

DRAFT SEACAR SAV_WC_Analysis Report

Last compiled on 20 November, 2024

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The following report is a preliminary rough draft, not intended for management decisions.

Funding

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Total Nitrogen Calculation

If both “Total” and “Dissolved” components are reported, only “Total” is used. If the total is not reported, then the dissolved components are used as a best available replacement. Total nitrogen calculations are done using nitrogen components with the same sample fraction, nitrogen components with mixed total/dissolved sample fractions are not used. In other words, total nitrogen can be calculated when TKN and NO₃O₂ are both total sample fractions, or when both are dissolved sample fractions. *Future calculations of total nitrogen values may be based on components with mixed sample fractions.*

Alligator Harbor Aquatic Preserve

Programs contributing SAV Data:

Table 1: Programs contributing SAV data in Alligator Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Braun Blanquet Score	557	2008	2023	531
Percent Cover	558	2009	2017	2984

SAV Program names:

557 - Central Panhandle Aquatic Preserves Seagrass Monitoring

558 - Franklin County Coastal Waters Seagrass Monitoring

Chlorophyll-a (corrected & uncorrected)

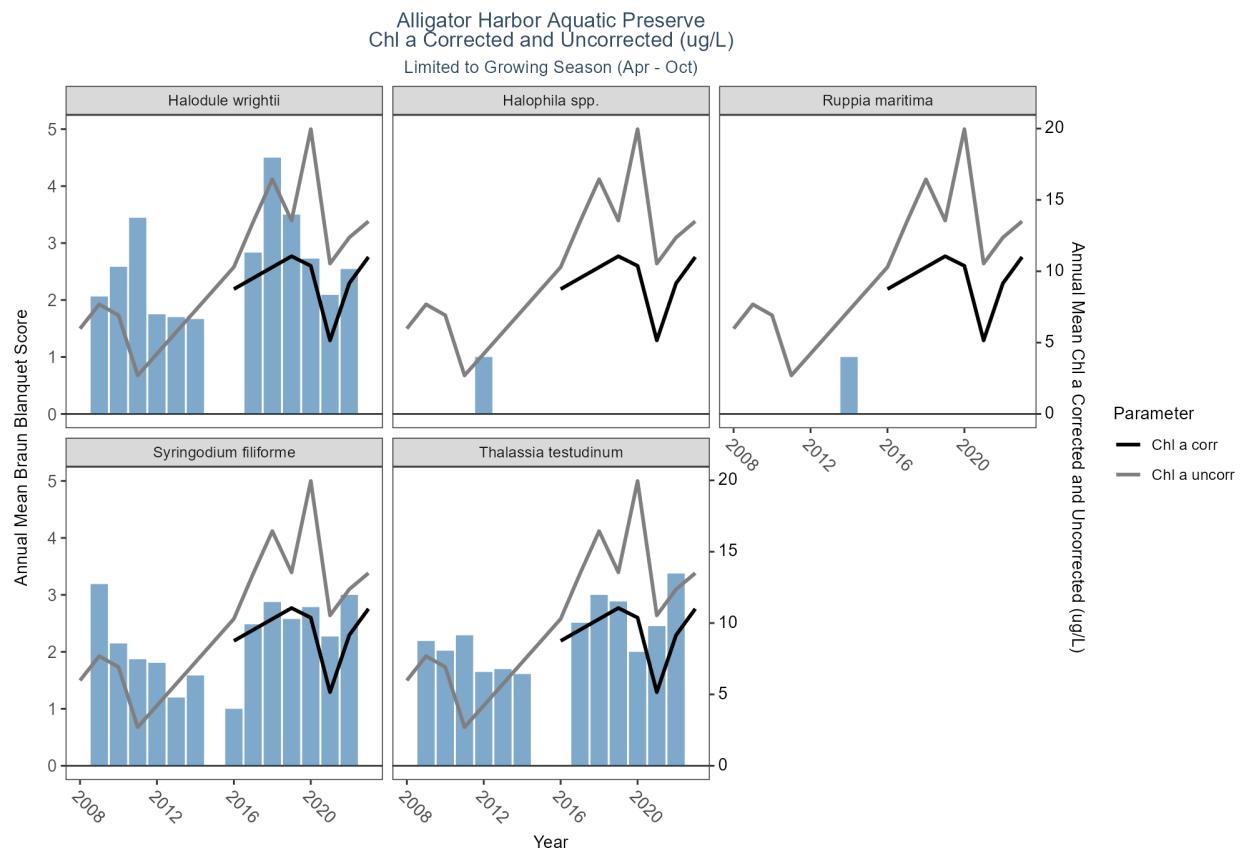


Table 2: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Alligator Harbor Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2016	8.750	7.5	1.0	22.0	5.780
Chl a corr	2019	11.053	10.0	3.0	23.0	5.844
Chl a corr	2020	10.379	9.0	1.0	20.0	5.616

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2021	5.156	3.0	1.0	15.0	3.900
Chl a corr	2022	9.152	8.0	3.0	24.0	4.898
Chl a corr	2023	11.000	12.0	4.0	15.0	4.000
Chl a uncorr	2008	5.979	5.5	1.0	20.0	4.260
Chl a uncorr	2009	7.681	7.0	1.0	22.0	5.631
Chl a uncorr	2010	6.917	5.0	3.0	23.0	4.889
Chl a uncorr	2011	2.700	2.3	0.5	6.8	2.171
Chl a uncorr	2016	10.292	8.5	2.0	24.0	6.389
Chl a uncorr	2017	13.446	12.5	3.0	26.0	6.208
Chl a uncorr	2018	16.446	14.0	2.0	47.0	9.974
Chl a uncorr	2019	13.553	13.0	2.0	28.0	6.562
Chl a uncorr	2020	19.960	18.5	1.2	31.0	7.039
Chl a uncorr	2021	10.538	9.0	0.0	30.0	6.942
Chl a uncorr	2022	12.364	11.0	5.0	29.0	5.932
Chl a uncorr	2023	13.500	15.0	6.0	18.0	4.408

Programs contributing WQ Data:

Table 3: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Alligator Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	514	2019	2023	144
Chl a corr	5002	2016	2022	37
Chl a uncorr	103	2021	2021	85
Chl a uncorr	514	2001	2023	665
Chl a uncorr	5002	2019	2022	13

WQ Program names:

514 - Florida LAKEWATCH Program

5002 - Florida STORET / WIN

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

Colored Dissolved Organic Matter

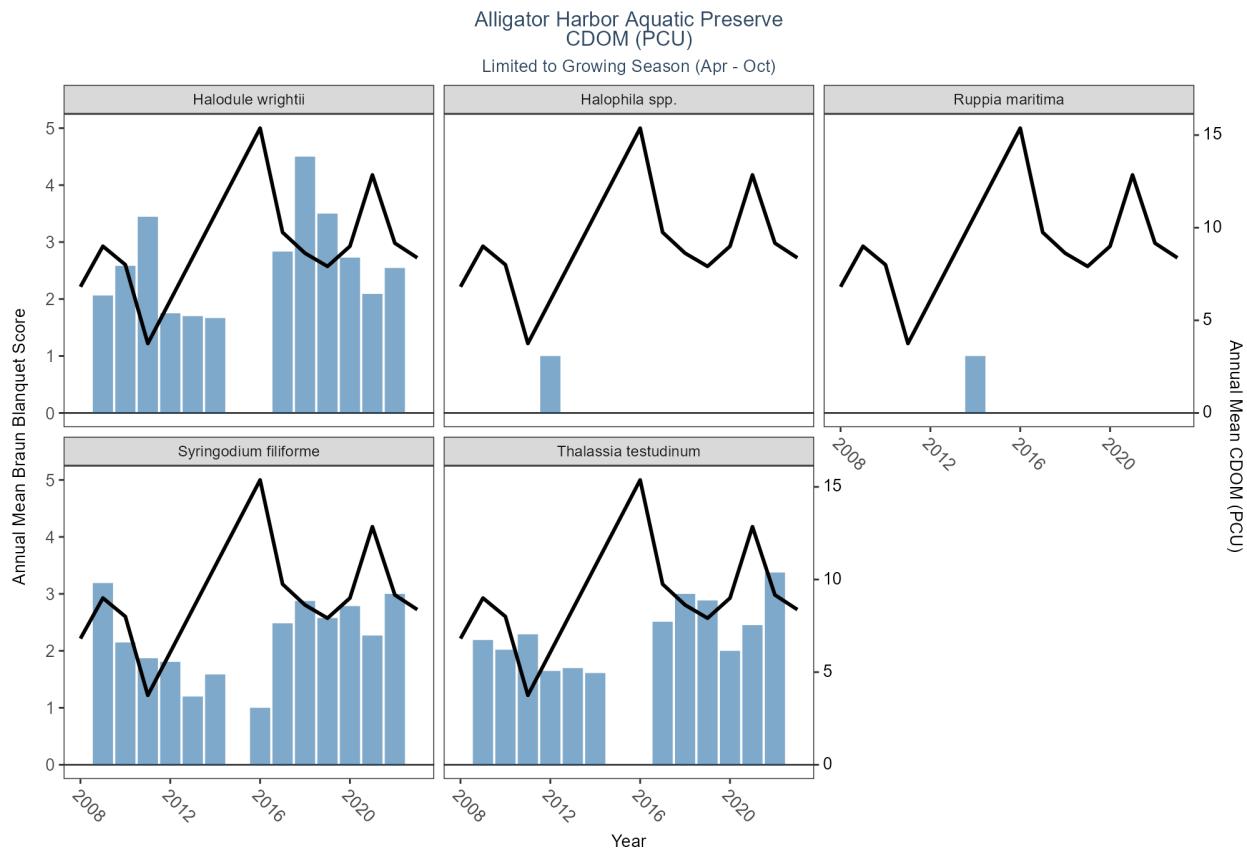


Table 4: WQ Summary for Colored Dissolved Organic Matter in Alligator Harbor Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
CDOM	2008	6.812	7.0	5	10	1.167
CDOM	2009	9.000	11.5	2	13	4.305
CDOM	2010	8.000	7.0	5	16	2.571
CDOM	2011	3.750	4.0	3	5	0.707
CDOM	2016	15.375	15.5	13	17	1.685
CDOM	2017	9.750	9.0	4	21	5.015
CDOM	2018	8.625	8.5	4	16	3.255
CDOM	2019	7.913	7.0	5	13	1.953
CDOM	2020	9.000	9.0	4	14	2.719
CDOM	2021	12.850	11.0	5	37	7.628
CDOM	2022	9.167	9.0	4	15	2.697
CDOM	2023	8.375	8.0	7	12	1.598

Programs contributing WQ Data:

Table 5: Programs contributing WQ data for Colored Dissolved Organic Matter in Alligator Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
CDOM	103	2021	2021	16
CDOM	514	2001	2023	312

