Transect Report

Overview

This report provides summary statistics and figures for ongoing transect sampling. The first section of the report focuses on the current sampling (Winter 2020-2021) and how the collected data compare to last year's sampling (Winter 2019-2020). So far 16 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, 109 days have been sampled over this entire project.

Definition of Localities

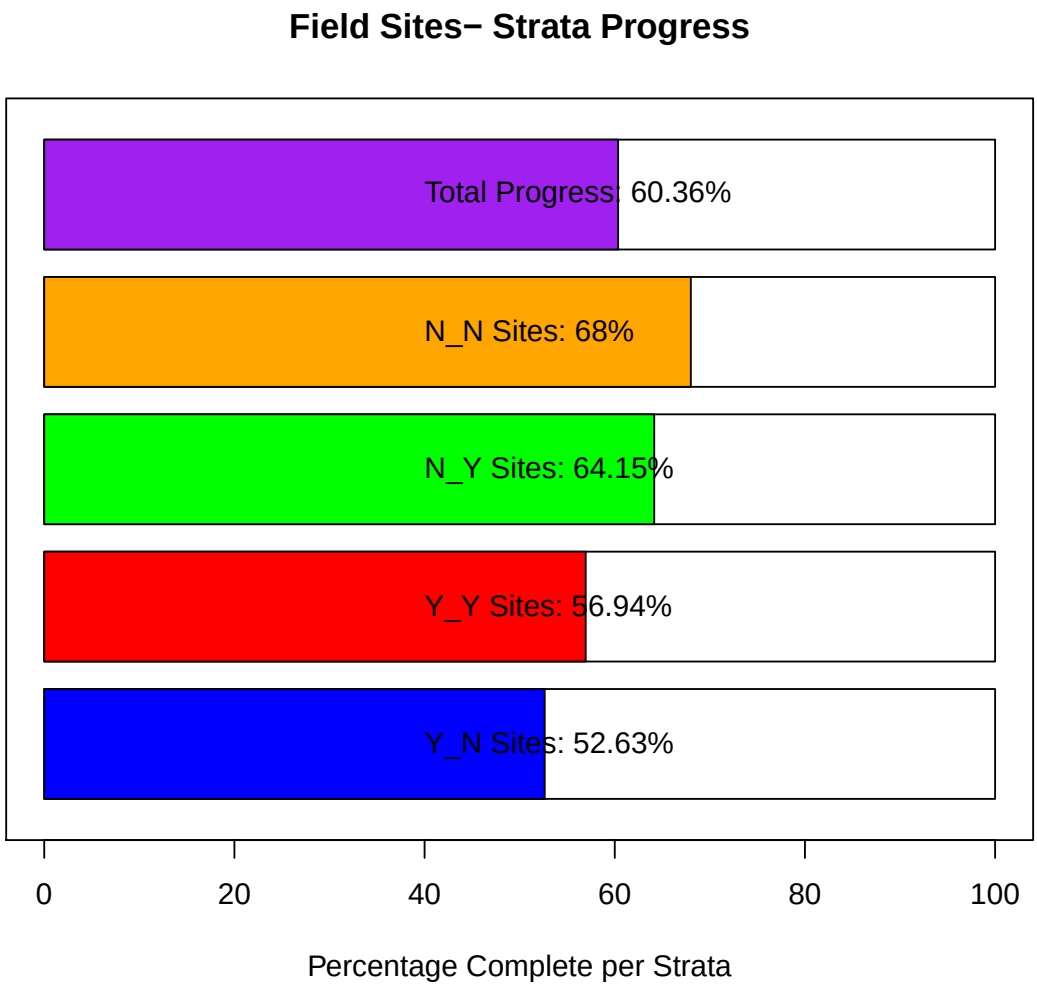
LOCALITY	LOCATION
BT	Big Trout
CK	Cedar Key
CR	Corrigan's Reef
HB	Horseshoe Beach
LC	Lone Cabbage
LT	Little Trout
NN	No Name

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 22, and last year's sampling period is period 20.**



Summary Tables for Periods 18, 20 and 22

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

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 and 22

Live Oyster Counts by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	1691	856	2355	5547854	1.39	680	359	3024	1642	691	3065
LC	1417	907	1630	2656516	1.15	157	1109	1724	1414	1130	1731
LT	1054	877	645	416505	0.61	167	728	1381	1053	765	1428
NN	720	649	644	414522	0.89	204	321	1119	727	412	1141

Live Oyster Counts by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	1096	766	1264	1598540	1.15	175	752	1440	1093	814	1464
N_PILOT	356	356	NA	NA	NA	NA	NA	NA	179	13	348
N_Y	2364	1619	2201	4846019	0.93	440	1501	3227	2359	1536	3255
Y_N	889	698	793	629003	0.89	110	673	1104	891	688	1115
Y_Y	2242	2039	2376	5645351	1.06	613	1039	3444	2248	1252	3596

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	991	779	1233
20	1844	1253	2125	4517189	1.15	310	1236	2451	1840	1332	2559
22	1344	700	1509	2278098	1.12	248	857	1830	1338	907	1842

Live Density by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	257	212	198	39335	0.77	57	145	370	257	169	379
LC	171	154	126	15992	0.74	12	147	195	171	149	194
LT	274	239	152	23145	0.56	39	197	351	274	201	345
NN	215	154	234	54714	1.09	74	70	360	214	108	361

Live Density by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	233	190	170	28981	0.73	24	187	279	233	191	286
N_PILOT	102	102	NA	NA	NA	NA	NA	NA	51	3	99
N_Y	150	138	98	9545	0.65	20	112	189	150	115	189
Y_N	193	179	150	22356	0.78	21	152	233	193	152	235

Y_Y	122	112	87	7615	0.71	23	78	167	123	83	167

Live Density by Period

Period	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
18	177	155	131	17117	0.74	17	144	210	177	146	210
20	258	203	188	35185	0.73	27	204	312	258	207	314
22	132	127	68	4683	0.52	11	110	154	133	111	155

Summary of Dead Counts for Periods 18, 20 and 22

Dead Oyster Counts by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	325	169	328	107312	1.01	95	140	510	328	166	520
LC	124	70	126	15901	1.01	12	101	148	124	101	148
LT	240	210	202	40850	0.84	52	137	342	237	148	336
NN	100	68	100	10018	1.00	32	38	162	102	52	167

Dead Oyster Counts by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	207	125	215	46152	1.04	30	148	265	205.4	154	266
N_PILOT	9	9	NA	NA	NA	NA	NA	NA	4.9	1	9
N_Y	79	55	95	9095	1.21	19	41	116	78.4	47	117
Y_N	132	87	128	16256	0.97	18	97	166	132.2	98	165
Y_Y	157	104	168	28145	1.07	43	73	242	155.5	79	244

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	134	92	186
20	148	107	140	19727	0.95	20	108	188	148	112	189
22	185	108	162	26173	0.87	27	133	237	186	138	238

Dead Oyster Density by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	54	42	35	1250	0.66	10.2	34	74	53	35	74
LC	20	11	22	489	1.09	2.1	16	24	20	16	24
LT	58	47	40	1570	0.68	10.2	38	78	58	40	80
NN	28	16	26	668	0.91	8.2	12	45	29	15	46

Dead Oyster Density by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	43.3	36.9	33.1	1097	0.77	4.59	34.3	52	43.2	34.2	52.5
N_PILOT	2.6	2.6	NA	NA	NA	NA	NA	NA	1.5	1.0	2.0
N_Y	5.2	3.8	4.5	21	0.87	0.91	3.4	7	5.2	3.6	7.1
Y_N	28.4	22.0	25.7	662	0.91	3.57	21.4	35	28.4	22.0	35.4
Y_Y	8.8	8.6	6.6	43	0.75	1.70	5.5	12	8.7	5.6	11.9

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	19	34	26	19	34
20	28	18	26	698	0.95	3.9	20	35	28	21	36
22	29	15	29	862	1.02	4.8	19	38	29	21	39

Summary Plots for Periods 18, 20 and 22

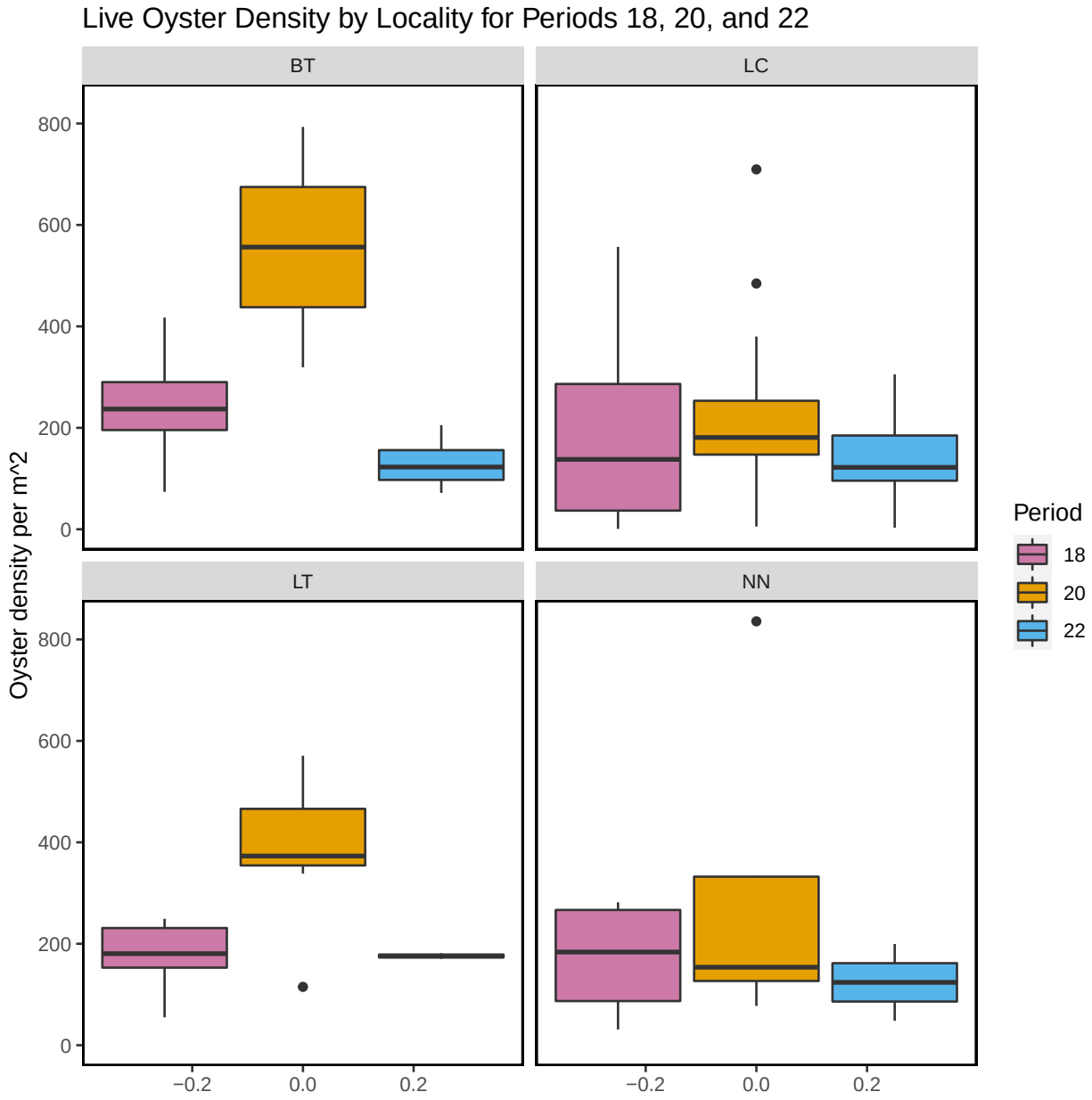


Figure- Calculated live oyster density by locality for periods 18 (Winter 2018-2019), 20 (Winter 2019-2020) and 22 (Winter 2020-2021) with the last sample date of period 22 as 2021-01-15.

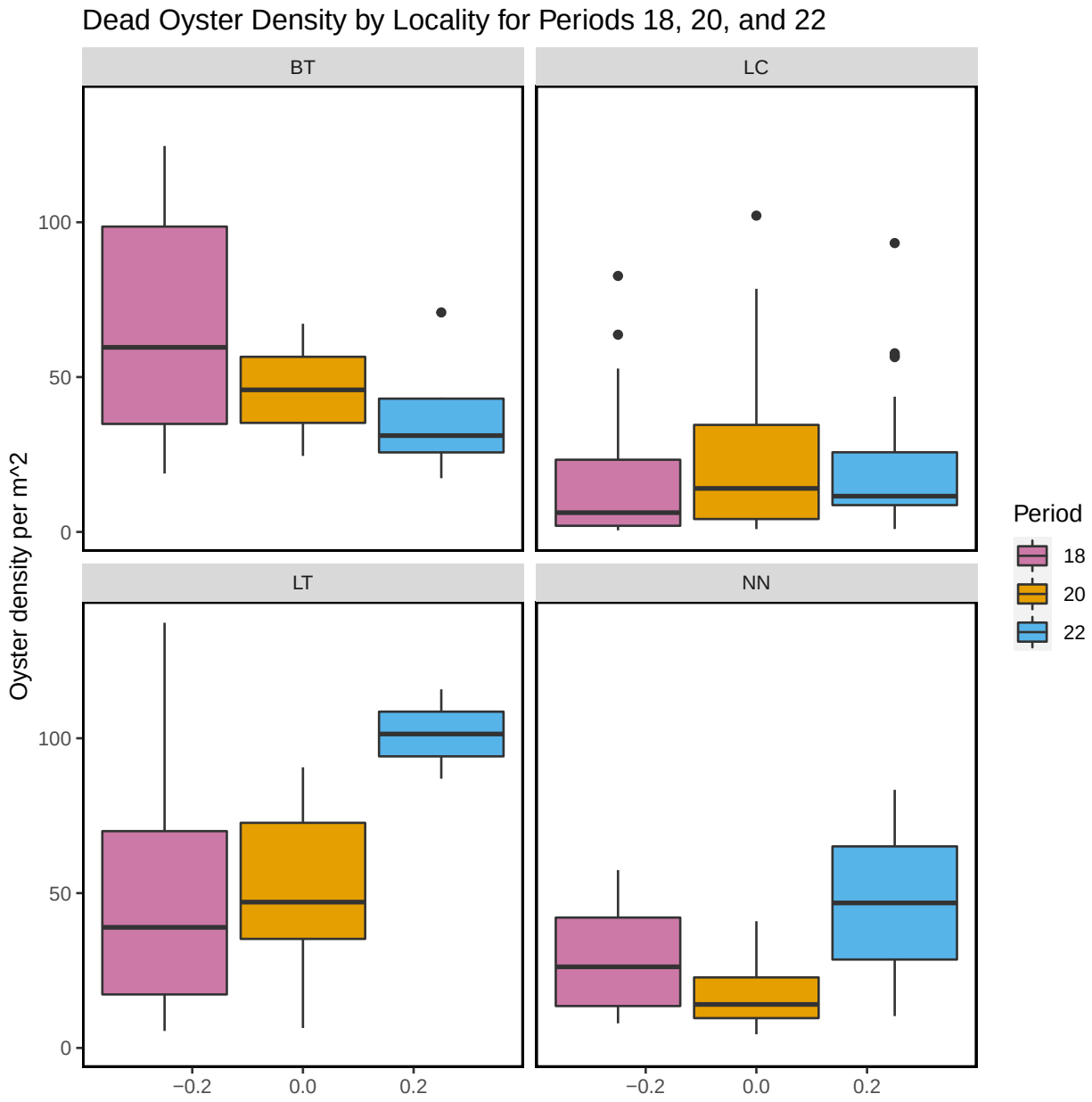


Figure- Calculated dead oyster density by locality for periods 18 (Winter 2018-2019), 20 (Winter 2019-2020) and 22 (Winter 2020-2021) with the last sample date of period 22 as 2021-01-15.

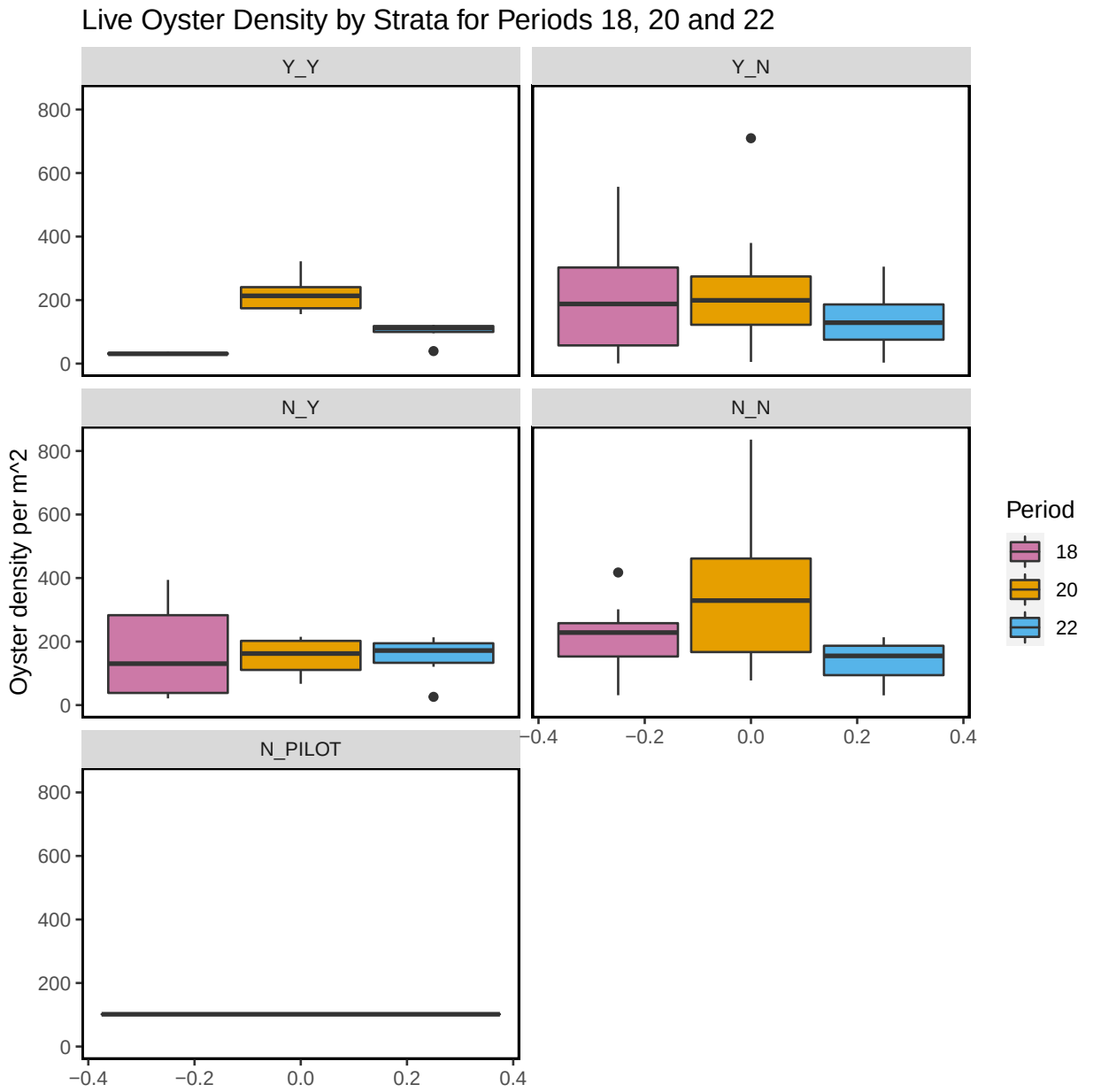


Figure- Calculated live oyster density by strata for periods 18 (Winter 2018-2019), 20 (Winter 2019-2020) and 22 (Winter 2020-2021) with the last sample date of period 22 as 2021-01-15.

