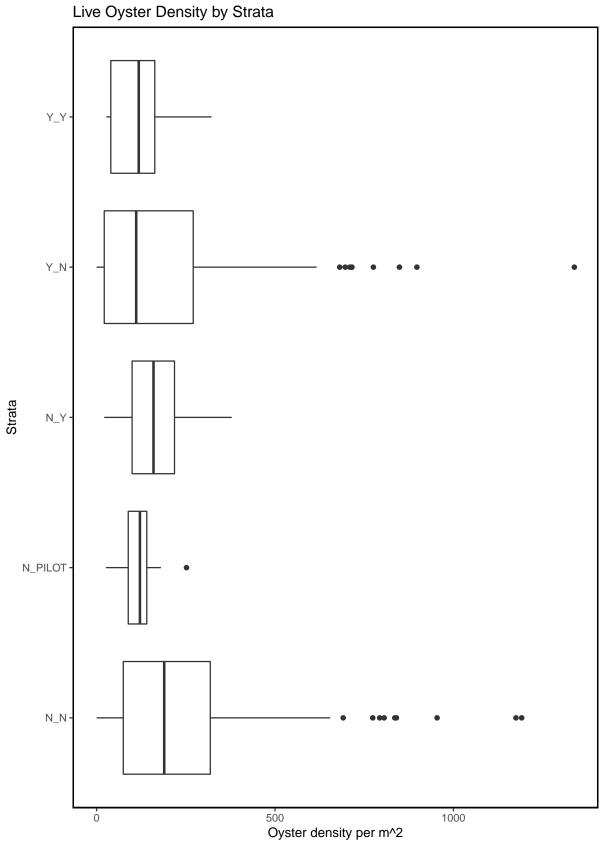


Figure – Box plot depicting live oyster density by strata for all periods including period 22 (current period).

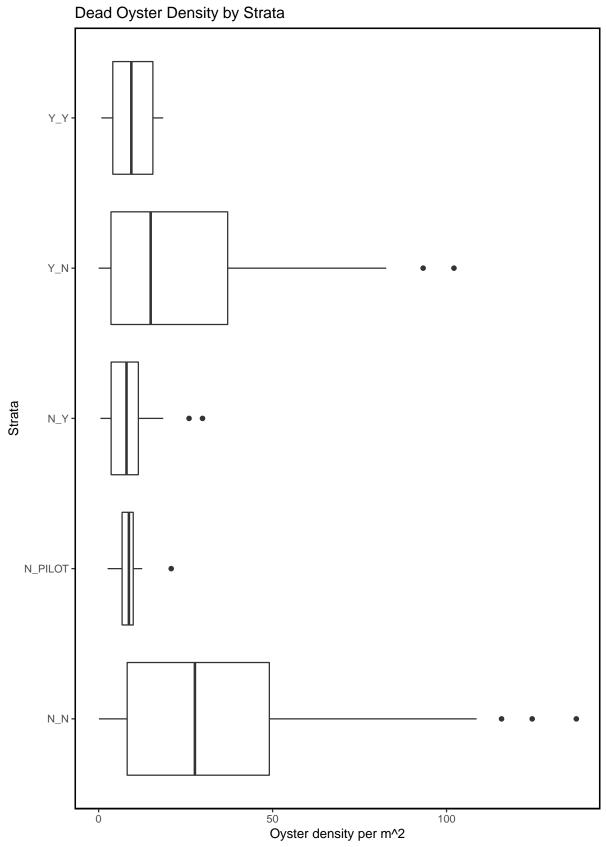


Figure – Box plot depicting dead oyster density by strata for all periods including period 22 (current period).