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

514 - Florida LAKEWATCH Program

Dissolved Oxygen

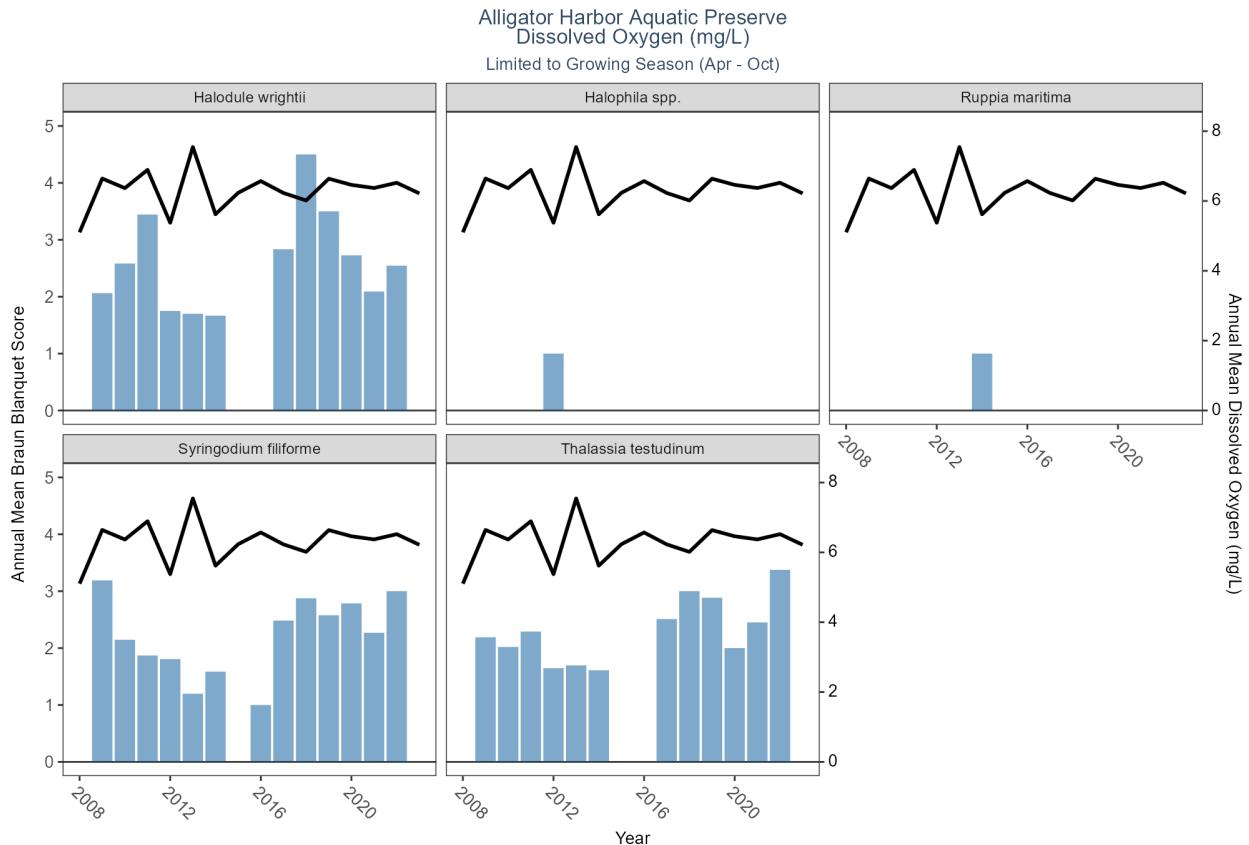


Table 6: WQ Summary for Dissolved Oxygen in Alligator Harbor Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2008	5.103	4.80	2.10	9.80	1.848
Dissolved Oxygen	2009	6.643	6.80	2.90	15.70	1.387
Dissolved Oxygen	2010	6.369	7.20	2.20	10.60	2.002
Dissolved Oxygen	2011	6.892	6.90	4.40	9.40	0.835
Dissolved Oxygen	2012	5.377	5.40	2.80	8.50	1.660
Dissolved Oxygen	2013	7.545	7.20	2.10	18.60	1.920
Dissolved Oxygen	2014	5.620	5.60	2.20	7.70	0.901

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2015	6.234	6.10	4.10	10.00	0.954
Dissolved Oxygen	2016	6.570	6.50	3.00	9.84	1.106
Dissolved Oxygen	2017	6.229	6.16	2.40	15.40	1.272
Dissolved Oxygen	2018	6.015	6.25	2.20	9.10	1.113
Dissolved Oxygen	2019	6.638	6.58	4.93	9.90	0.951
Dissolved Oxygen	2020	6.461	6.51	4.12	9.00	0.865
Dissolved Oxygen	2021	6.372	6.19	4.00	9.00	1.054
Dissolved Oxygen	2022	6.522	6.50	4.10	10.42	1.243
Dissolved Oxygen	2023	6.218	6.17	4.32	9.26	0.846

Programs contributing WQ Data:

Table 7: Programs contributing WQ data for Dissolved Oxygen in Alligator Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	1998	2022	1351
Dissolved Oxygen	95	2004	2018	149
Dissolved Oxygen	103	2021	2021	10
Dissolved Oxygen	469	2016	2023	408
Dissolved Oxygen	557	2006	2023	375
Dissolved Oxygen	5002	1999	2022	5100

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 469 - Central Panhandle Aquatic Preserve WQ Monitoring
- 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
- 5002 - Florida STORET / WIN

pH

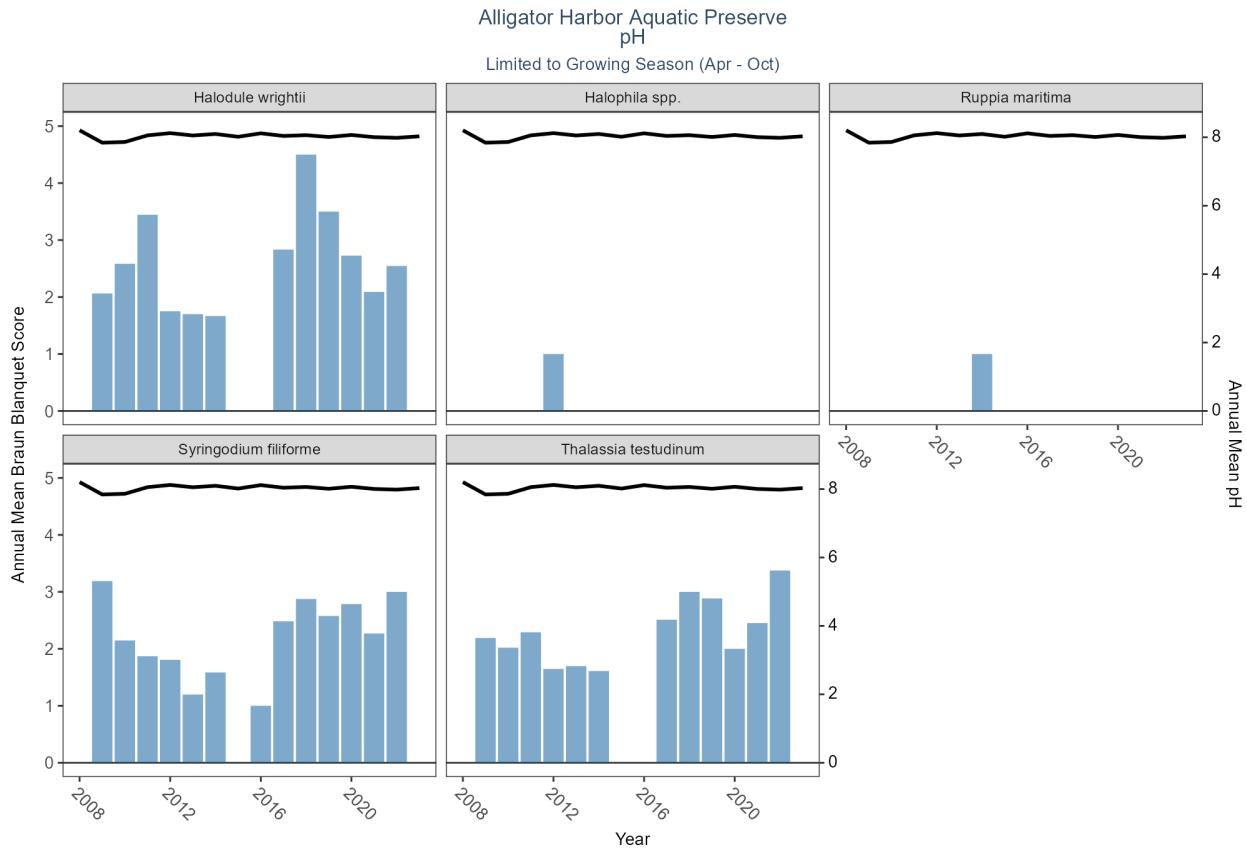


Table 8: WQ Summary for pH in Alligator Harbor Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	2008	8.205	8.20	7.60	8.60	0.211
pH	2009	7.842	8.00	6.39	8.60	0.389
pH	2010	7.863	8.08	4.70	8.43	0.640
pH	2011	8.056	8.10	7.26	8.50	0.302
pH	2012	8.121	8.20	7.47	8.40	0.202
pH	2013	8.053	8.06	7.62	8.60	0.210
pH	2014	8.096	8.10	7.50	8.54	0.186
pH	2015	8.016	8.00	7.80	8.30	0.114
pH	2016	8.116	8.10	7.70	8.50	0.132
pH	2017	8.040	8.00	7.50	8.68	0.184
pH	2018	8.062	8.07	7.75	8.50	0.130
pH	2019	8.009	8.00	7.74	8.30	0.128
pH	2020	8.068	8.04	7.30	9.36	0.317
pH	2021	8.004	7.99	7.80	8.30	0.107
pH	2022	7.984	8.00	7.51	8.26	0.139
pH	2023	8.029	7.97	7.77	8.82	0.204

Programs contributing WQ Data:

Table 9: Programs contributing WQ data for pH in Alligator Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	1998	2022	1342
pH	95	2008	2018	143
pH	103	2021	2021	10
pH	469	2016	2023	407
pH	557	2006	2023	337
pH	558	2008	2014	311
pH	5002	1999	2022	2428

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 469 - Central Panhandle Aquatic Preserve WQ Monitoring
- 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
- 558 - Franklin County Coastal Waters Seagrass Monitoring
- 5002 - Florida STORET / WIN

Salinity

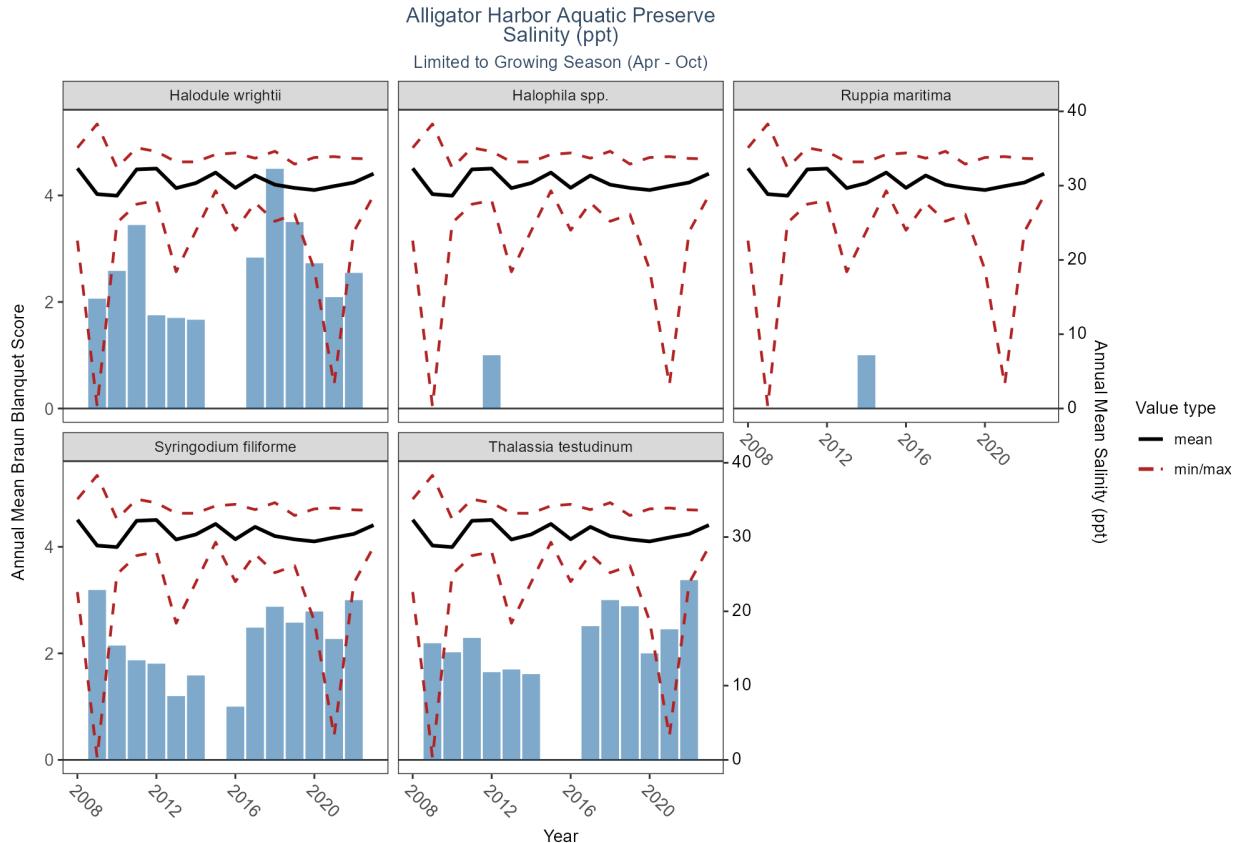


Table 10: WQ Summary for Salinity in Alligator Harbor Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	2008	32.330	32.60	22.60	35.10	1.308
Salinity	2009	28.854	29.10	0.30	38.30	3.357
Salinity	2010	28.649	29.10	25.00	32.40	1.740
Salinity	2011	32.189	32.80	27.50	35.10	2.060
Salinity	2012	32.295	33.20	28.00	34.60	1.790
Salinity	2013	29.667	30.40	18.40	33.20	3.271
Salinity	2014	30.349	30.50	23.90	33.20	1.903
Salinity	2015	31.761	31.90	29.30	34.20	1.140
Salinity	2016	29.704	29.20	24.00	34.40	2.280
Salinity	2017	31.368	31.46	27.70	33.69	1.044
Salinity	2018	30.130	30.40	25.20	34.63	2.142
Salinity	2019	29.691	30.00	26.14	32.90	1.519
Salinity	2020	29.410	29.77	18.70	33.79	2.334
Salinity	2021	29.934	30.30	3.19	33.91	3.514
Salinity	2022	30.418	30.75	23.80	33.66	1.936
Salinity	2023	31.608	31.77	28.68	33.59	1.026