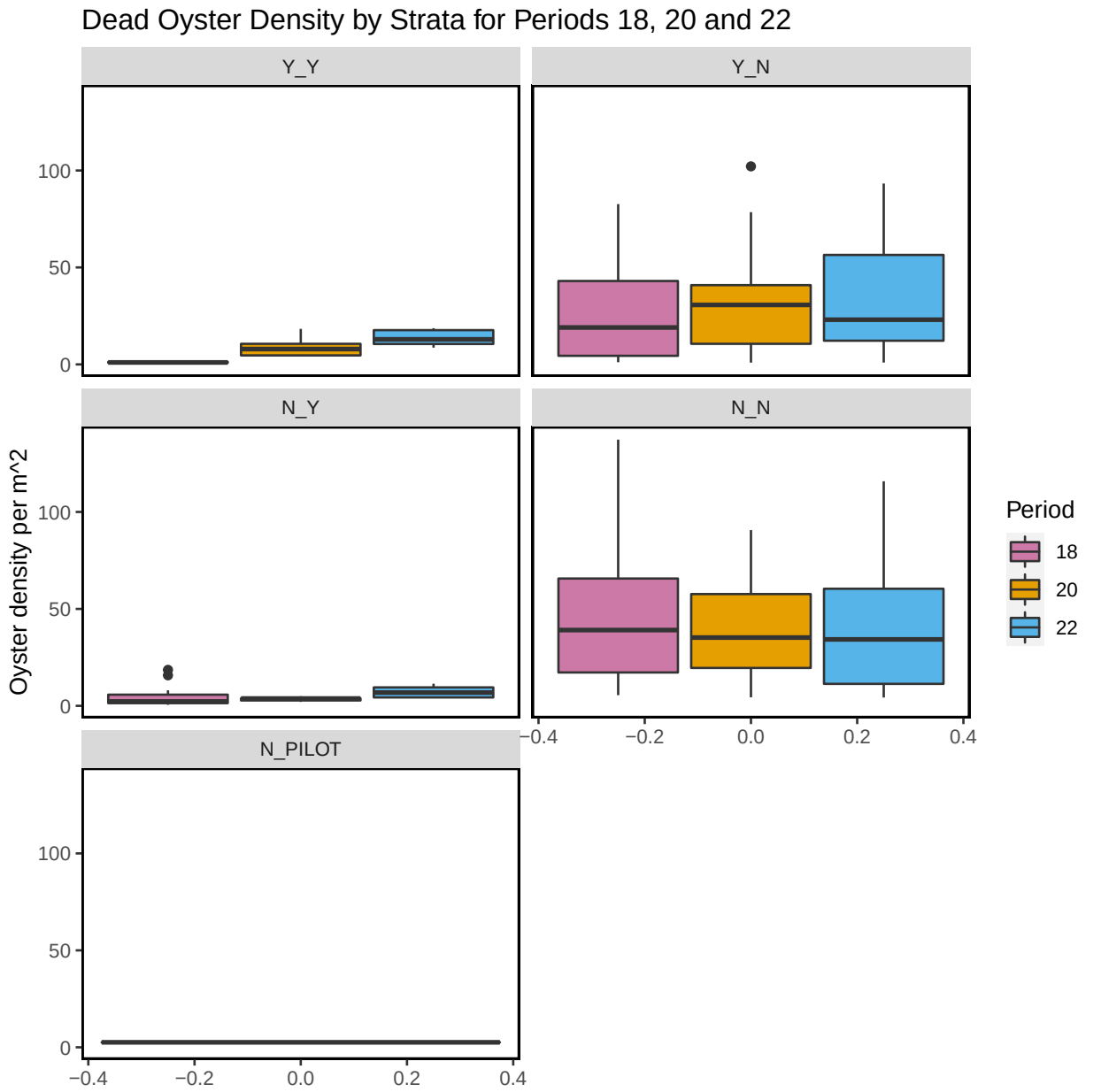


Figure- Calculated dead oyster density by strata for periods 18 (Winter 2018-2019), 20 (Winter 2019-2020) and 22 (Winter 2020-2021) with the last sample date of period 22 as 2021-01-15.

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.

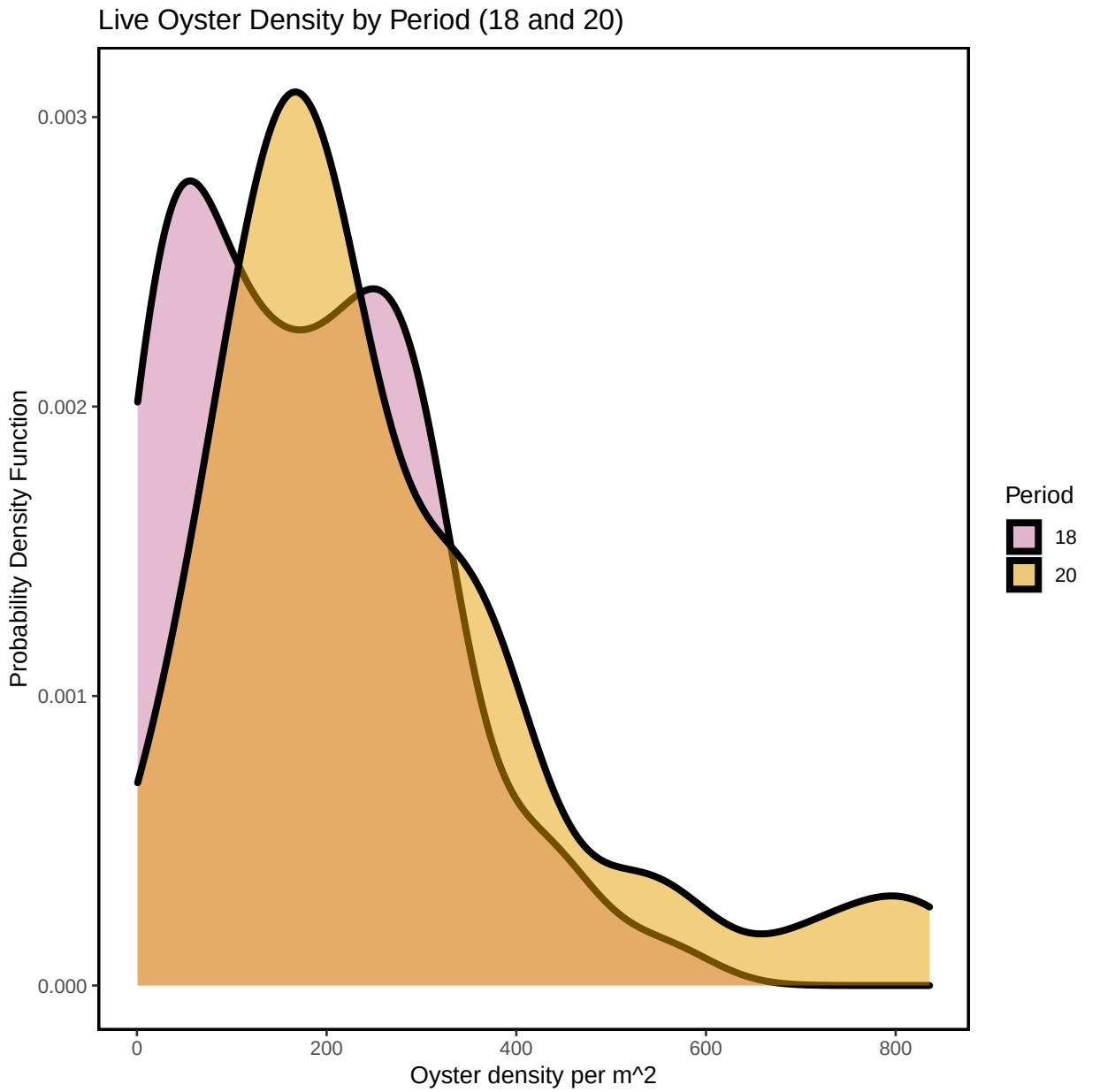


Figure- Calculated live oyster density by periods 18 (Winter 2018-2019) and 20 (Winter 2019-2020) using a probability density function with the last sample date of period 22 as 2021-01-15.

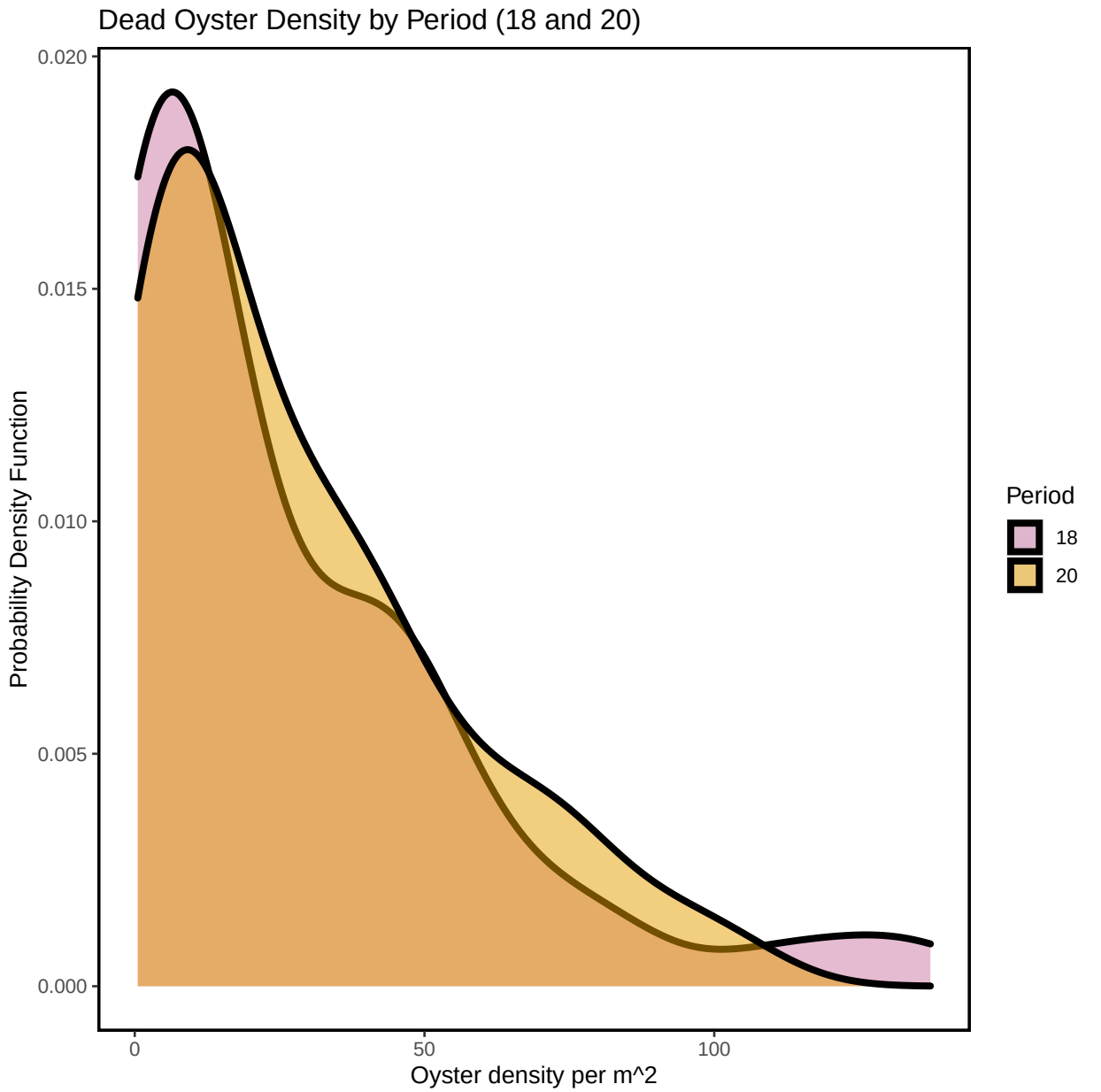


Figure- Calculated dead oyster density by periods 18 (Winter 2018-2019) and 20 (Winter 2019-2020) using a probability density function with the last sample date of period 22 as 2021-01-15.

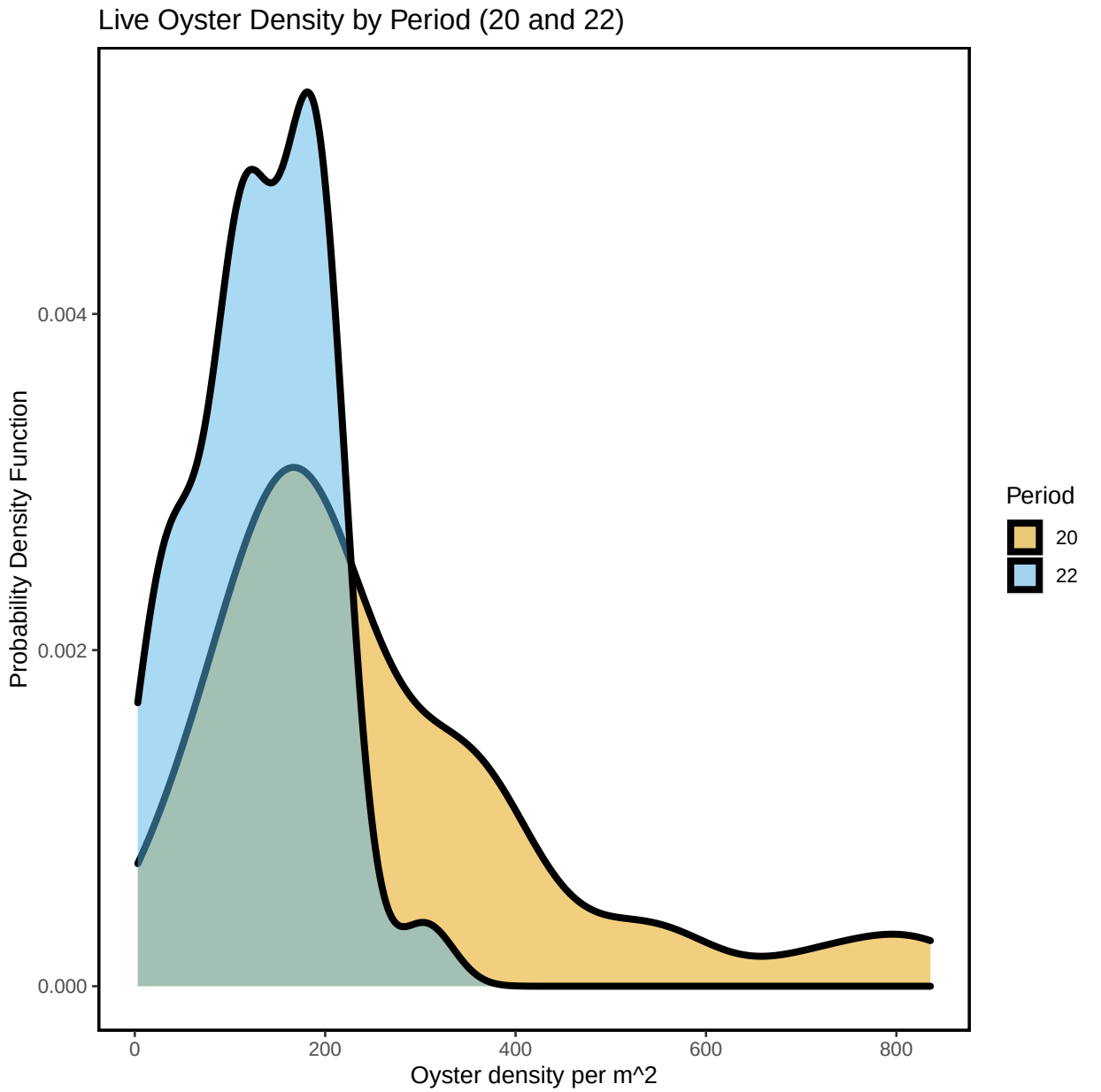


Figure- Calculated live oyster density by periods 20 (Winter 2019-2020) and 22 (Winter 2020-2021) using a probability density function with the last sample date of period 22 as 2021-01-15.