Live Oyster Density by Period

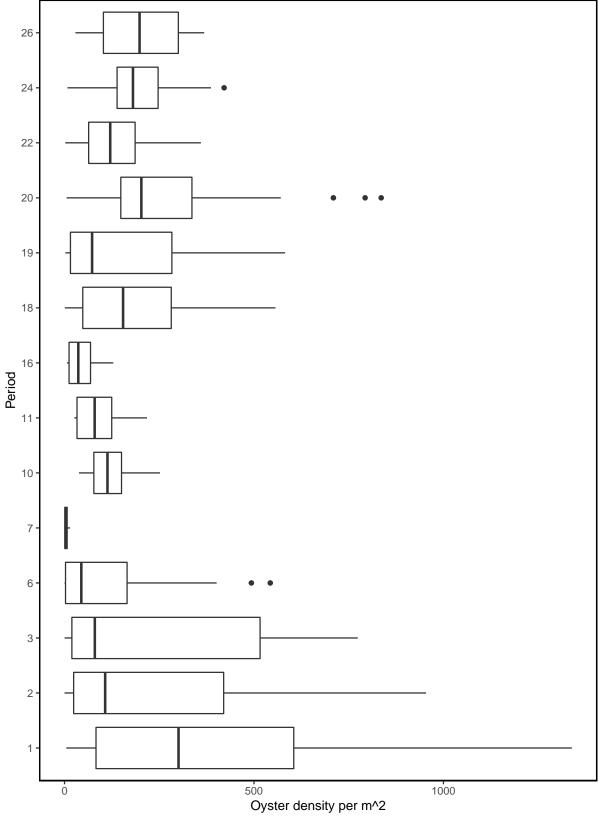


Figure – Box plot depicting live oyster density by period for all periods including period 22 (current period).

Dead Oyster Density by Period Period Oyster density per m^2

Figure – Box plot depicting dead oyster density by period for all periods including period 22 (current period).

Live Oyster Density by Locality and Period

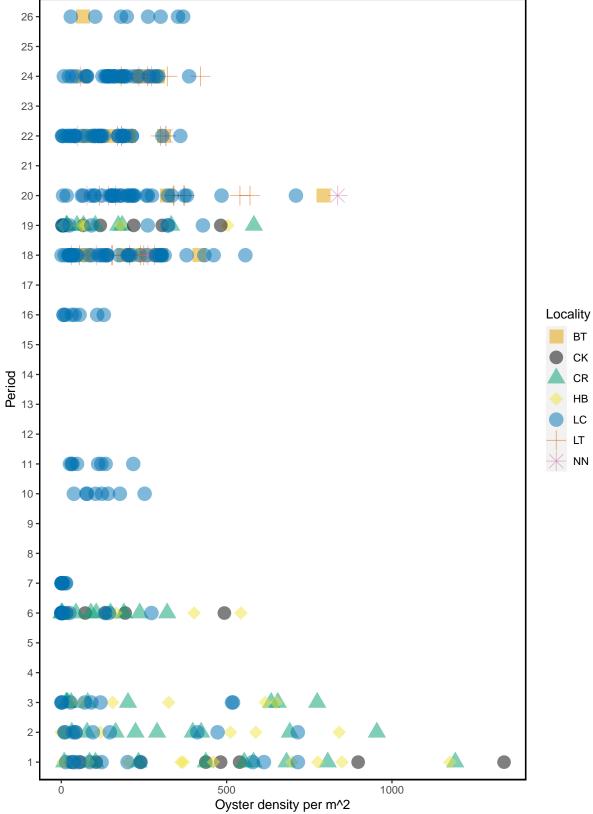


Figure – Live oyster density by locality and period for all periods including period 22 (current period).