Programs contributing WQ Data:

Table 11: Programs contributing WQ data for Salinity in Alligator Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	1998	2022	1353
Salinity	95	1996	2018	170
Salinity	469	2016	2023	408
Salinity	557	2006	2023	372
Salinity	558	2008	2014	426
Salinity	5002	1999	2022	6158

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 469 - Central Panhandle Aquatic Preserve WQ Monitoring
- 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
- 558 - Franklin County Coastal Waters Seagrass Monitoring
- 5002 - Florida STORET / WIN

Secchi Depth

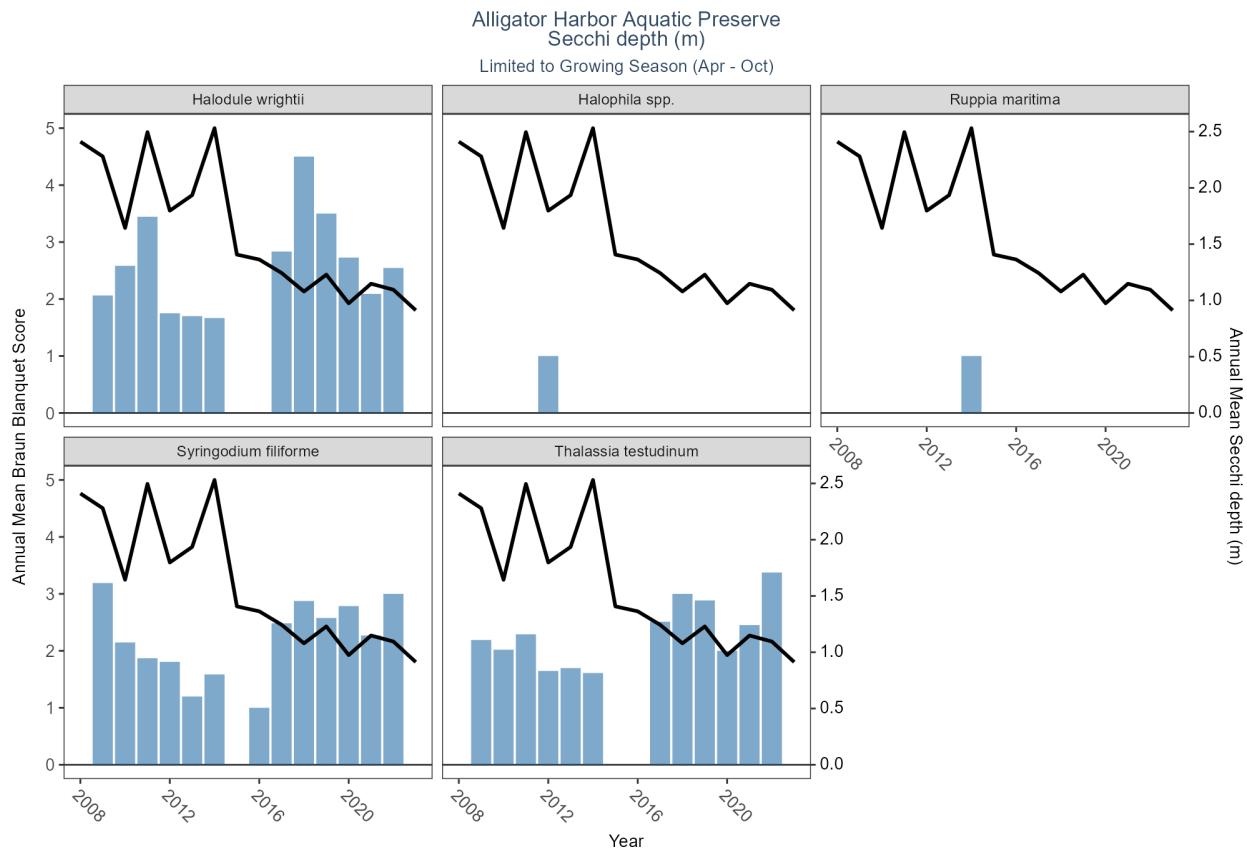


Table 12: WQ Summary for Secchi Depth in Alligator Harbor Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2008	2.411	1.600	0.549	9.99	2.705
Secchi depth	2009	2.280	1.500	0.305	9.99	2.620
Secchi depth	2010	1.644	1.371	0.310	9.99	1.720
Secchi depth	2011	2.496	1.340	0.300	9.99	3.076
Secchi depth	2012	1.797	1.000	0.300	9.99	2.340
Secchi depth	2013	1.935	1.200	0.340	9.99	2.595
Secchi depth	2014	2.531	1.200	0.340	9.99	3.074
Secchi depth	2015	1.407	1.700	0.400	2.20	0.672
Secchi depth	2016	1.363	1.310	0.300	2.60	0.590
Secchi depth	2017	1.244	0.914	0.300	9.99	1.096
Secchi depth	2018	1.079	0.914	0.300	2.70	0.502
Secchi depth	2019	1.229	1.067	0.400	2.50	0.555
Secchi depth	2020	0.975	1.000	0.300	2.60	0.350
Secchi depth	2021	1.148	1.083	0.300	3.20	0.508
Secchi depth	2022	1.095	0.995	0.380	2.60	0.515
Secchi depth	2023	0.912	0.900	0.500	1.80	0.292

Programs contributing WQ Data:

Table 13: Programs contributing WQ data for Secchi Depth in Alligator Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	1998	2022	1341
Secchi depth	103	2021	2021	6
Secchi depth	469	2016	2023	365
Secchi depth	514	2001	2023	694
Secchi depth	557	2007	2023	211
Secchi depth	558	2008	2017	561
Secchi depth	5002	2019	2022	16

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 469 - Central Panhandle Aquatic Preserve WQ Monitoring
- 514 - Florida LAKEWATCH Program
- 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
- 558 - Franklin County Coastal Waters Seagrass Monitoring
- 5002 - Florida STORET / WIN

Total Nitrogen & Total Phosphorus

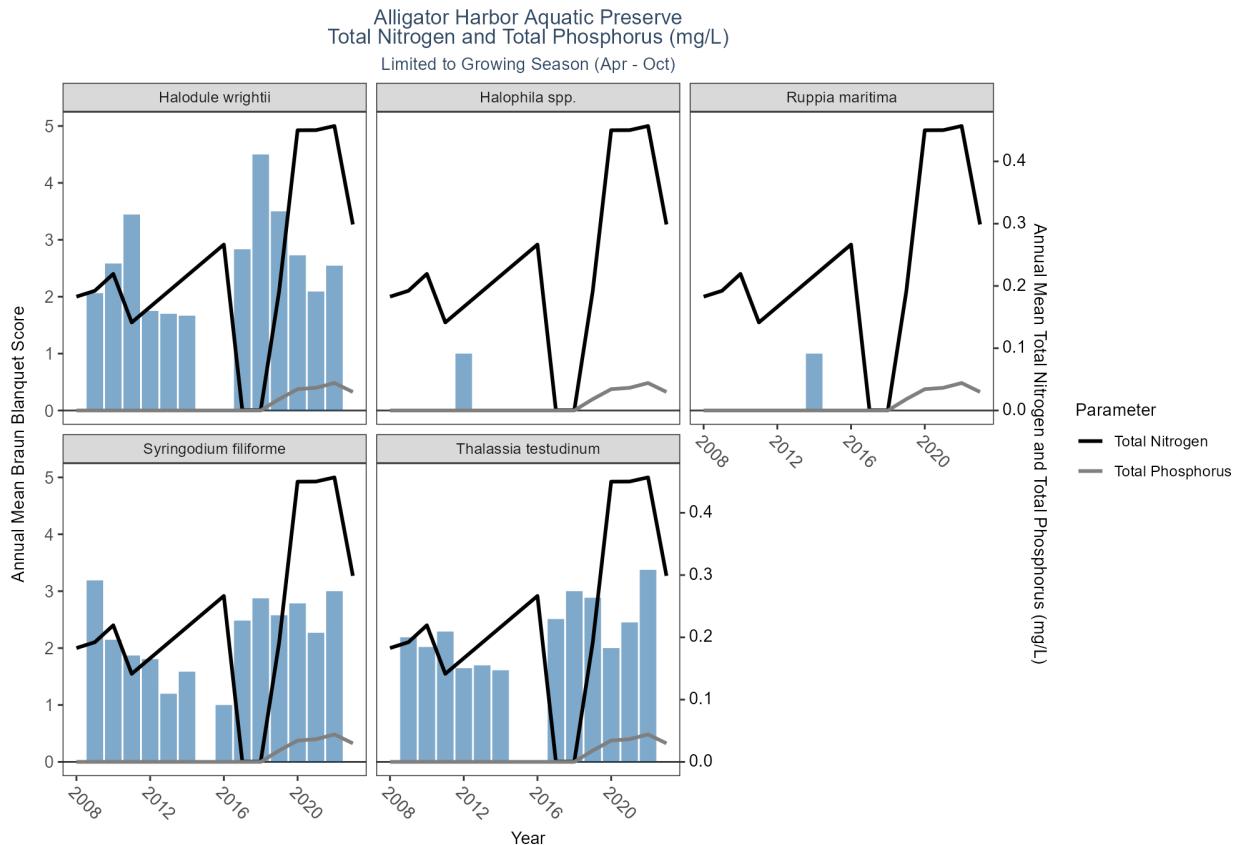


Table 14: WQ Summary for Total Nitrogen & Total Phosphorus in Alligator Harbor Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2008	0.183	0.100	0.000	0.800	0.200
Total Nitrogen	2009	0.192	0.100	0.000	0.840	0.222
Total Nitrogen	2010	0.219	0.001	0.000	0.900	0.257
Total Nitrogen	2011	0.141	0.070	0.000	0.500	0.170
Total Nitrogen	2016	0.267	0.101	0.000	1.190	0.332
Total Nitrogen	2017	0.001	0.001	0.000	0.001	0.000
Total Nitrogen	2018	0.001	0.001	0.000	0.001	0.000
Total Nitrogen	2019	0.192	0.001	0.000	0.860	0.242
Total Nitrogen	2020	0.450	0.450	0.160	0.850	0.145
Total Nitrogen	2021	0.450	0.460	0.170	0.930	0.155
Total Nitrogen	2022	0.457	0.432	0.220	1.090	0.179
Total Nitrogen	2023	0.299	0.325	0.160	0.390	0.080
Total Phosphorus	2008	0.000	0.000	0.000	0.000	0.000
Total Phosphorus	2009	0.000	0.000	0.000	0.000	0.000
Total Phosphorus	2010	0.000	0.000	0.000	0.000	0.000
Total Phosphorus	2011	0.000	0.000	0.000	0.000	0.000
Total Phosphorus	2016	0.000	0.000	0.000	0.000	0.000
Total Phosphorus	2017	0.000	0.000	0.000	0.000	0.000
Total Phosphorus	2018	0.000	0.000	0.000	0.000	0.000
Total Phosphorus	2019	0.018	0.000	0.000	0.073	0.022
Total Phosphorus	2020	0.034	0.032	0.009	0.064	0.011
Total Phosphorus	2021	0.036	0.035	0.015	0.093	0.014
Total Phosphorus	2022	0.044	0.037	0.017	0.101	0.021
Total Phosphorus	2023	0.030	0.030	0.018	0.038	0.007