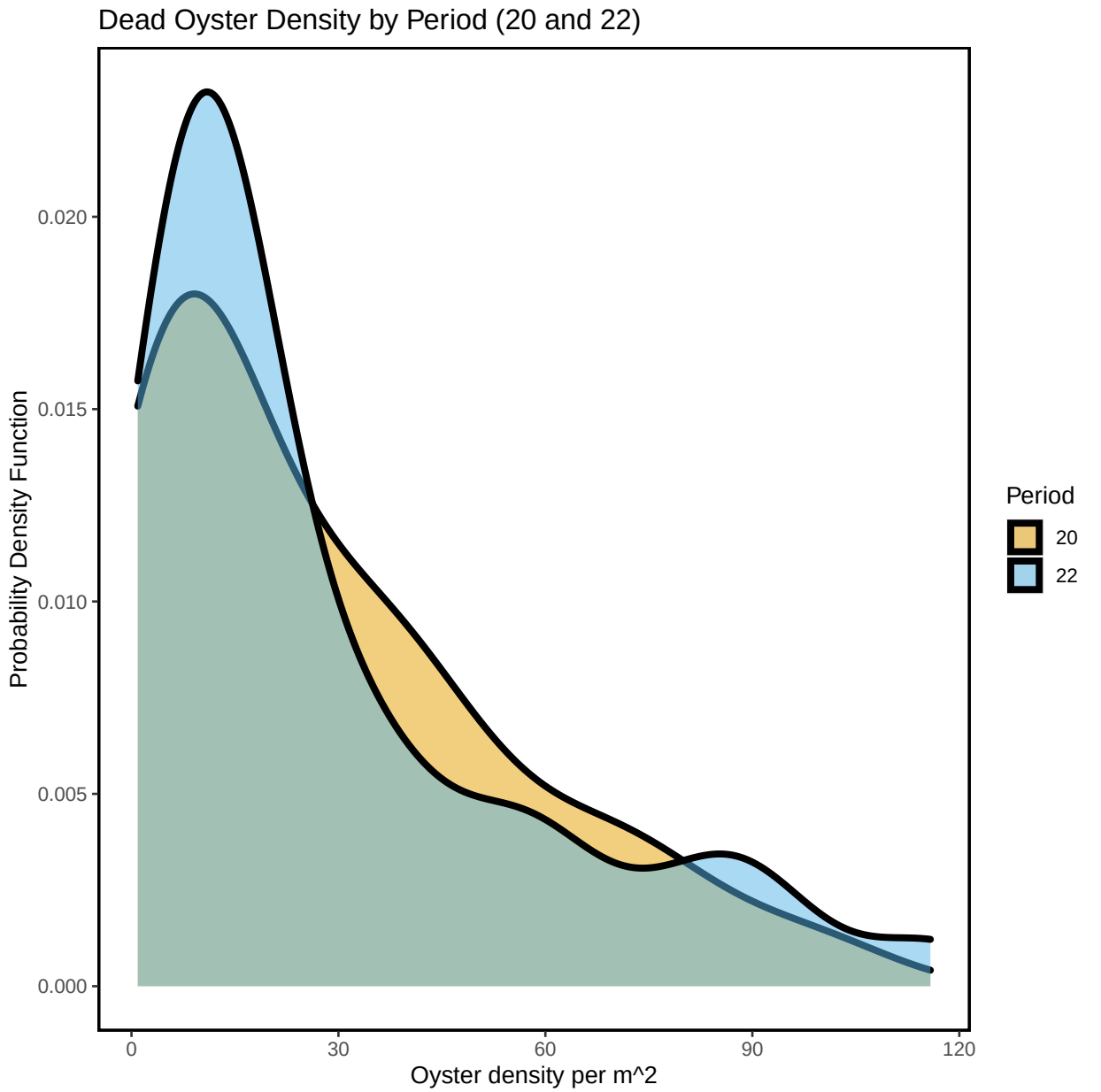


Figure- Calculated dead oyster density by periods 20 (Winter 2019-2020) and 22 (Winter 2020-2021) using a probability density function with the last sample date of period 22 as 2021-01-15.

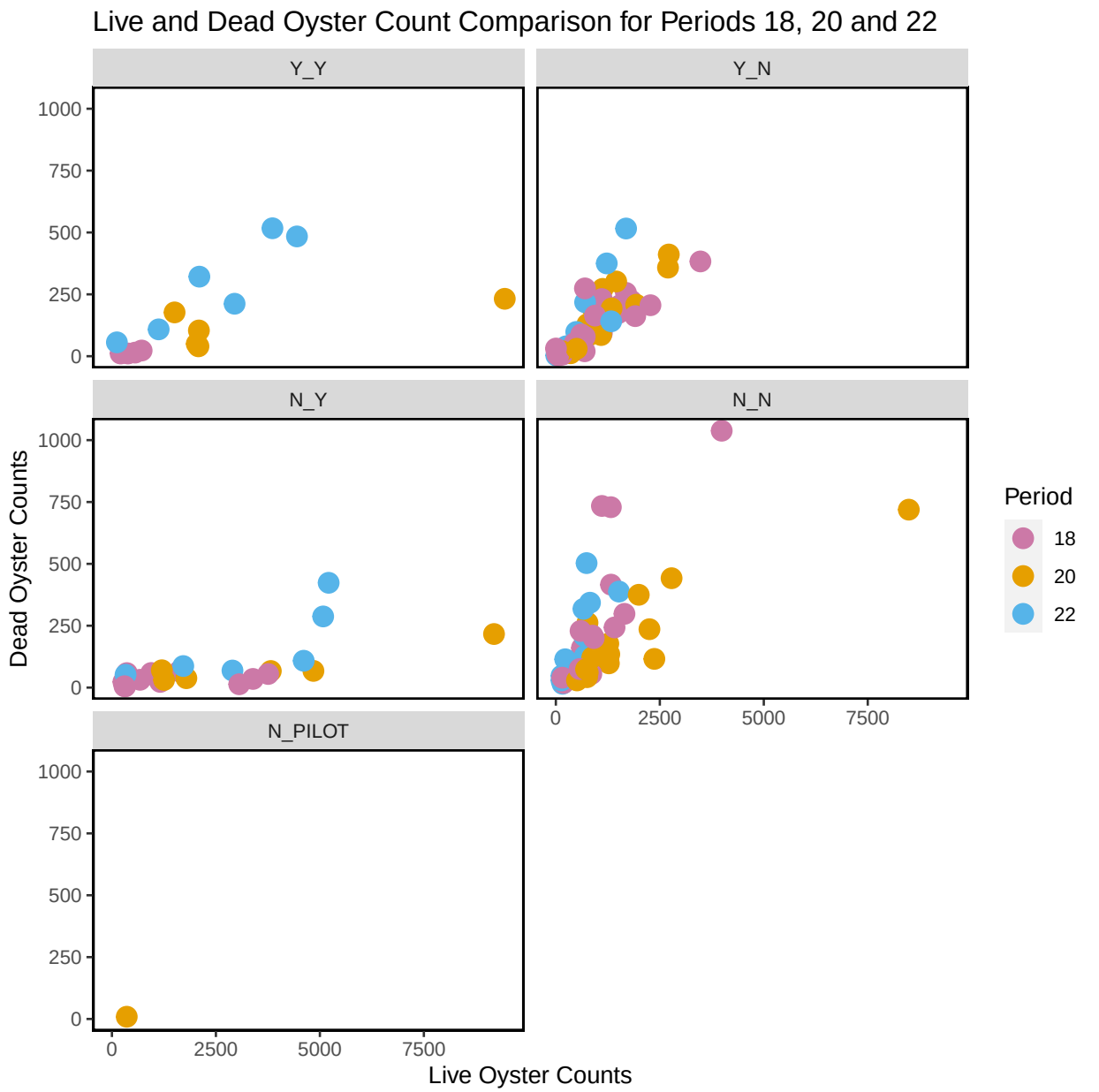


Figure- Live and dead oyster count comparison by periods 18 (Winter 2018- 2019), 20 (Winter 2019-2020) and 22 (Winter 2020-2021), last sample date of period 22 as 2021-01-15.

Live Counts Double Pass Results

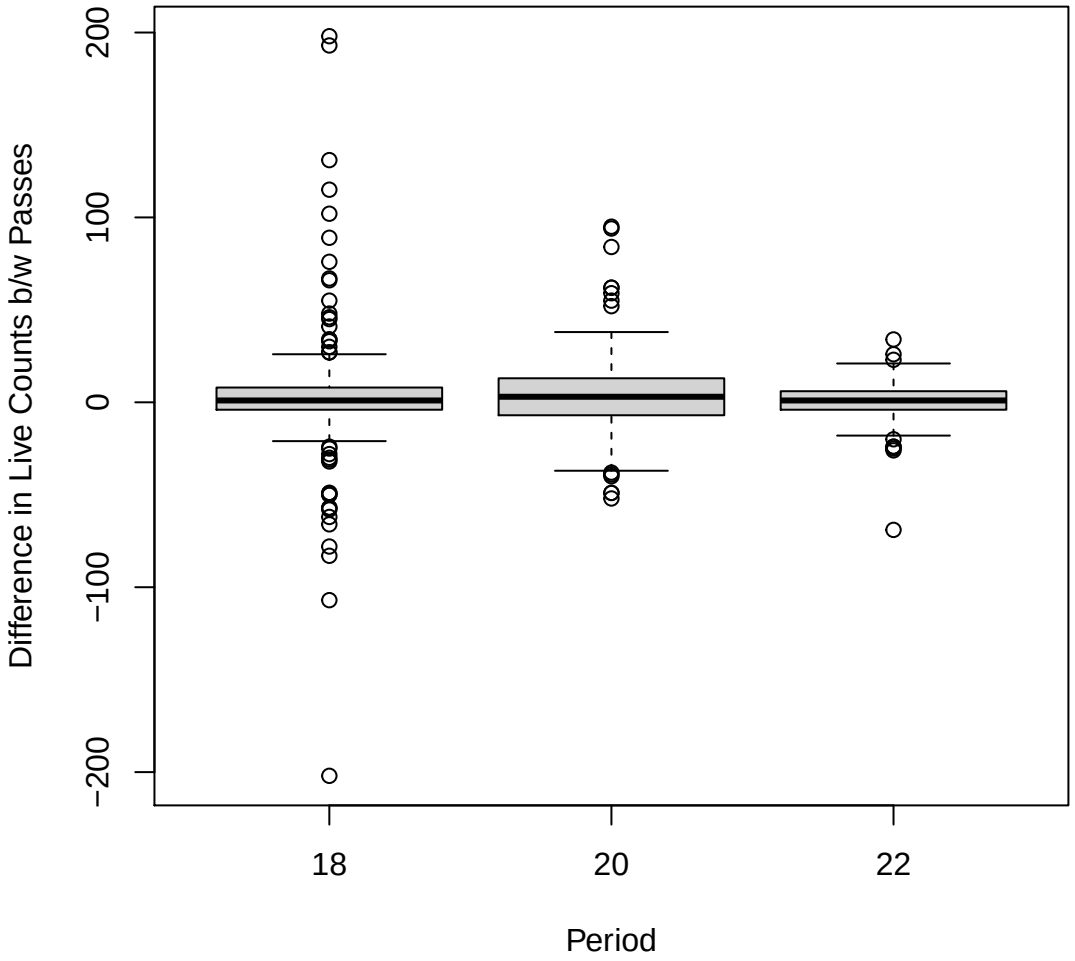


Figure- Boxplot of the difference in live counts between pass 1 and pass 2 (pass 1 live counts - pass 2 live counts) for period 18, 20, and 22

locality	period	CV_1	CV_2
BT	18	0.82	0.83
LC	18	1.34	1.43
NN	18	0.47	0.63
LC	20	0.83	0.80
LT	20	0.61	0.60
BT	22	0.39	0.52
LC	22	0.66	0.70
LT	22	0.47	0.43

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

Dead Counts Double Pass Results

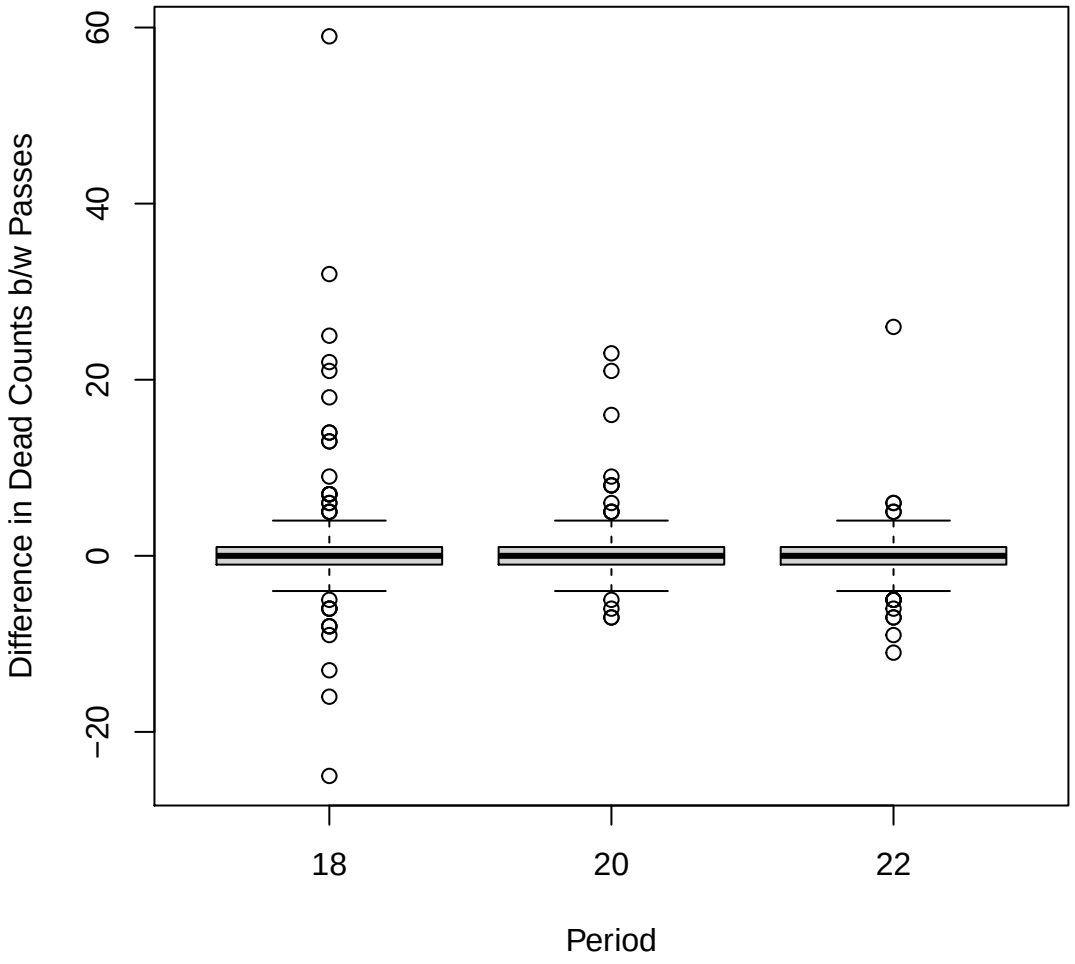


Figure- Boxplot of the difference in dead counts between pass 1 and pass 2 (pass 1 dead counts - pass 2 dead counts) for period 18, 20, and 22

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	0.99	0.96
LT	22	0.79	0.74

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 2021-01-15. 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

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	12	438
CK	26	712
CR	46	1330
HB	45	1129
LC	188	9721
LT	15	406
NN	10	255

Effort by Strata

Strata	Number of Transects	Total Length (m)
N_N	109	3608
N_PILOT	13	799
N_Y	25	2699
Y_N	180	5163
Y_Y	15	1721

Effort by Period

Period	Number of Transects	Total Length (m)
1	42	1086
2	30	753
3	25	619
6	33	874
7	8	528
10	8	512
11	8	511
16	8	528
18	61	2632
19	35	921
20	47	2556
22	37	2469

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	2128
18	LT	6	182
18	NN	4	84
19	CK	9	221
19	CR	9	227

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	2163
20	LT	7	171
20	NN	4	126
22	BT	4	104
22	LC	29	2268
22	LT	2	52
22	NN	2	46
3	CR	9	269
3	HB	7	184
3	LC	9	167
6	CK	8	248
6	CR	9	250
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	962
18	Y_N	26	723
18	Y_Y	4	376
19	N_N	5	80
19	Y_N	30	841
2	N_N	8	148
2	Y_N	22	605
20	N_N	18	590
20	N_PILOT	1	23
20	N_Y	6	888
20	Y_N	17	602
20	Y_Y	5	454
22	N_N	16	442
22	N_Y	6	850
22	Y_N	9	287
22	Y_Y	6	891
3	N_N	8	147
3	Y_N	17	472
6	N_N	8	178
6	Y_N	25	695
7	N_N	8	528

Effort Plot Summaries for all Periods

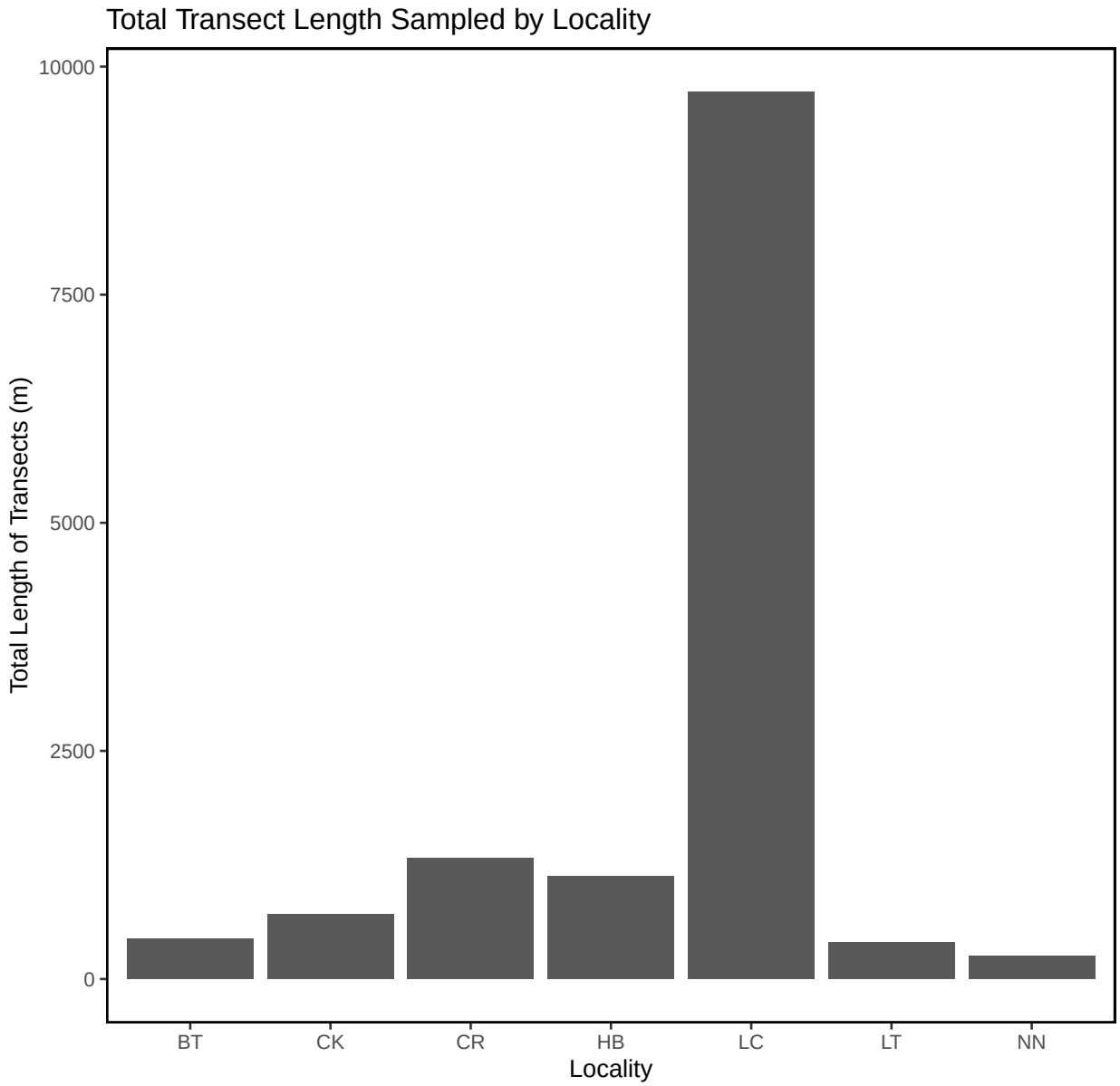


Figure − Bar plot of total transect length in meters sampled by locality for all periods.

