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 2021-2022) and how the collected data compare to last year's sampling (Winter 2020-2021). So far 8 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, 126 days have been sampled over this entire project.

Definition of Localities

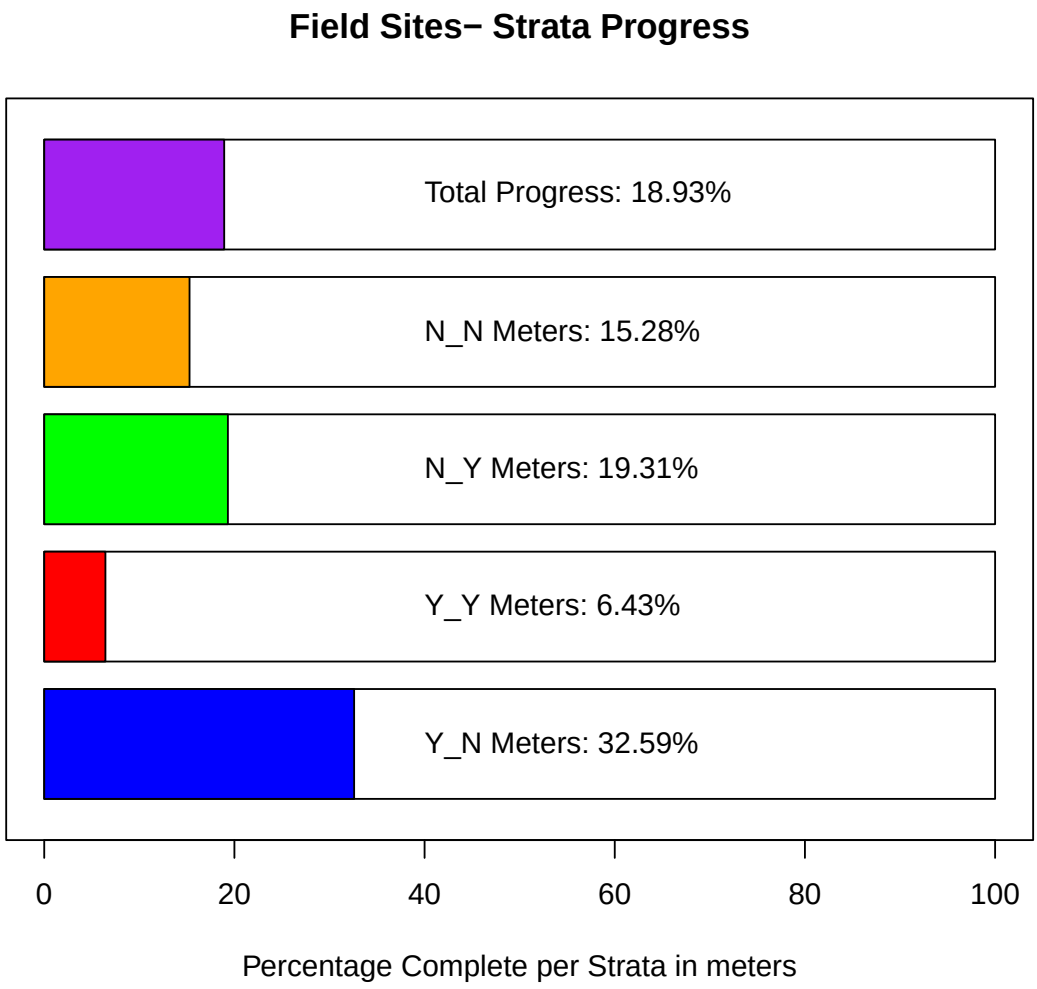
LOCALITY	LOCATION
BT	Big Trout
CK	Cedar Key
CR	Corrigan's Reef
HB	Horseshoe Beach
LC	Lone Cabbage
LT	Little Trout
NN	No Name

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 24, and last year's sampling period is period 22.**



Summary Tables for Periods 18, 20, 22, and 24

These summary tables provide summary statistics on live counts and oyster densities for just periods **18 (Winter 2018-2019), 20 (Winter 2019-2020), 22 (Winter 2020-2021), and 24 (Winter 2021-2022).**

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)

Summary of Live Counts for Periods 18, 20, 22, and 24

Live Oyster Counts by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	1575	856	2195	4815993	1.39	587	425	2724	1571	744	2816
LC	1382	769	1677	2813031	1.21	149	1090	1674	1382	1110	1678
LT	1051	877	607	368075	0.58	147	762	1339	1048	797	1344
NN	786	727	649	420847	0.83	196	403	1169	794	479	1186

Live Oyster Counts by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	1072	767	1196	1429396	1.11	156	767	1377	1064	821	1415
N_PILOT	356	356	NA	NA	NA	NA	NA	NA	177	9	347
N_Y	2360	1619	2042	4171421	0.87	367	1641	3079	2344	1636	3098
Y_N	801	638	763	581901	0.95	96	613	989	801	623	997
Y_Y	2455	1506	2859	8175013	1.16	738	1008	3901	2445	1210	3955

Live Oyster Counts by Period

Period	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
18	982	695	935	874733	0.95	120	748	1217	986	765	1230
20	1844	1253	2125	4517189	1.15	310	1236	2451	1843	1330	2489
22	1334	702	1693	2867783	1.27	242	860	1808	1343	894	1835
24	1008	512	1126	1268477	1.12	325	371	1645	1019	446	1692

Live Density by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	255	212	184	34019	0.72	49	159	352	256	180	366
LC	162	151	124	15254	0.76	11	140	183	162	142	183
LT	275	249	141	19819	0.51	34	208	342	274	214	340
NN	223	164	224	50283	1.01	68	90	355	221	122	362

Live Density by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	234	190	161	25838	0.69	21	193	275	234	195	276
N_PILOT	102	102	NA	NA	NA	NA	NA	NA	52	3	99

N_Y	148	130	92	8512	0.62	17	115	180	148	120	182
Y_N	176	153	147	21541	0.84	18	139	212	176	141	215
Y_Y	113	101	88	7709	0.78	23	69	157	113	72	160

Live Density by Period

Period	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
18	176	155	130	16945	0.74	17	144	209	177	144	210
20	256	203	187	35057	0.73	27	203	310	257	207	315
22	137	121	93	8638	0.68	13	111	163	137	111	163
24	145	168	72	5196	0.50	21	104	186	144	105	180

Summary of Dead Counts for Periods 18, 20, 22, and 24

Dead Oyster Counts by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	304	174	306	93661	1.01	82	144	464	304	164	458
LC	126	68	145	20976	1.14	13	101	152	127	104	153
LT	240	210	193	37090	0.80	47	148	331	242	157	330
NN	104	74	96	9216	0.92	29	48	161	105	58	166

Dead Oyster Counts by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	201	135	205	41833	1.0	27	148	253	200.1	153	258
N_PILOT	9	9	NA	NA	NA	NA	NA	NA	4.9	1	9
N_Y	97	60	103	10574	1.1	18	61	134	96.8	64	134
Y_N	120	79	122	14968	1.0	15	90	151	120.1	89	151
Y_Y	206	104	277	76865	1.3	72	66	347	205.3	88	357

Dead Oyster Counts by Period

Period	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
18	133	55	192	36903	1.44	25	85	182	133	91	181
20	148	107	140	19727	0.95	20	108	188	148	111	189
22	191	128	193	37399	1.01	28	137	245	192	144	248
24	91	63	66	4371	0.73	19	54	128	91	56	128

Dead Oyster Density by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	54	45	34	1130	0.62	9.0	37	72	55	39	72
LC	19	11	21	449	1.09	1.9	16	23	20	16	23
LT	59	50	38	1415	0.64	9.1	41	77	59	41	76
NN	28	17	23	530	0.82	6.9	15	42	28	16	42

Dead Oyster Density by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	43.4	37.0	32.0	1025	0.74	4.17	35.3	51.6	43.6	35.3	52.3
N_PILOT	2.6	2.6	NA	NA	NA	NA	NA	NA	1.5	1.0	2.0
N_Y	6.1	4.1	4.5	20	0.74	0.81	4.5	7.7	6.1	4.6	7.7
Y_N	26.4	16.9	24.9	621	0.95	3.14	20.2	32.5	26.4	20.6	32.4
Y_Y	8.9	7.9	6.6	44	0.74	1.70	5.5	12.2	8.9	5.8	12.0

Dead Oyster Density by Period

Period	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
18	26	16	31	980	1.19	4.0	18.5	34	26	19	34
20	28	18	26	682	0.94	3.8	20.2	35	28	20	35
22	28	14	28	807	1.00	4.1	20.5	36	29	21	37
24	20	15	21	427	1.02	6.0	8.5	32	20	11	33

Summary Plots for Periods 18, 20, 22, and 24

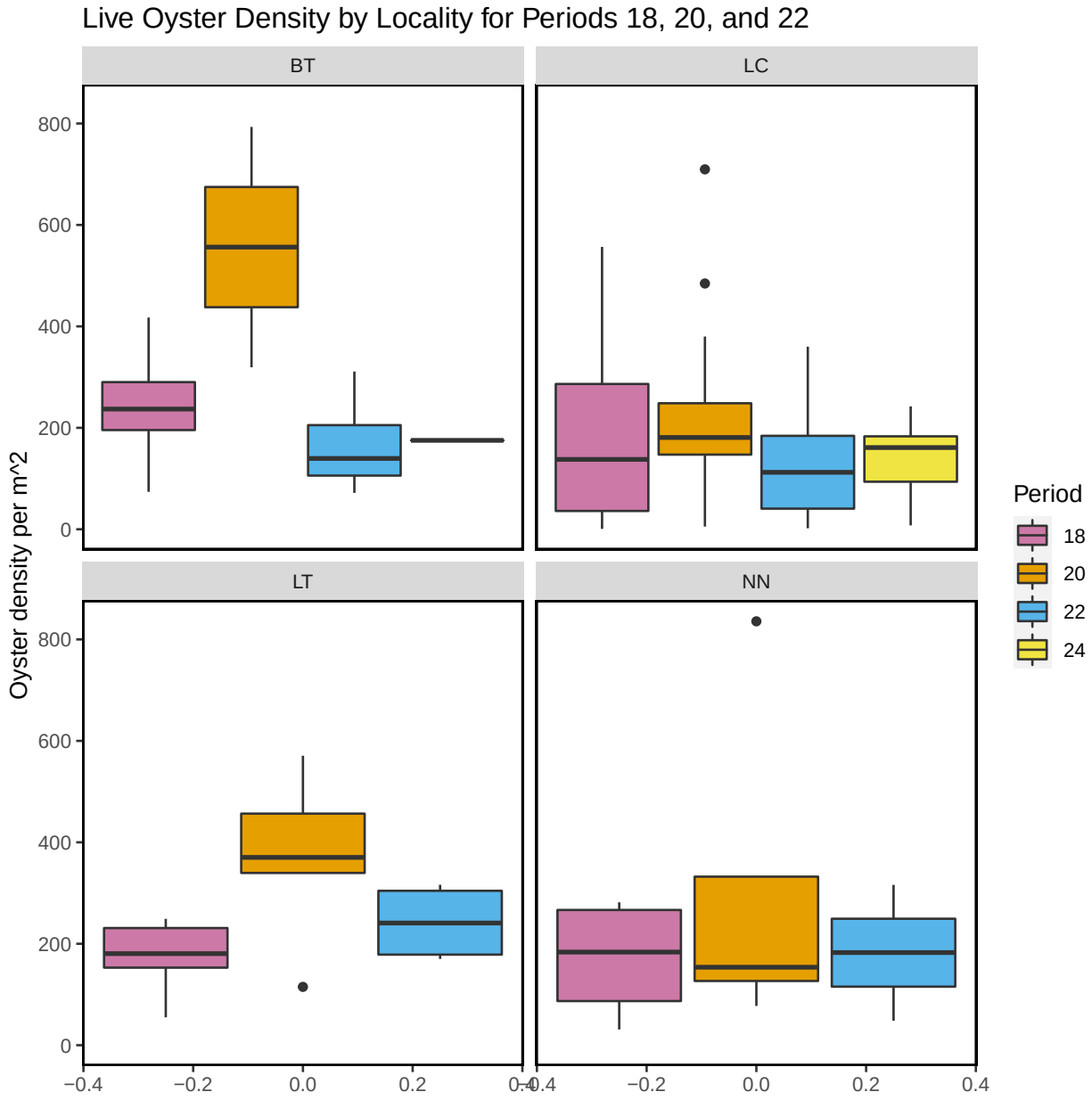


Figure- Calculated live oyster density by locality for periods 18 (Winter 2018-2019), 20 (Winter 2019-2020), 22 (Winter 2020-2021), and 24 (Winter 2021-2022) with the last sample date of period 24 as 2021-11-22.

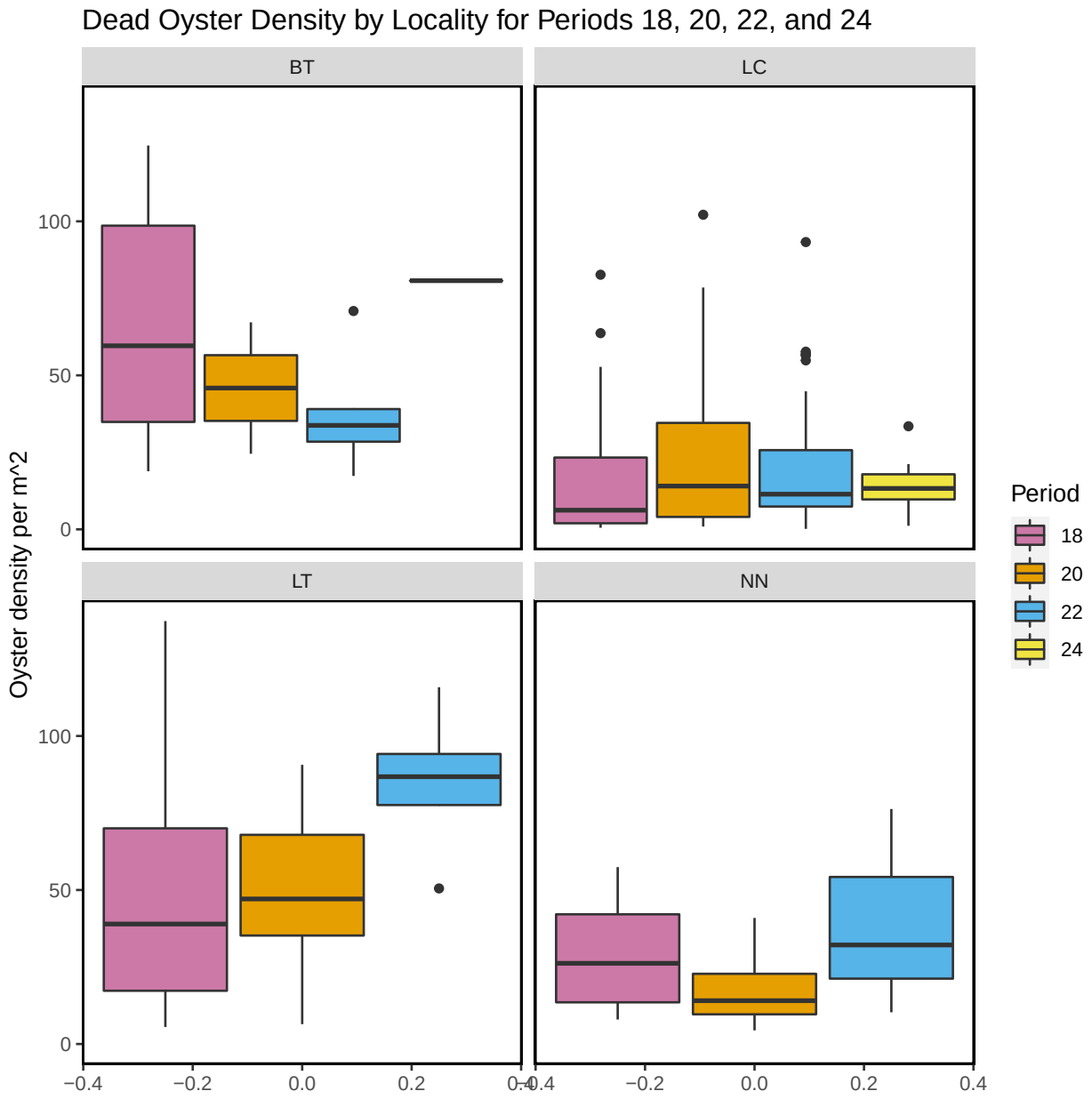


Figure- Calculated dead oyster density by locality for periods 18 (Winter 2018-2019), 20 (Winter 2019-2020), 22 (Winter 2020-2021), and 24 (Winter 2021-2022) with the last sample date of period 24 as 2021-11-22.

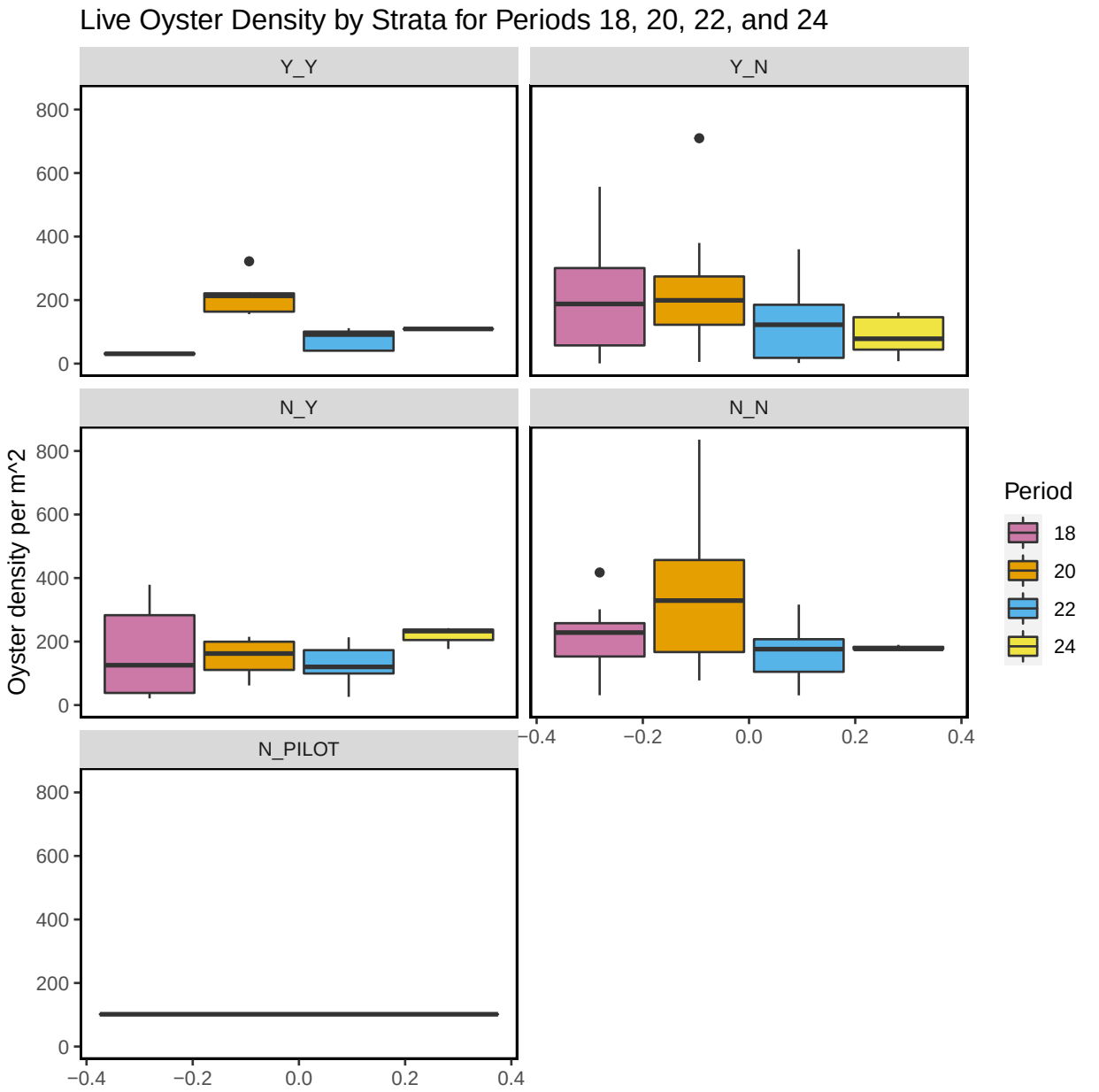


Figure- Calculated live oyster density by strata for periods 18 (Winter 2018-2019), 20 (Winter 2019-2020), 22 (Winter 2020-2021), and 24 (Winter 2021-2022) with the last sample date of period 24 as 2021-11-22.