Dead Oyster Density by Locality and Period

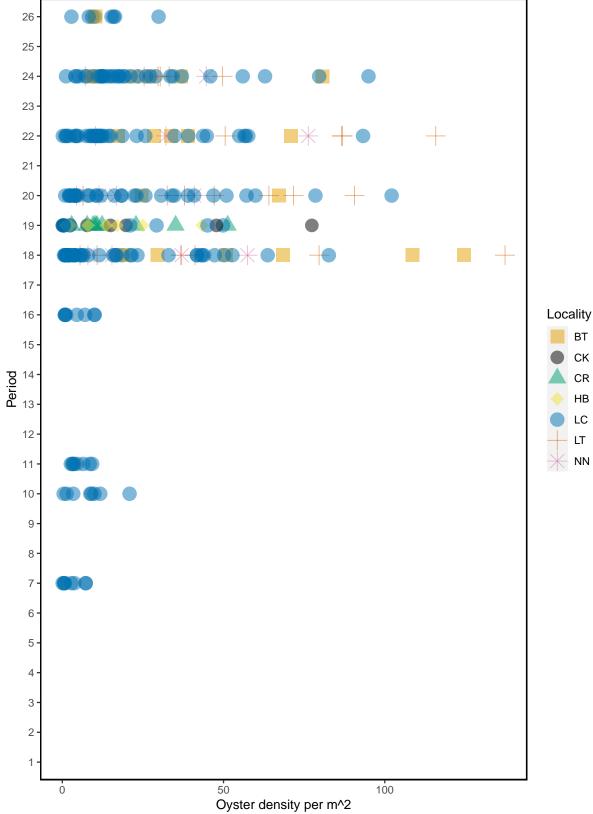


Figure – Dead oyster density by locality and period for all periods including period 22 (current period).

Live Oyster Density by Strata and Period

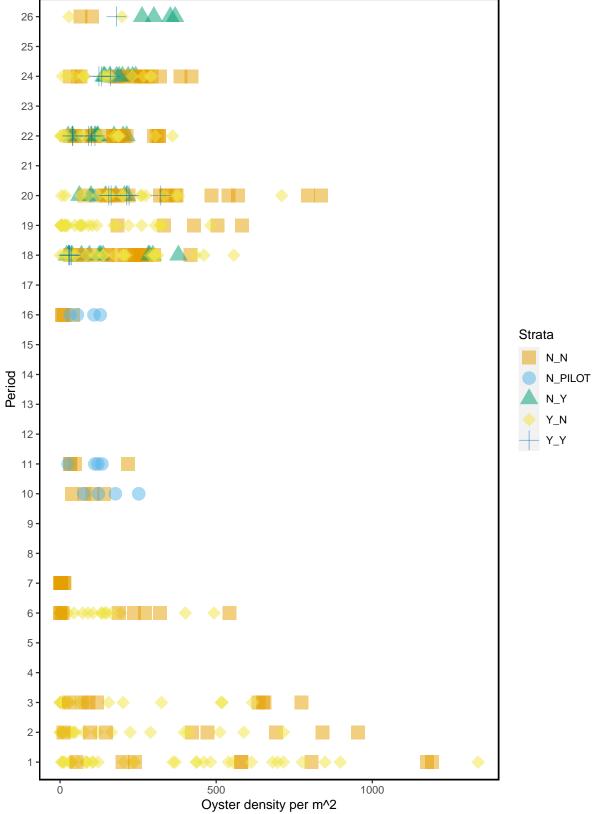


Figure – Live oyster density by strata and period for all periods including period 22 (current period).