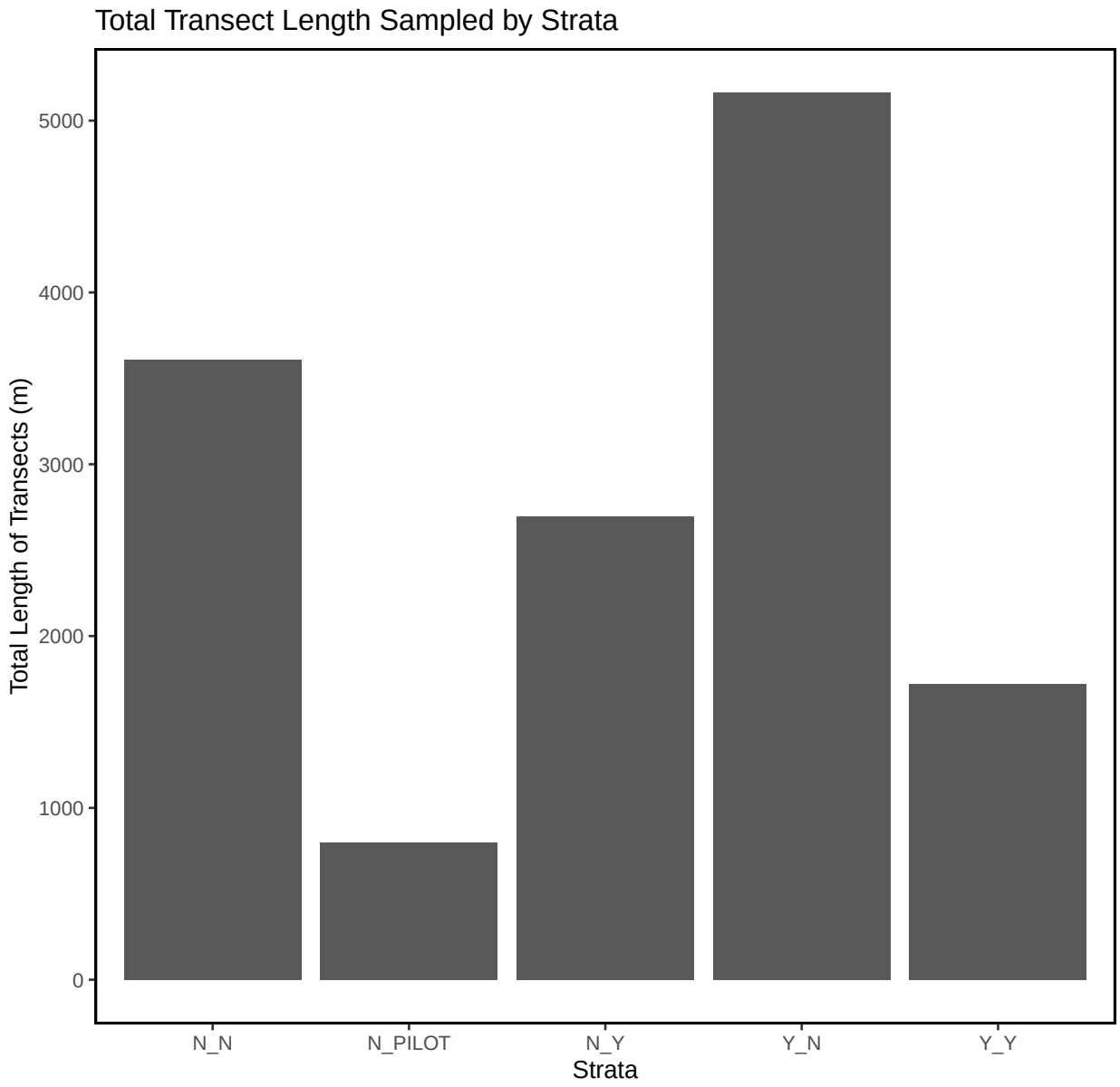
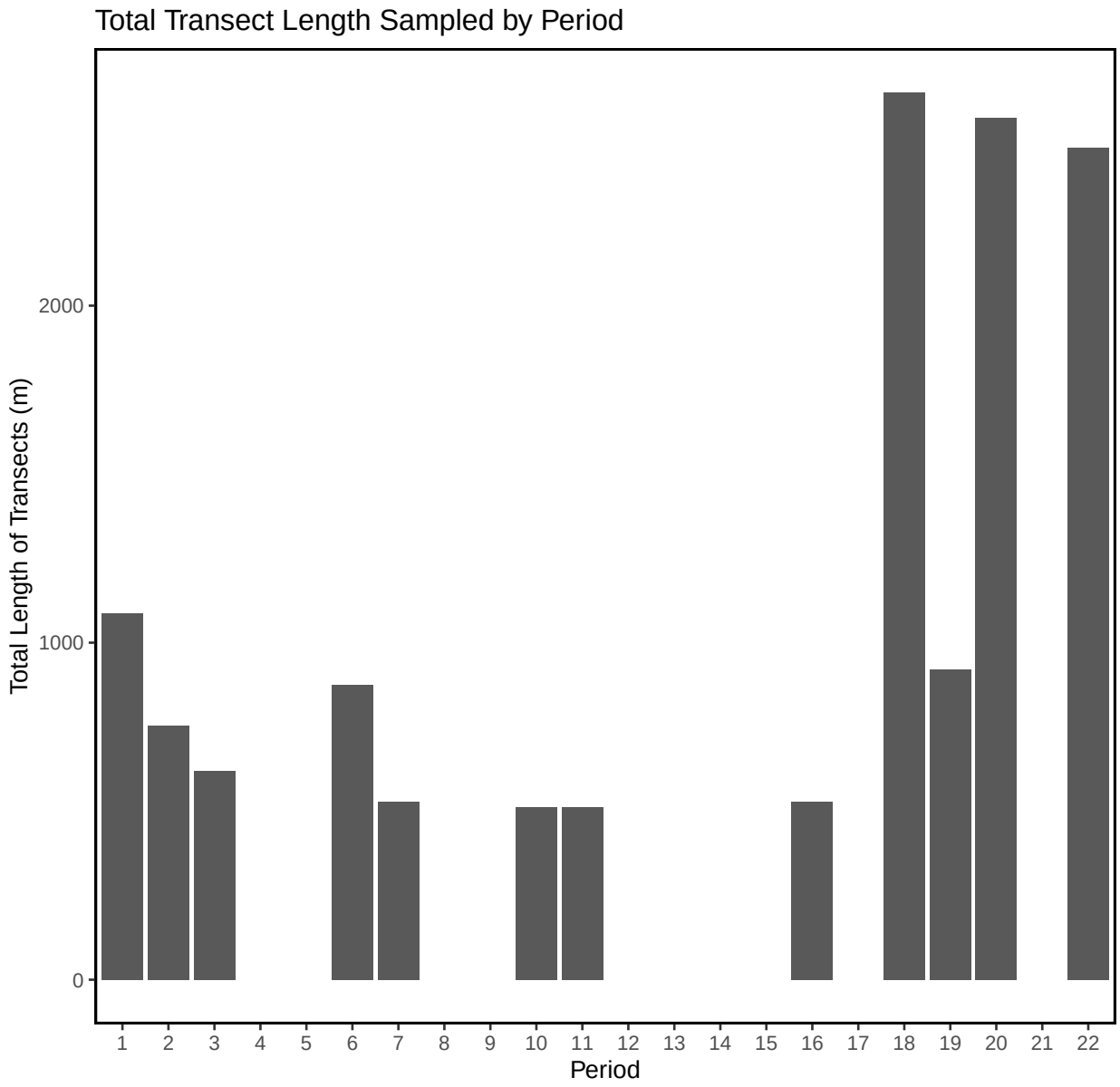


Figure − Bar plot of total transect length in meters sampled by strata for all periods.



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	1691	856	2355	5547854	1.39	680	359	3024	1713	713	3232
CK	857	444	1091	1190933	1.27	214	438	1277	867	478	1303
CR	1026	716	1035	1072162	1.01	153	727	1325	1021	759	1325
HB	902	364	1047	1095622	1.16	158	592	1211	907	598	1219
LC	1082	693	1373	1886301	1.27	101	884	1280	1080	896	1280
LT	1054	877	645	416505	0.61	167	728	1381	1055	768	1382
NN	720	649	644	414522	0.89	204	321	1119	726	410	1164

Live Oyster Counts by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	985	749	1073	1150831	1.09	103	783	1188	988	797	1208
N_PILOT	1046	1109	627	392853	0.60	174	705	1386	1046	742	1391
N_Y	2364	1619	2201	4846019	0.93	440	1501	3227	2333	1482	3244
Y_N	791	436	926	857695	1.17	70	654	927	791	660	935
Y_Y	2242	2039	2376	5645351	1.06	613	1039	3444	2247	1254	3540

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	1400	1031	1783
2	890	476	945	893727	1.06	176	546	1234	893	577	1233
3	738	296	817	668064	1.11	167	411	1065	735	435	1057
6	433	176	534	284791	1.23	96	245	621	434	261	628
7	50	29	56	3186	1.12	20	11	90	50	18	89
10	1207	1074	671	449607	0.56	237	743	1672	1212	816	1638
11	886	776	678	459708	0.77	240	416	1356	891	516	1355
16	494	366	467	217855	0.95	165	170	817	500	202	823
18	982	695	935	874733	0.95	120	748	1217	981	772	1223
19	555	329	573	328431	1.03	97	365	745	555	372	749
20	1844	1253	2125	4517189	1.15	310	1236	2451	1844	1291	2513
22	1344	700	1509	2278098	1.12	248	857	1830	1335	878	1847

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	257	212	198	39335	0.77	57	145	370	256	165	365
CK	241	112	321	102795	1.33	63	118	365	241	139	375
CR	288	181	294	86231	1.02	43	203	373	288	210	380
HB	257	101	303	92052	1.18	46	168	347	257	175	343
LC	155	122	150	22514	0.97	11	133	177	155	133	178
LT	274	239	152	23145	0.56	39	197	351	272	204	350
NN	215	154	234	54714	1.09	74	70	360	219	108	379

Live Density by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	261	186	260	67828	1.00	25	212	310	261	212	314
N_PILOT	111	111	60	3604	0.54	17	79	144	112	83	144
N_Y	150	138	98	9545	0.65	20	112	189	151	117	191
Y_N	190	117	220	48473	1.16	17	158	223	191	156	225
Y_Y	122	112	87	7615	0.71	23	78	167	122	83	168

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	391	290.9	508.3
2	255	119.0	285.2	81348	1.12	53	151.3	358.9	254	156.6	354.7
3	234	85.3	269.3	72523	1.15	55	126.1	341.6	233	130.0	343.6
6	122	72.2	150.9	22769	1.24	27	68.6	174.9	123	77.0	176.0
7	5	2.9	5.6	31	1.12	2	1.1	8.9	5	1.7	9.1
10	124	113.3	67.4	4536	0.54	24	76.9	170.3	124	83.3	174.5
11	90	79.5	67.8	4596	0.75	24	43.4	137.4	90	51.6	137.5
16	49	36.3	46.4	2154	0.95	16	16.9	81.2	49	20.8	82.9
18	177	154.5	130.8	17117	0.74	17	144.3	210.0	177	144.0	210.8
19	160	85.6	171.9	29552	1.08	29	102.9	216.8	159	102.7	211.5
20	258	202.8	187.6	35185	0.73	27	204.4	311.7	258	207.2	310.4
22	132	126.8	68.4	4683	0.52	11	110.2	154.3	132	110.5	154.1

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	325	169	328	107312	1.01	94.6	139.6	510	329	171	519
CK	78	32	106	11170	1.36	37.4	4.3	151	76	17	159
CR	60	47	38	1444	0.63	12.7	35.2	85	60	40	85
HB	44	21	45	2000	1.02	14.9	14.8	73	43	19	71
LC	106	66	115	13240	1.09	9.5	87.1	124	105	87	124
LT	240	210	202	40850	0.84	52.2	137.2	342	240	149	344
NN	100	68	100	10018	1.00	31.7	38.1	162	100	51	164

Dead Oyster Counts by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	154	79	194	37509	1.26	22	110	197	153	110	198
N_PILOT	82	87	46	2136	0.56	13	57	108	83	61	107
N_Y	79	55	95	9095	1.21	19	41	116	79	47	118
Y_N	104	64	116	13358	1.11	13	79	130	104	79	129
Y_Y	157	104	168	28145	1.07	43	73	242	157	79	246

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	12	48
10	80	88	65	4245	0.82	23.0	34.5	125	80	40	121
11	50	40	25	620	0.49	8.8	33.2	68	51	35	69
16	44	28	41	1708	0.93	14.6	15.6	73	45	20	72
18	133	55	192	36903	1.44	24.6	85.1	182	133	91	183
19	63	44	67	4548	1.08	11.6	40.0	85	63	41	86
20	148	107	140	19727	0.95	20.5	107.6	188	148	113	190
22	185	108	162	26173	0.87	26.6	133.1	237	185	139	237

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	42.3	35	1250	0.66	10.2	33.6	74	54	35.3	73
CK	21	11.3	28	757	1.29	9.7	2.3	40	22	6.4	43
CR	20	13.8	15	235	0.77	5.1	10.0	30	20	12.0	30
HB	13	8.0	14	201	1.12	4.7	3.4	22	13	4.9	23
LC	17	8.6	20	420	1.21	1.7	13.6	20	17	13.8	20
LT	58	47.1	40	1570	0.68	10.2	38.2	78	58	40.1	78
NN	28	16.1	26	668	0.91	8.2	12.5	45	29	15.0	45

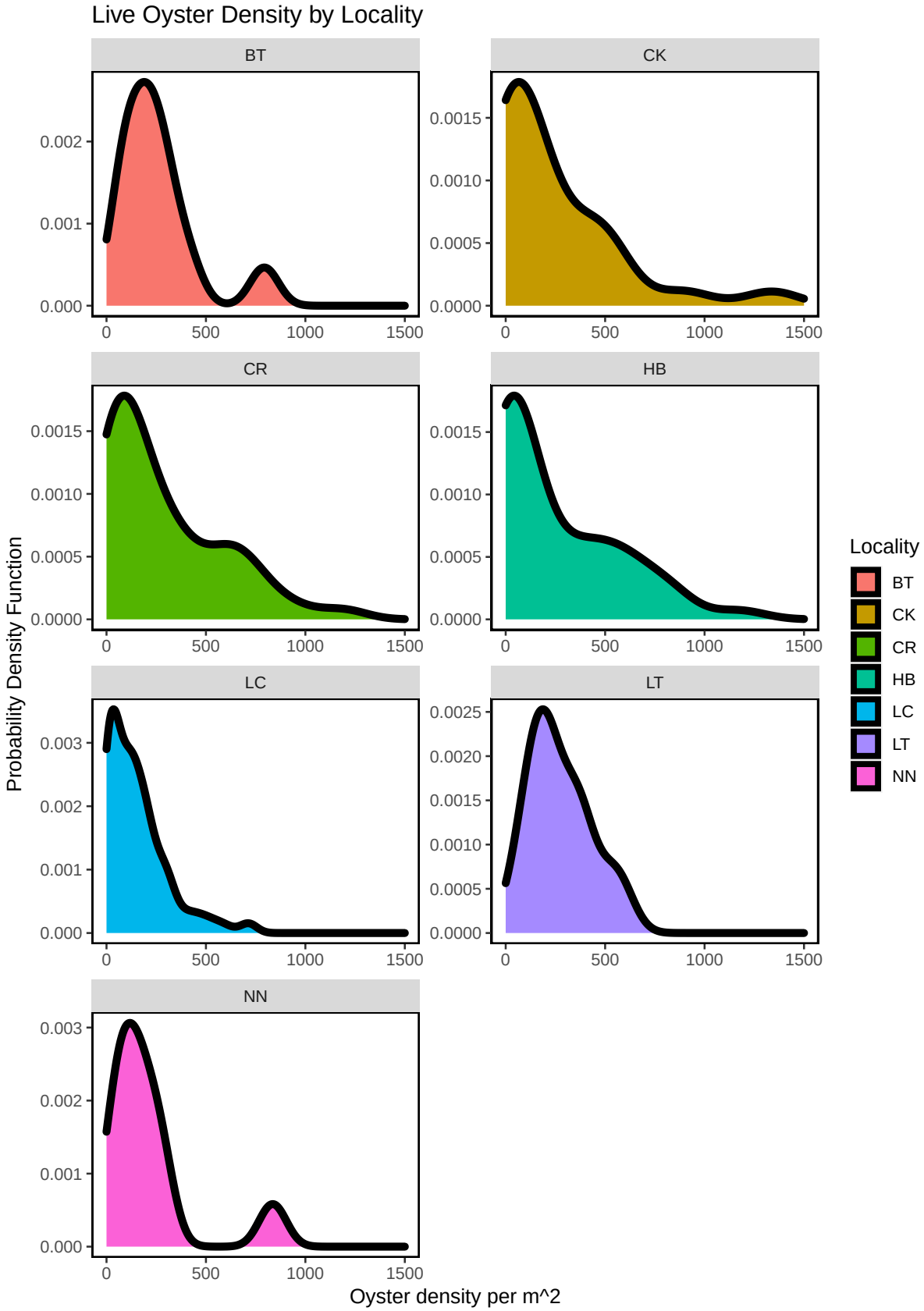
Dead Oyster Density by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	32.6	24.5	32.6	1060	1.00	3.71	25.4	40	32.4	25.1	39.6
N_PILOT	8.5	8.7	4.5	20	0.53	1.25	6.1	11	8.5	6.5	11.2
N_Y	5.2	3.8	4.5	21	0.87	0.91	3.4	7	5.1	3.6	6.9
Y_N	23.3	15.0	24.0	578	1.03	2.67	18.0	29	23.3	18.3	28.5
Y_Y	8.8	8.6	6.6	43	0.75	1.70	5.5	12	8.9	5.7	12.1