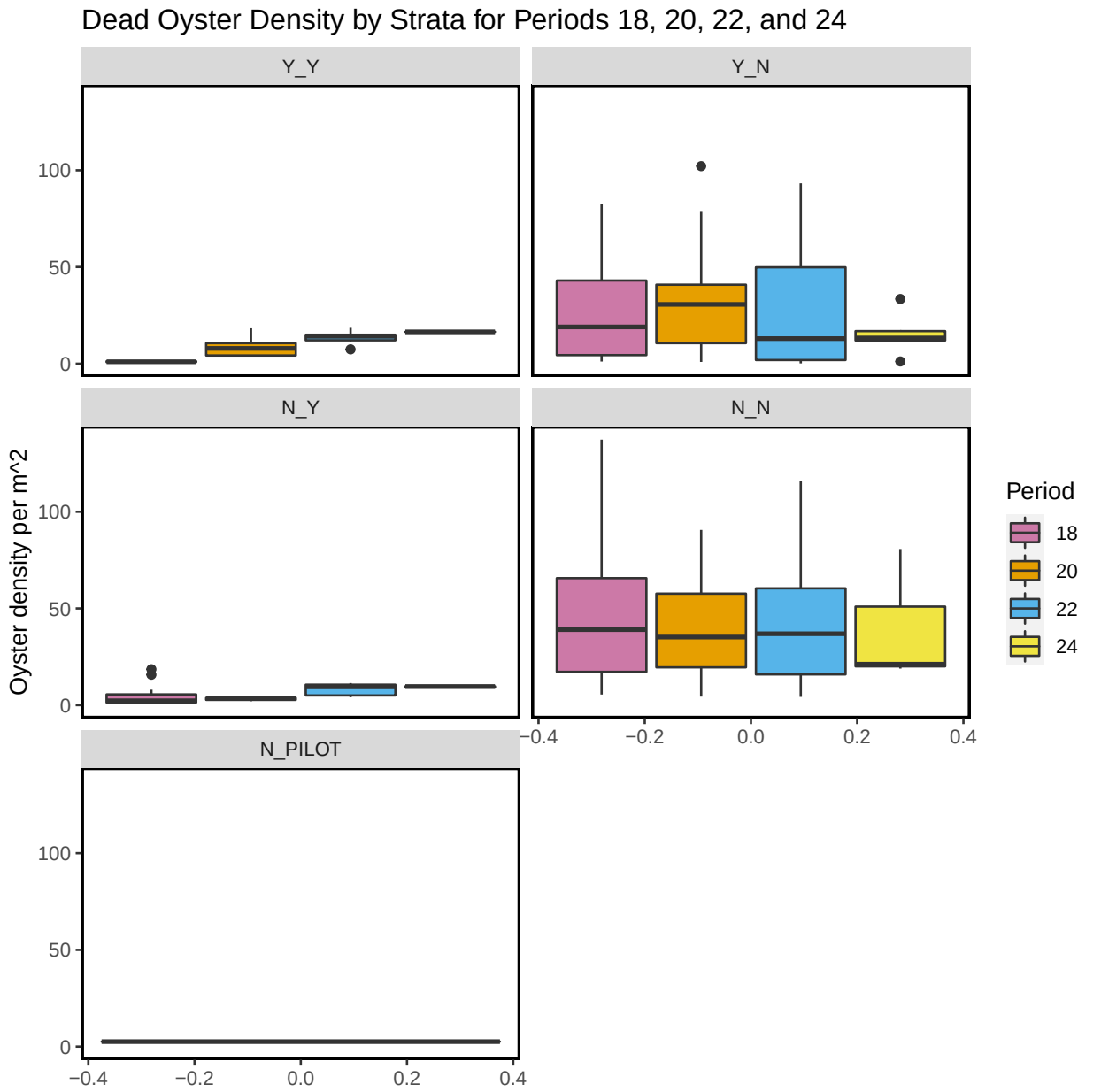


Figure- Calculated dead oyster density by strata for periods 18 (Winter 2018-2019), 20 (Winter 2019-2020), 22 (Winter 2020-2021), and 24 (Winter 2021-2022) with the last sample date of period 24 as 2021-11-22.

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

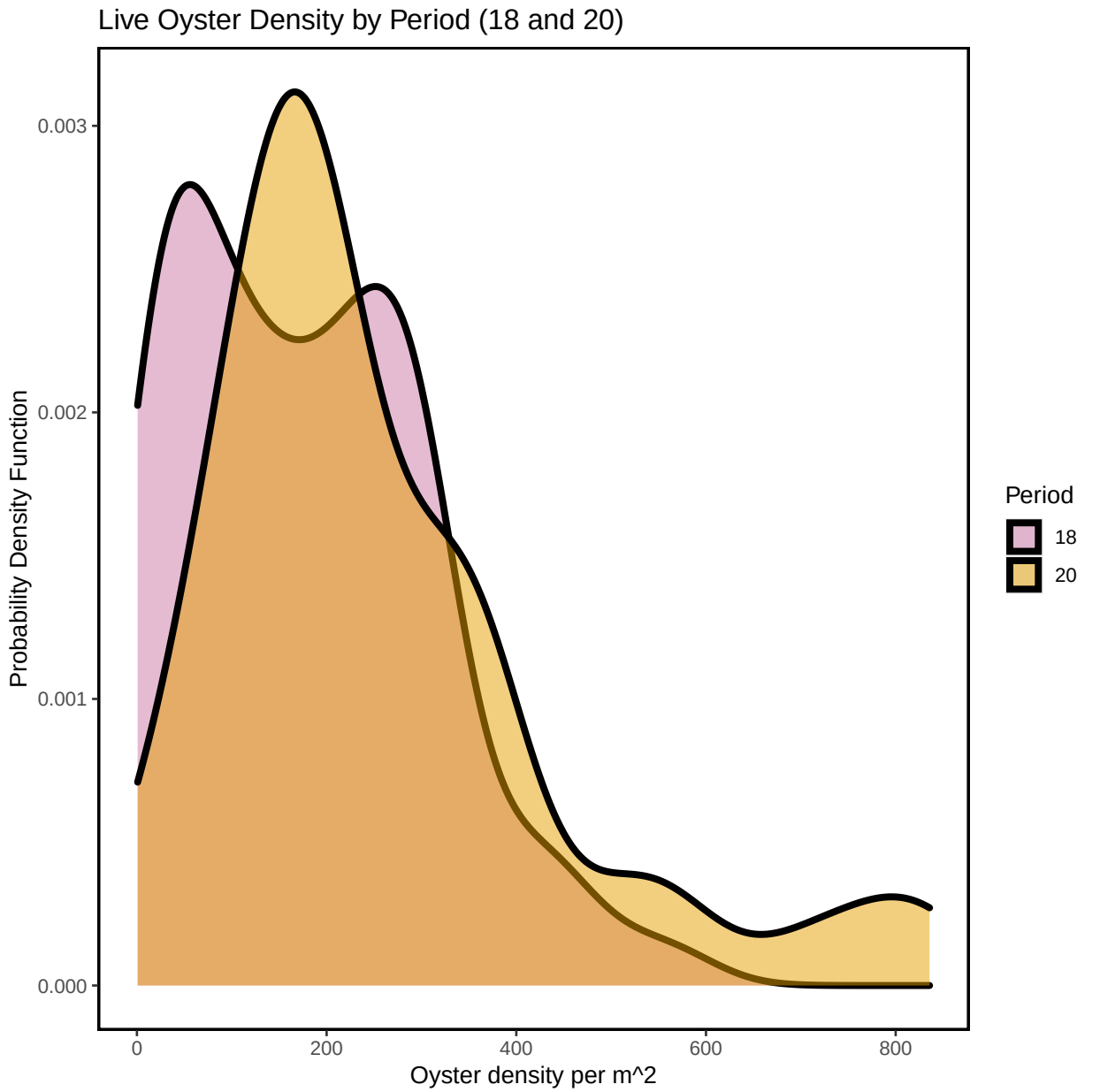


Figure- Calculated live oyster density by periods 18 (Winter 2018-2019) and 20 (Winter 2019-2020) using a probability density function with the last sample date of period 22 as 2021-11-22.

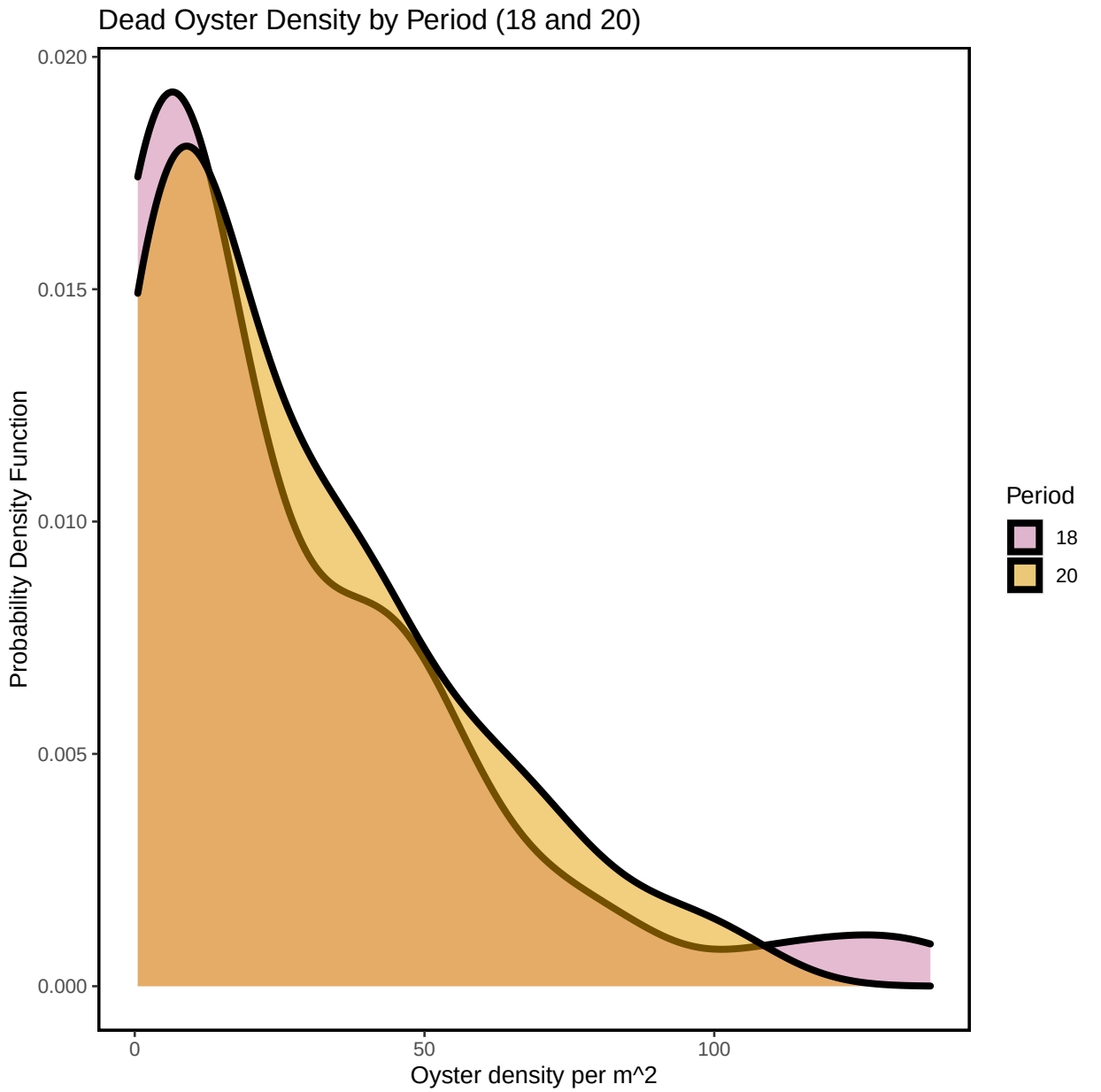


Figure- Calculated dead oyster density by periods 18 (Winter 2018-2019) and 20 (Winter 2019-2020) using a probability density function with the last sample date of period 22 as 2021-11-22.

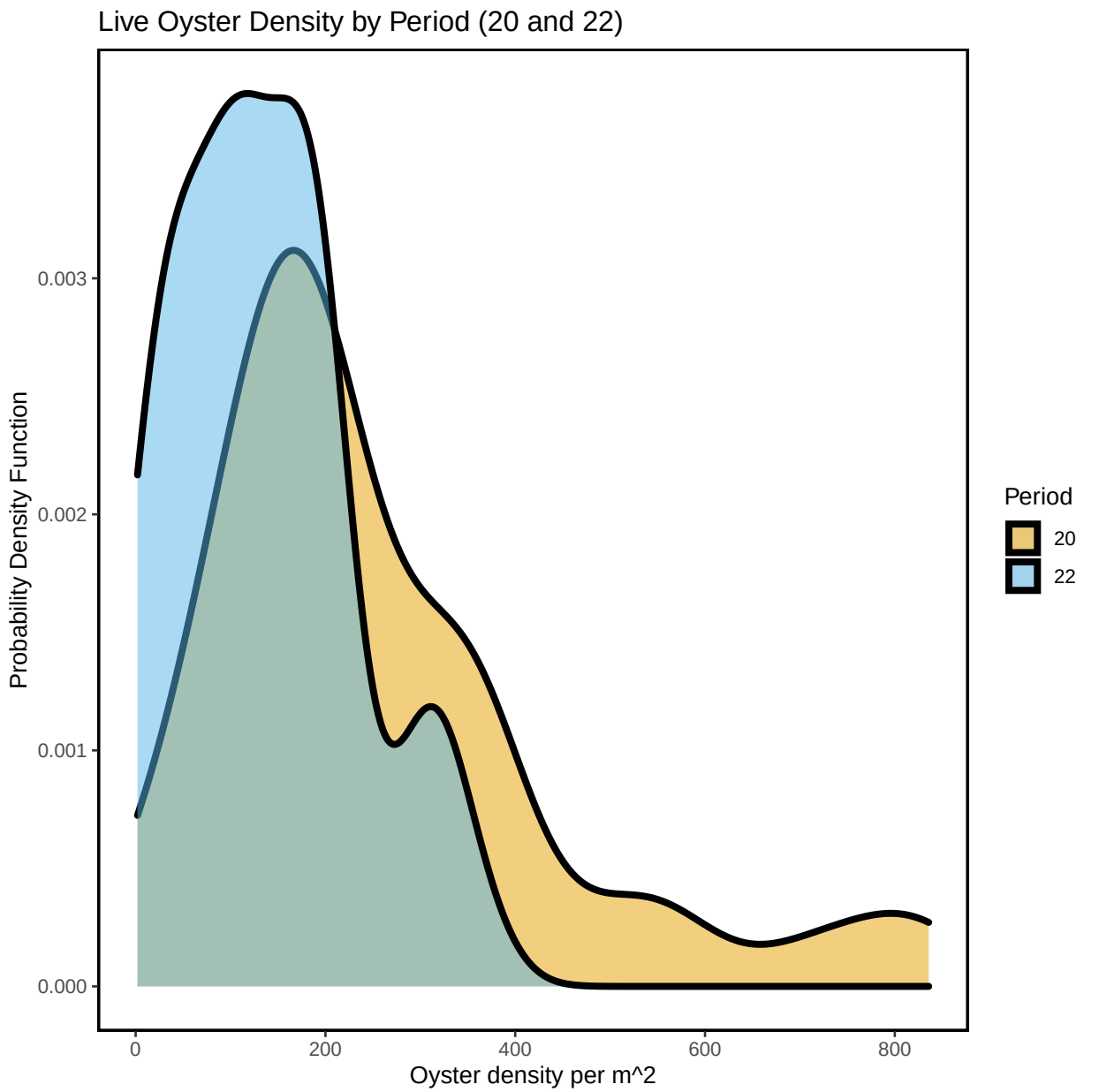


Figure- Calculated live oyster density by periods 20 (Winter 2019-2020) and 22 (Winter 2020-2021) using a probability density function with the last sample date of period 22 as 2021-11-22.

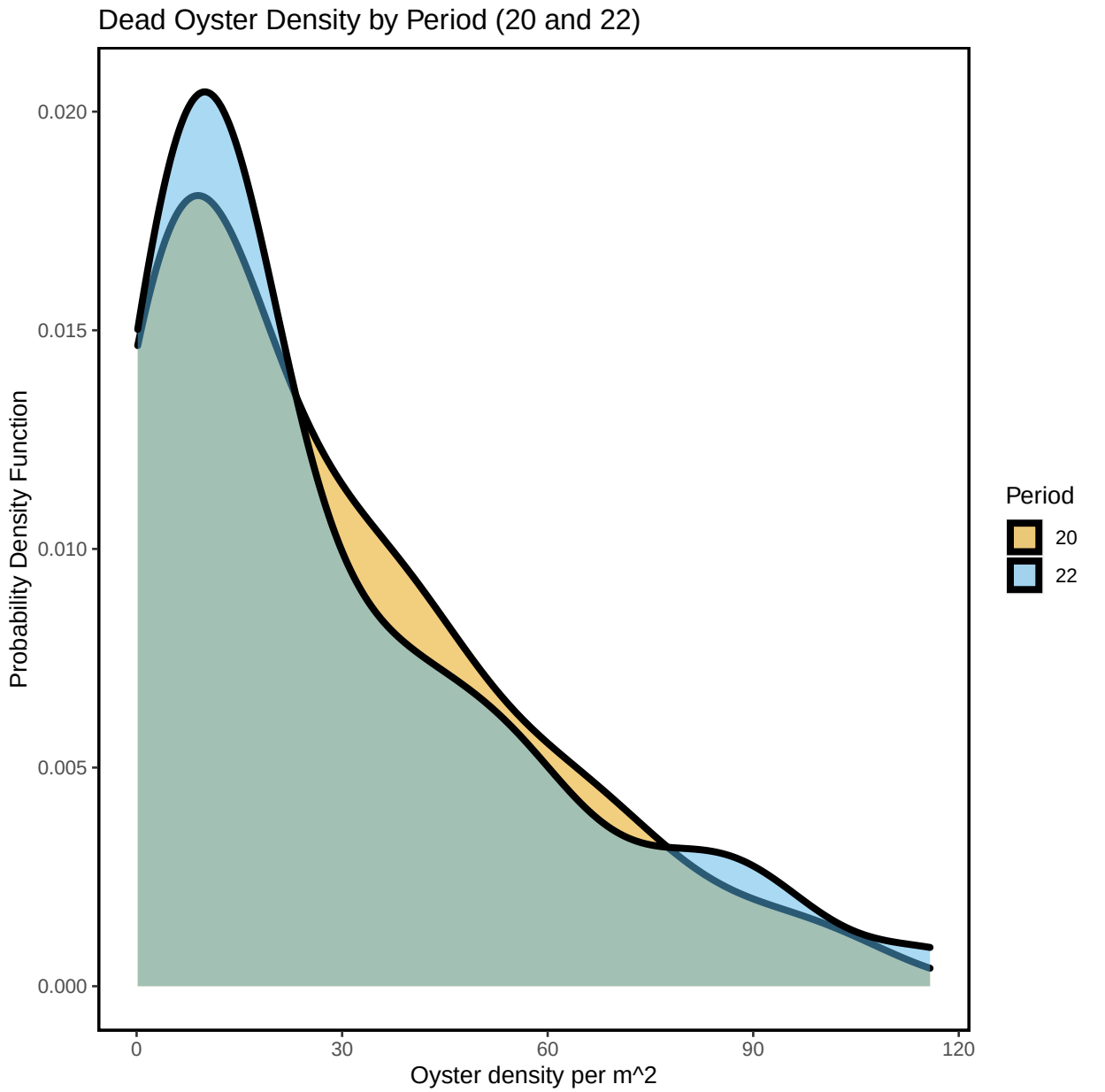


Figure- Calculated dead oyster density by periods 20 (Winter 2019-2020) and 22 (Winter 2020-2021) using a probability density function with the last sample date of period 22 as 2021-11-22.