Programs contributing WQ Data:

Table 15: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Alligator Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	514	2001	2023	697
Total Nitrogen	5002	2001	2022	319
Total Phosphorus	103	2021	2021	35
Total Phosphorus	514	2001	2023	679
Total Phosphorus	5002	2019	2022	12

WQ Program names:

514 - Florida LAKEWATCH Program

5002 - Florida STORET / WIN

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

Turbidity

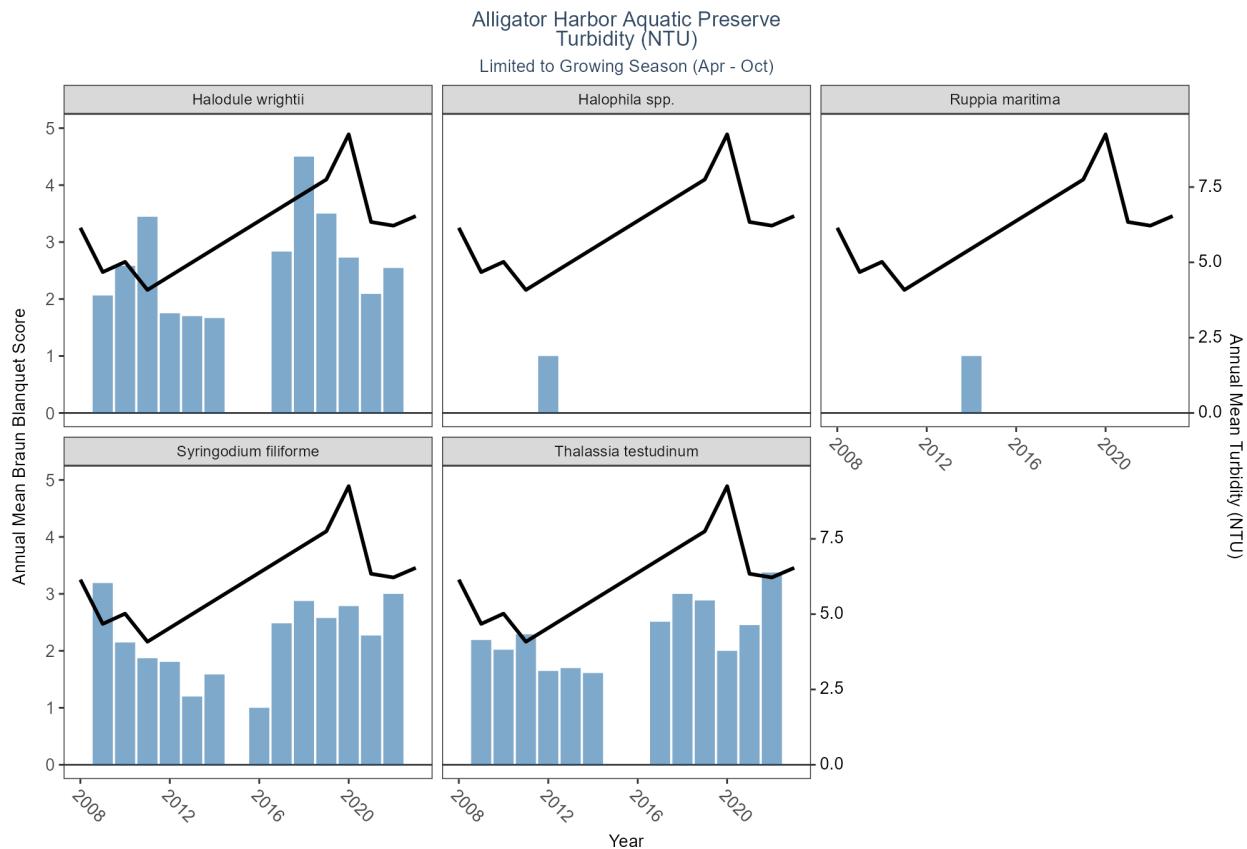


Table 16: WQ Summary for Turbidity in Alligator Harbor Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	2008	6.147	4.70	0.90	30.00	4.735
Turbidity	2009	4.677	4.50	0.90	12.00	1.838
Turbidity	2010	5.017	4.80	1.60	15.00	1.808
Turbidity	2011	4.085	3.75	1.40	9.70	1.559
Turbidity	2019	7.750	7.30	3.40	13.00	3.954
Turbidity	2020	9.250	8.55	6.90	13.00	2.671
Turbidity	2021	6.340	5.90	0.90	14.40	3.177
Turbidity	2022	6.219	5.30	0.10	27.20	5.105
Turbidity	2023	6.537	5.94	0.12	20.43	4.365

Programs contributing WQ Data:

Table 17: Programs contributing WQ data for Turbidity in Alligator Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	103	2021	2021	3
Turbidity	469	2021	2023	168

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	557	2022	2023	76
Turbidity	5002	1999	2022	3232

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

469 - Central Panhandle Aquatic Preserve WQ Monitoring

557 - Central Panhandle Aquatic Preserves Seagrass Monitoring

5002 - Florida STORET / WIN

Water Temperature

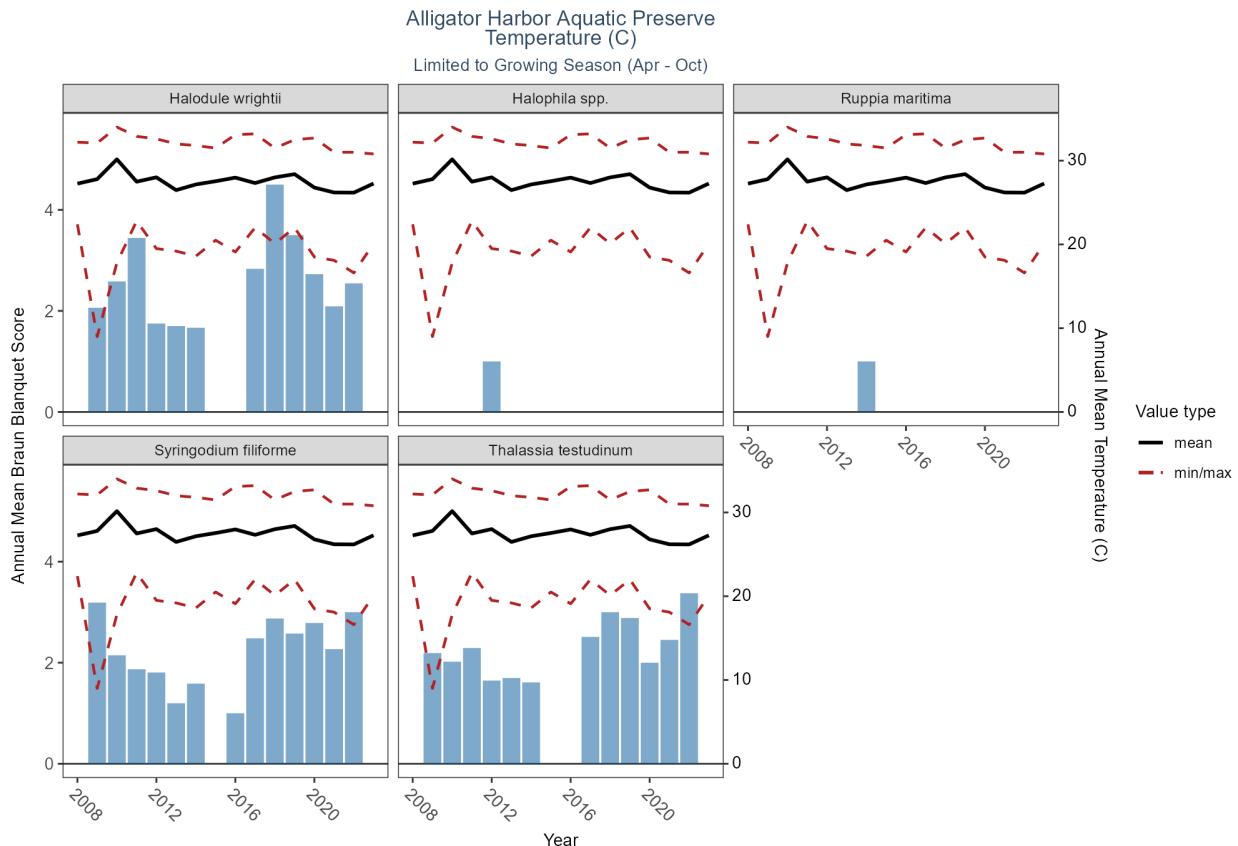


Table 18: WQ Summary for Water Temperature in Alligator Harbor Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	2008	27.257	28.00	22.4	32.2	2.536
Temperature	2009	27.791	28.70	9.0	32.1	3.523
Temperature	2010	30.157	31.00	17.8	34.0	2.721
Temperature	2011	27.491	27.10	22.8	32.9	2.413
Temperature	2012	28.009	29.30	19.5	32.6	3.596
Temperature	2013	26.481	27.90	19.2	32.0	3.495
Temperature	2014	27.159	28.70	18.6	31.8	3.467

ParameterName	Year	mean	median	min	max	sd
Temperature	2015	27.545	28.40	20.5	31.5	3.220
Temperature	2016	27.972	29.50	19.1	33.1	4.227
Temperature	2017	27.328	28.30	22.0	33.2	3.064
Temperature	2018	28.001	29.15	20.1	31.5	3.098
Temperature	2019	28.387	28.70	22.0	32.5	2.155
Temperature	2020	26.786	26.00	18.5	32.7	2.955
Temperature	2021	26.200	26.70	18.1	31.0	3.444
Temperature	2022	26.183	27.60	16.6	31.0	3.880
Temperature	2023	27.270	29.10	20.1	30.8	3.107

Programs contributing WQ Data:

Table 19: Programs contributing WQ data for Water Temperature in Alligator Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	1998	2022	1359
Temperature	95	1996	2018	165
Temperature	103	2021	2021	10
Temperature	469	2016	2023	408
Temperature	557	2006	2023	375
Temperature	558	2008	2017	444
Temperature	5002	1999	2022	6347

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 469 - Central Panhandle Aquatic Preserve WQ Monitoring
- 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
- 558 - Franklin County Coastal Waters Seagrass Monitoring
- 5002 - Florida STORET / WIN

Apalachicola Bay Aquatic Preserve

Programs contributing SAV Data:

Table 20: Programs contributing SAV data in Apalachicola Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Braun Blanquet Score	557	2008	2023	308
Braun Blanquet Score	997	2003	2003	79
Percent Cover	997	2003	2003	81

SAV Program names:

557 - Central Panhandle Aquatic Preserves Seagrass Monitoring

997 - Apalachicola Bay Ephemeral SAV Monitoring

997 - Apalachicola Bay Ephemeral SAV Monitoring

Chlorophyll-a (corrected & uncorrected)