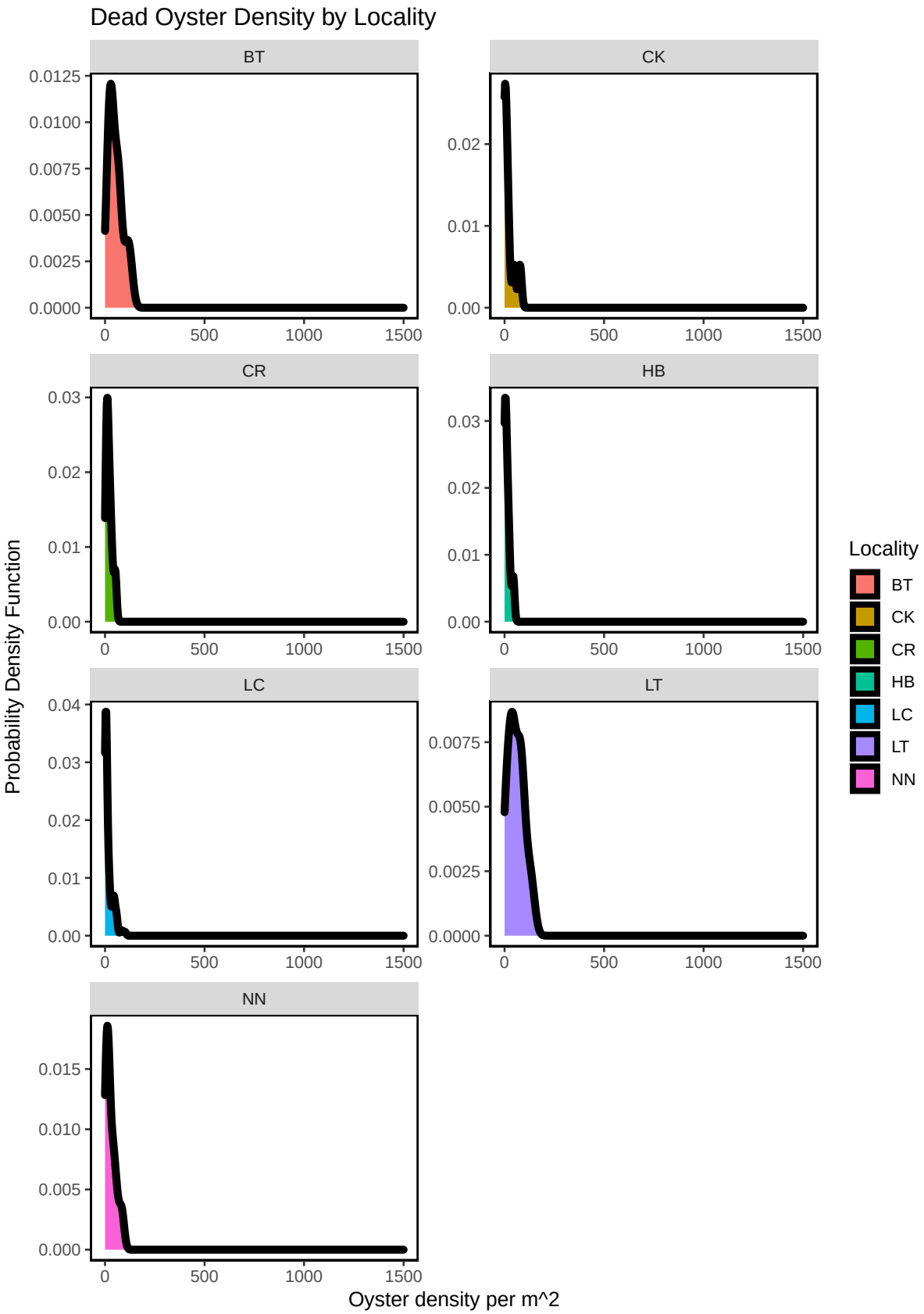
Dead Oyster Density by Period

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	1.1	5.1
10	8.2	8.9	6.6	44.0	0.81	2.35	3.58	12.8	8.2	4.1	12.9
11	5.2	4.1	2.6	6.6	0.49	0.91	3.41	7.0	5.2	3.6	6.9
16	4.4	2.8	4.1	16.9	0.93	1.45	1.55	7.2	4.4	2.0	7.3
18	26.4	15.7	31.3	980.1	1.19	4.01	18.54	34.3	26.6	19.2	34.5
19	18.1	13.1	19.3	370.6	1.07	3.30	11.59	24.5	18.0	12.1	25.2
20	27.9	18.4	26.4	697.6	0.95	3.85	20.38	35.5	28.0	20.5	35.0
22	28.9	15.0	29.4	862.1	1.02	4.83	19.40	38.3	28.8	19.8	38.6

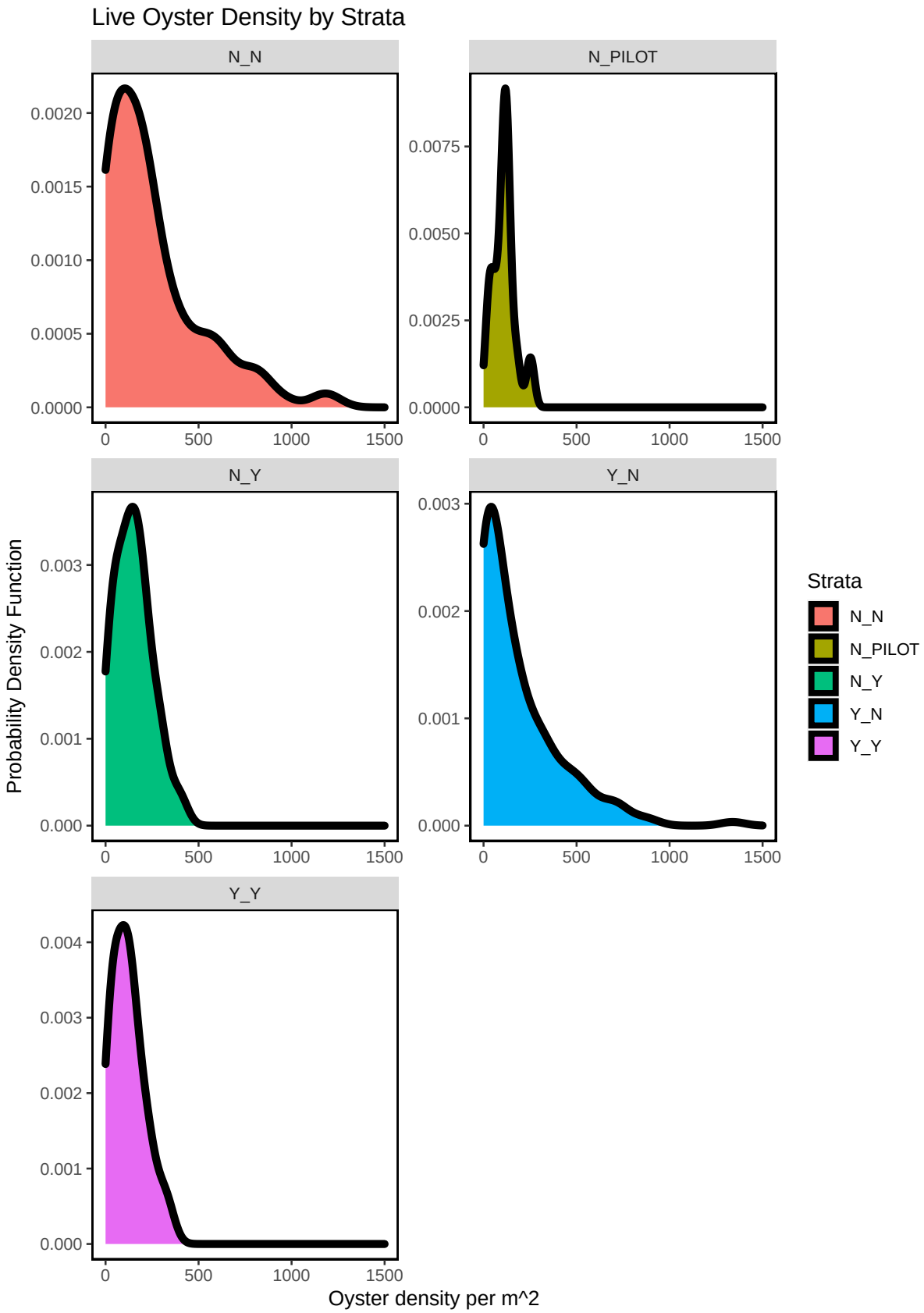
Summary Density Plots for all Periods



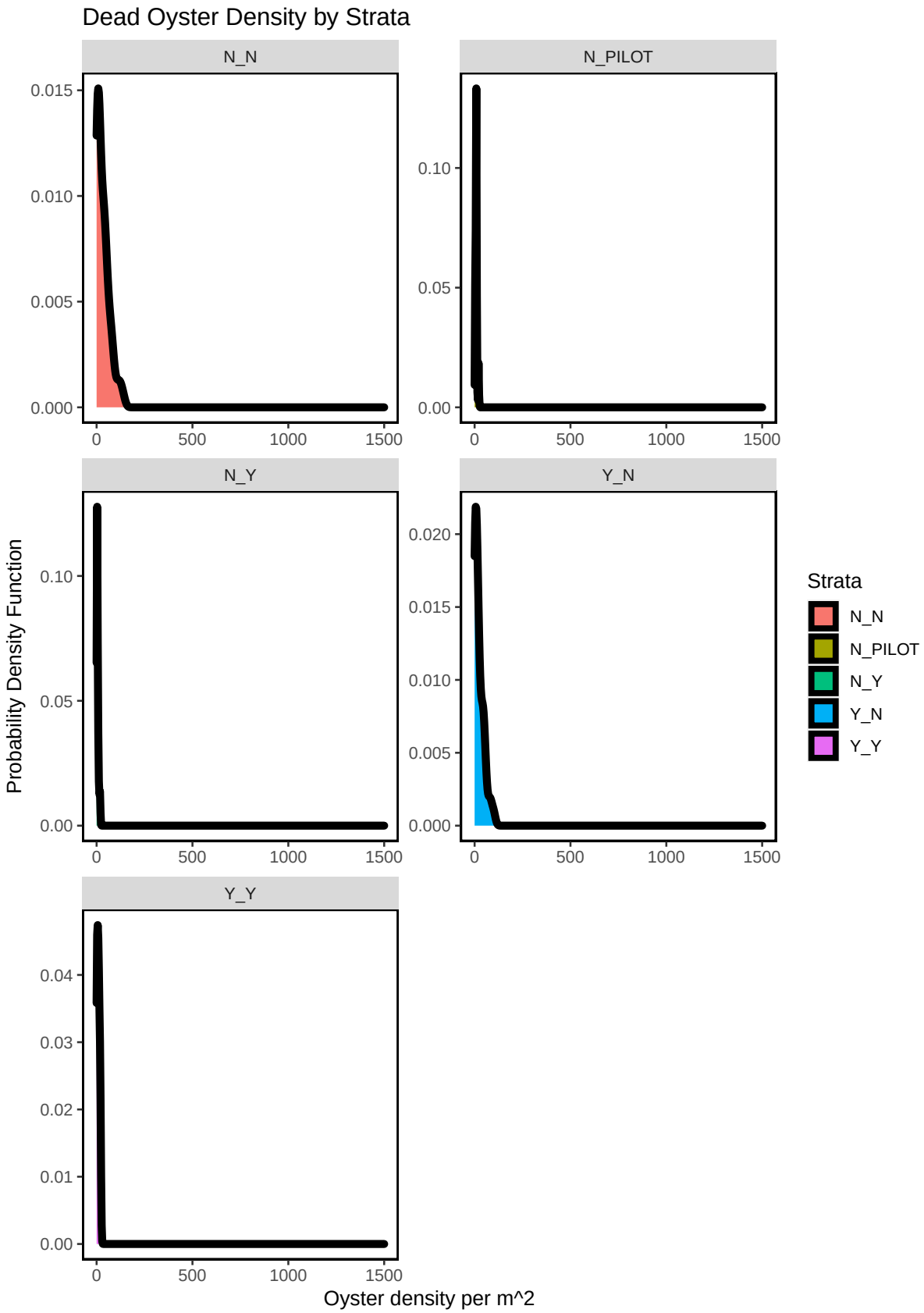
Figure− Calculated live oyster density by locality for all periods including period 22 (current period).



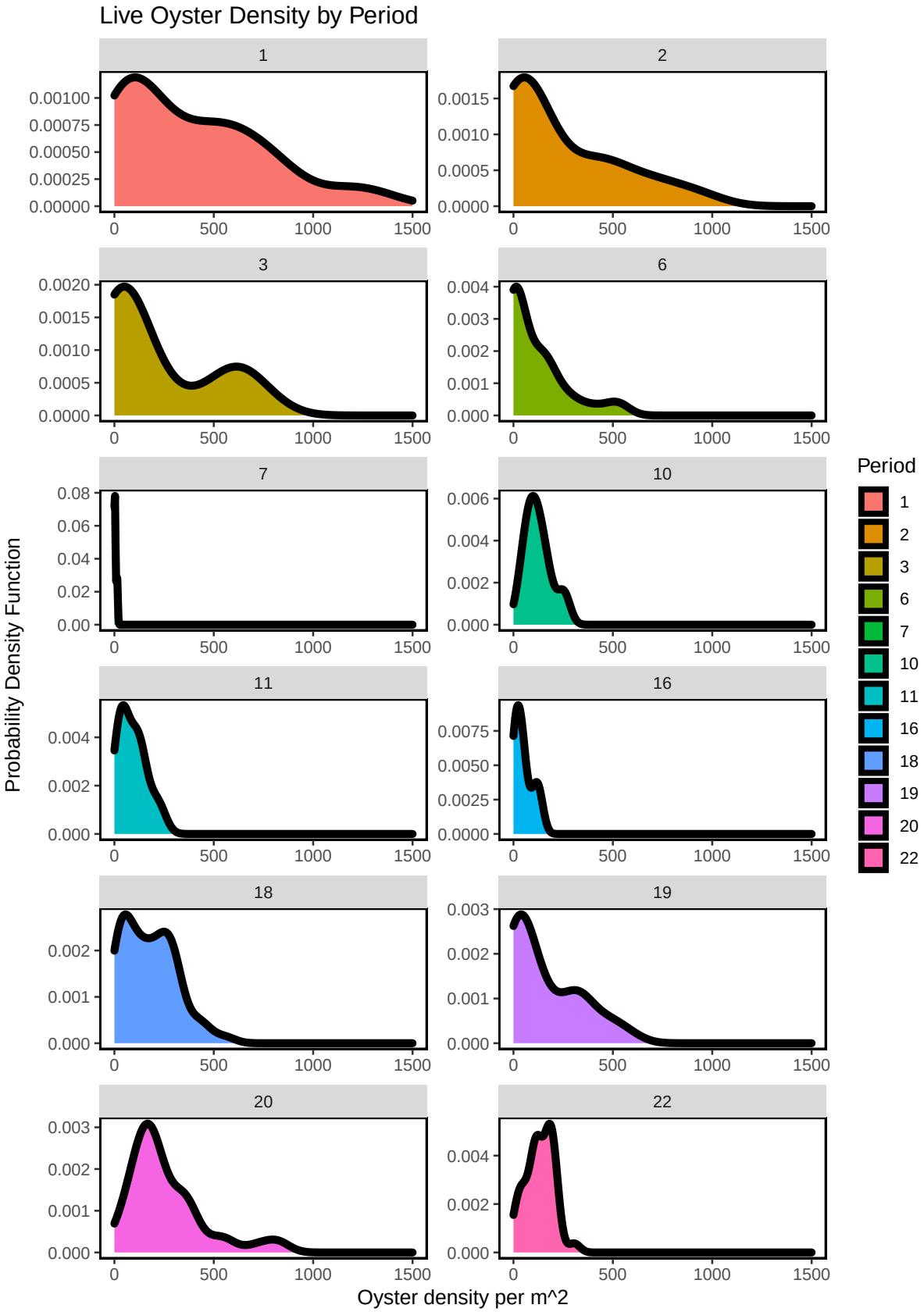
Figure− Calculated dead oyster density by locality for all periods including period 22 (current period).