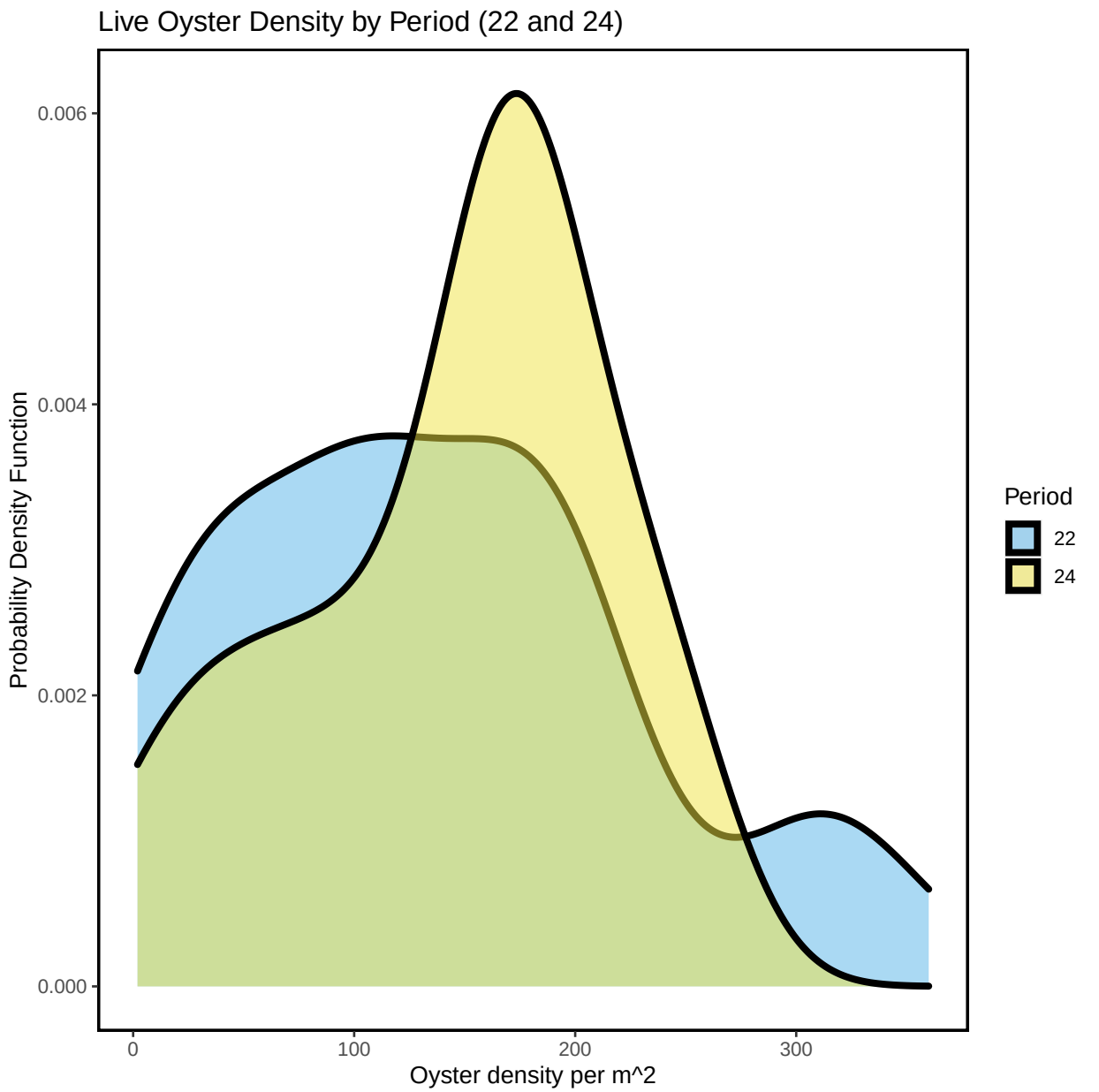


Figure- Calculated live oyster density by periods 22 (Winter 2020-2021) and 24 (Winter 2021-2022) using a probability density function with the last sample date of period 24 as 2021-11-22.

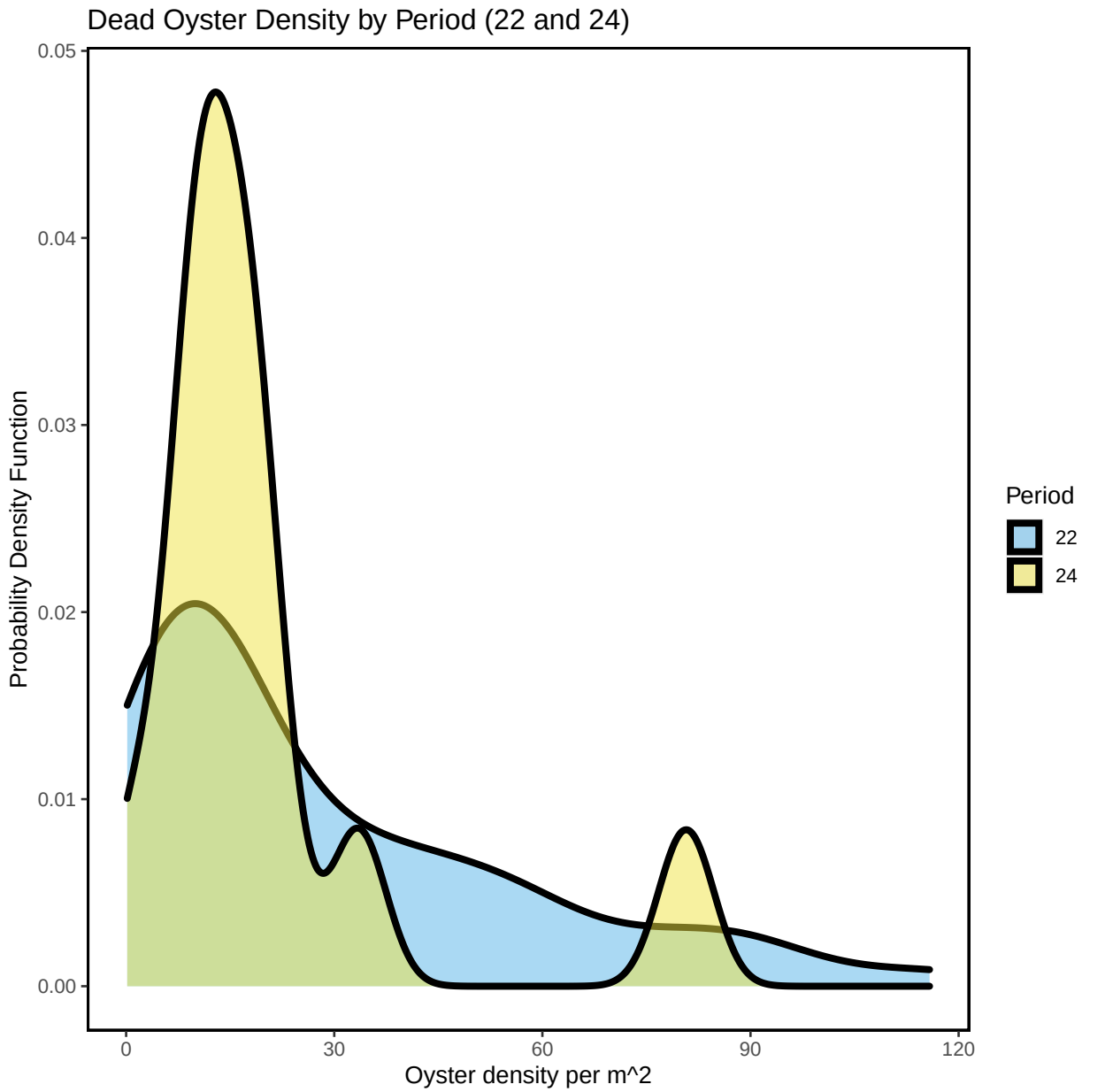


Figure- Calculated dead oyster density by periods 22 (Winter 2020-2021) and 24 (Winter 2021-2022) using a probability density function with the last sample date of period 24 as 2021-11-22.

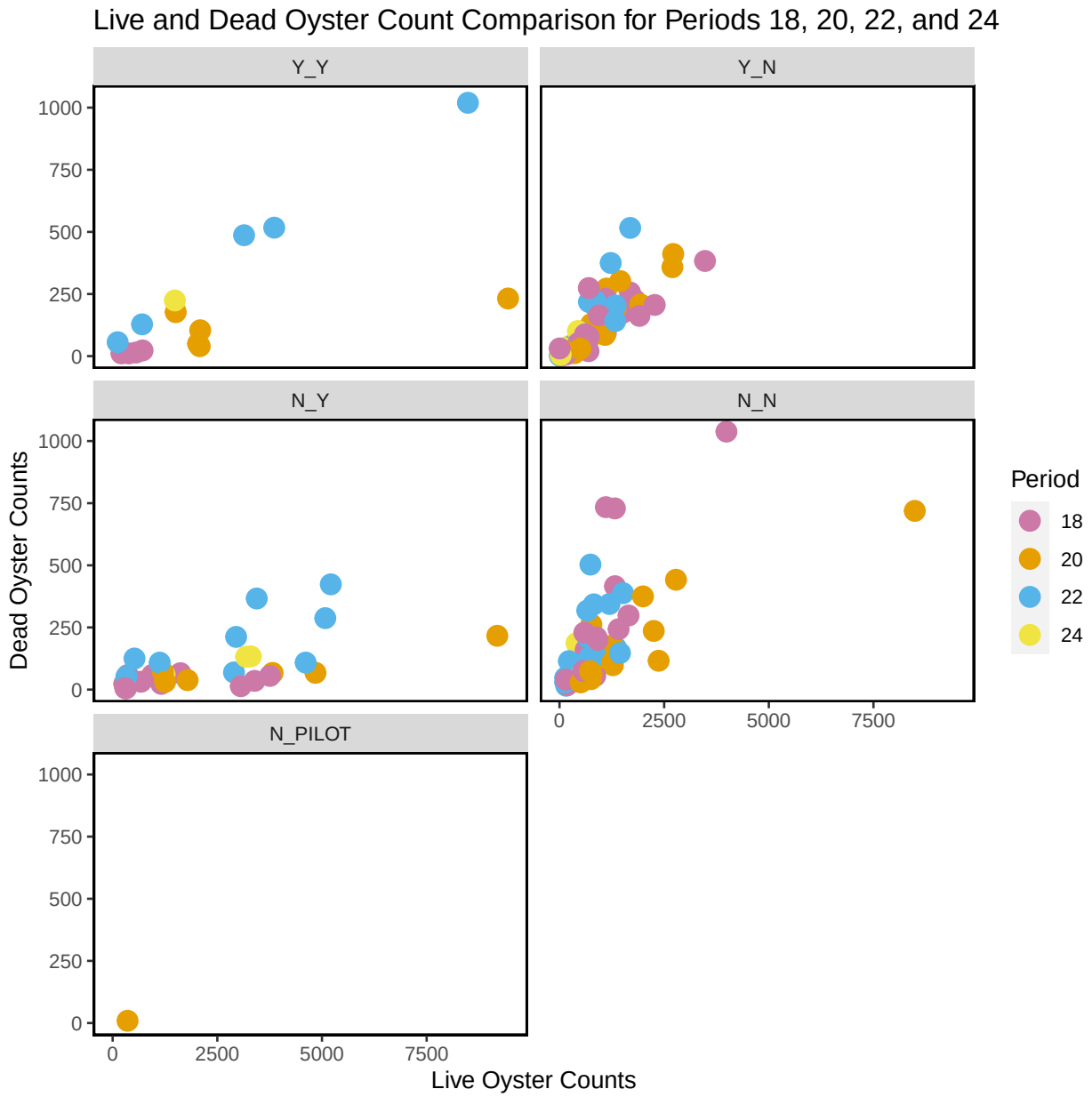


Figure- Live and dead oyster count comparison by periods 18 (Winter 2018- 2019), 20 (Winter 2019-2020), 22 (Winter 2020-2021) and 24 (Winter 2021-2022), last sample date of period 24 as 2021-11-22.

Live Counts Double Pass Results

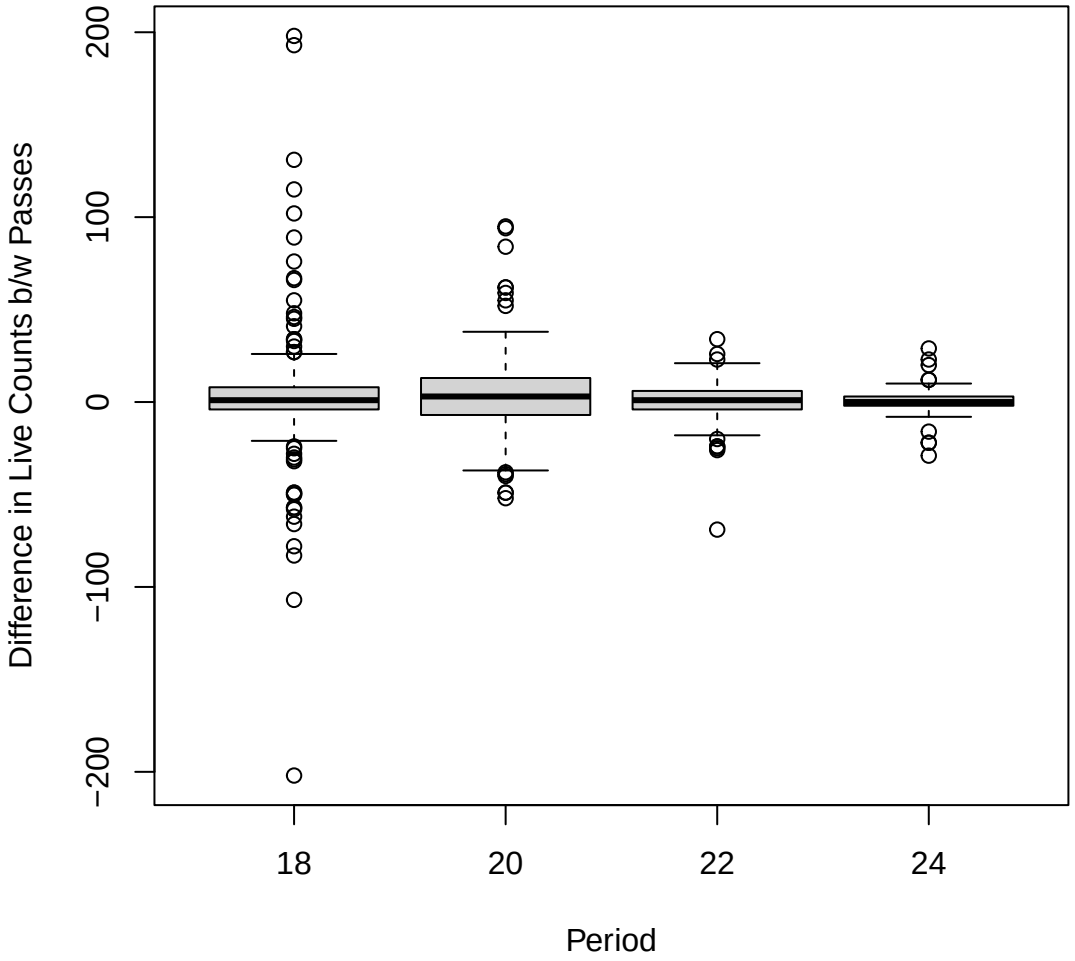


Figure- Boxplot of the difference in live counts between pass 1 and pass 2 (pass 1 live counts - pass 2 live counts) for period 18, 20, 22, and 24

locality	period	mean_difference	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
LC	24	0.57	8.1	14.1

Table- Coefficient variation between pass 1 and pass 2, aggregated by locality and period for live counts

Dead Counts Double Pass Results

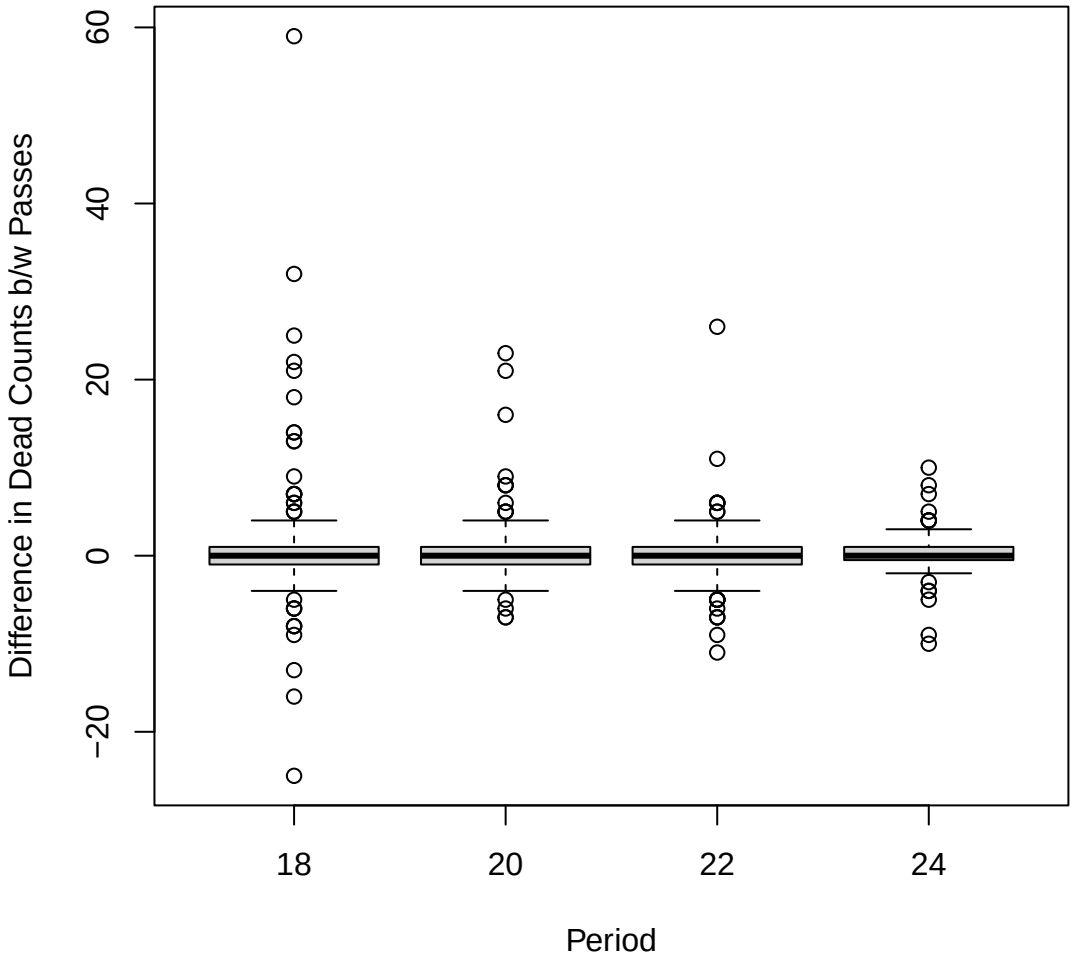


Figure- Boxplot of the difference in dead counts between pass 1 and pass 2 (pass 1 dead counts - pass 2 dead counts) for period 18, 20, 22, and 24