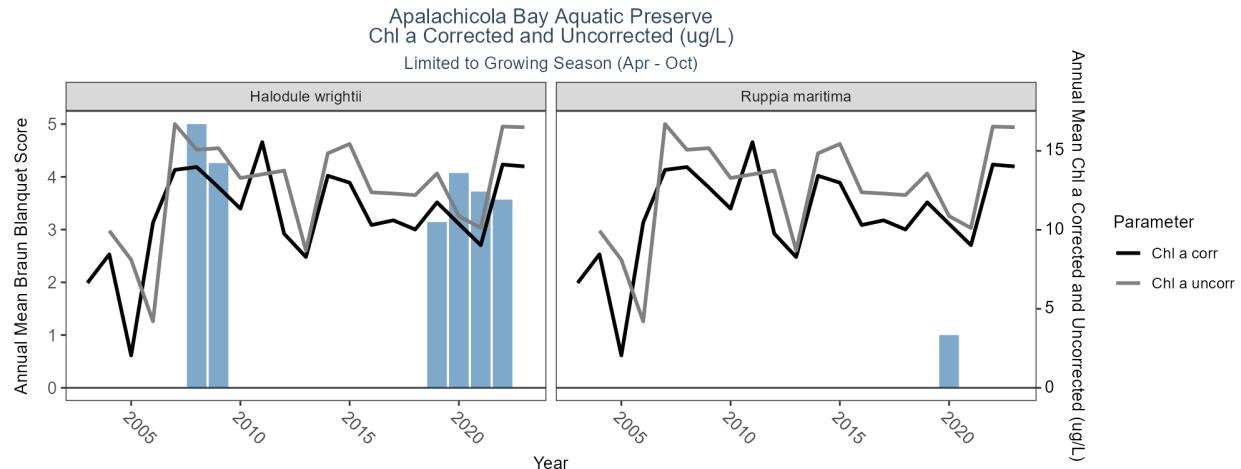


Table 21: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Apalachicola Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2003	6.641	5.767	0.641	22.428	4.387
Chl a corr	2004	8.451	7.700	0.800	24.400	5.137
Chl a corr	2005	2.047	1.920	0.500	5.980	1.029
Chl a corr	2006	10.454	9.515	0.500	25.380	5.638
Chl a corr	2007	13.797	12.850	3.300	34.600	7.226
Chl a corr	2008	13.978	12.750	2.900	32.200	6.999
Chl a corr	2009	12.689	10.000	0.700	51.200	8.870
Chl a corr	2010	11.342	10.700	2.200	24.800	5.011
Chl a corr	2011	15.554	14.100	4.200	38.200	7.317
Chl a corr	2012	9.755	8.490	0.450	27.040	7.092
Chl a corr	2013	8.279	7.200	0.550	32.850	6.070
Chl a corr	2014	13.424	11.000	0.790	61.000	11.045

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2015	12.987	12.000	0.550	43.000	6.511
Chl a corr	2016	10.305	10.000	0.750	26.000	5.389
Chl a corr	2017	10.604	10.000	1.800	33.000	5.345
Chl a corr	2018	10.020	10.000	0.600	26.000	3.960
Chl a corr	2019	11.743	12.000	2.400	29.000	4.535
Chl a corr	2020	10.375	10.000	1.600	30.000	6.890
Chl a corr	2021	9.028	8.000	2.300	28.000	5.352
Chl a corr	2022	14.133	13.000	4.100	35.000	6.396
Chl a corr	2023	14.015	14.000	3.000	25.000	4.695
Chl a uncorr	2004	9.941	9.941	9.941	9.941	0.000
Chl a uncorr	2005	8.105	8.105	4.560	11.650	5.013
Chl a uncorr	2006	4.205	4.205	4.205	4.205	0.000
Chl a uncorr	2007	16.695	16.100	2.000	39.400	8.699
Chl a uncorr	2008	15.072	14.000	2.600	34.600	7.829
Chl a uncorr	2009	15.170	12.400	1.100	52.300	10.325
Chl a uncorr	2010	13.282	12.500	2.300	28.600	5.758
Chl a uncorr	2012	13.750	15.500	7.000	17.000	4.573
Chl a uncorr	2013	8.694	8.100	0.700	29.000	6.265
Chl a uncorr	2014	14.844	12.000	0.790	71.000	12.762
Chl a uncorr	2015	15.437	14.000	4.000	47.000	7.453
Chl a uncorr	2016	12.376	12.000	0.800	29.000	6.320
Chl a uncorr	2017	12.299	11.000	2.900	39.000	6.164
Chl a uncorr	2018	12.199	13.000	0.930	30.000	4.620
Chl a uncorr	2019	13.571	14.000	2.700	35.000	5.397
Chl a uncorr	2020	10.870	9.000	1.200	34.000	8.456
Chl a uncorr	2021	10.119	8.900	2.300	30.000	5.887
Chl a uncorr	2022	16.537	15.000	4.200	45.000	7.365
Chl a uncorr	2023	16.498	16.000	3.000	30.000	5.820

Programs contributing WQ Data:

Table 22: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Apalachicola Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	355	2002	2023	4151
Chl a corr	5002	2000	2023	284
Chl a uncorr	103	2002	2021	19
Chl a uncorr	115	2002	2004	2
Chl a uncorr	118	2010	2010	3
Chl a uncorr	355	2007	2023	2289
Chl a uncorr	514	2007	2008	36
Chl a uncorr	5002	2012	2023	38

WQ Program names:

355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program

5002 - Florida STORET / WIN

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

514 - Florida LAKEWATCH Program

Dissolved Oxygen

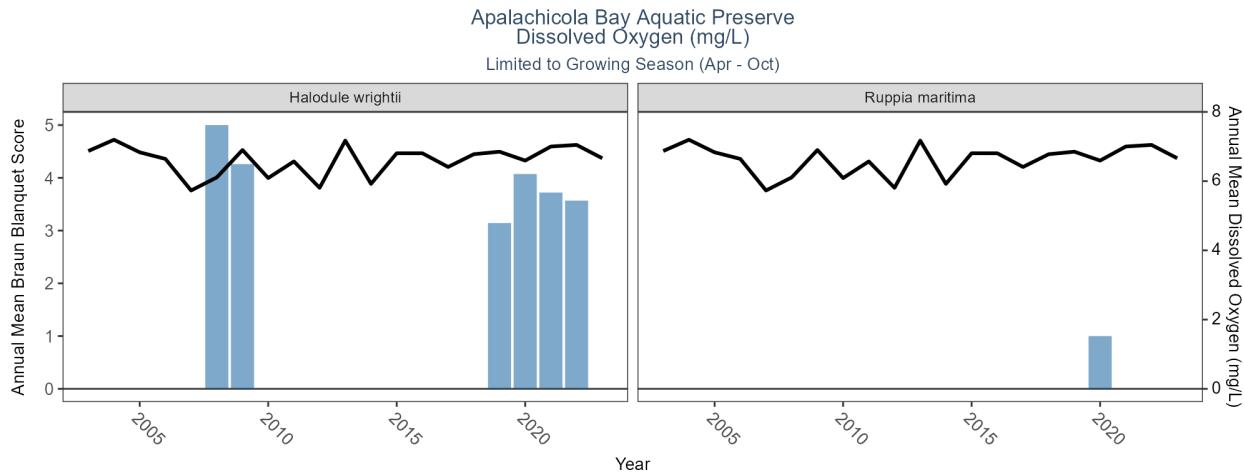


Table 23: WQ Summary for Dissolved Oxygen in Apalachicola Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2003	6.870	6.850	1.90	11.80	1.731
Dissolved Oxygen	2004	7.196	6.900	2.60	14.10	1.681
Dissolved Oxygen	2005	6.833	6.600	1.00	14.40	1.750
Dissolved Oxygen	2006	6.643	6.775	1.00	16.70	1.510
Dissolved Oxygen	2007	5.730	5.600	0.30	13.40	1.825
Dissolved Oxygen	2008	6.108	6.190	1.20	16.80	1.705
Dissolved Oxygen	2009	6.899	7.100	0.40	14.00	1.919
Dissolved Oxygen	2010	6.090	6.120	0.90	14.70	2.016
Dissolved Oxygen	2011	6.569	6.600	1.00	12.00	1.757
Dissolved Oxygen	2012	5.808	5.900	0.03	15.97	1.731
Dissolved Oxygen	2013	7.171	7.100	1.23	18.20	2.022
Dissolved Oxygen	2014	5.922	6.000	0.80	19.90	1.924
Dissolved Oxygen	2015	6.805	6.700	1.40	18.20	1.679
Dissolved Oxygen	2016	6.805	6.800	0.20	16.00	1.525
Dissolved Oxygen	2017	6.410	6.435	2.30	10.30	1.274
Dissolved Oxygen	2018	6.778	6.900	1.30	12.50	1.558
Dissolved Oxygen	2019	6.850	6.800	2.30	13.20	1.311
Dissolved Oxygen	2020	6.594	6.405	2.30	11.30	1.432
Dissolved Oxygen	2021	7.001	7.000	2.30	13.30	1.741
Dissolved Oxygen	2022	7.046	6.700	2.60	15.00	1.761
Dissolved Oxygen	2023	6.661	6.610	3.47	8.10	0.633

Programs contributing WQ Data:

Table 24: Programs contributing WQ data for Dissolved Oxygen in Apalachicola Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	1998	2022	15817
Dissolved Oxygen	95	1995	2018	185

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	103	2004	2021	16
Dissolved Oxygen	115	1992	2004	16
Dissolved Oxygen	118	2015	2020	50
Dissolved Oxygen	119	1994	1994	14
Dissolved Oxygen	129	2000	2023	2047
Dissolved Oxygen	355	2003	2019	1101
Dissolved Oxygen	557	2006	2023	240
Dissolved Oxygen	4044	2007	2023	190
Dissolved Oxygen	5002	1992	2023	14752
Dissolved Oxygen	5071	2017	2017	3

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
 95 - Harmful Algal Bloom Marine Observation Network
 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
 115 - Environmental Monitoring Assessment Program
 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
 119 - National Status and Trends Bioeffects program
 129 - Apalachicola National Estuarine Research Reserve Juvenile Fish and Benthic Macroinvertebrate Monitoring
 355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
 4044 - NRDA Oyster Cultch Recovery Project
 5002 - Florida STORET / WIN
 5071 - Oyster shell heights and taxonomic diversity in 2015-2017 among previously documented oiled and non-oiled reefs in Louisiana, Alabama, and the Florida panhandle

Dissolved Oxygen Saturation

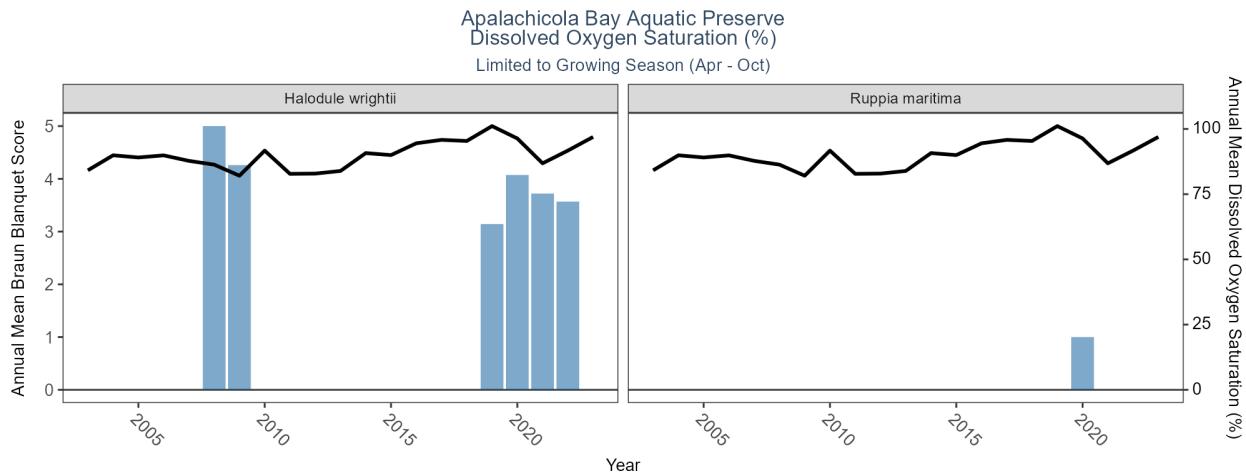


Table 25: WQ Summary for Dissolved Oxygen Saturation in Apalachicola Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2003	84.136	85.40	27.90	120.3	16.920