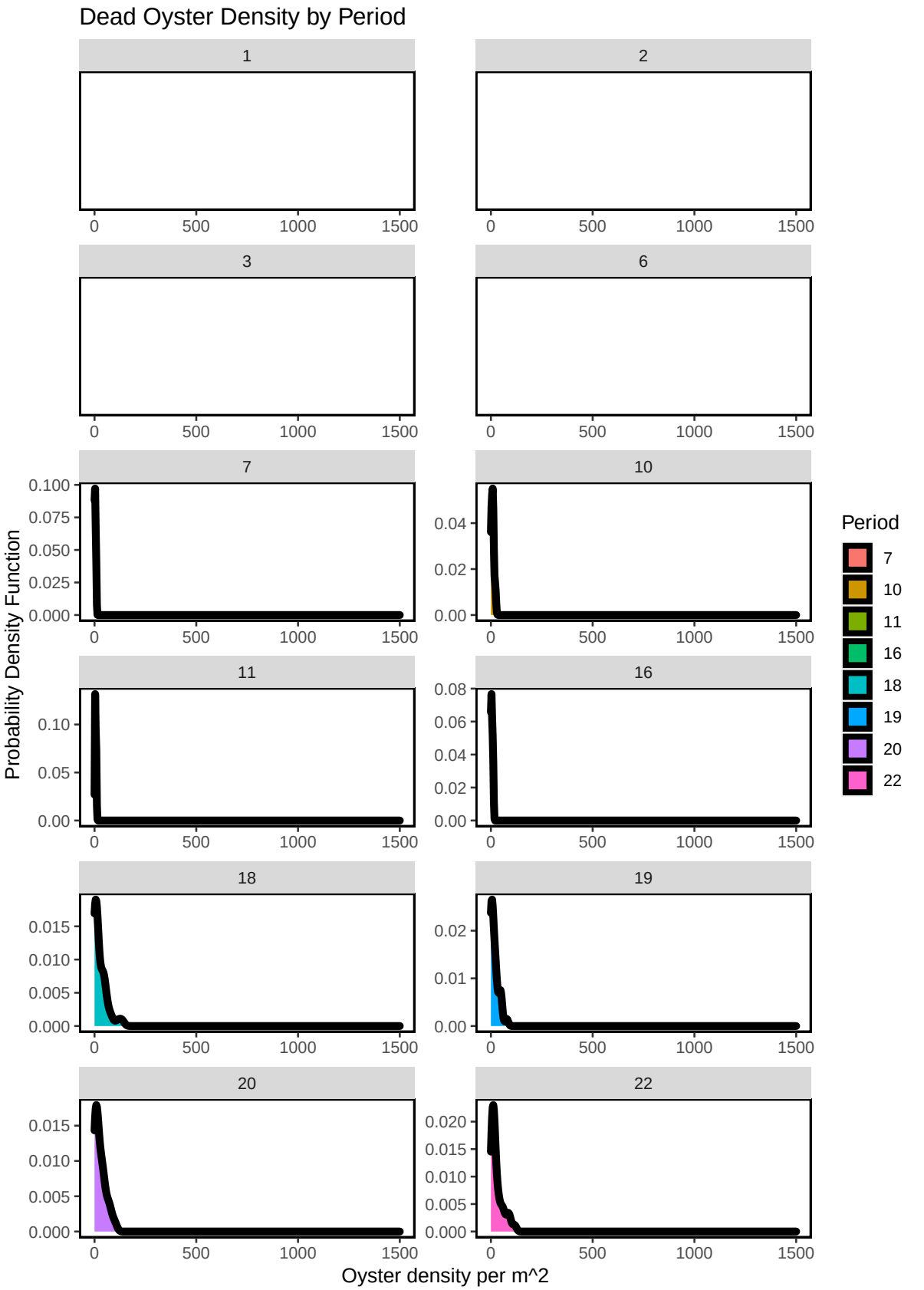
Figure− Calculated live oyster density by strata for all periods including period 22 (current period).



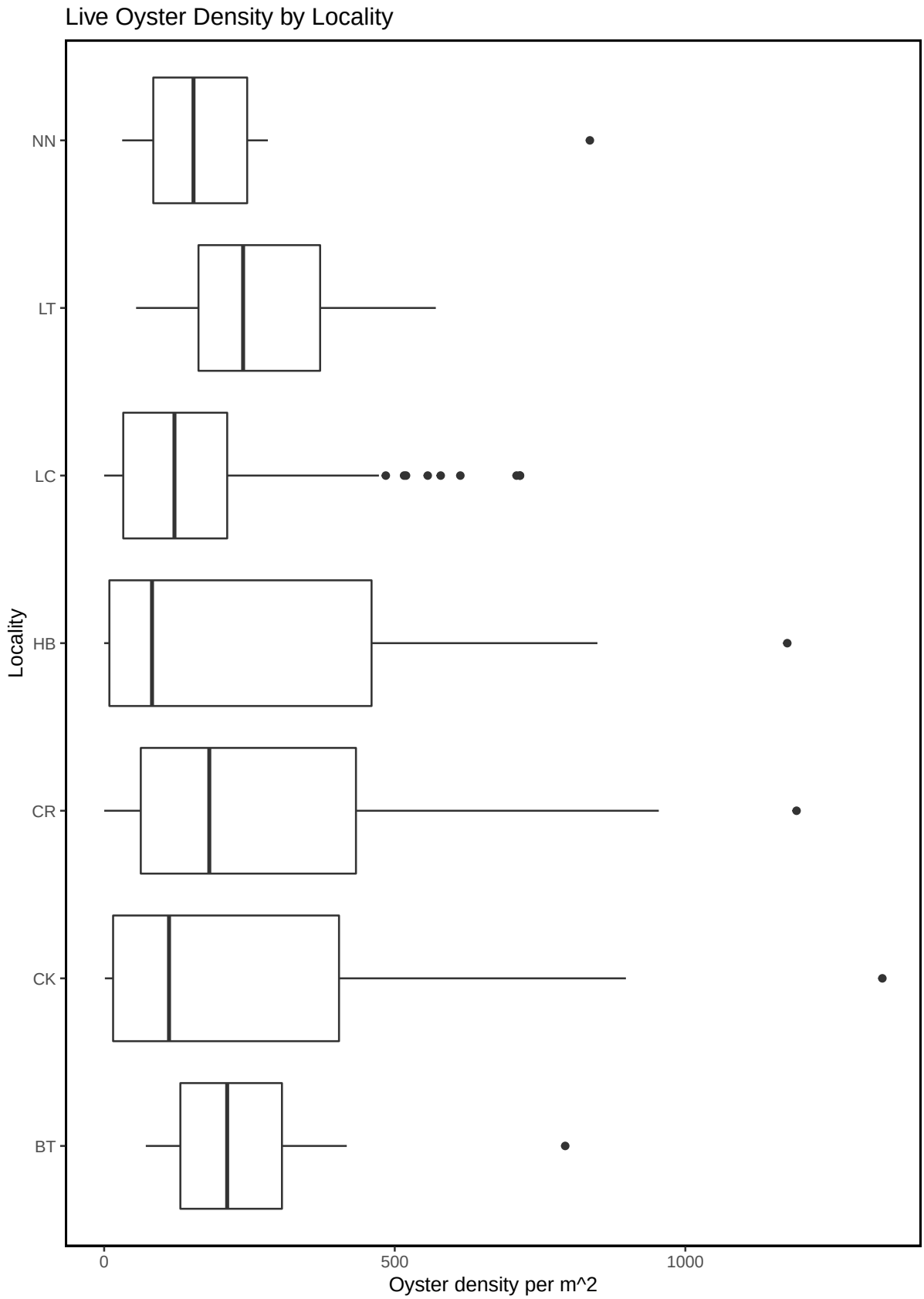
Figure− Calculated dead oyster density by strata for all periods including period 22 (current period).



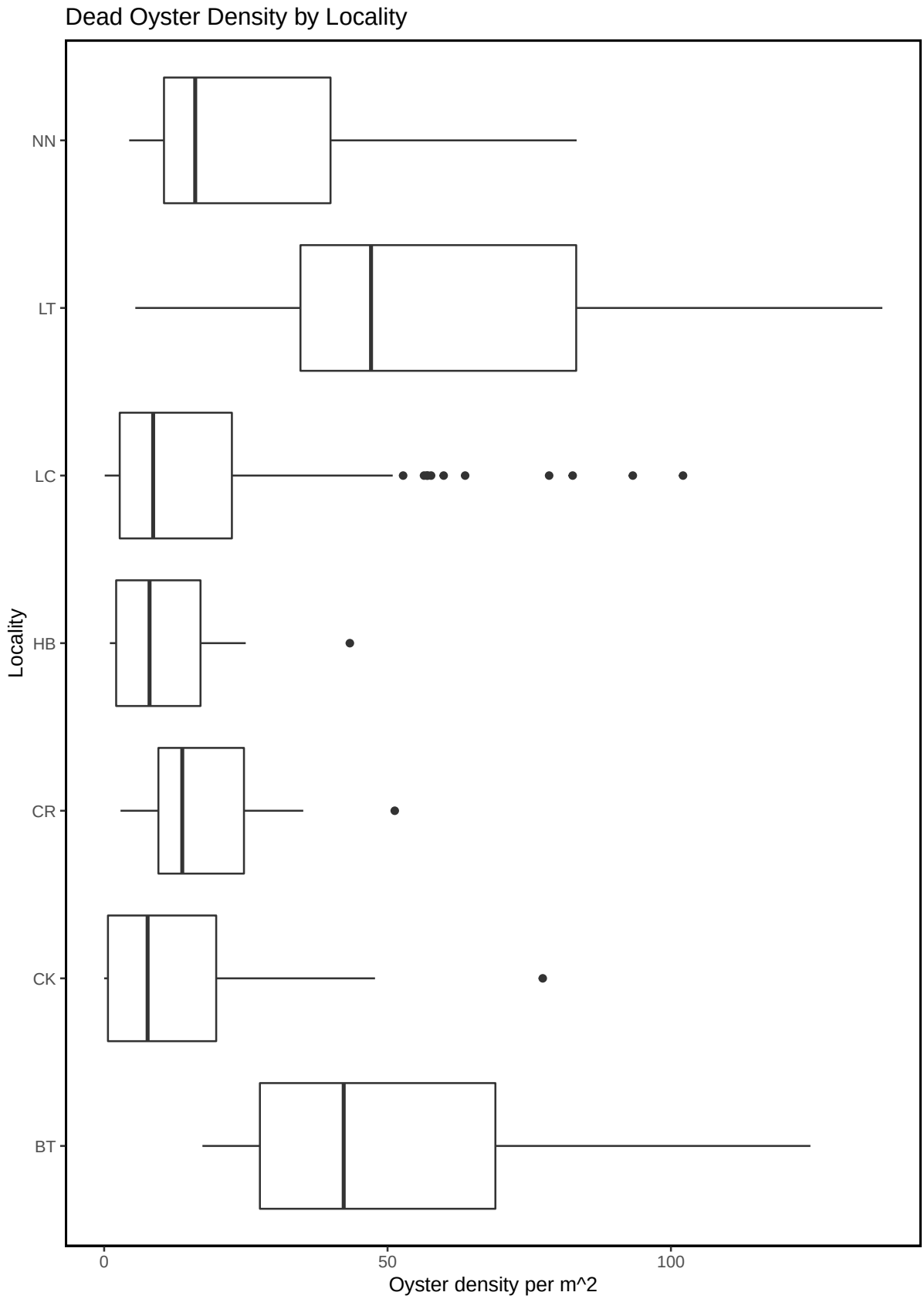
Figure− Calculated live oyster density for all periods including period 22 (current period) using a probability densit



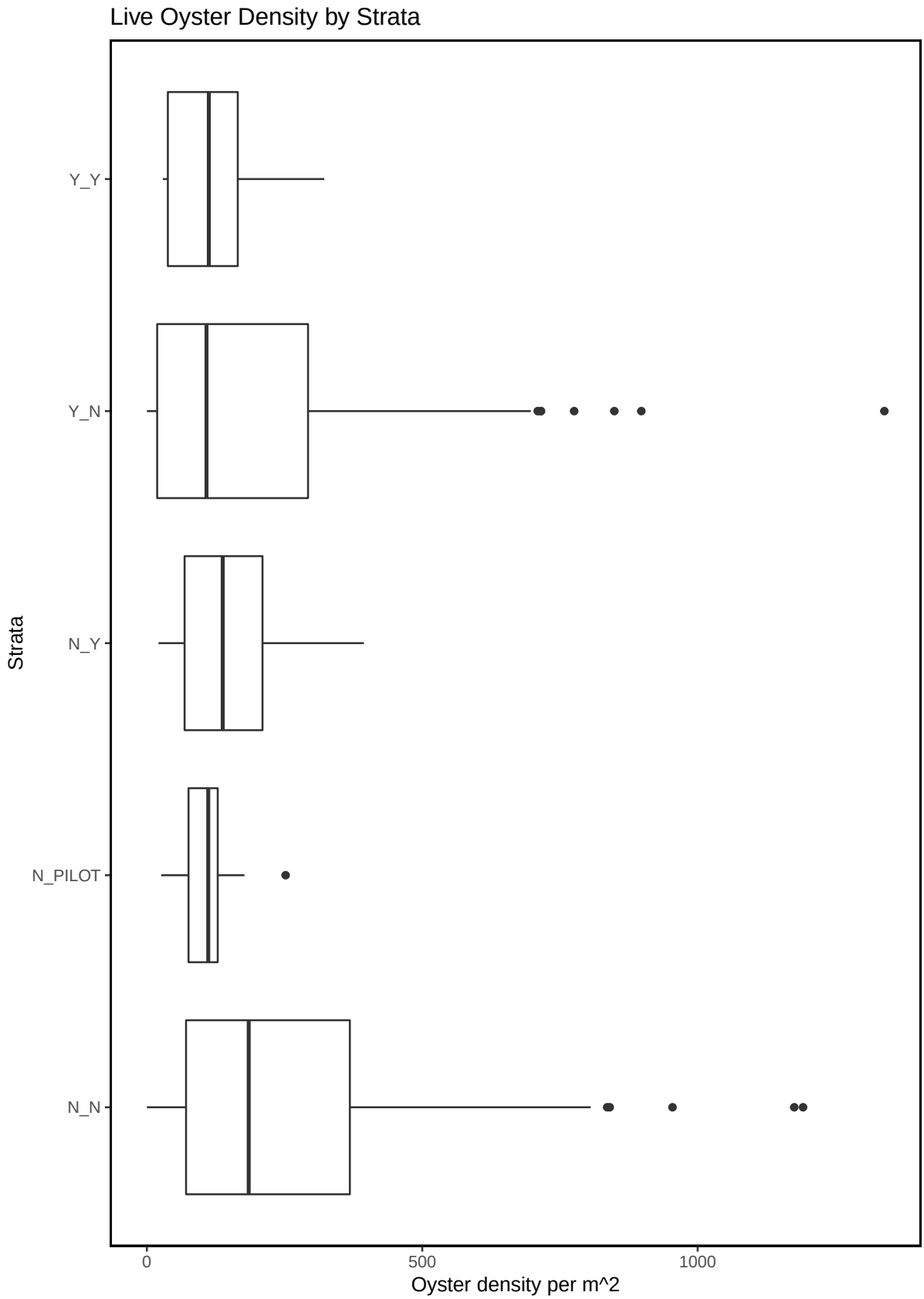
Figure− Calculated Dead oyster density for all periods including period 22 (current period) using a probability densit



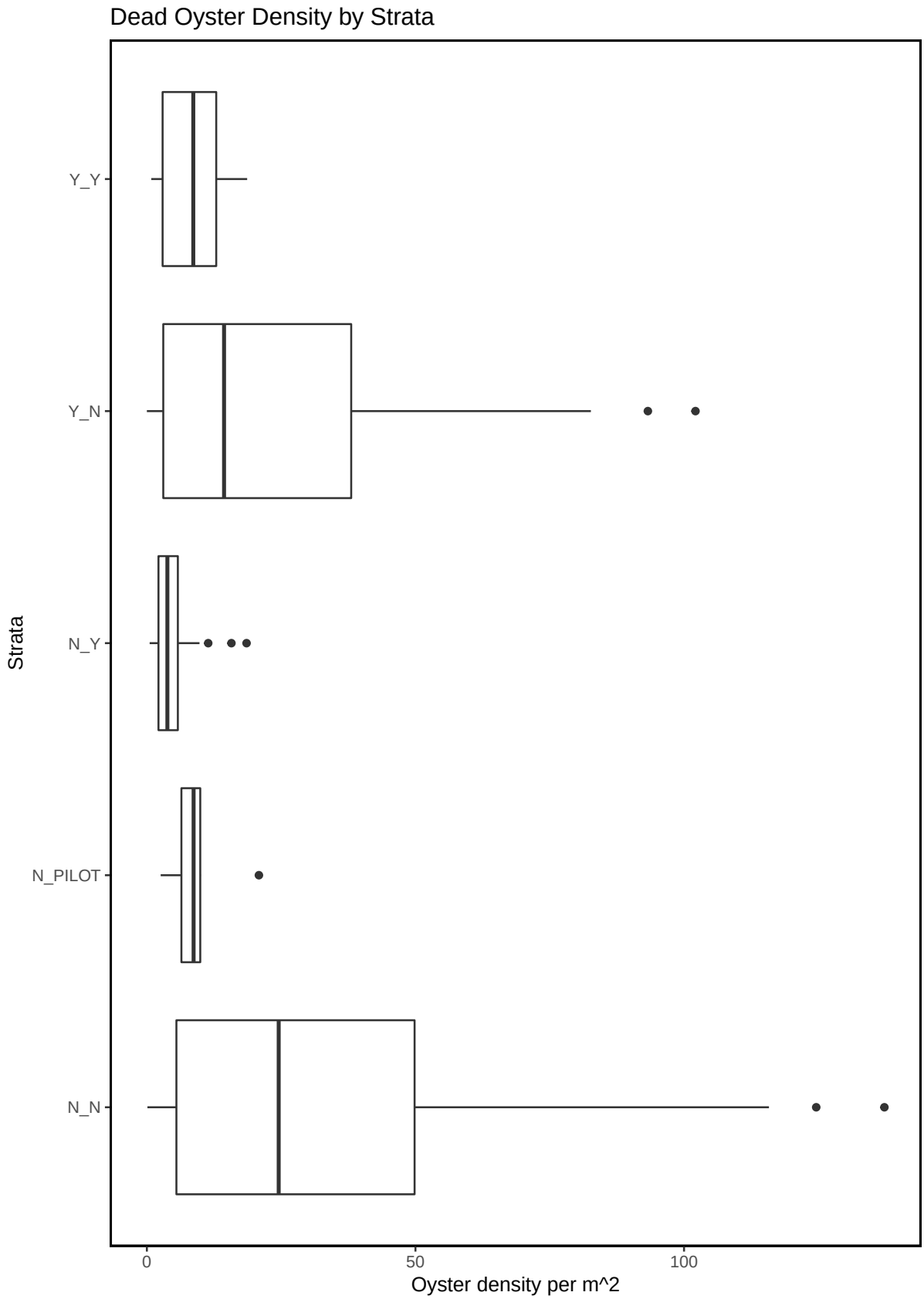
Figure− Box plot depicting live oyster density by locality for all periods including period 22 (current period).