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
LC	24	1.29	1.50

Table- Coefficient variation between pass 1 and pass 2, aggregated by locality and period for dead counts

Sampling for all Periods

Next, we provide summary tables and plots for all transect sampling. These data were collected between 2010-05-27 and 2021-11-22. 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

Summary of Effort for all Periods

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.**

Effort by Locality

Locality	Number of Transects	Total Length (m)
BT	14	481
CK	26	734
CR	46	1375
HB	45	1129
LC	207	11194
LT	17	455
NN	11	288

Effort by Strata

Strata	Number of Transects	Total Length (m)
N_N	116	3782
N_PILOT	13	799
N_Y	31	3429
Y_N	191	5570
Y_Y	15	2075

Effort by Period

Period	Number 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	12	474

Effort by Locality and Period

Period	Locality	Number of Transects	Total Length (m)
1	CK	9	242
1	CR	10	300
1	HB	12	293
1	LC	11	250
10	LC	8	512
11	LC	8	511
16	LC	8	528
18	BT	6	238
18	LC	45	2156
18	LT	6	182
18	NN	4	84
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	1	15
24	LC	11	459
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 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	3	52
24	N_Y	3	225

24	Y_N	5	108
24	Y_Y	1	89
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

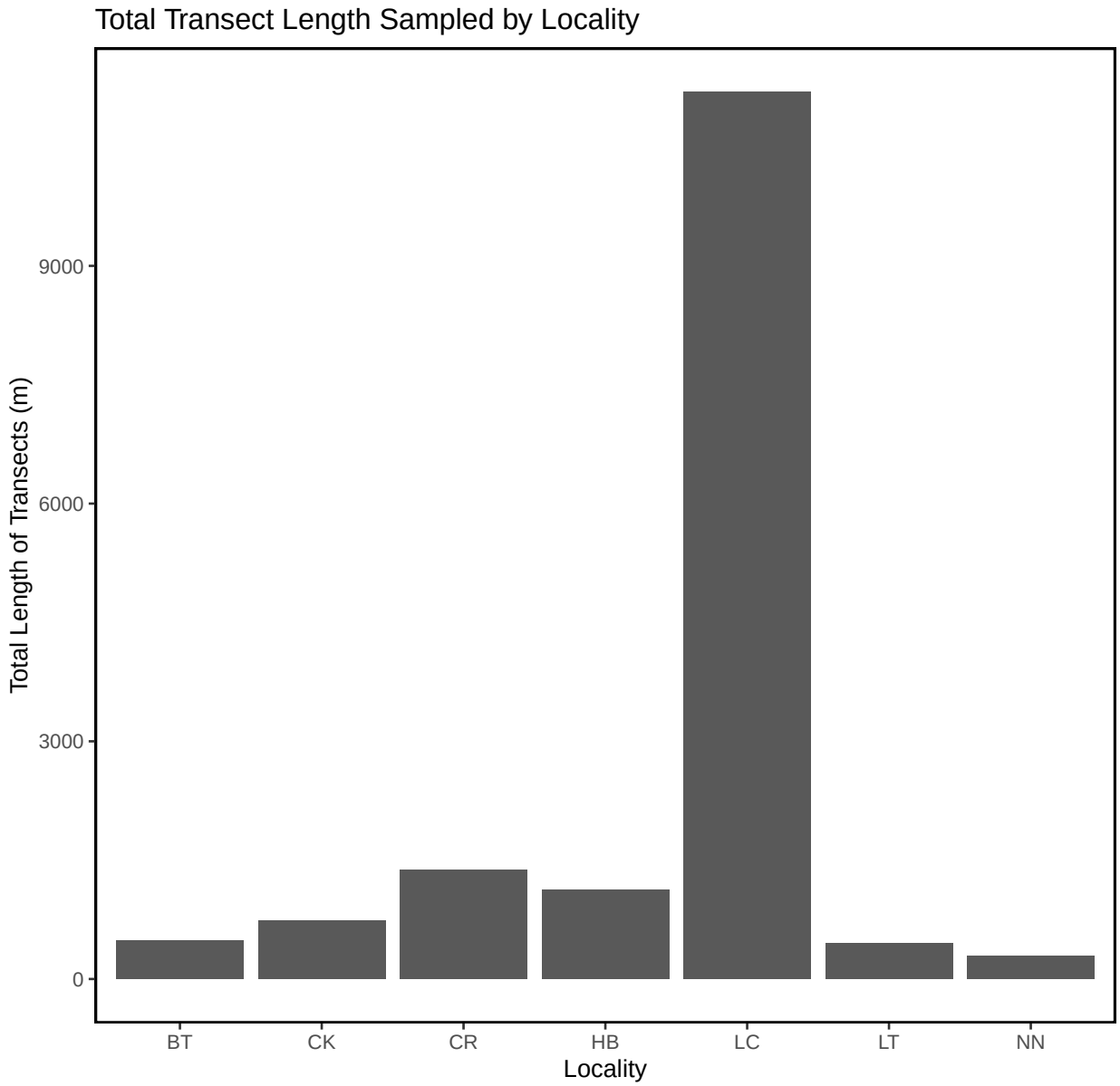


Figure − Bar plot of total transect length in meters sampled by locality for all periods.

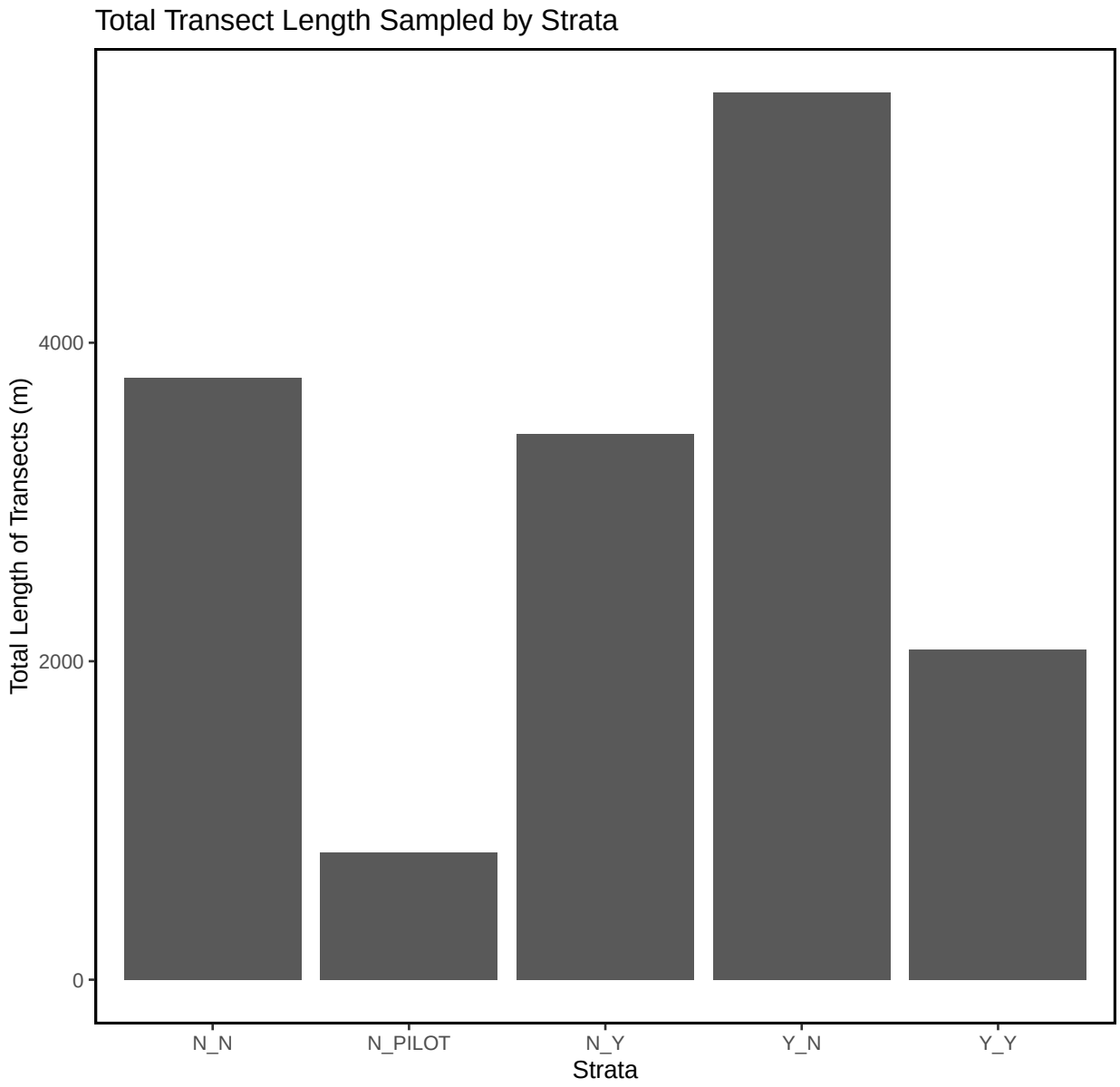
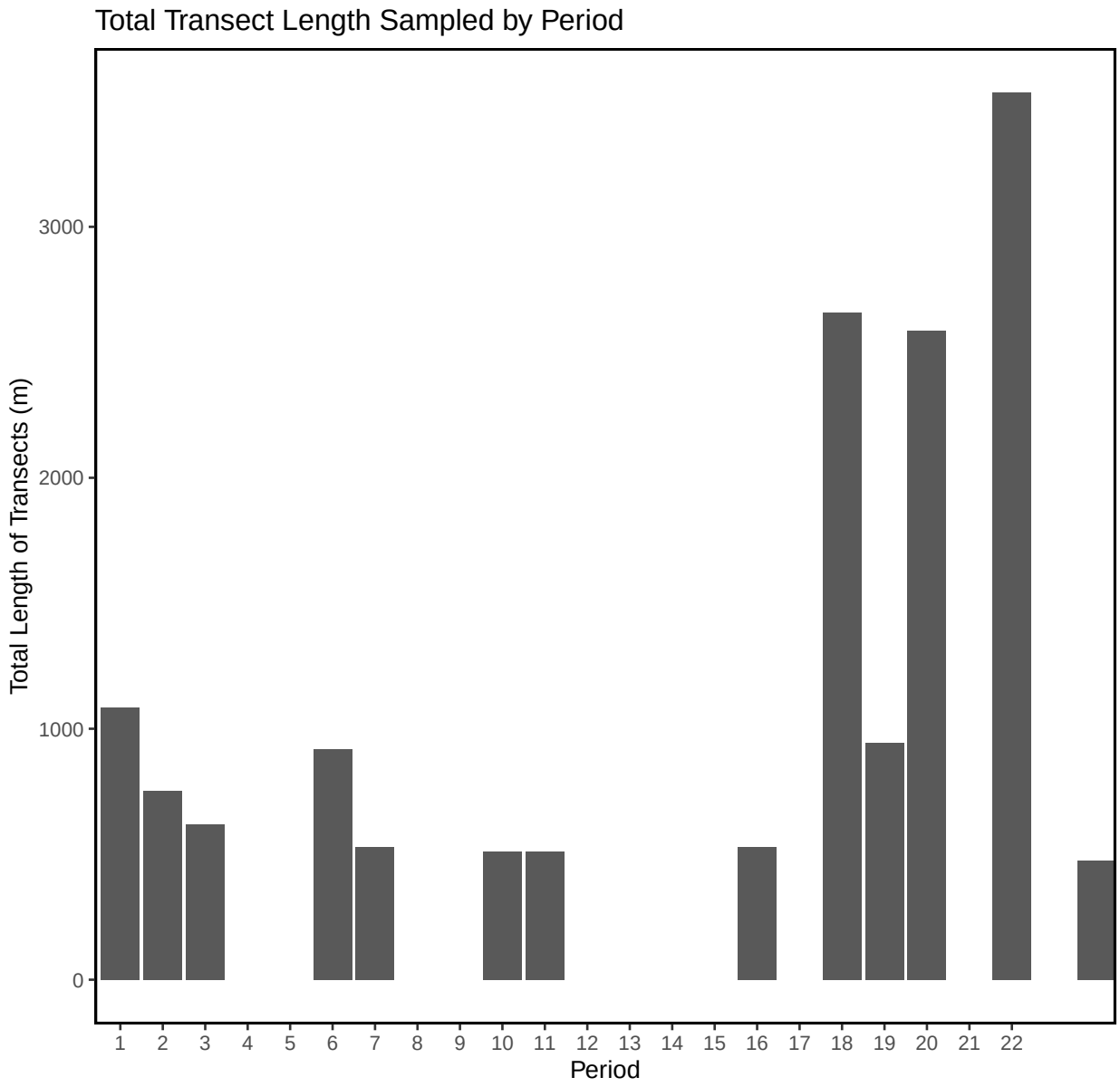


Figure − Bar plot of total transect length in meters sampled by strata for all periods.



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 Oyster Counts by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	1575	856	2195	4815993	1.39	587	425	2724	1595	703	2811
CK	857	444	1091	1190933	1.27	214	438	1277	861	481	1275
CR	1026	716	1035	1072162	1.01	153	727	1325	1030	738	1370
HB	902	364	1047	1095622	1.16	158	592	1211	908	611	1227
LC	1092	662	1433	2052135	1.31	100	895	1288	1087	905	1300
LT	1051	877	607	368075	0.58	147	762	1339	1050	794	1335
NN	786	727	649	420847	0.83	196	403	1169	789	460	1186

Live Oyster Counts by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	980	750	1044	1090561	1.07	97	789	1171	980	797	1169
N_PILOT	1046	1109	627	392853	0.60	174	705	1386	1047	737	1366
N_Y	2360	1619	2042	4171421	0.87	367	1641	3079	2365	1686	3155
Y_N	767	431	909	825427	1.18	66	637	897	765	647	899
Y_Y	2455	1506	2859	8175013	1.16	738	1008	3901	2434	1233	3930

Live Oyster Counts by Period

Period	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
1	1404	1018	1288	1657932	0.92	199	1014	1793	1413	1035	1794
2	890	476	945	893727	1.06	176	546	1234	887	571	1230
3	738	296	817	668064	1.11	167	411	1065	731	420	1071
6	433	176	534	284791	1.23	96	245	621	431	251	615
7	50	29	56	3186	1.12	20	11	90	52	17	95
10	1207	1074	671	449607	0.56	237	743	1672	1197	784	1625
11	886	776	678	459708	0.77	240	416	1356	883	497	1342
16	494	366	467	217855	0.95	165	170	817	491	215	788
18	982	695	935	874733	0.95	120	748	1217	985	774	1235
19	555	329	573	328431	1.03	97	365	745	554	387	728
20	1844	1253	2125	4517189	1.15	310	1236	2451	1825	1279	2455
22	1334	702	1693	2867783	1.27	242	860	1808	1341	902	1823
24	1008	512	1126	1268477	1.12	325	371	1645	994	477	1671

Live Density Statistics for all Periods

Live Density by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	255	212	184	34019	0.72	49	159	352	255	171	355
CK	241	112	321	102927	1.33	63	118	364	242	133	372
CR	283	178	294	86605	1.04	43	198	368	284	204	376
HB	257	101	303	92052	1.18	46	168	347	258	174	346
LC	151	120	146	21321	0.97	10	131	171	151	130	171
LT	275	249	141	19819	0.51	34	208	342	276	213	343
NN	223	164	224	50283	1.01	68	90	355	223	118	370

Live Density by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	258	185	253	63793	0.98	24	212	304	259	217	308
N_PILOT	111	111	60	3604	0.54	17	79	144	111	82	145
N_Y	148	130	92	8512	0.62	17	115	180	148	117	179
Y_N	184	108	216	46753	1.17	16	153	215	185	155	215
Y_Y	113	101	88	7709	0.78	23	69	157	113	70	161

Live Density by Period

Period	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
1	393	300.8	362.6	131444	0.92	56	283.8	503.1	393.7	290.6	514.2
2	255	119.0	285.2	81348	1.12	53	151.3	358.9	254.2	157.2	368.2
3	234	85.3	269.3	72523	1.15	55	126.1	341.6	232.1	138.3	338.2
6	121	72.2	150.9	22767	1.25	27	68.1	174.3	122.9	72.4	182.9
7	5	2.9	5.6	31	1.12	2	1.1	8.9	5.1	1.7	8.9
10	124	113.3	67.4	4536	0.54	24	76.9	170.3	122.7	84.4	166.4
11	90	79.5	67.8	4596	0.75	24	43.4	137.4	89.9	50.6	134.9
16	49	36.3	46.4	2154	0.95	16	16.9	81.2	49.1	21.0	79.6
18	176	154.5	130.2	16945	0.74	17	143.7	209.0	176.7	144.8	207.1
19	154	72.7	168.5	28408	1.10	28	97.9	209.6	153.0	101.7	206.4
20	256	202.8	187.2	35057	0.73	27	202.6	309.6	255.9	204.2	311.2
22	137	120.6	92.9	8638	0.68	13	111.2	163.3	137.0	111.7	163.6
24	145	168.2	72.1	5196	0.50	21	104.2	185.8	145.9	104.6	184.0

Dead Count Statistics for all Periods

Dead Oyster Counts by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	304	174	306	93661	1.01	82	143.6	464	301	171	450
CK	78	32	106	11170	1.36	37	4.3	151	81	18	164
CR	60	47	38	1444	0.63	13	35.2	85	61	39	86
HB	44	21	45	2000	1.02	15	14.8	73	44	19	74
LC	109	66	132	17487	1.21	10	89.3	129	109	91	128
LT	240	210	193	37090	0.80	47	148.1	331	240	157	333
NN	104	74	96	9216	0.92	29	47.6	161	103	57	159

Dead Oyster Counts by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	154	82	187	35035	1.22	20	114	194	155	119	196
N_PILOT	82	87	46	2136	0.56	13	57	108	83	60	108
N_Y	97	60	103	10574	1.06	18	61	134	97	64	134
Y_N	100	50	112	12563	1.12	12	77	123	100	78	123
Y_Y	206	104	277	76865	1.34	72	66	347	205	86	359

Dead Oyster Counts by Period

Period	Mean	Median	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	0.82	23.0	34.5	125	80	42	124
11	50	40	25	620	0.49	8.8	33.2	68	50	36	68
16	44	28	41	1708	0.93	14.6	15.6	73	44	20	71
18	133	55	192	36903	1.44	24.6	85.1	182	135	91	185
19	63	44	67	4548	1.08	11.6	40.0	85	63	42	85
20	148	107	140	19727	0.95	20.5	107.6	188	148	113	191
22	191	128	193	37399	1.01	27.6	137.2	245	192	142	250
24	91	63	66	4371	0.73	19.1	53.6	128	91	59	127