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2004	89.898	91.55	8.30	150.0	15.538
Dissolved Oxygen Saturation	2005	89.061	90.90	23.60	147.2	21.025
Dissolved Oxygen Saturation	2006	89.868	91.35	53.20	178.3	13.828
Dissolved Oxygen Saturation	2007	87.763	88.20	6.40	132.7	14.911
Dissolved Oxygen Saturation	2008	86.316	87.90	9.40	124.8	14.112
Dissolved Oxygen Saturation	2009	82.072	82.60	6.36	132.7	16.558
Dissolved Oxygen Saturation	2010	91.689	91.40	47.30	119.4	11.917
Dissolved Oxygen Saturation	2011	82.793	83.55	26.40	147.0	15.115
Dissolved Oxygen Saturation	2012	82.883	86.70	0.40	130.3	19.835
Dissolved Oxygen Saturation	2013	83.891	90.30	18.70	113.8	21.272
Dissolved Oxygen Saturation	2014	90.746	92.75	6.60	131.5	18.346
Dissolved Oxygen Saturation	2015	89.977	92.15	11.70	122.0	17.227
Dissolved Oxygen Saturation	2016	94.496	98.80	6.04	123.2	18.152
Dissolved Oxygen Saturation	2017	95.809	98.30	33.70	145.9	16.693
Dissolved Oxygen Saturation	2018	95.390	100.30	19.30	131.5	19.001
Dissolved Oxygen Saturation	2019	101.094	99.85	58.10	138.0	13.087
Dissolved Oxygen Saturation	2020	96.353	96.70	66.70	122.5	13.296
Dissolved Oxygen Saturation	2021	86.824	93.20	34.20	115.3	17.975
Dissolved Oxygen Saturation	2022	91.700	90.80	59.40	129.6	16.443
Dissolved Oxygen Saturation	2023	96.935	96.90	48.40	110.1	9.402

Programs contributing WQ Data:

Table 26: Programs contributing WQ data for Dissolved Oxygen Saturation in Apalachicola Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	129	2000	2023	2033
Dissolved Oxygen Saturation	355	2003	2019	1108
Dissolved Oxygen Saturation	4044	2007	2023	190
Dissolved Oxygen Saturation	5002	2003	2023	89

WQ Program names:

129 - Apalachicola National Estuarine Research Reserve Juvenile Fish and Benthic Macroinvertebrate Monitoring

355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program

4044 - NRDA Oyster Cultch Recovery Project

5002 - Florida STORET / WIN

pH

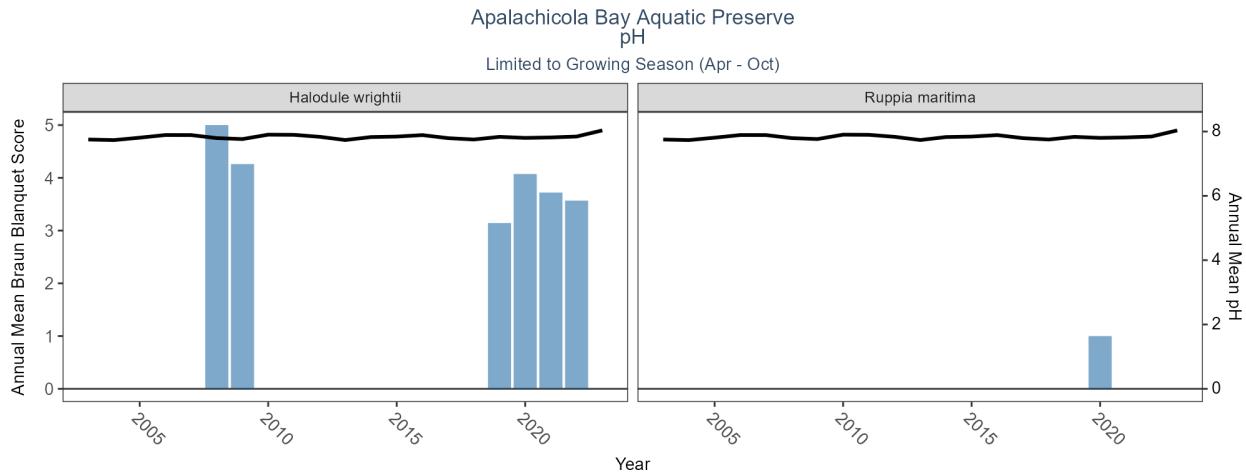


Table 27: WQ Summary for pH in Apalachicola Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	2003	7.751	7.900	4.70	8.90	0.565
pH	2004	7.734	7.900	6.00	8.60	0.492
pH	2005	7.808	7.900	5.40	9.50	0.427
pH	2006	7.891	8.000	6.90	9.00	0.333
pH	2007	7.889	8.000	6.00	8.70	0.377
pH	2008	7.795	7.900	6.80	8.60	0.367
pH	2009	7.765	7.900	3.81	9.10	0.521
pH	2010	7.902	8.000	6.90	8.90	0.357
pH	2011	7.897	8.000	6.80	9.00	0.328
pH	2012	7.836	7.900	5.60	8.60	0.376
pH	2013	7.735	7.800	5.50	8.80	0.453
pH	2014	7.828	7.900	5.14	8.90	0.421
pH	2015	7.843	7.960	6.50	9.90	0.382
pH	2016	7.889	8.000	6.14	8.90	0.387
pH	2017	7.794	7.900	4.90	8.80	0.430
pH	2018	7.751	7.900	5.50	8.60	0.473
pH	2019	7.834	8.000	4.40	8.60	0.437
pH	2020	7.802	7.935	6.10	8.92	0.415
pH	2021	7.816	7.980	6.10	9.20	0.459
pH	2022	7.844	8.000	6.40	8.90	0.493
pH	2023	8.034	8.080	7.04	8.27	0.221

Programs contributing WQ Data:

Table 28: Programs contributing WQ data for pH in Apalachicola Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	1998	2022	15841
pH	95	1964	2018	134

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	103	2004	2021	13
pH	115	1992	2004	16
pH	118	2015	2020	37
pH	129	2000	2023	1209
pH	355	2011	2019	594
pH	557	2006	2023	209
pH	4044	2007	2023	190
pH	5002	1995	2023	8589

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 129 - Apalachicola National Estuarine Research Reserve Juvenile Fish and Benthic Macroinvertebrate Monitoring
- 355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
- 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
- 4044 - NRDA Oyster Cultch Recovery Project
- 5002 - Florida STORET / WIN

Salinity

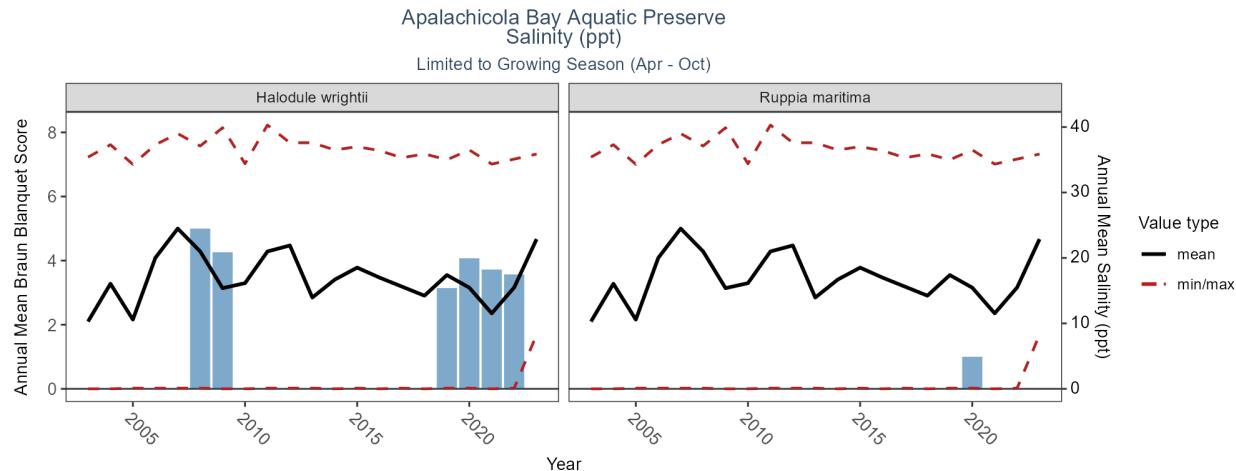


Table 29: WQ Summary for Salinity in Apalachicola Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	2003	10.281	8.50	0.00	35.40	9.417
Salinity	2004	16.056	16.60	0.00	37.30	11.012
Salinity	2005	10.579	8.10	0.10	34.30	9.829
Salinity	2006	20.002	22.70	0.10	37.30	10.989
Salinity	2007	24.490	26.90	0.10	39.00	9.619
Salinity	2008	20.997	23.60	0.10	37.10	10.436

ParameterName	Year	mean	median	min	max	sd
Salinity	2009	15.383	15.00	0.00	39.90	10.825
Salinity	2010	16.148	17.10	0.00	34.40	9.859
Salinity	2011	20.989	23.10	0.10	40.30	10.155
Salinity	2012	21.905	25.00	0.10	37.60	11.147
Salinity	2013	13.947	13.70	0.10	37.60	10.269
Salinity	2014	16.686	18.00	0.00	36.50	10.563
Salinity	2015	18.521	21.10	0.10	37.00	10.918
Salinity	2016	16.992	18.80	0.00	36.40	10.499
Salinity	2017	15.613	16.80	0.10	35.30	10.452
Salinity	2018	14.233	15.00	0.00	35.90	11.308
Salinity	2019	17.384	19.30	0.10	35.00	12.091
Salinity	2020	15.458	15.56	0.10	36.50	12.087
Salinity	2021	11.532	11.50	0.00	34.34	9.407
Salinity	2022	15.489	17.30	0.10	35.10	10.619
Salinity	2023	22.877	21.77	8.28	35.87	7.633

Programs contributing WQ Data:

Table 30: Programs contributing WQ data for Salinity in Apalachicola Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	1998	2022	15869
Salinity	95	1964	2018	274
Salinity	103	2004	2004	3
Salinity	115	1992	2004	16
Salinity	118	2015	2020	57
Salinity	119	1994	1994	14
Salinity	129	2000	2023	2052
Salinity	355	2003	2019	1137
Salinity	456	2006	2013	26
Salinity	557	2006	2023	240
Salinity	4044	2007	2023	190
Salinity	5002	1995	2022	19290
Salinity	5071	2017	2017	3

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 119 - National Status and Trends Bioeffects program
- 129 - Apalachicola National Estuarine Research Reserve Juvenile Fish and Benthic Macroinvertebrate Monitoring
- 355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
- 456 - Oyster Sentinel
- 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
- 4044 - NRDA Oyster Cultch Recovery Project
- 5002 - Florida STORET / WIN

5071 - Oyster shell heights and taxonomic diversity in 2015-2017 among previously documented oiled and non-oiled reefs in Louisiana, Alabama, and the Florida panhandle