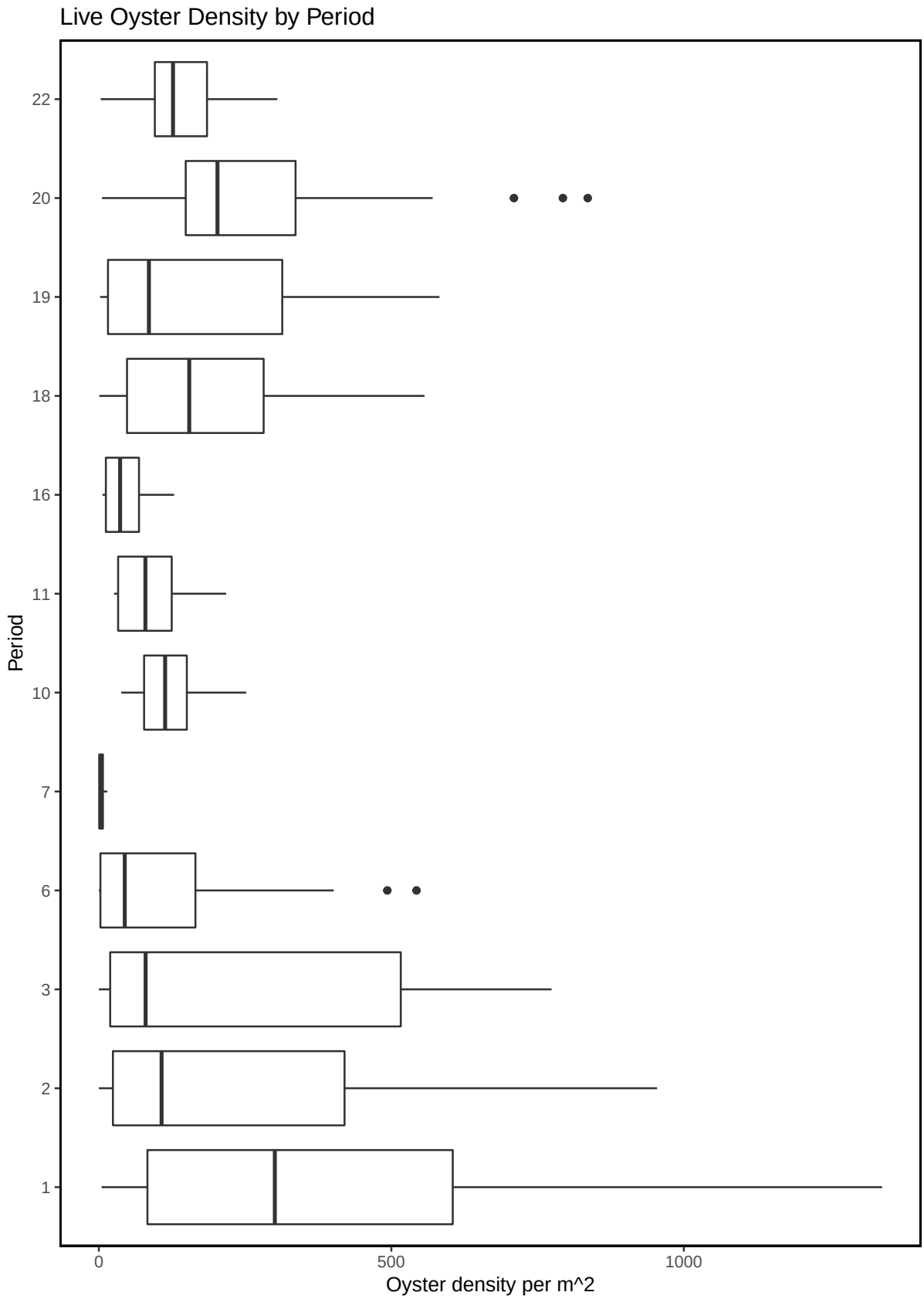
Figure− Box plot depicting dead oyster density by locality for all periods including period 22 (current period).



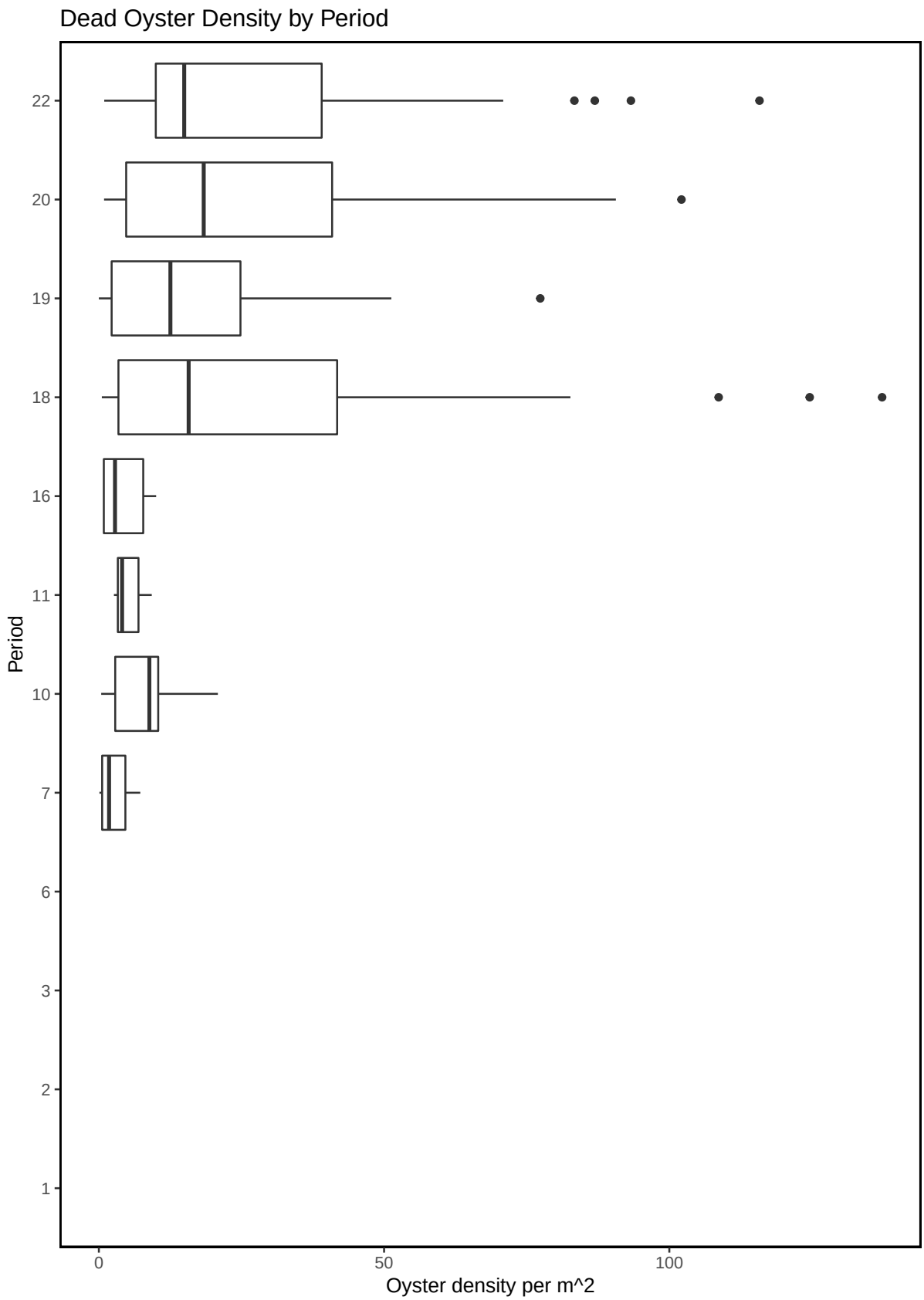
Figure− Box plot depicting live oyster density by strata for all periods including period 22 (current period).



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).

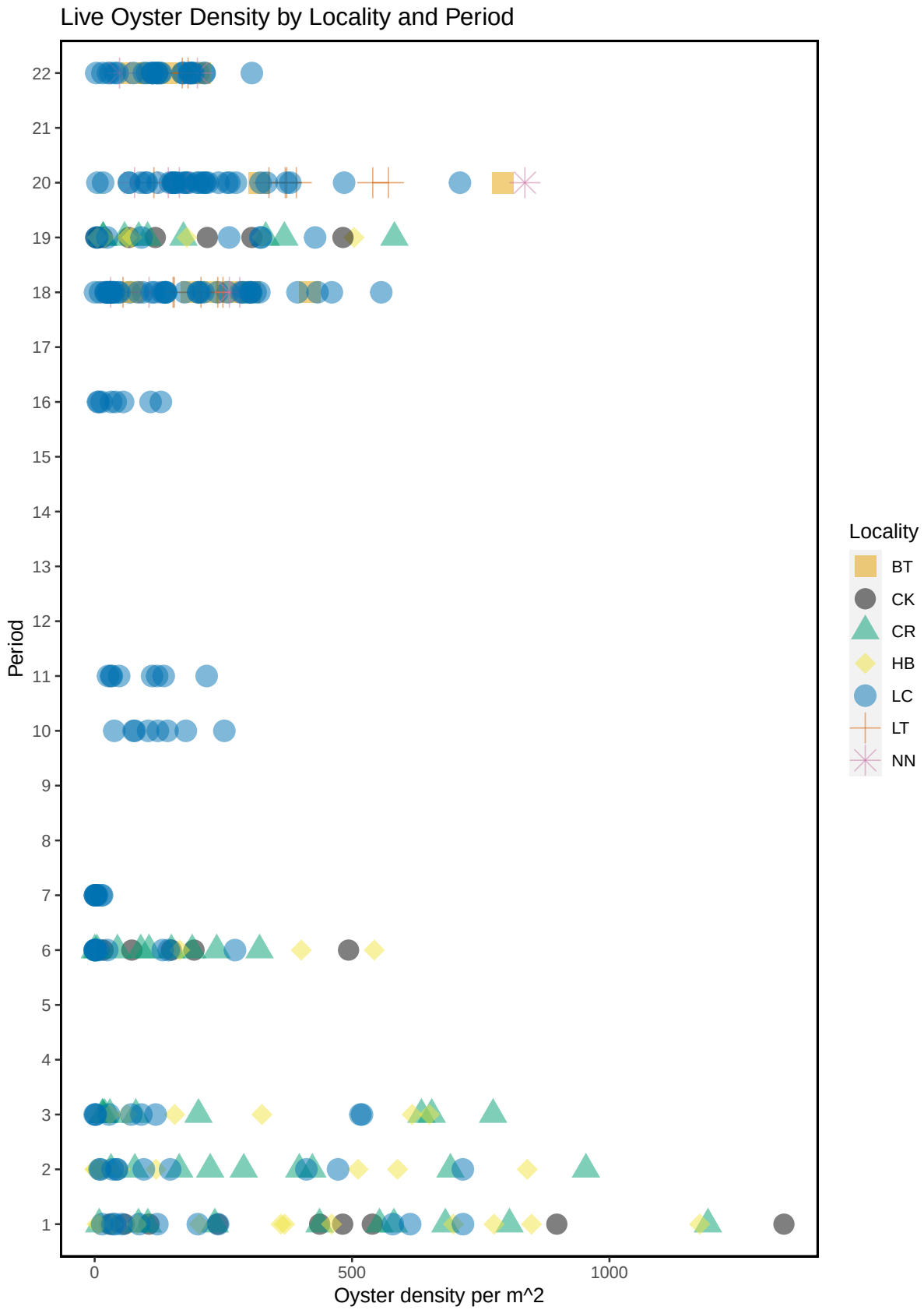


Figure − Live oyster density by locality and period for all periods including period 22 (current period).

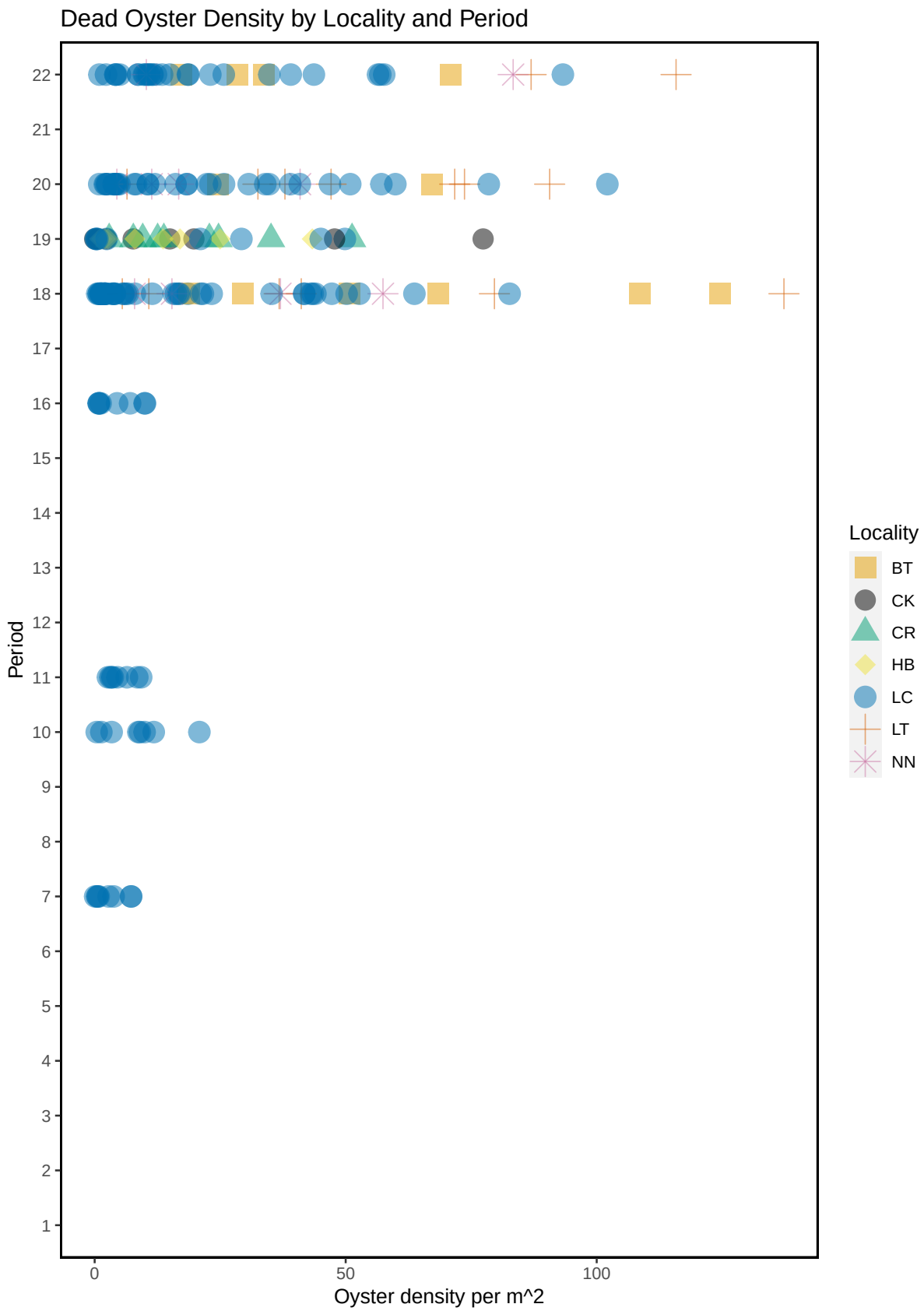


Figure − Dead oyster density by locality and period for all periods including period 22 (current period).

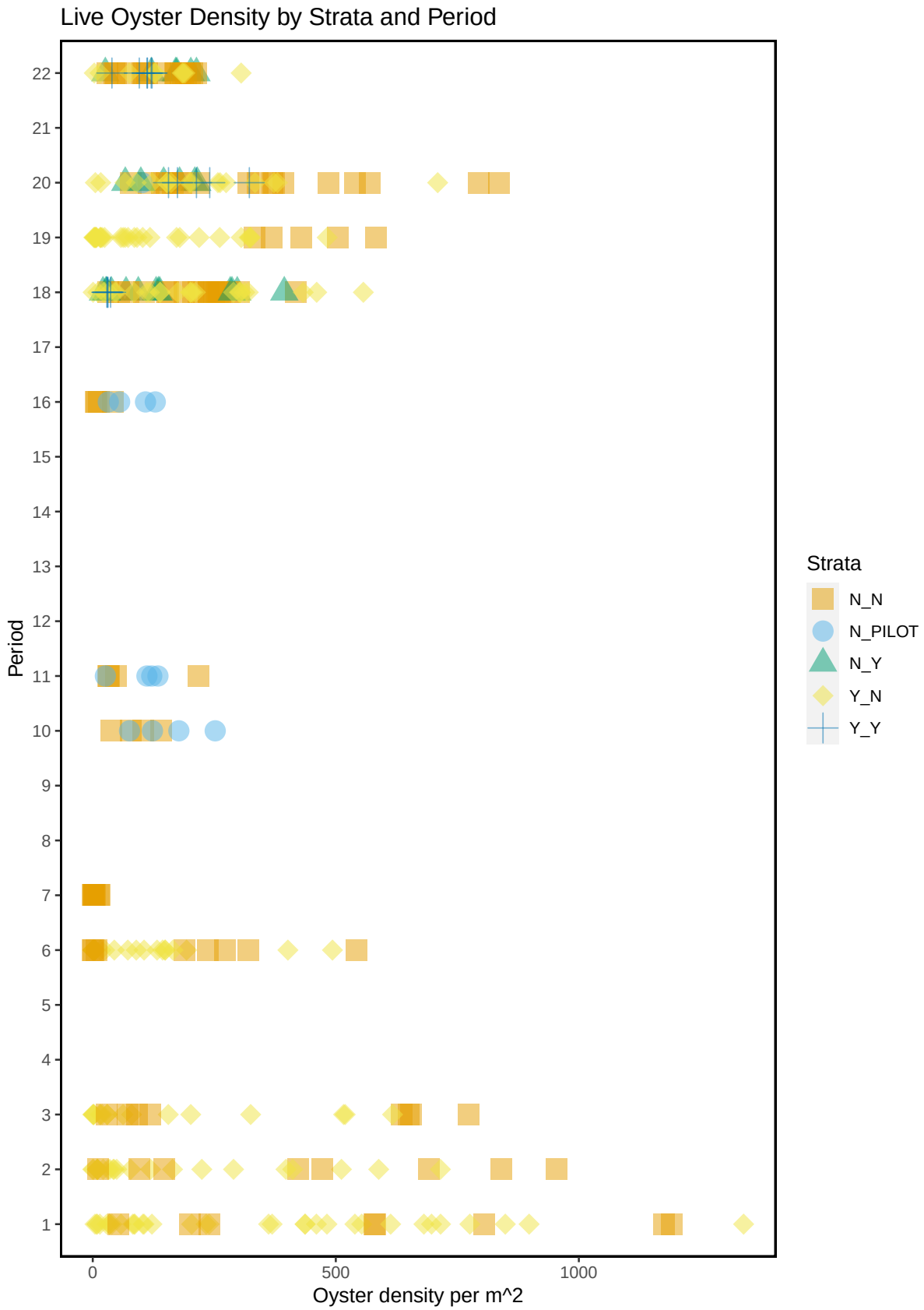


Figure − Live oyster density by strata and period for all periods including period 22 (current period).