Dead Density Statistics for all Periods

Dead Oyster Density by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	54	44.9	34	1130	0.62	9.0	36.9	72	54	38.8	72
CK	21	11.3	28	757	1.29	9.7	2.3	40	22	5.9	40
CR	18	10.8	16	247	0.87	5.2	7.8	28	18	9.9	28
HB	13	8.0	14	201	1.12	4.7	3.4	22	12	4.7	22
LC	17	9.3	20	395	1.19	1.5	13.7	20	17	13.7	20
LT	59	50.5	38	1415	0.64	9.1	41.0	77	58	41.3	77
NN	28	16.7	23	530	0.82	6.9	14.6	42	28	15.6	42

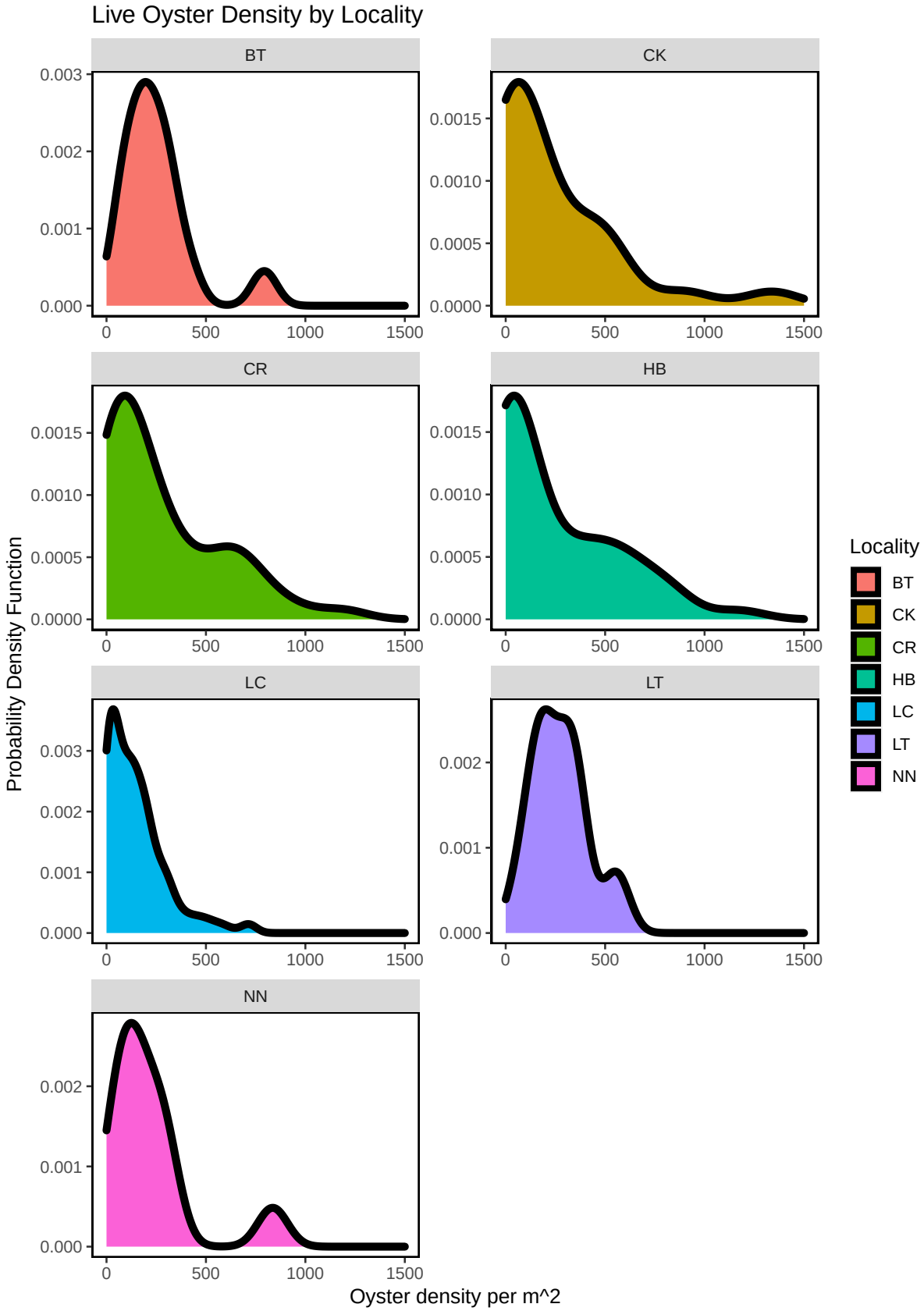
Dead Oyster Density by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	33.5	25.2	32.1	1029	0.96	3.50	26.6	40.3	33.5	27.2	40.1
N_PILOT	8.5	8.7	4.5	20	0.53	1.25	6.1	10.9	8.4	6.5	10.8
N_Y	6.1	4.1	4.5	20	0.74	0.81	4.5	7.7	6.1	4.5	7.8
Y_N	22.5	13.5	23.5	553	1.05	2.45	17.6	27.3	22.4	18.0	27.5
Y_Y	8.9	7.9	6.6	44	0.74	1.70	5.5	12.2	9.0	5.8	12.1

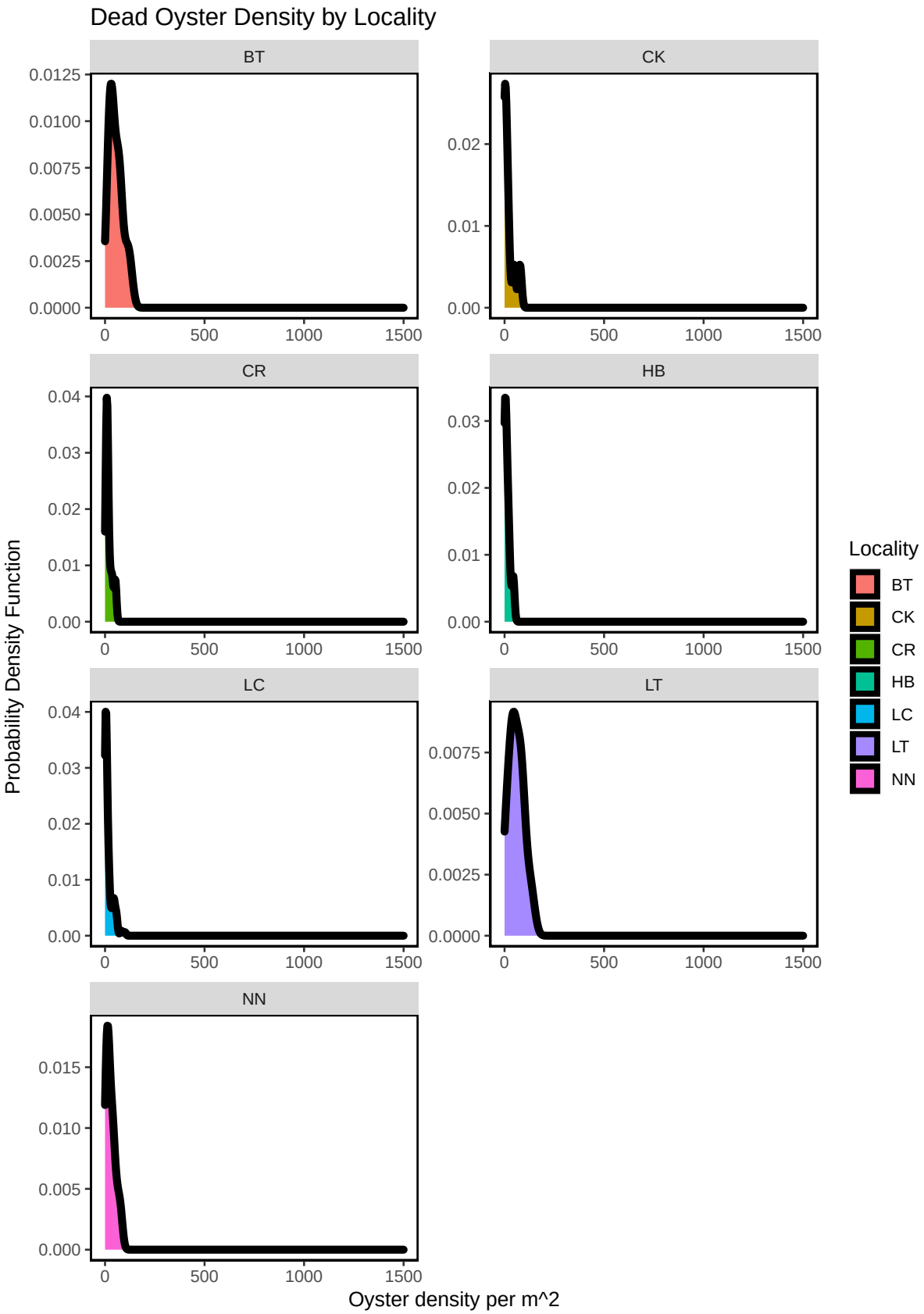
Dead Oyster Density by Period

Period	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
7	2.9	1.8	3.0	8.9	1.03	1.05	0.82	4.9	2.9	1.0	4.7
10	8.2	8.9	6.6	44.0	0.81	2.35	3.58	12.8	8.1	4.0	12.7
11	5.2	4.1	2.6	6.6	0.49	0.91	3.41	7.0	5.2	3.7	6.9
16	4.4	2.8	4.1	16.9	0.93	1.45	1.55	7.2	4.4	1.7	7.0
18	26.4	15.7	31.3	979.8	1.19	4.01	18.50	34.2	26.4	19.0	34.4
19	17.5	10.5	19.3	371.9	1.10	3.31	11.06	24.0	17.5	11.3	23.7
20	27.7	18.4	26.1	681.6	0.94	3.81	20.24	35.2	27.6	20.7	35.5
22	28.5	14.2	28.4	807.0	1.00	4.06	20.53	36.4	28.6	21.0	36.2
24	20.2	14.9	20.7	427.1	1.02	5.97	8.48	31.9	20.3	11.6	33.1

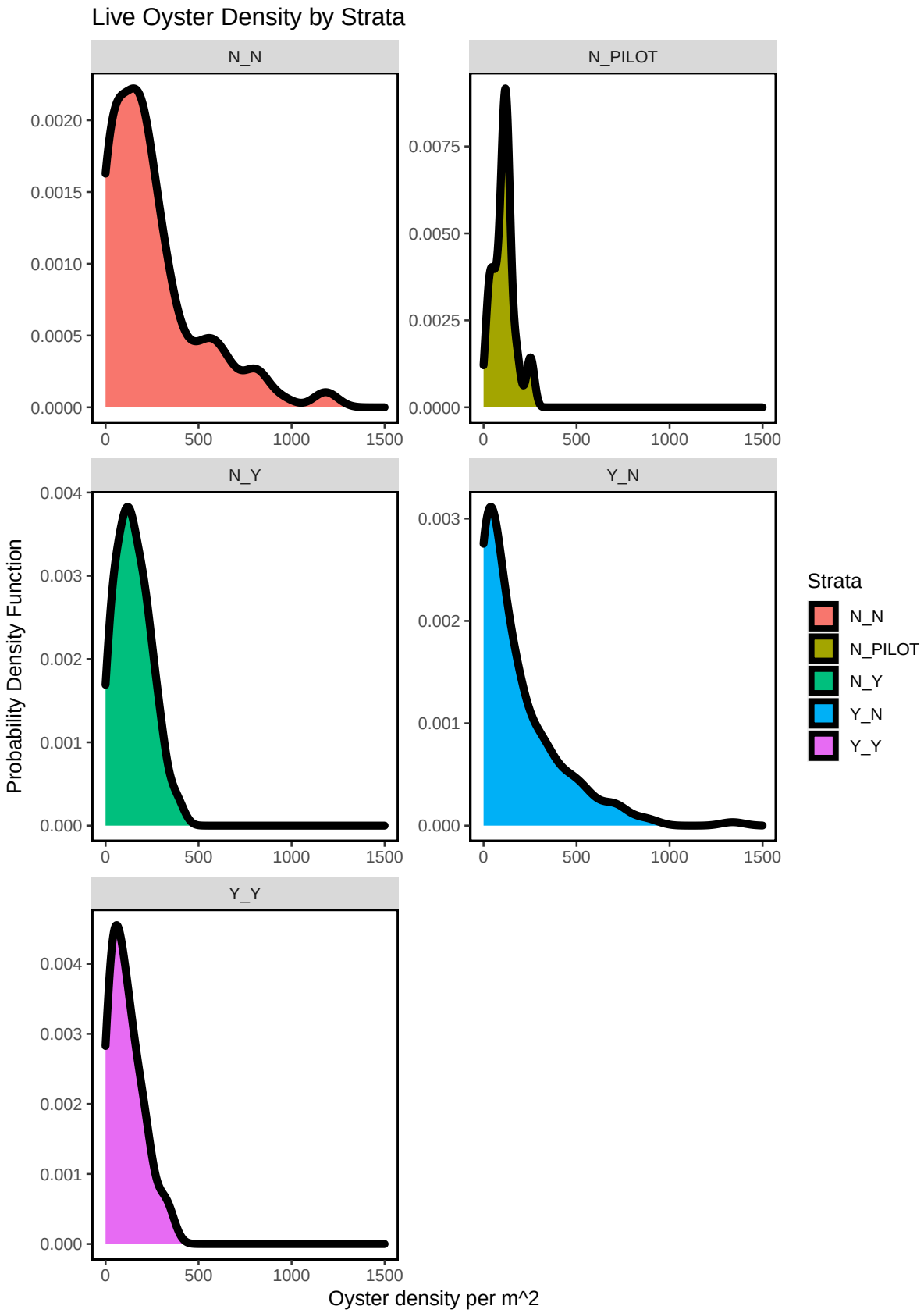
Summary Density Plots for all Periods



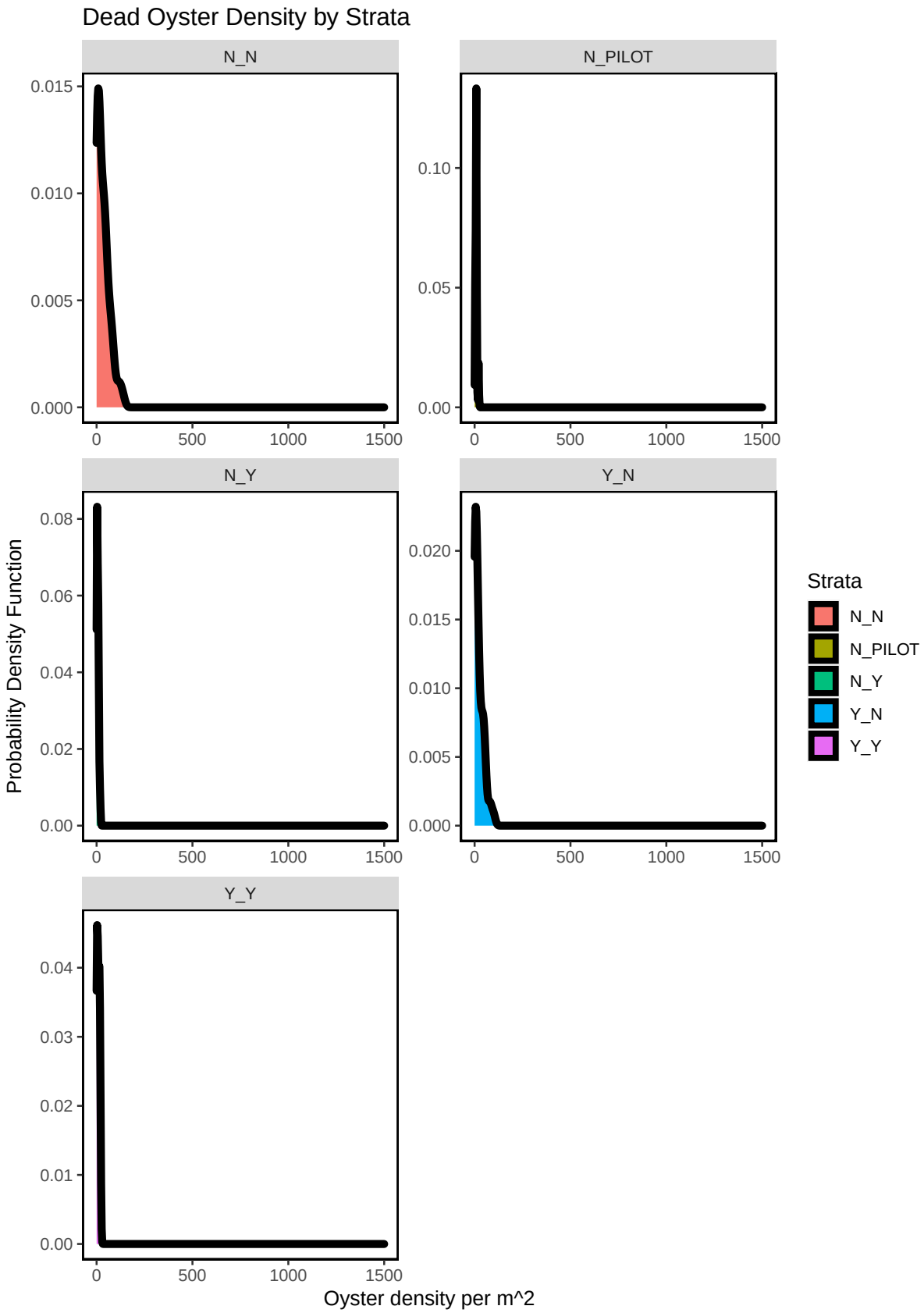
Figure− Calculated live oyster density by locality for all periods including period 22 (current period).



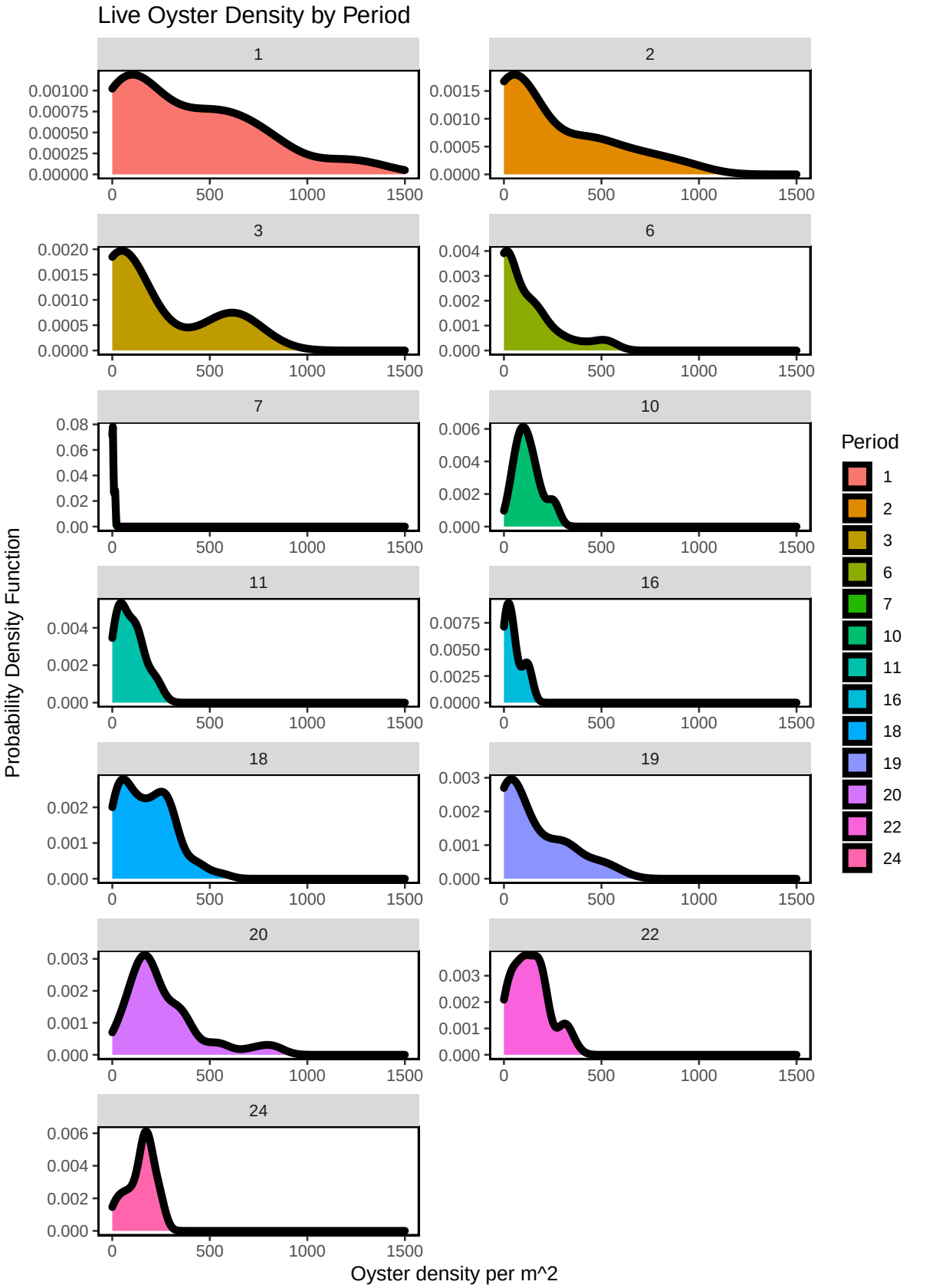
Figure− Calculated dead oyster density by locality for all periods including period 22 (current period).