Secchi Depth

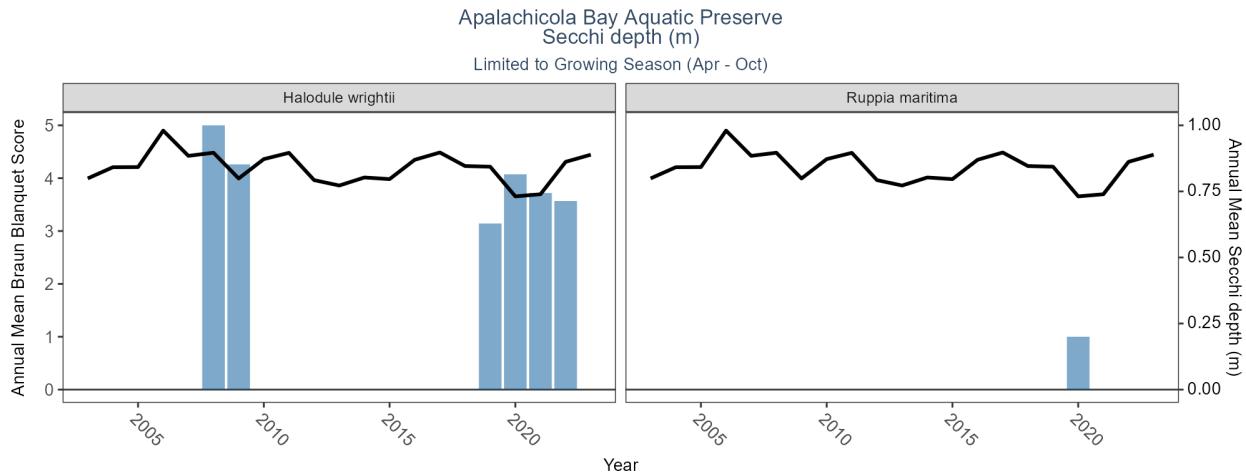


Table 31: WQ Summary for Secchi Depth in Apalachicola Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2003	0.799	0.8	0.2	1.9	0.286
Secchi depth	2004	0.842	0.8	0.2	2.1	0.374
Secchi depth	2005	0.842	0.7	0.2	3.3	0.454
Secchi depth	2006	0.980	0.9	0.2	2.3	0.378
Secchi depth	2007	0.885	0.8	0.1	9.0	0.477
Secchi depth	2008	0.896	0.8	0.2	2.6	0.418
Secchi depth	2009	0.799	0.7	0.1	15.0	0.600
Secchi depth	2010	0.872	0.8	0.1	2.3	0.382
Secchi depth	2011	0.896	0.8	0.2	2.4	0.402
Secchi depth	2012	0.793	0.7	0.2	2.0	0.342
Secchi depth	2013	0.772	0.7	0.1	1.8	0.318
Secchi depth	2014	0.803	0.8	0.1	1.6	0.287
Secchi depth	2015	0.797	0.7	0.2	1.6	0.326
Secchi depth	2016	0.870	0.8	0.1	2.2	0.399
Secchi depth	2017	0.897	0.9	0.2	2.5	0.399
Secchi depth	2018	0.846	0.8	0.2	2.1	0.346
Secchi depth	2019	0.843	0.8	0.2	1.7	0.314
Secchi depth	2020	0.731	0.7	0.1	1.7	0.279
Secchi depth	2021	0.739	0.7	0.2	1.8	0.305
Secchi depth	2022	0.862	0.8	0.3	1.8	0.377
Secchi depth	2023	0.889	0.8	0.1	1.5	0.323

Programs contributing WQ Data:

Table 32: Programs contributing WQ data for Secchi Depth in Apalachicola Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	1998	2022	15720
Secchi depth	103	2021	2021	6
Secchi depth	115	1992	2004	6
Secchi depth	118	2015	2020	8
Secchi depth	129	2000	2023	1015
Secchi depth	355	2011	2019	430
Secchi depth	514	2007	2008	33
Secchi depth	557	2006	2023	134
Secchi depth	5002	2001	2023	39

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 129 - Apalachicola National Estuarine Research Reserve Juvenile Fish and Benthic Macroinvertebrate Monitoring
- 355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
- 514 - Florida LAKEWATCH Program
- 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
- 5002 - Florida STORET / WIN

Total Nitrogen & Total Phosphorus

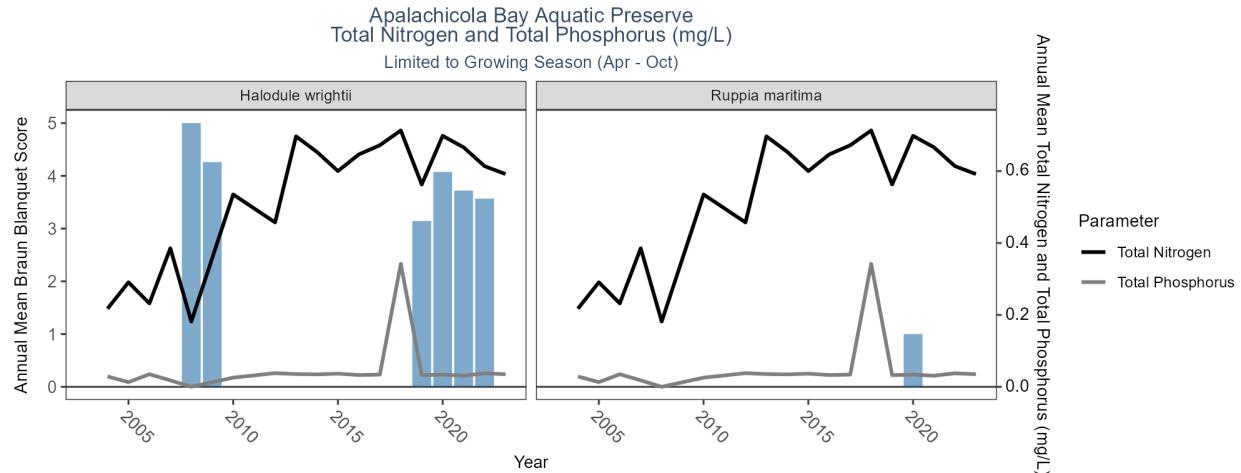


Table 33: WQ Summary for Total Nitrogen & Total Phosphorus in Apalachicola Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2004	0.217	0.183	0.115	0.325	0.092
Total Nitrogen	2005	0.291	0.239	0.195	0.491	0.139
Total Nitrogen	2006	0.232	0.232	0.168	0.296	0.074

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2007	0.385	0.350	0.000	1.297	0.335
Total Nitrogen	2008	0.182	0.120	0.000	0.490	0.190
Total Nitrogen	2010	0.535	0.514	0.477	0.615	0.071
Total Nitrogen	2012	0.457	0.444	0.387	0.554	0.071
Total Nitrogen	2013	0.697	0.626	0.370	1.304	0.202
Total Nitrogen	2014	0.653	0.677	0.214	1.305	0.179
Total Nitrogen	2015	0.600	0.594	0.194	1.011	0.152
Total Nitrogen	2016	0.646	0.653	0.164	1.004	0.183
Total Nitrogen	2017	0.672	0.614	0.244	1.512	0.282
Total Nitrogen	2018	0.713	0.663	0.214	1.329	0.251
Total Nitrogen	2019	0.563	0.576	0.214	1.260	0.124
Total Nitrogen	2020	0.698	0.632	0.214	1.511	0.332
Total Nitrogen	2021	0.666	0.690	0.294	1.240	0.168
Total Nitrogen	2022	0.614	0.619	0.197	1.058	0.154
Total Nitrogen	2023	0.592	0.590	0.214	1.211	0.189
Total Phosphorus	2004	0.029	0.030	0.004	0.052	0.026
Total Phosphorus	2005	0.013	0.011	0.002	0.028	0.013
Total Phosphorus	2006	0.035	0.035	0.027	0.043	0.009
Total Phosphorus	2007	0.018	0.020	0.000	0.063	0.018
Total Phosphorus	2008	0.000	0.000	0.000	0.000	0.000
Total Phosphorus	2010	0.025	0.025	0.025	0.025	NA
Total Phosphorus	2012	0.038	0.036	0.029	0.050	0.010
Total Phosphorus	2013	0.035	0.035	0.017	0.058	0.009
Total Phosphorus	2014	0.035	0.033	0.012	0.077	0.012
Total Phosphorus	2015	0.037	0.036	0.012	0.069	0.012
Total Phosphorus	2016	0.033	0.035	0.002	0.055	0.010
Total Phosphorus	2017	0.034	0.032	0.015	0.200	0.017
Total Phosphorus	2018	0.342	0.036	0.013	26.000	2.549
Total Phosphorus	2019	0.032	0.031	0.011	0.160	0.014
Total Phosphorus	2020	0.034	0.030	0.015	0.077	0.012
Total Phosphorus	2021	0.031	0.029	0.014	0.074	0.010
Total Phosphorus	2022	0.038	0.036	0.014	0.110	0.016
Total Phosphorus	2023	0.035	0.032	0.012	0.200	0.019

Programs contributing WQ Data:

Table 34: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Apalachicola Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	103	2002	2006	17
Total Nitrogen	115	2002	2004	2
Total Nitrogen	118	2010	2010	3
Total Nitrogen	355	2013	2023	1607
Total Nitrogen	514	2007	2008	36
Total Nitrogen	5002	1992	2023	233
Total Phosphorus	103	2002	2021	18
Total Phosphorus	115	2002	2004	2
Total Phosphorus	118	2010	2010	1
Total Phosphorus	355	2013	2023	1786
Total Phosphorus	514	2007	2008	36

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Phosphorus	5002	1992	2023	267

WQ Program names:

- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
- 514 - Florida LAKEWATCH Program
- 5002 - Florida STORET / WIN

Total Susepended Solids

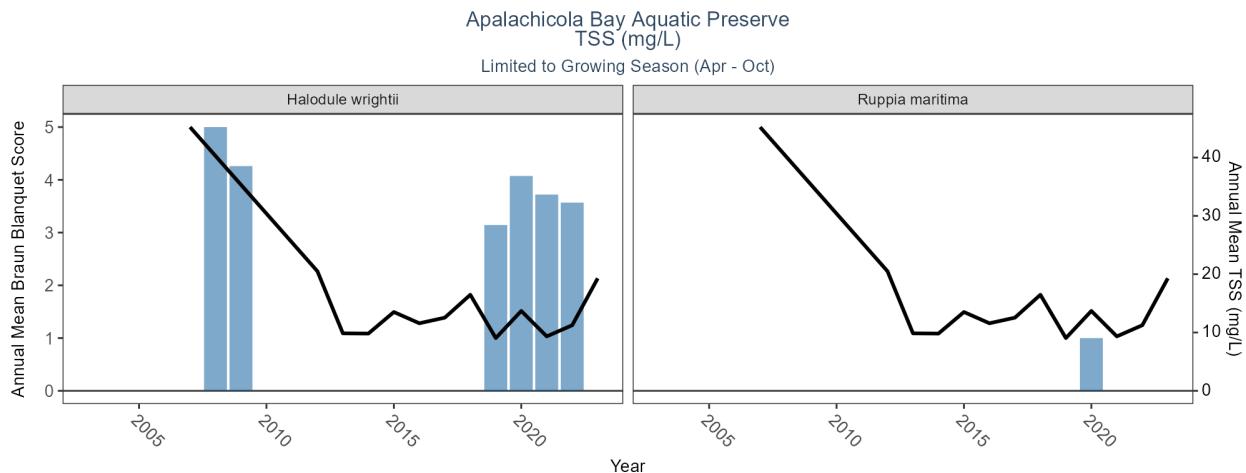


Table 35: WQ Summary for Total Susepended Solids in Apalachicola Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	2007	45.222	13	5	863	163.564
TSS	2012	20.500	19	6	38	14.059
TSS	2013	9.854	9	3	30	4.568
TSS	2014	9.818	9	2	46	6.056
TSS	2015	13.511	11	3	56	8.994
TSS	2016	11.582	10	3	43	7.239
TSS	2017	12.545	12	3	45	6.932
TSS	2018	16.471	14	4	46	10.622
TSS	2019	9.044	8	2	83	7.490
TSS	2020	13.698	10	3	48	11.175
TSS	2021	9.333	7	3	92	10.077
TSS	2022	11.248	9	3	58	8.539
TSS	2023	19.290	14	3	75	16.682

Programs contributing WQ Data:

Table 36: Programs contributing WQ data for Total Suspended Solids in Apalachicola Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	103	2021	2021	6
TSS	355	2013	2023	1764
TSS	5002	1992	2023	71