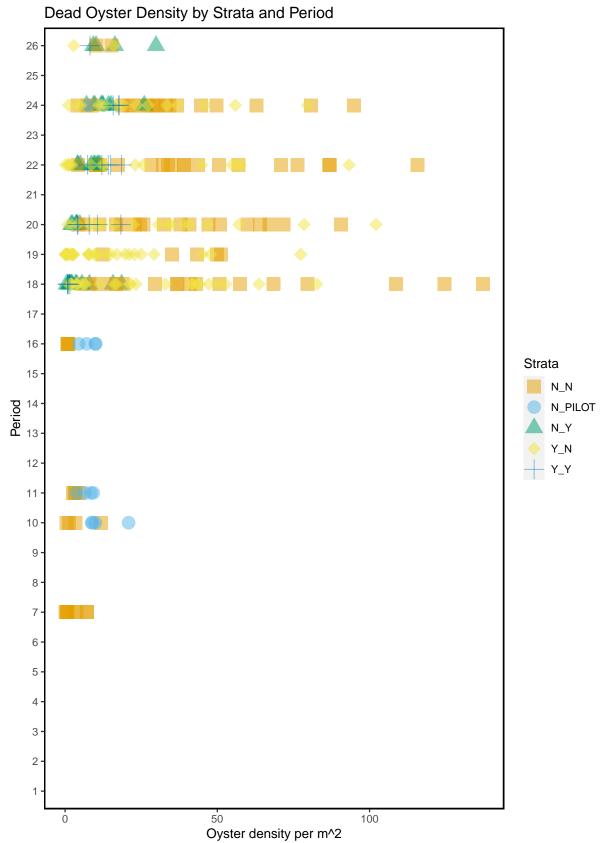


Figure – Dead oyster density by strata and period for all periods including period 22 (current period).

Live and Dead Count Comparison For All Periods

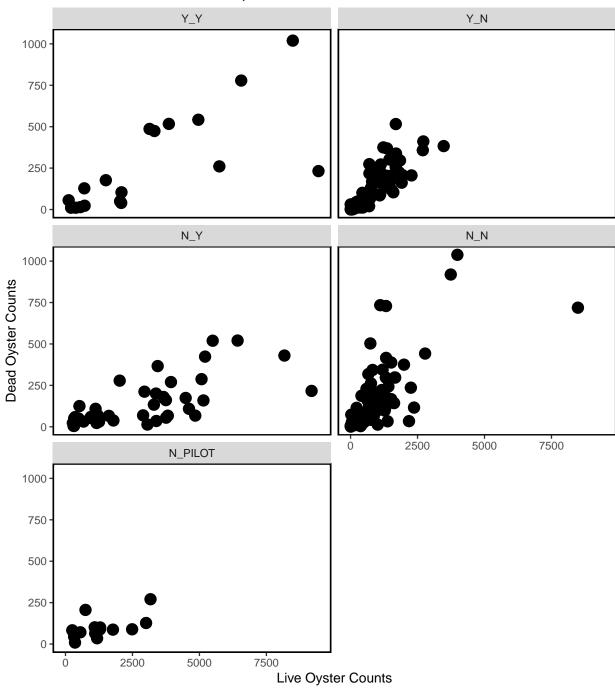


Figure- Live and dead oyster comparison for all periods, last sample date of period 26 is 2022-12-11.

Summary Plots for Pilot Study Sites

A subset of the oyster transect locations were sampled over time for a pilot study. Here we provide plots of live oyster counts and density for these pilot stations with Lone Cabbage (LCO10B, LCO11A, LCO8B, LCO9A).

Average Density by Station and Period

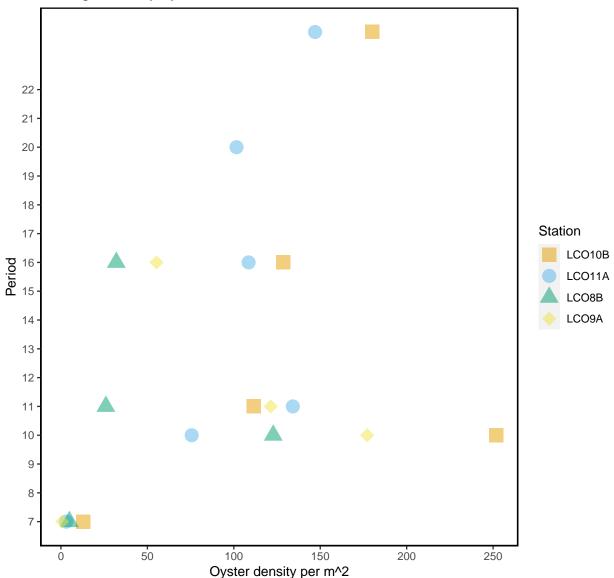


Figure - Average live oyster density comparison by station and period for all stations that were sampled during the pilc