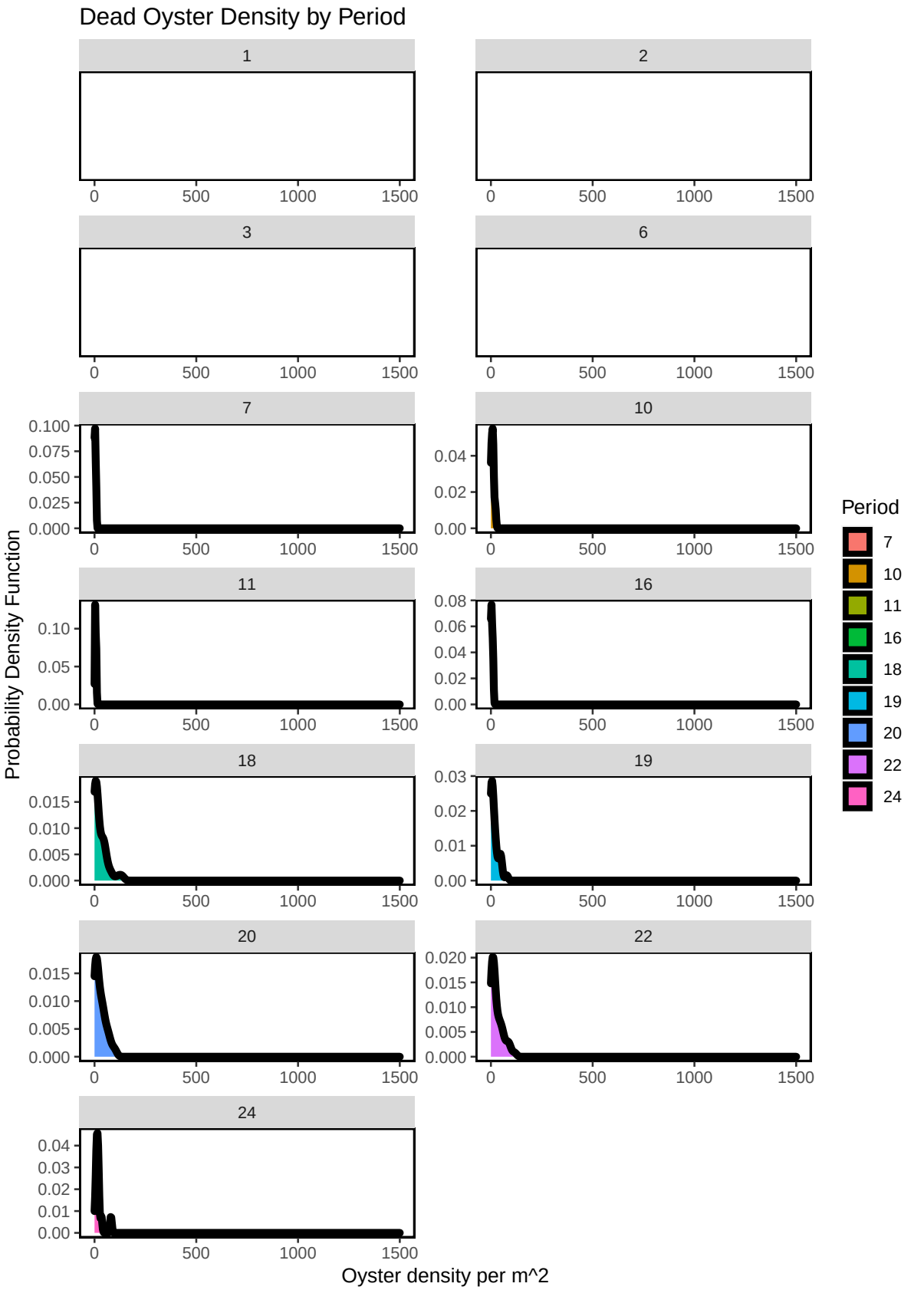
Figure− Calculated live oyster density by strata for all periods including period 22 (current period).



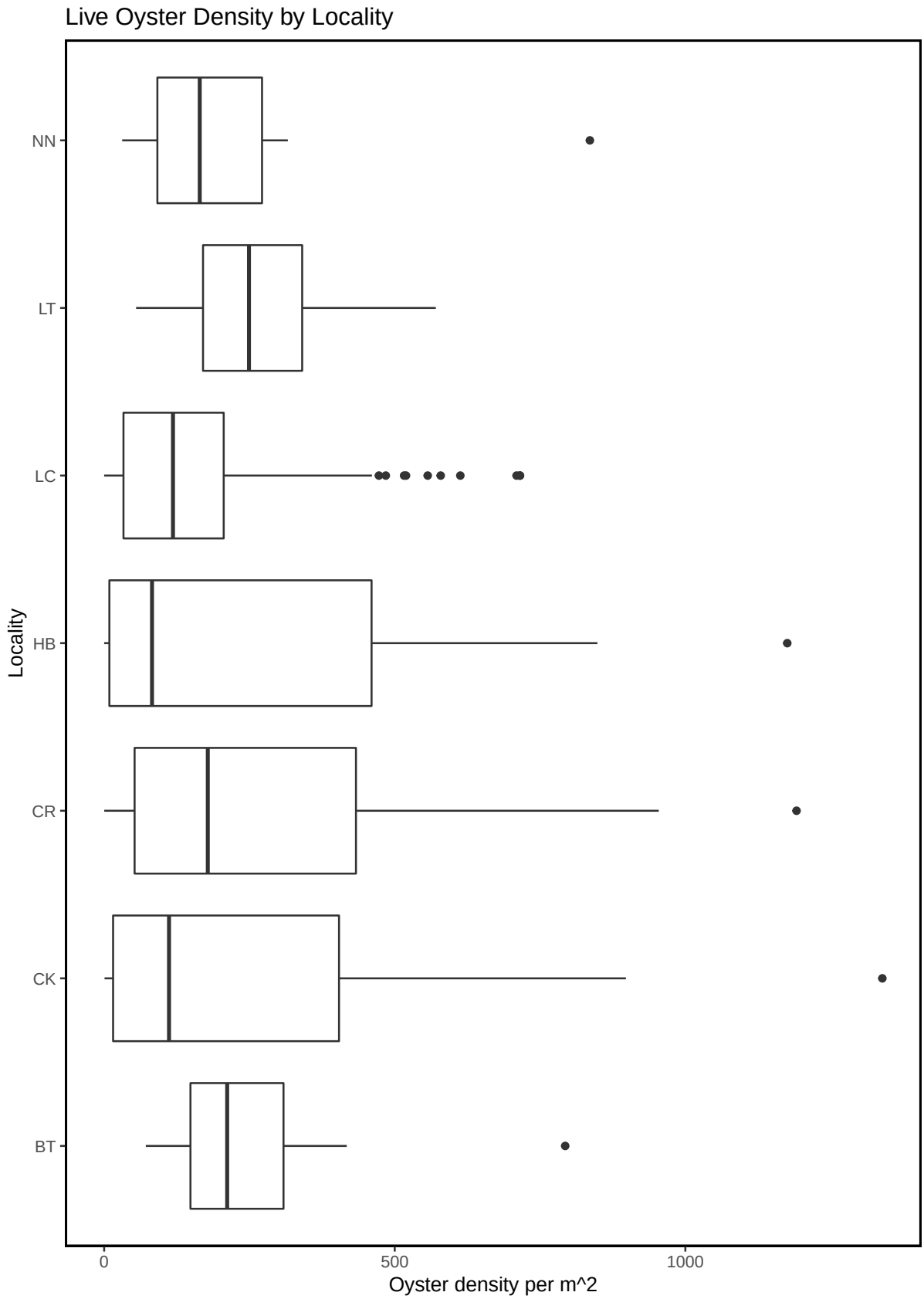
Figure− Calculated dead oyster density by strata for all periods including period 22 (current period).



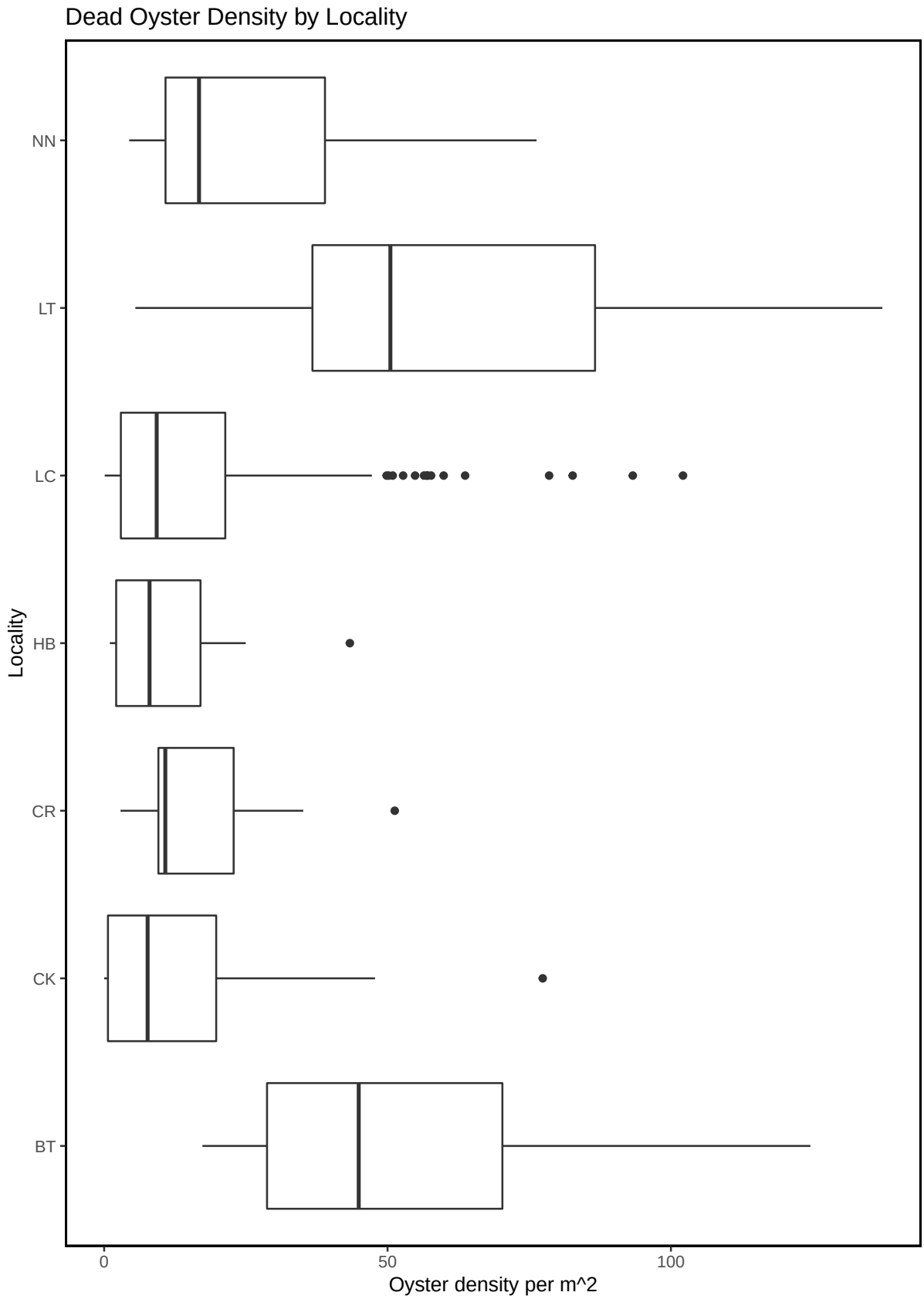
Figure− Calculated live oyster density for all periods including period 22 (current period) using a probability densit



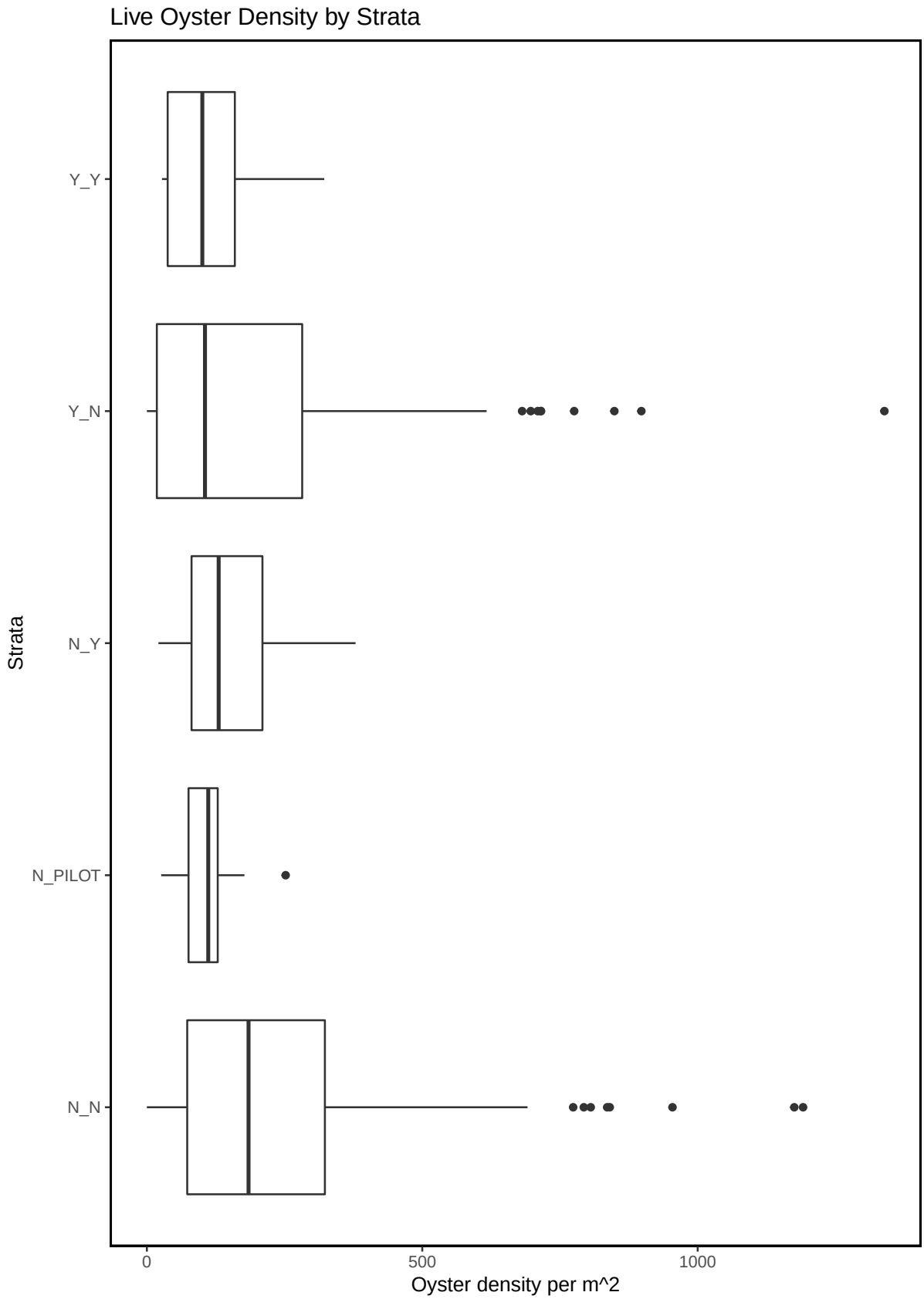
Figure− Calculated Dead oyster density for all periods including period 22 (current period) using a probability densit



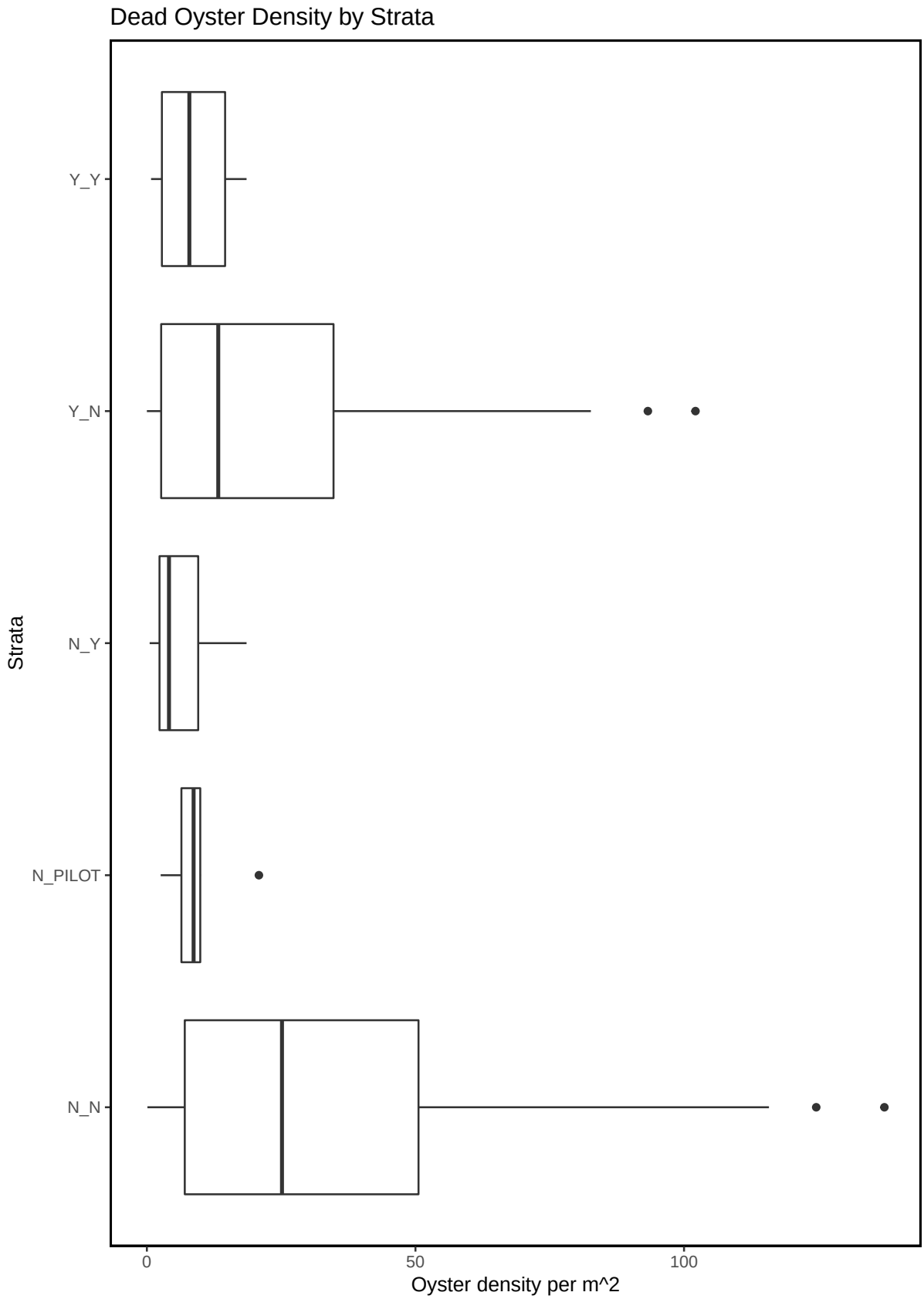
Figure− Box plot depicting live oyster density by locality for all periods including period 22 (current period).