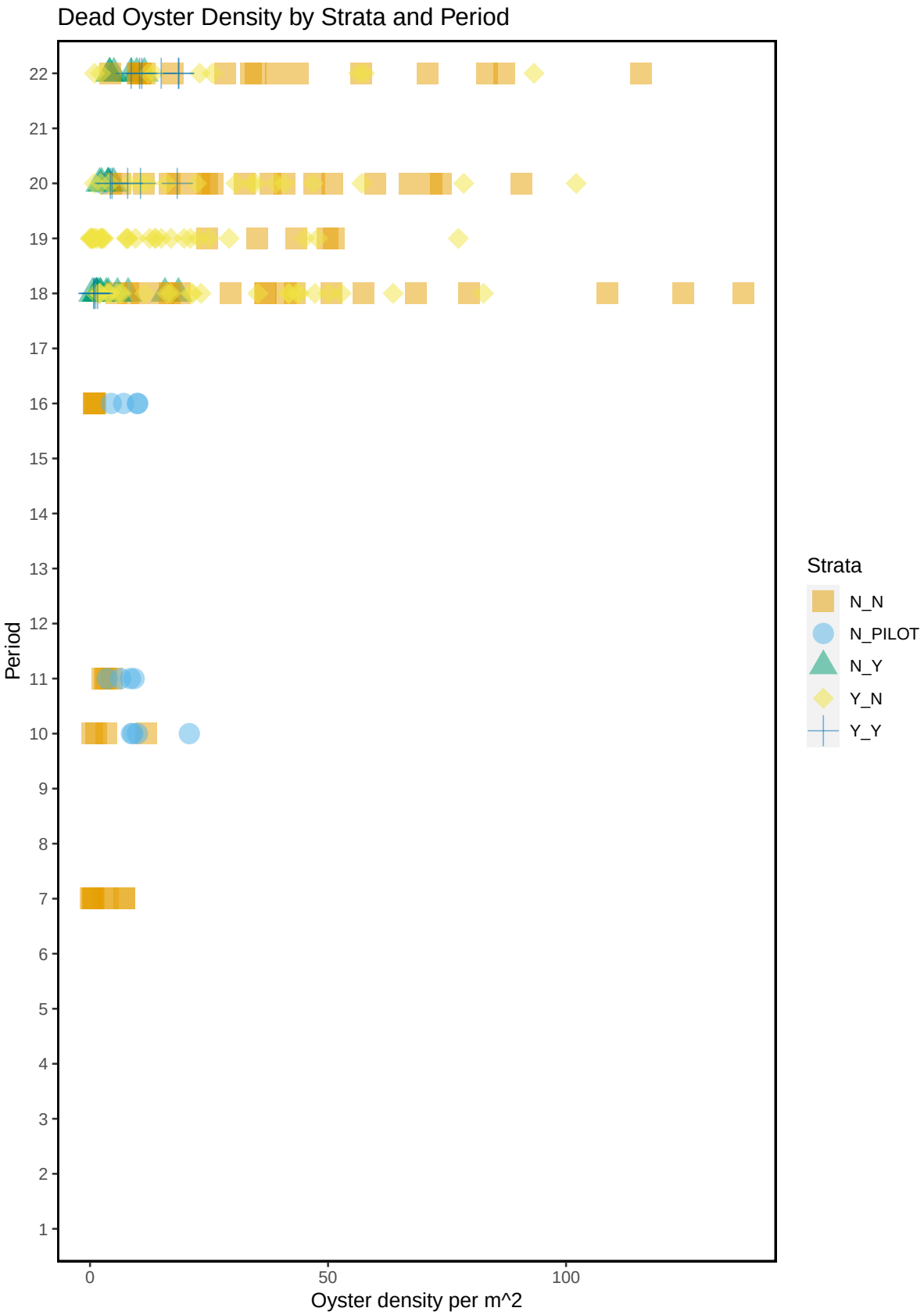


Figure − Dead oyster density by strata and period for all periods including period 22 (current period).

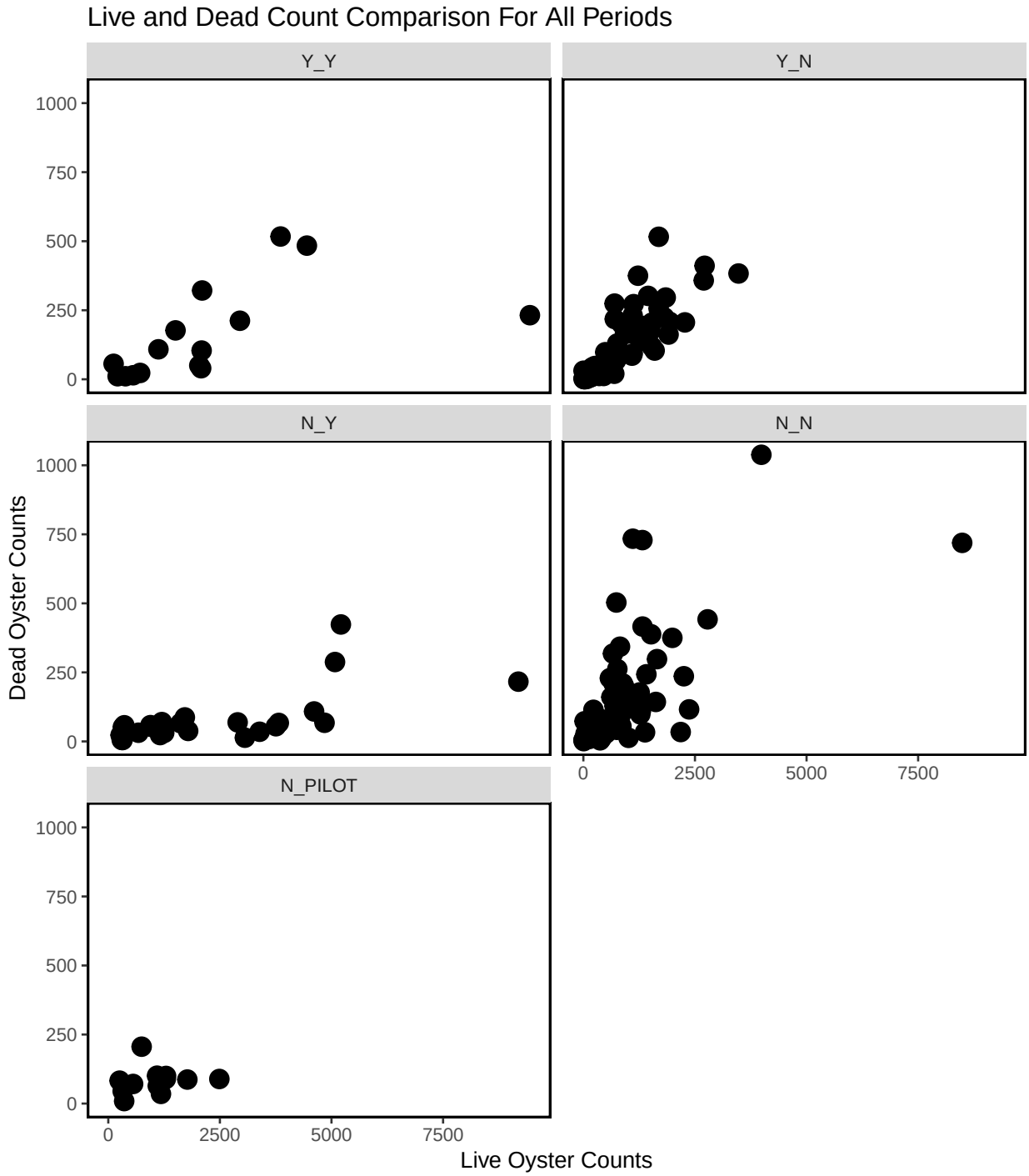


Figure- Live and dead oyster comparison for all periods, last sample date of period 22 is 2021-01-15.

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).

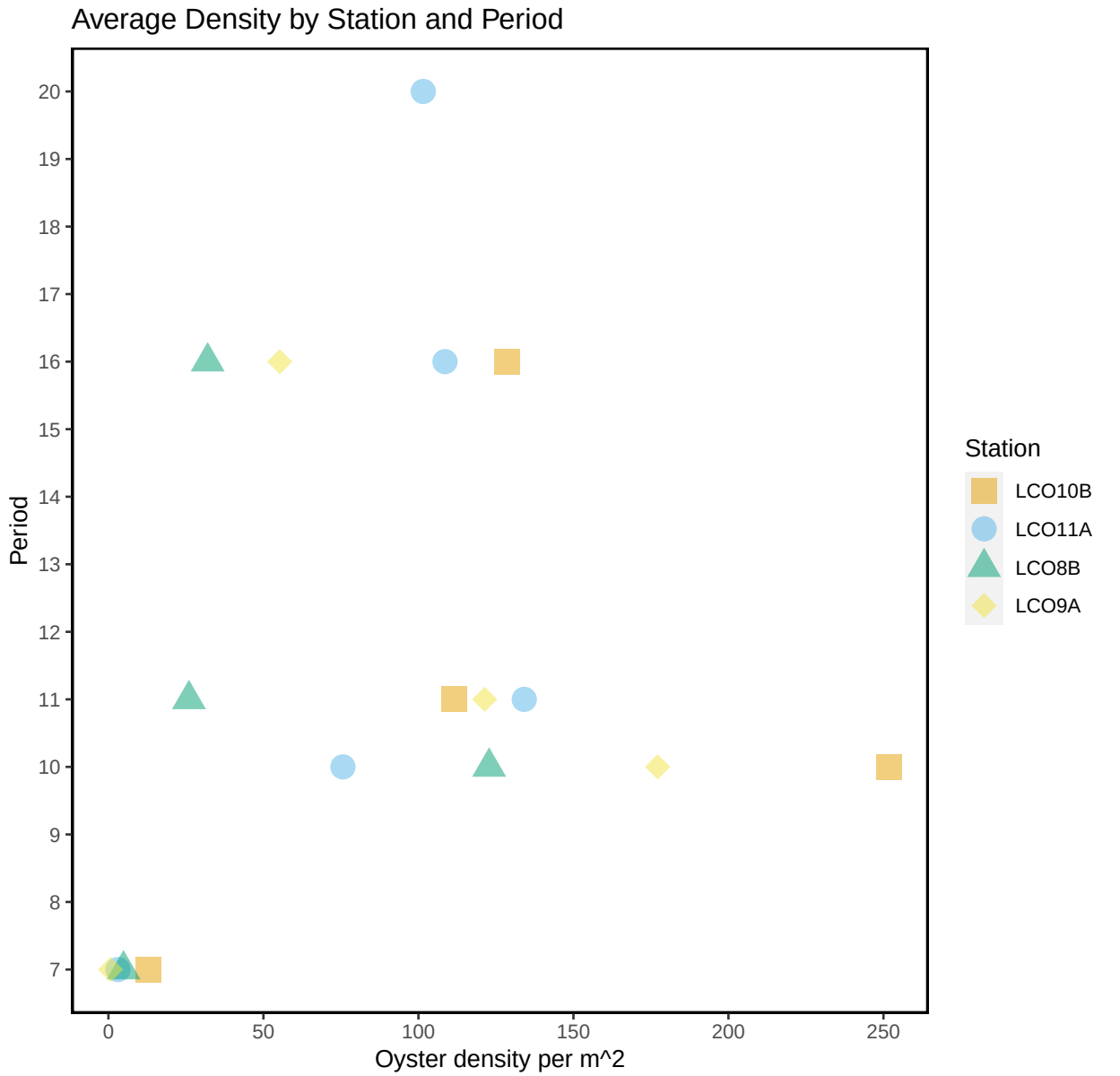


Figure − Average live oyster density comparison by station and period for all stations that were sampled during the pilc

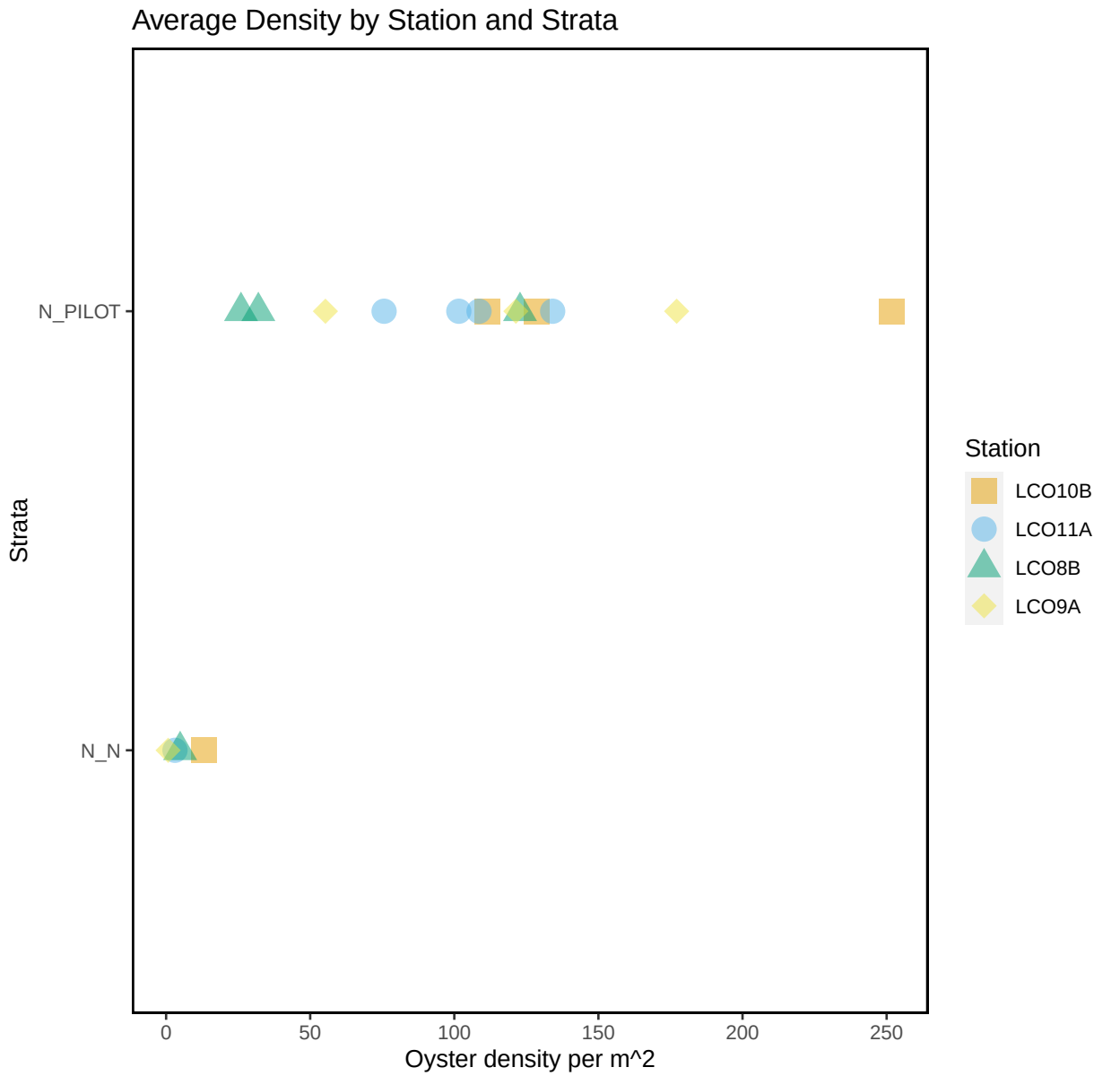


Figure − Average live oyster density comparison by station and strata for all stations that were sampled during th

Latest Data Entered

Displayed are the entries for the last date of sampling (2021-01-15).

date	station	tran_length	count_live	count_dead	treatment	strata
2021-01-15	LCI38	2.5	171	13	control	N_N
2021-01-15	LCI38	5.0	0	0	control	N_N
2021-01-15	LCI38	7.5	0	0	control	N_N
2021-01-15	LCI38	10.0	114	43	control	N_N
2021-01-15	LCI38	12.5	107	14	control	N_N
2021-01-15	LCI38	14.9	45	9	control	N_N
2021-01-15	LCI39	2.5	92	13	control	N_N
2021-01-15	LCI39	5.0	110	1	control	N_N
2021-01-15	LCI39	7.5	14	3	control	N_N
2021-01-15	LCI39	10.0	24	1	control	N_N
2021-01-15	LCI39	12.5	44	1	control	N_N
2021-01-15	LCI39	15.0	4	1	control	N_N
2021-01-15	LCI39	17.5	49	5	control	N_N
2021-01-15	LCI39	19.8	44	2	control	N_N