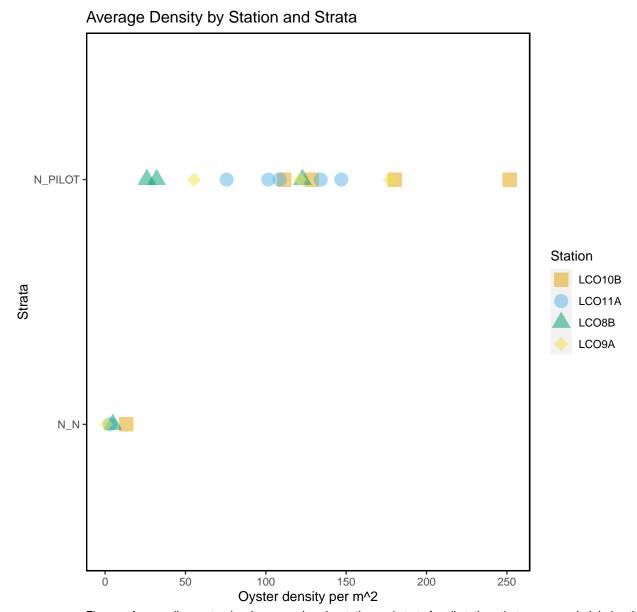


Figure – Average live oyster density comparison by station and strata for all stations that were sampled during the

Latest Data Entered

Displayed are the entries for the last date of sampling (2022-12-11).