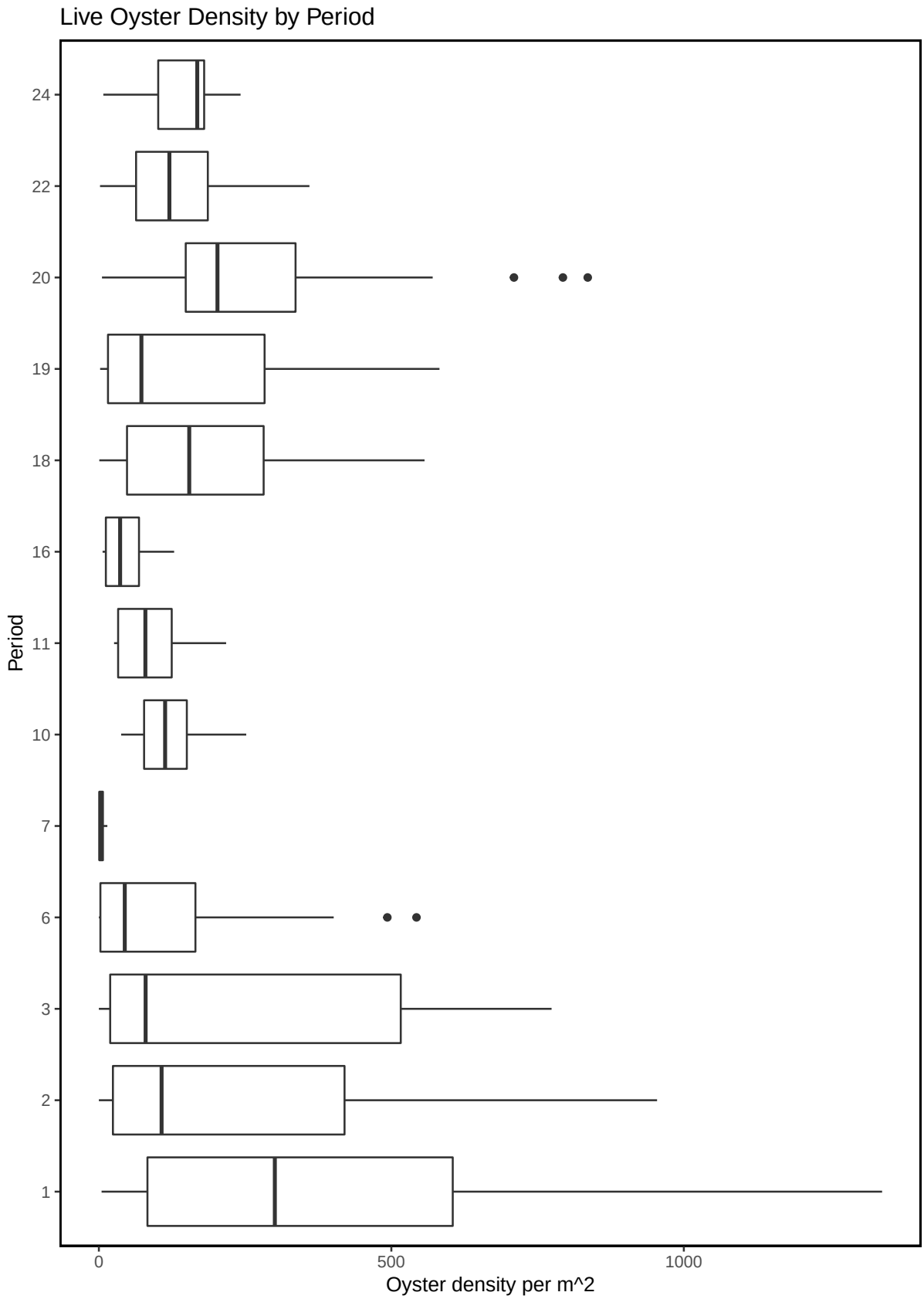
Figure− Box plot depicting dead oyster density by locality for all periods including period 22 (current period).



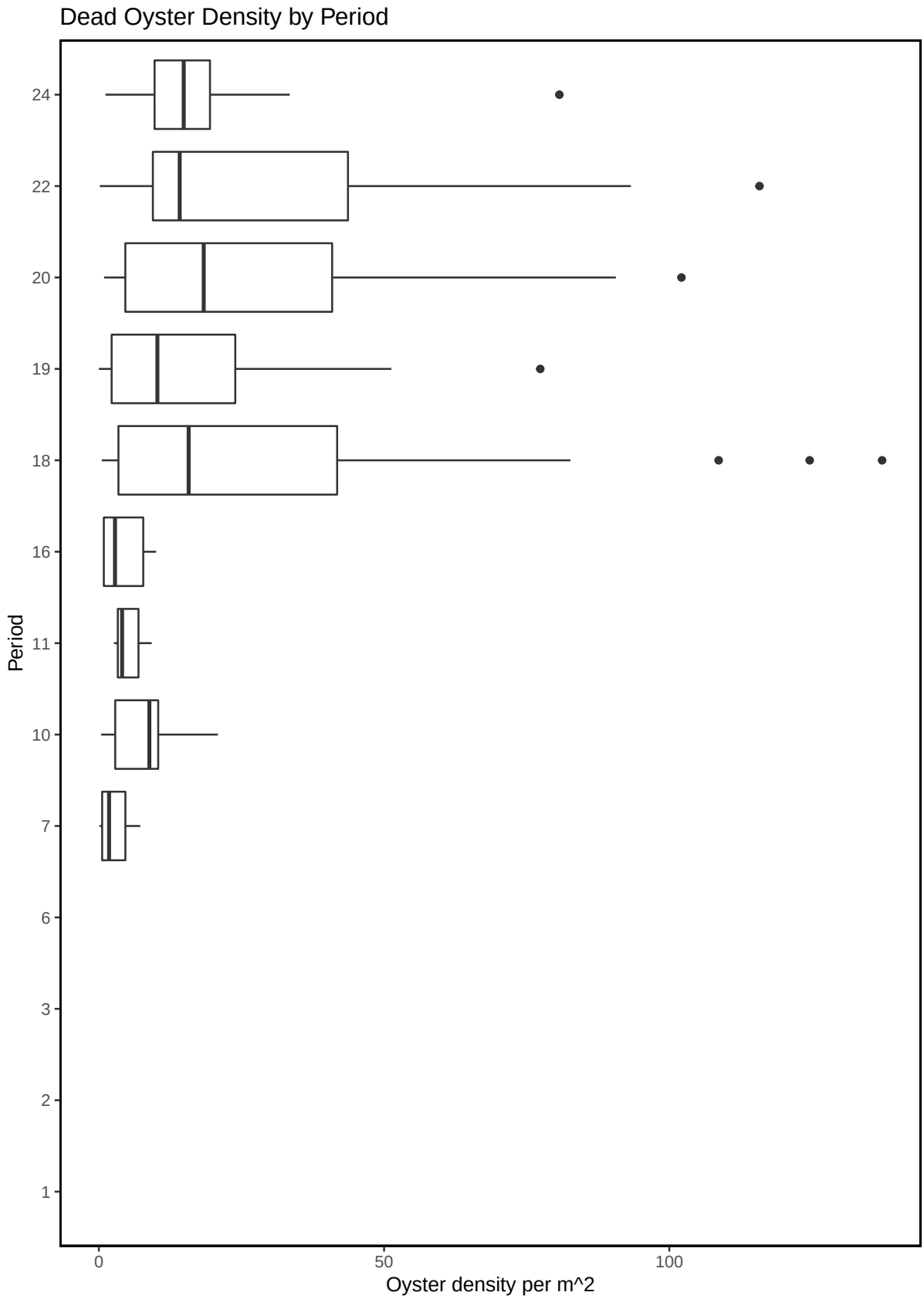
Figure− Box plot depicting live oyster density by strata for all periods including period 22 (current period).



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



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



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

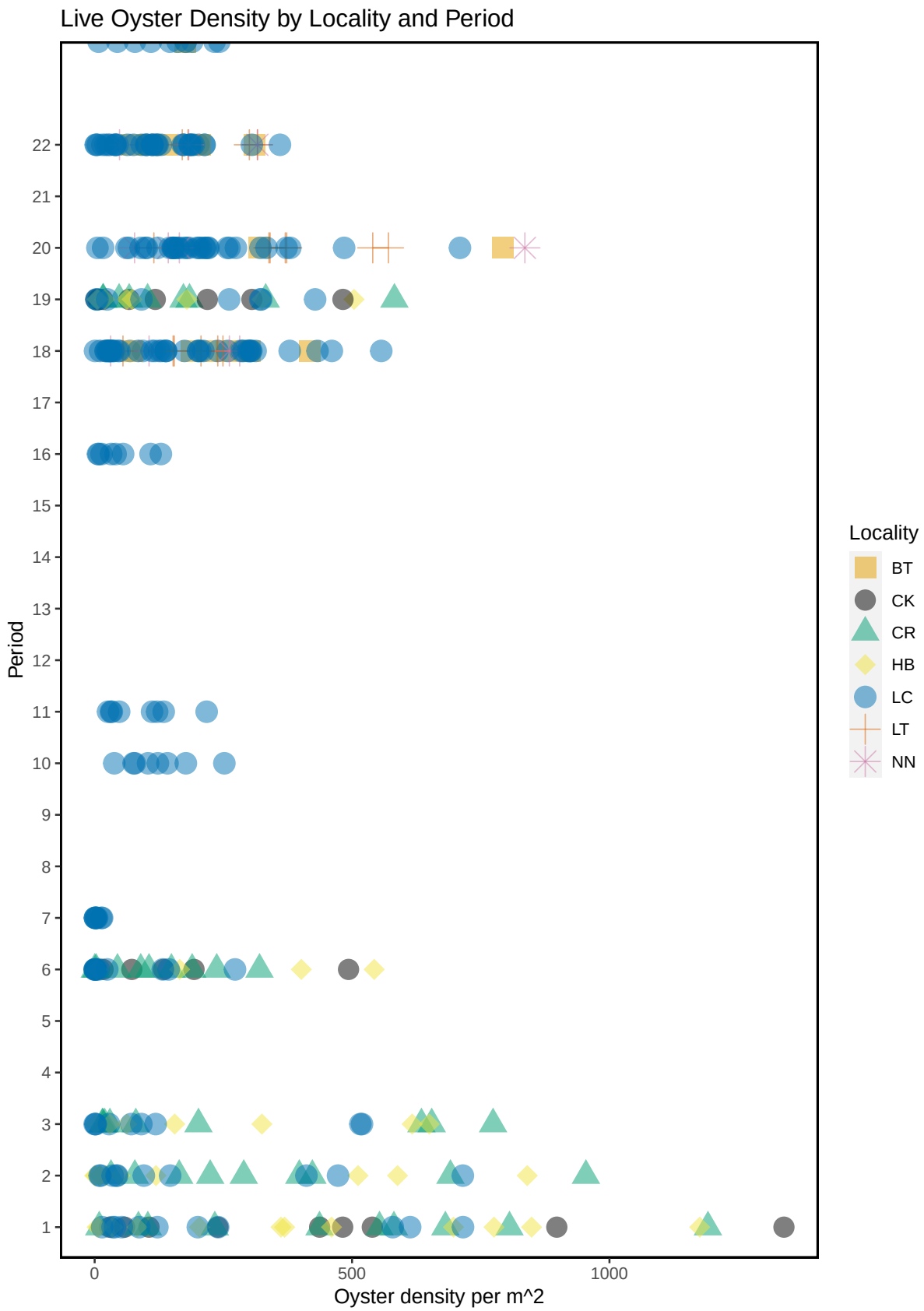


Figure − Live oyster density by locality and period for all periods including period 22 (current period).

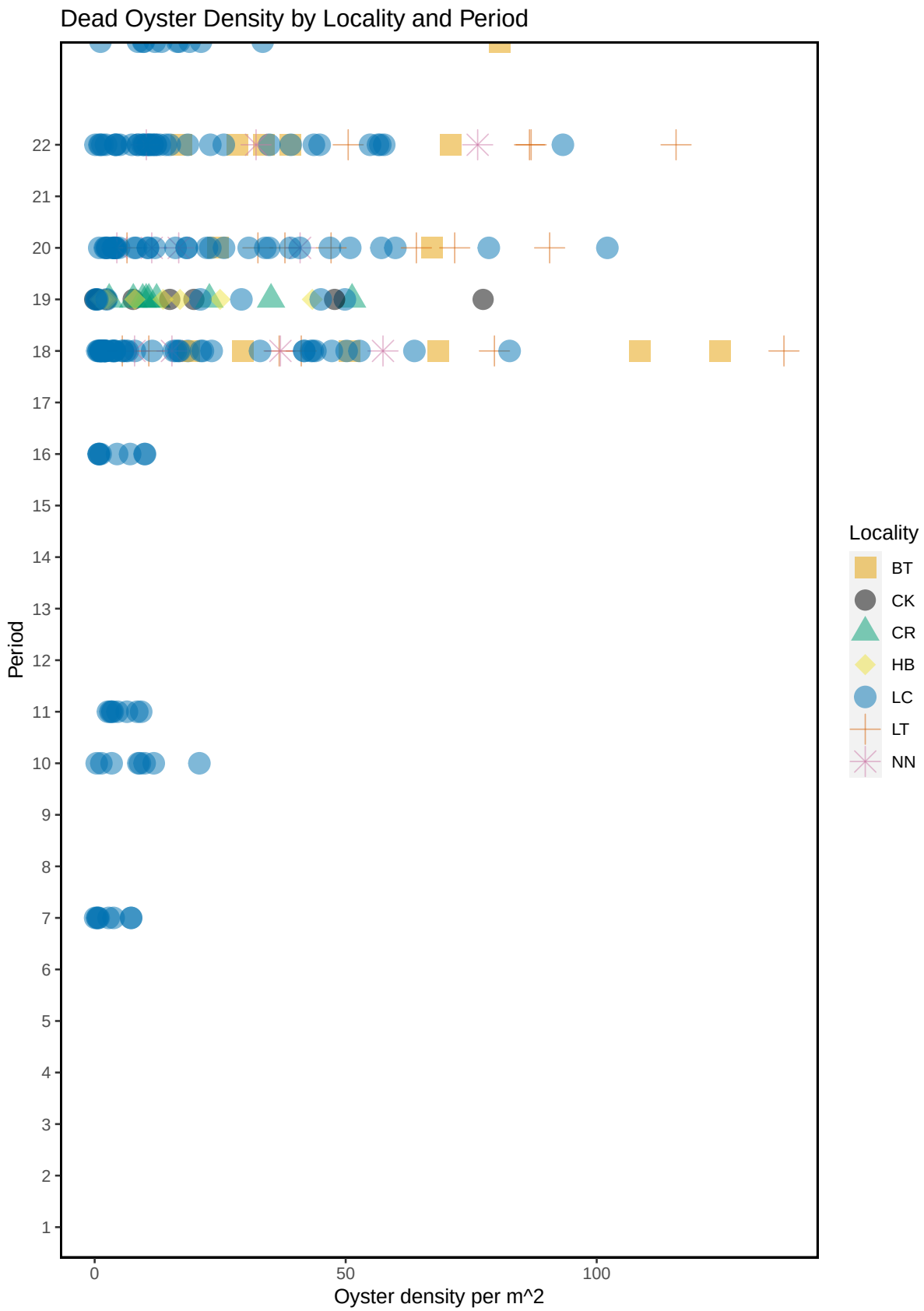


Figure − Dead oyster density by locality and period for all periods including period 22 (current period).

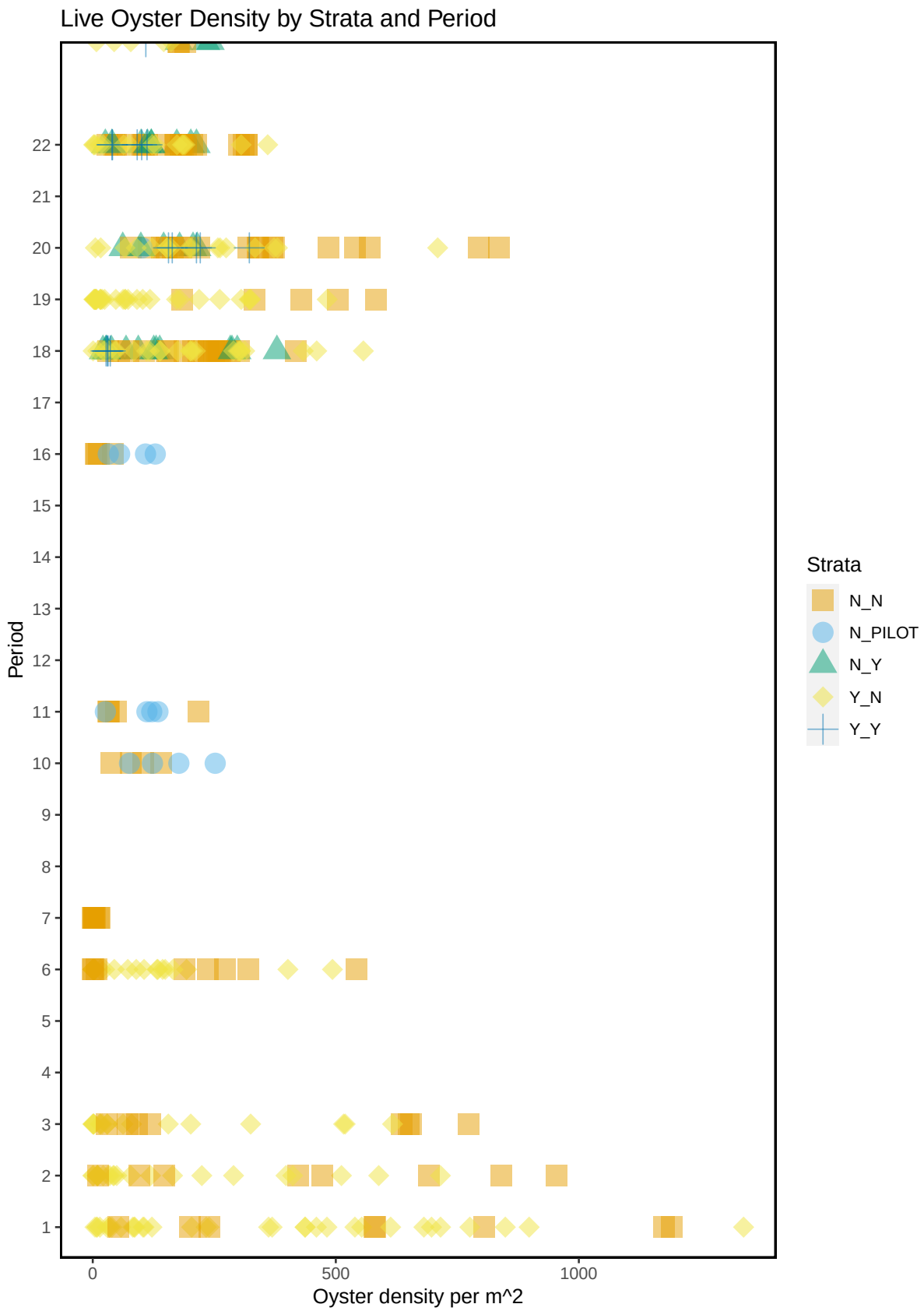


Figure − Live oyster density by strata and period for all periods including period 22 (current period).