| date | station | tran_length | count live | count dead | treatment | strata |
|-----------------------|---------|-------------|------------|------------|-----------|------------|
| 2022-12-11 | LC013 | 2.5 | - 8 | - 2 | rocks | Y_Y |
| 2022-12-11 | LC013 | 5.0 | 8 | 0 | rocks | Y_Y |
| 2022-12-11 | LC013 | 7.5 | 16 | 2 | rocks | YY |
| 2022-12-11 | LC013 | 10.0 | 47 | 0 | rocks | Y_Y |
| 2022-12-11 | LC013 | 12.5 | 15 | 2 | rocks | Y_Y |
| 2022-12-11 | LC013 | 15.0 | 50 | 0 | rocks | Y_Y |
| 2022-12-11 | LC013 | 17.5 | 83 | 4 | rocks | Y_Y |
| 2022-12-11 | LC013 | 20.0 | 99 | 2 | rocks | Y_Y |
| 2022-12-11 | LC013 | 22.0 | 49 | 3 | rocks | Y_Y |
| 2022-12-11 | LC013 | 22.3 | 12 | 1 | rocks | Y_Y |
| 2022-12-11 | LC013 | 2.5 | 46 | 0 | rocks | Y_Y |
| 2022-12-11 | LC013 | 5.0 | 5 | 1 | rocks | Y_Y |
| 2022-12-11 | LC013 | 7.5 | 21 | 4 | rocks | Y_Y |
| 2022-12-11 | LC013 | 10.0 | 13 | 0 | rocks | Y_Y |
| 2022-12-11 | LC013 | 12.5 | 77 | 4 | rocks | Y_Y |
| 2022-12-11 | LC013 | 15.0 | 112 | 10 | rocks | YY |
| 2022-12-11 | LC013 | 17.5 | 85 | 4 | rocks | YY |
| 2022-12-11 | LC013 | 20.0 | 64 | 3 | rocks | Y_Y |
| 2022-12-11 | LC013 | 22.0 | 12 | 0 | rocks | Y_Y |
| 2022-12-11 | LC013 | 23.4 | 19 | 1 | rocks | Y_Y |
| 2022-12-11 | LC013 | 2.5 | 30 | 7 | rocks | Y_Y |
| 2022-12-11 | LC013 | 5.0 | 31 | 2 | rocks | Y_Y |
| 2022-12-11 | LC013 | 7.5 | 44 | 5 | rocks | Y_Y |
| 2022-12-11 | LC013 | 10.0 | 69 | 6 | rocks | Y_Y |
| 2022-12-11 | LC013 | 12.5 | 63 | 2 | rocks | Y_Y |
| 2022-12-11 | LC013 | 15.0 | 74 | 9 | rocks | Y_Y |
| 2022-12-11 | LC013 | 17.5 | 62 | 1 | rocks | Y_Y |
| 2022-12-11 | LC013 | 20.0 | 41 | 3 | rocks | Y_Y |
| 2022-12-11 | LC013 | 22.0 | 38 | 4 | rocks | Y_Y |
| 2022-12-11 | LC013 | 22.7 | 11 | 0 | rocks | Y_Y |
| 2022-12-11 | LC013 | 2.5 | 27 | 3 | rocks | Y_Y |
| 2022-12-11 | LC013 | 5.0 | 17 | 1 | rocks | Y_Y |
| 2022 12 11 | LC013 | 7.5 | 39 | 1 | rocks | Y_Y |
| 2022 12 11 | LC013 | 10.0 | 87 | 1 | rocks | Y_Y |
| 2022 12 11 2022-12-11 | LC013 | 12.5 | 51 | 3 | rocks | Y_Y |
| 2022 12 11 | LC013 | 15.0 | 81 | 2 | rocks | Y_Y |
| 2022 12 11 2022-12-11 | LC013 | 17.5 | 59 | 0 | rocks | Y_Y |
| 2022 12 11 2022-12-11 | LC013 | 20.0 | 46 | 2 | rocks | Y_Y |
| 2022 12 11 | LC013 | 22.0 | 45 | 1 | rocks | Y_Y |
| 2022 12 11 | LC013 | 22.7 | 10 | 0 | rocks | Y_Y |
| 2022 12 11 2022-12-11 | LC013 | 2.5 | 59 | 0 | rocks | Y_Y |
| 2022 12 11 2022-12-11 | LC013 | 5.0 | 99 | 0 | rocks | Y_Y |
| 2022 12 11 2022-12-11 | LC013 | | | 3 | rocks | |
| 2022-12-11 | LC013 | 7.5 10.0 | 73 100 | 4 | rocks | Y_Y v v |
| 2022-12-11 | LC013 | 10.0 | 96 | 0 | rocks | Y_Y Y_Y |
| 2022-12-11 | LC013 | 15.0 | 157 | 6 | rocks | Y_Y |
| 2022-12-11 | LC013 | 17.5 | 104 | 3 | rocks | Y_Y |
| 2022-12-11 | LC013 | 20.0 | 104 | 4 | rocks | |
| 2022-12-11 | LC013 | | | 2 | | Y_Y v v |
| 2022-12-11 | TC012 | 22.0 | 105 | 2 | rocks | Y_Y |

| 2022-12-11 | LC013 | 22.7 | 20 | 0 | rocks | Y_Y |
|------------|-------|------|-----|----|-------|-------------------------|
| 2022-12-11 | LC013 | 2.5 | 78 | 1 | rocks | Y_Y |
| 2022-12-11 | LC013 | 5.0 | 157 | 12 | rocks | Y_Y |
| 2022-12-11 | LC013 | 7.5 | 123 | 6 | rocks | Y_Y |
| 2022-12-11 | LC013 | 10.0 | 111 | 2 | rocks | Y_Y |
| 2022-12-11 | LC013 | 12.5 | 73 | 1 | rocks | Y_Y |
| 2022-12-11 | LC013 | 15.0 | 142 | 7 | rocks | Y_Y |
| 2022-12-11 | LC013 | 17.5 | 125 | 6 | rocks | Y_Y |
| 2022-12-11 | LC013 | 20.0 | 162 | 12 | rocks | Y_Y |
| 2022-12-11 | LC013 | 22.0 | 67 | 5 | rocks | Y_Y |
| 2022-12-11 | LC013 | 23.0 | 18 | 0 | rocks | Y_Y |
| 2022-12-11 | LC013 | 2.5 | 21 | 0 | rocks | Y_Y |
| 2022-12-11 | LC013 | 5.0 | 6 | 0 | rocks | Y Y |
| 2022-12-11 | LC013 | 7.5 | 13 | 1 | rocks | $\mathbf{Y} \mathbf{Y}$ |
| 2022-12-11 | LC013 | 10.0 | 11 | 0 | rocks | Y_Y |
| 2022-12-11 | LC013 | 12.5 | 9 | 0 | rocks | Y_Y |
| 2022-12-11 | LC013 | 15.0 | 3 | 0 | rocks | y _ Y |
| 2022-12-11 | LC013 | 17.5 | 11 | 0 | rocks | Y_Y |
| 2022-12-11 | LC013 | 20.0 | 0 | 0 | rocks | Y_Y |
| 2022-12-11 | LC013 | 22.0 | 5 | 0 | rocks | Y_Y |
| 2022-12-11 | LC013 | 22.8 | 25 | 2 | rocks | Y_Y |
| 2022-12-11 | LC013 | 2.5 | 104 | 5 | rocks | Y_Y |
| 2022-12-11 | LC013 | 5.0 | 82 | 6 | rocks | ΥΥ |
| 2022-12-11 | LC013 | 7.5 | 77 | 0 | rocks | ΥΥ |
| 2022-12-11 | LC013 | 10.0 | 118 | 4 | rocks | Y_Y |
| 2022-12-11 | LC013 | 12.5 | 121 | 2 | rocks | Y_Y |
| 2022-12-11 | LC013 | 15.0 | 111 | 7 | rocks | Y_Y |
| 2022-12-11 | LC013 | 17.5 | 72 | 3 | rocks | Y_Y |
| 2022-12-11 | LC013 | 20.0 | 55 | 2 | rocks | Y_Y |
| 2022-12-11 | LC013 | 22.0 | 73 | 3 | rocks | Y_Y |
| 2022-12-11 | LC013 | 24.2 | 58 | 5 | rocks | Y_Y |
| 2022-12-11 | LC013 | 2.5 | 30 | 0 | rocks | Y_Y |
| 2022-12-11 | LC013 | 5.0 | 78 | 3 | rocks | Y_Y |
| 2022-12-11 | LC013 | 7.5 | 207 | 5 | rocks | Y_Y |
| 2022-12-11 | LC013 | 10.0 | 142 | 3 | rocks | Y_Y |
| 2022-12-11 | LC013 | 12.5 | 28 | 0 | rocks | Y_Y |
| 2022-12-11 | LC013 | 15.0 | 82 | 3 | rocks | Y_Y |
| 2022-12-11 | LC013 | 17.5 | 82 | 2 | rocks | Y_Y |
| 2022-12-11 | LC013 | 20.0 | 50 | 2 | rocks | Y_Y |
| 2022-12-11 | LC013 | 22.0 | 30 | 1 | rocks | Y_Y |
| 2022-12-11 | LC013 | 24.1 | 43 | 2 | rocks | Y_Y |
| 2022-12-11 | LC013 | 2.5 | 62 | 7 | rocks | Y_Y |
| 2022-12-11 | LC013 | 5.0 | 72 | 9 | rocks | Y_Y |
| 2022-12-11 | LC013 | 7.5 | 104 | 10 | rocks | Y_Y |
| 2022-12-11 | LC013 | 10.0 | 80 | 3 | rocks | Y_Y |
| 2022-12-11 | LC013 | 12.5 | 116 | 7 | rocks | Y_Y |
| 2022-12-11 | LC013 | 15.0 | 82 | 5 | rocks | Y_Y |
| 2022-12-11 | LC013 | 17.5 | 63 | 5 | rocks | Y_Y |
| 2022-12-11 | LC013 | 20.0 | 30 | 5 | rocks | Y_Y |
| 2022-12-11 | LC013 | 22.0 | 56 | 4 | rocks | Y_Y |
| 2022-12-11 | LC013 | 23.6 | 51 | 1 | rocks | Y_Y |
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