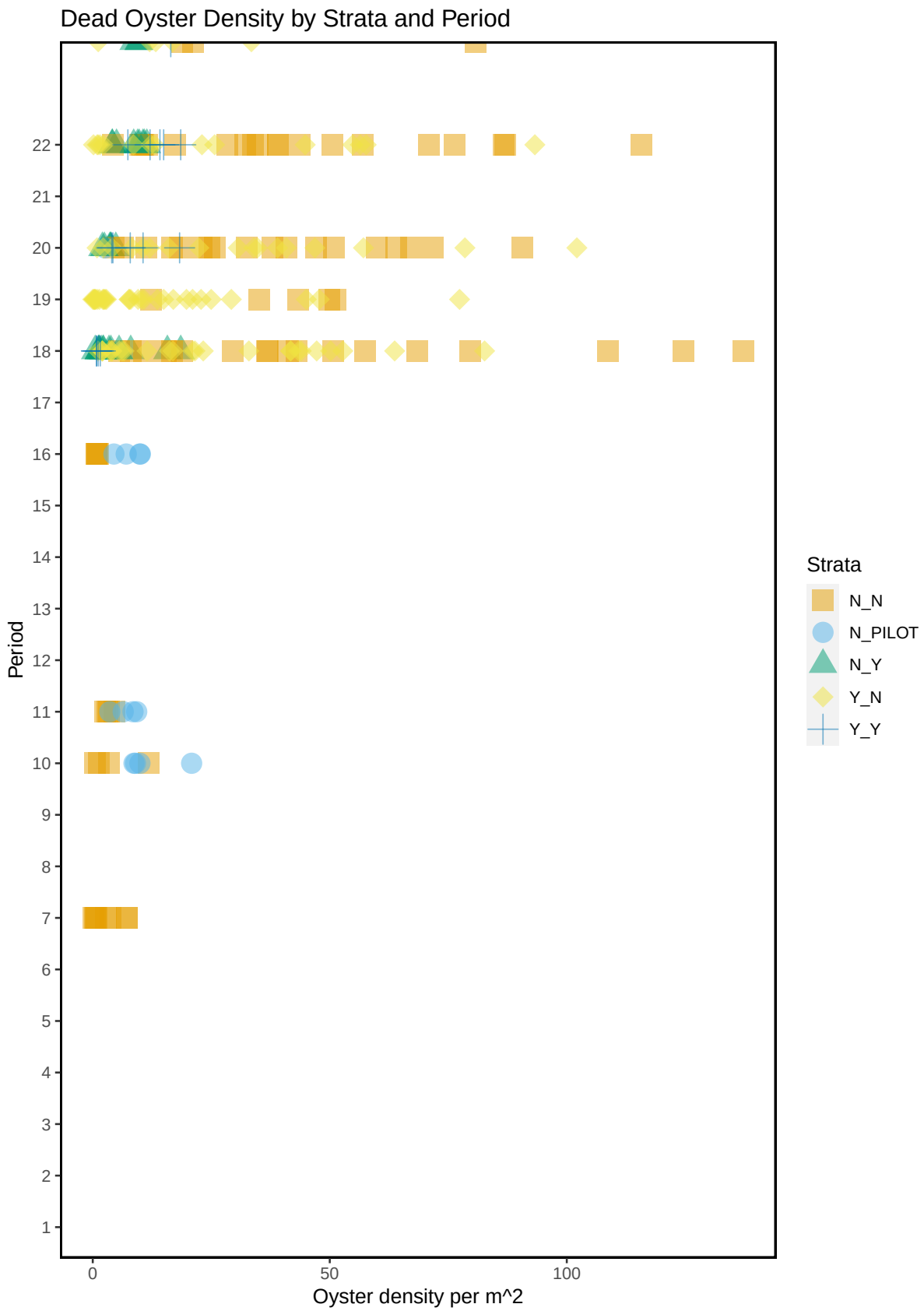


Figure − Dead oyster density by strata and period for all periods including period 22 (current period).

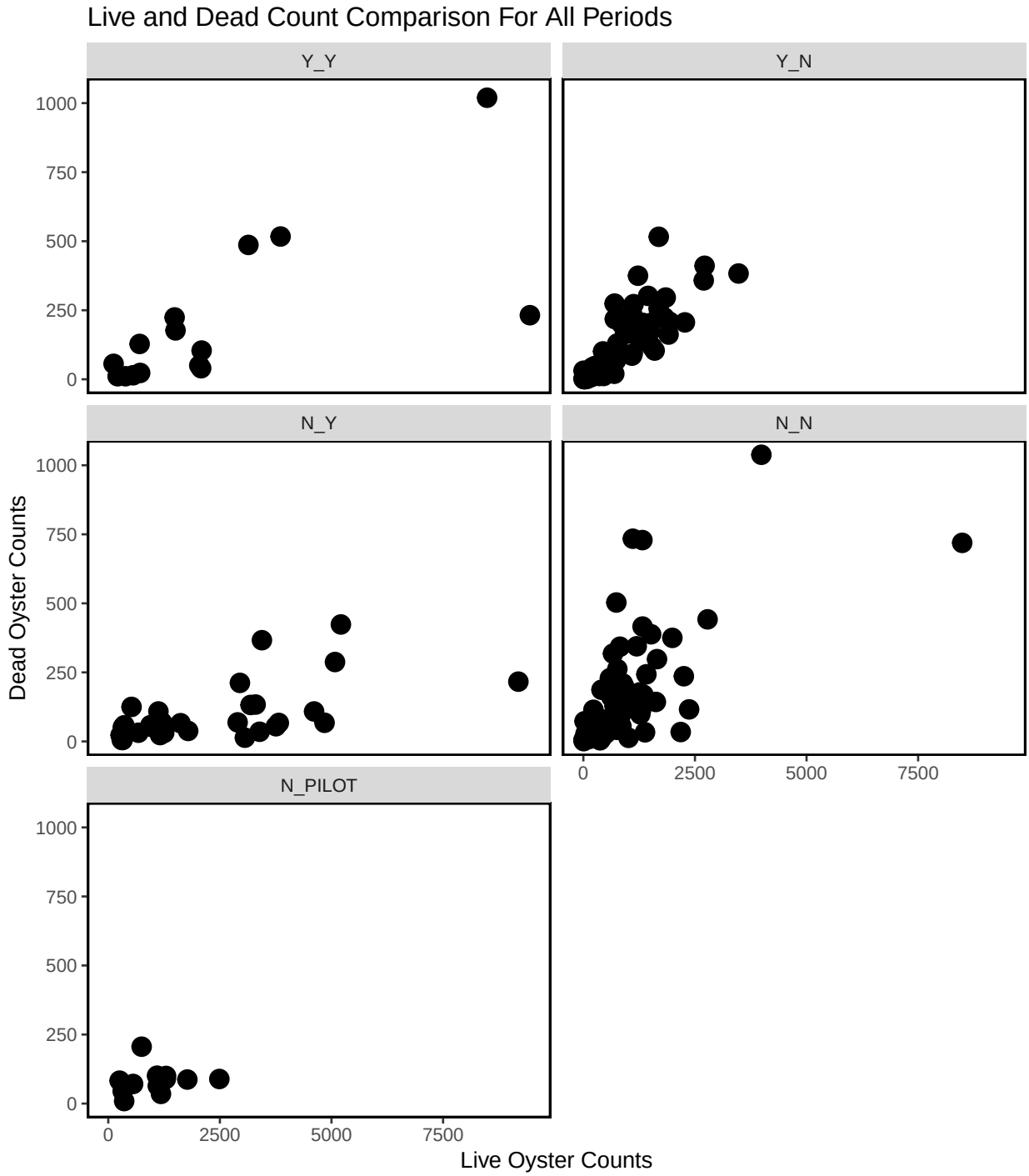


Figure- Live and dead oyster comparison for all periods, last sample date of period 24 is 2021-11-22.

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).

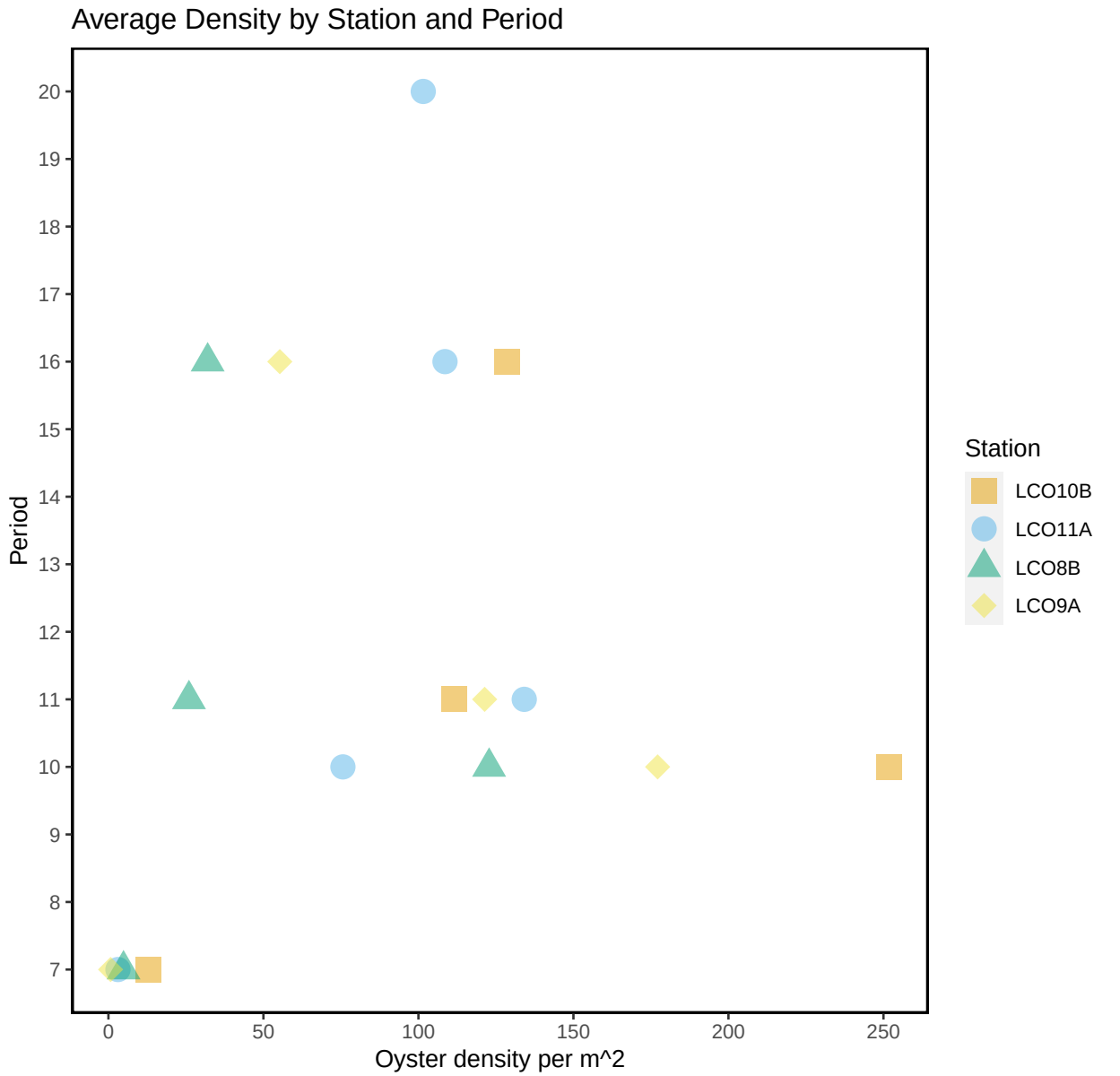


Figure − Average live oyster density comparison by station and period for all stations that were sampled during the pilc

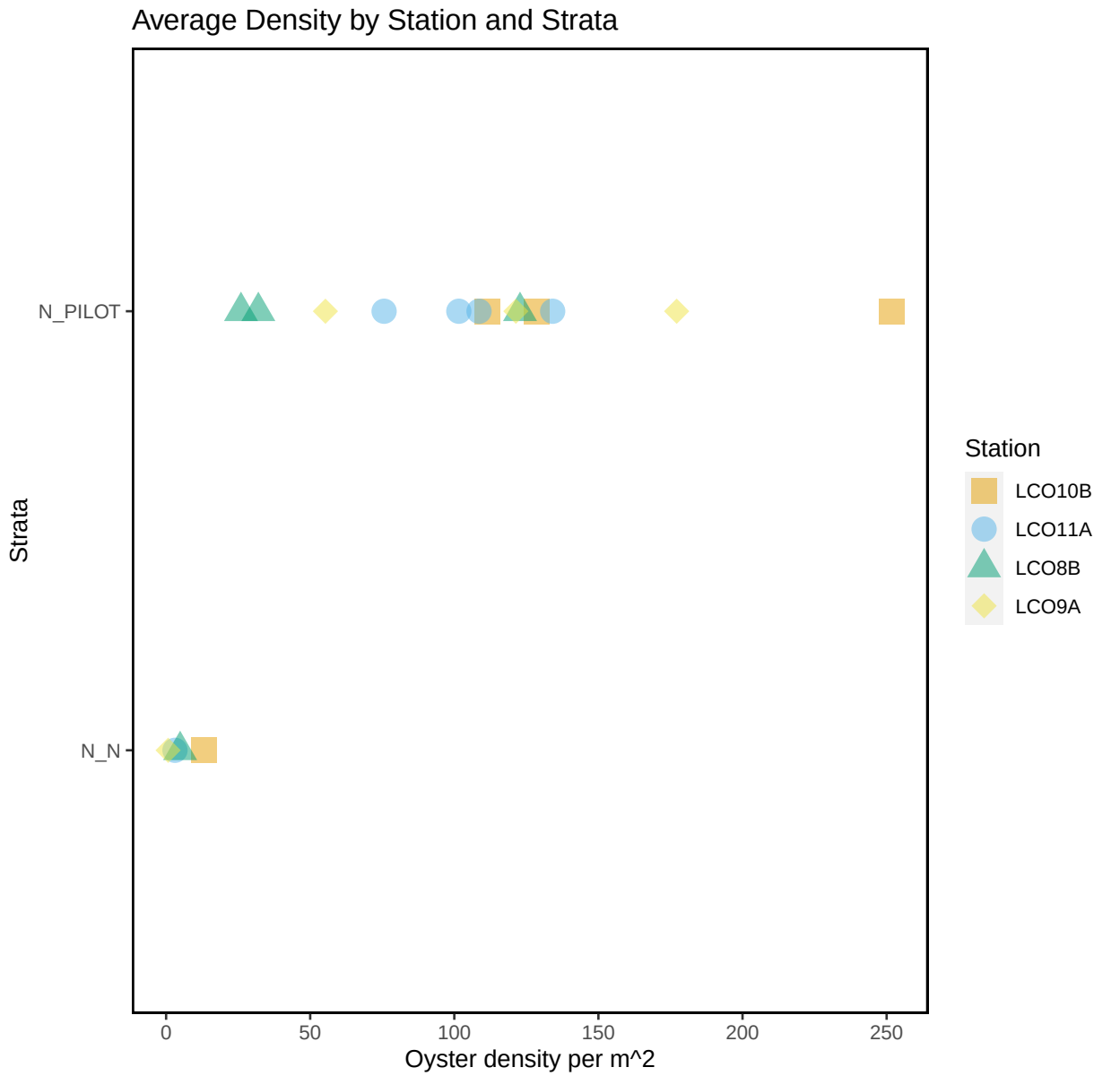


Figure − Average live oyster density comparison by station and strata for all stations that were sampled during th

Latest Data Entered

Displayed are the entries for the last date of sampling (2021-11-22).

date	station	tran_length	count_live	count_dead	treatment	strata
2021-11-22	LCO9C	2.5	66	5	rocks	N_Y
2021-11-22	LCO9C	5.0	123	7	rocks	N_Y
2021-11-22	LCO9C	7.5	94	5	rocks	N_Y
2021-11-22	LCO9C	10.0	90	3	rocks	N_Y
2021-11-22	LCO9C	12.5	93	2	rocks	N_Y
2021-11-22	LCO9C	15.0	107	2	rocks	N_Y
2021-11-22	LCO9C	17.5	71	2	rocks	N_Y
2021-11-22	LCO9C	20.0	50	1	rocks	N_Y
2021-11-22	LCO9C	22.0	52	0	rocks	N_Y
2021-11-22	LCO9C	2.5	53	0	rocks	N_Y
2021-11-22	LCO9C	5.0	77	2	rocks	N_Y
2021-11-22	LCO9C	7.5	145	5	rocks	N_Y
2021-11-22	LCO9C	10.0	140	3	rocks	N_Y
2021-11-22	LCO9C	12.5	85	2	rocks	N_Y
2021-11-22	LCO9C	15.0	115	3	rocks	N_Y
2021-11-22	LCO9C	17.5	82	1	rocks	N_Y
2021-11-22	LCO9C	20.0	41	8	rocks	N_Y
2021-11-22	LCO9C	22.3	55	5	rocks	N_Y
2021-11-22	LCO9C	2.5	147	12	rocks	N_Y
2021-11-22	LCO9C	5.0	72	4	rocks	N_Y
2021-11-22	LCO9C	7.5	151	6	rocks	N_Y
2021-11-22	LCO9C	10.0	95	2	rocks	N_Y
2021-11-22	LCO9C	12.5	196	6	rocks	N_Y
2021-11-22	LCO9C	15.0	79	4	rocks	N_Y
2021-11-22	LCO9C	17.5	101	9	rocks	N_Y
2021-11-22	LCO9C	20.0	83	7	rocks	N_Y
2021-11-22	LCO9C	22.5	148	8	rocks	N_Y
2021-11-22	LCO9C	2.5	36	0	rocks	N_Y
2021-11-22	LCO9C	5.0	49	2	rocks	N_Y
2021-11-22	LCO9C	7.5	46	1	rocks	N_Y
2021-11-22	LCO9C	10.0	48	0	rocks	N_Y
2021-11-22	LCO9C	12.5	54	0	rocks	N_Y
2021-11-22	LCO9C	15.0	54	1	rocks	N_Y
2021-11-22	LCO9C	17.5	80	2	rocks	N_Y
2021-11-22	LCO9C	20.0	79	5	rocks	N_Y
2021-11-22	LCO9C	22.5	102	5	rocks	N_Y
2021-11-22	LCO9C	23.0	28	2	rocks	N_Y