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program

5002 - Florida STORET / WIN

Turbidity

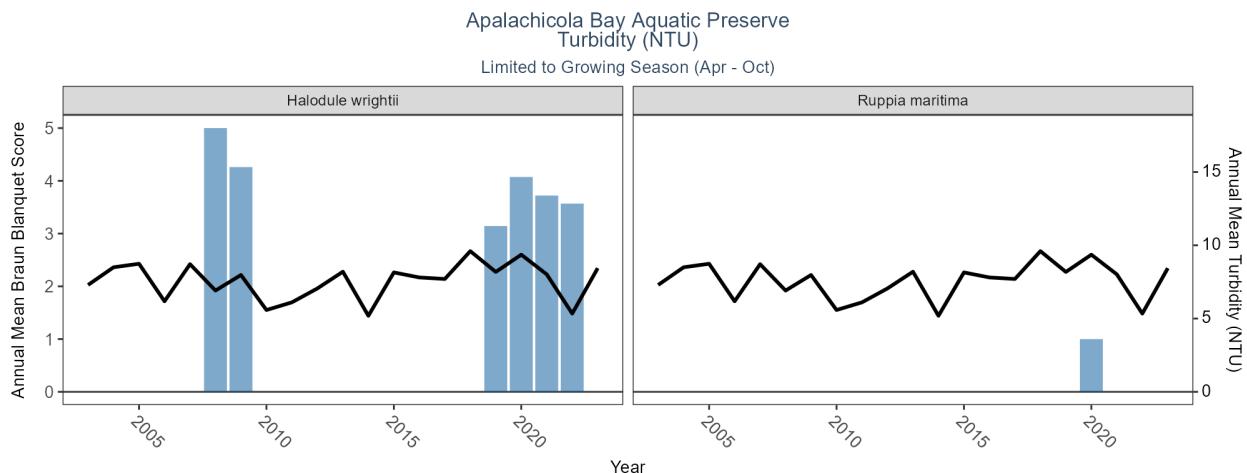


Table 37: WQ Summary for Turbidity in Apalachicola Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	2003	7.295	6.500	1.30	43.40	4.384
Turbidity	2004	8.500	6.000	1.23	50.00	7.410
Turbidity	2005	8.740	6.700	1.70	75.00	7.077
Turbidity	2006	6.179	4.700	1.20	36.00	4.460
Turbidity	2007	8.711	6.560	0.70	59.80	7.417
Turbidity	2008	6.911	5.000	0.60	56.50	6.756
Turbidity	2009	7.974	5.100	0.30	65.90	8.462
Turbidity	2010	5.583	3.910	0.24	37.70	4.892
Turbidity	2011	6.108	4.600	0.18	64.00	6.259
Turbidity	2012	7.058	3.800	0.31	34.60	7.628
Turbidity	2013	8.198	7.150	2.40	20.90	3.894
Turbidity	2014	5.189	4.000	0.75	20.30	3.468
Turbidity	2015	8.149	6.000	0.40	41.50	6.815
Turbidity	2016	7.805	5.700	2.40	43.70	6.121
Turbidity	2017	7.702	6.200	1.70	23.80	5.202
Turbidity	2018	9.600	5.400	1.26	74.10	10.510

ParameterName	Year	mean	median	min	max	sd
Turbidity	2019	8.182	4.530	1.27	120.00	12.671
Turbidity	2020	9.359	7.335	0.30	33.55	7.787
Turbidity	2021	8.017	6.900	2.15	28.80	5.042
Turbidity	2022	5.340	3.395	0.80	30.00	5.036
Turbidity	2023	8.438	5.740	0.99	62.32	8.841

Programs contributing WQ Data:

Table 38: Programs contributing WQ data for Turbidity in Apalachicola Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	103	2005	2021	10
Turbidity	129	2000	2023	1154
Turbidity	355	2004	2019	841
Turbidity	557	2022	2023	79
Turbidity	4044	2021	2023	98
Turbidity	5002	1992	2023	9770

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

129 - Apalachicola National Estuarine Research Reserve Juvenile Fish and Benthic Macroinvertebrate Monitoring

355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program

557 - Central Panhandle Aquatic Preserves Seagrass Monitoring

4044 - NRDA Oyster Cultch Recovery Project

5002 - Florida STORET / WIN

Water Temperature

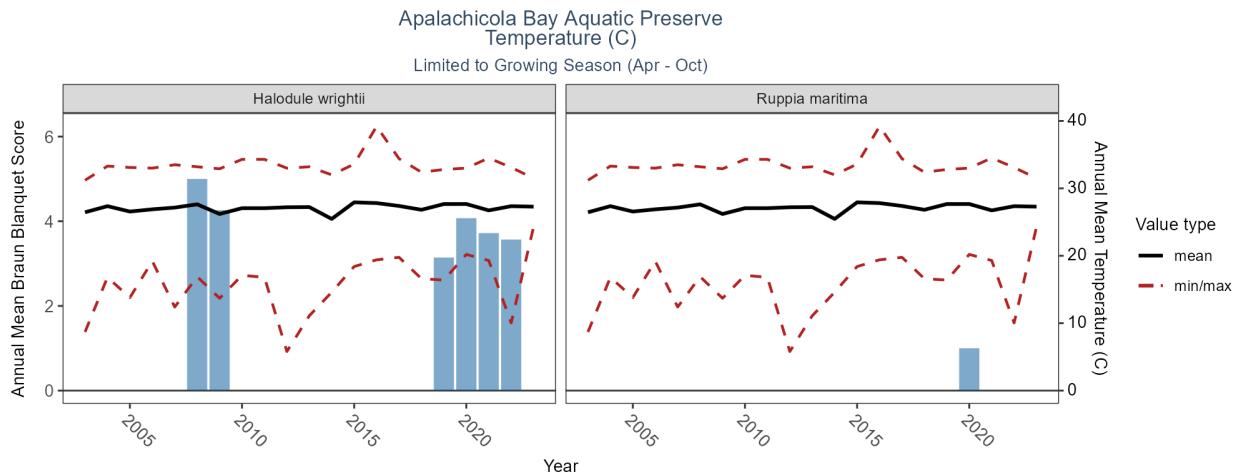


Table 39: WQ Summary for Water Temperature in Apalachicola Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	2003	26.453	27.2	8.70	31.2	2.867
Temperature	2004	27.360	28.5	16.80	33.3	3.376
Temperature	2005	26.560	28.0	13.80	33.1	3.989
Temperature	2006	26.889	27.0	19.20	33.0	2.983
Temperature	2007	27.149	27.7	12.40	33.5	3.424
Temperature	2008	27.631	28.6	16.90	33.2	2.825
Temperature	2009	26.199	27.3	13.70	32.9	4.025
Temperature	2010	27.058	28.2	17.10	34.3	3.734
Temperature	2011	27.059	28.1	16.80	34.3	3.776
Temperature	2012	27.196	27.4	5.80	33.0	2.271
Temperature	2013	27.222	28.2	11.10	33.2	2.975
Temperature	2014	25.467	26.1	14.60	32.0	3.698
Temperature	2015	27.927	28.9	18.40	33.6	2.866
Temperature	2016	27.815	28.8	19.40	39.2	3.173
Temperature	2017	27.389	27.7	19.77	34.4	2.540
Temperature	2018	26.822	28.2	16.60	32.4	3.500
Temperature	2019	27.672	28.8	16.40	32.8	3.404
Temperature	2020	27.676	28.3	20.20	33.0	3.070
Temperature	2021	26.731	27.1	19.30	34.5	2.461
Temperature	2022	27.355	28.1	10.04	33.1	2.930
Temperature	2023	27.287	26.7	24.30	31.5	2.106

Programs contributing WQ Data:

Table 40: Programs contributing WQ data for Water Temperature in Apalachicola Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	1998	2022	15934
Temperature	95	1964	2018	236
Temperature	103	2004	2021	14
Temperature	115	1992	2004	16
Temperature	118	2015	2020	44
Temperature	119	1994	1994	13
Temperature	129	2000	2023	2049
Temperature	355	2003	2019	1121
Temperature	456	2006	2013	26
Temperature	557	2006	2023	240
Temperature	4044	2007	2023	190
Temperature	5002	1992	2023	19597
Temperature	5071	2017	2017	3

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
119 - National Status and Trends Bioeffects program
129 - Apalachicola National Estuarine Research Reserve Juvenile Fish and Benthic Macroinvertebrate Monitoring
355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
456 - Oyster Sentinel
557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
4044 - NRDA Oyster Cultch Recovery Project
5002 - Florida STORET / WIN
5071 - Oyster shell heights and taxonomic diversity in 2015-2017 among previously documented oiled and non-oiled reefs in Louisiana, Alabama, and the Florida panhandle

Apalachicola National Estuarine Research Reserve

Programs contributing SAV Data:

Table 41: Programs contributing SAV data in Apalachicola National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Braun Blanquet Score	557	2008	2023	590
Braun Blanquet Score	997	2003	2003	79
Percent Cover	558	2009	2017	1402
Percent Cover	997	2003	2003	81

SAV Program names:

557 - Central Panhandle Aquatic Preserves Seagrass Monitoring

997 - Apalachicola Bay Ephemeral SAV Monitoring

997 - Apalachicola Bay Ephemeral SAV Monitoring

558 - Franklin County Coastal Waters Seagrass Monitoring

Chlorophyll-a (corrected & uncorrected)



Table 42: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Apalachicola National Estuarine Research Reserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2003	6.057	5.126	0.500	22.428	4.365
Chl a corr	2004	7.713	6.400	0.800	32.000	5.398
Chl a corr	2005	2.060	1.920	0.500	5.980	1.050
Chl a corr	2006	9.528	8.200	0.500	25.380	5.766
Chl a corr	2007	11.094	8.550	0.850	34.600	7.527
Chl a corr	2008	13.001	11.200	2.400	32.200	7.013
Chl a corr	2009	11.514	9.400	0.700	51.200	8.678
Chl a corr	2010	10.352	10.000	0.900	24.800	5.188
Chl a corr	2011	13.931	12.500	1.500	91.000	10.004
Chl a corr	2012	8.955	7.485	0.450	27.040	6.429
Chl a corr	2013	7.800	6.600	0.550	32.850	5.868
Chl a corr	2014	12.441	10.000	0.790	61.000	10.697
Chl a corr	2015	11.975	11.000	0.550	43.000	6.590
Chl a corr	2016	9.885	9.400	0.750	26.000	5.240
Chl a corr	2017	10.050	9.700	0.550	33.000	5.385
Chl a corr	2018	9.633	9.950	0.600	26.000	4.053
Chl a corr	2019	11.250	11.000	2.400	29.000	4.594
Chl a corr	2020	9.459	8.300	1.600	30.000	6.829
Chl a corr	2021	8.949	7.700	1.500	32.000	5.599
Chl a corr	2022	12.939	12.000	1.800	35.000	6.817
Chl a corr	2023	13.562	13.000	1.500	56.000	6.319
Chl a uncorr	2004	7.660	7.660	5.379	9.941	2.499
Chl a uncorr	2005	8.105	8.105	4.560	11.650	5.013
Chl a uncorr	2006	4.205	4.205	4.205	4.205	0.000
Chl a uncorr	2007	15.019	12.900	1.000	39.400	8.851
Chl a uncorr	2008	13.801	12.450	2.600	34.600	7.778
Chl a uncorr	2009	13.774	11.400	1.100	52.300	10.113
Chl a uncorr	2010	12.057	11.340	1.500	28.600	5.940
Chl a uncorr	2011	14.810	5.150	1.600	100.000	30.006
Chl a uncorr	2012	9.242	8.600	4.400	17.000	3.609
Chl a uncorr	2013	8.076	7.000	0.700	29.000	5.945
Chl a uncorr	2014	13.847	11.000	0.790	71.000	12.306
Chl a uncorr	2015	14.233	13.000	2.500	47.000	7.566
Chl a uncorr	2016	11.870	11.000	0.800	29.000	6.141
Chl a uncorr	2017	11.417	11.000	0.770	39.000	6.259
Chl a uncorr	2018	11.503	12.000	0.930	30.000	4.862
Chl a uncorr	2019	12.704	13.000	2.700	35.000	5.439
Chl a uncorr	2020	9.741	7.400	1.200	34.000	8.032
Chl a uncorr	2021	9.974	8.400	1.600	35.000	6.367
Chl a uncorr	2022	14.626	13.500	1.500	45.000	8.138
Chl a uncorr	2023	15.883	15.000	2.400	58.000	7.251

Programs contributing WQ Data:

Table 43: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Apalachicola National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	355	2002	2023	4697
Chl a corr	5002	1999	2023	716
Chl a uncorr	103	2000	2021	26
Chl a uncorr	115	2000	2004	6
Chl a uncorr	118	2010	2010	7
Chl a uncorr	355	2007	2023	2568
Chl a uncorr	514	2007	2008	60
Chl a uncorr	5002	2007	2023	238

WQ Program names:

355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program

5002 - Florida STORET / WIN

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

514 - Florida LAKEWATCH Program

Dissolved Oxygen

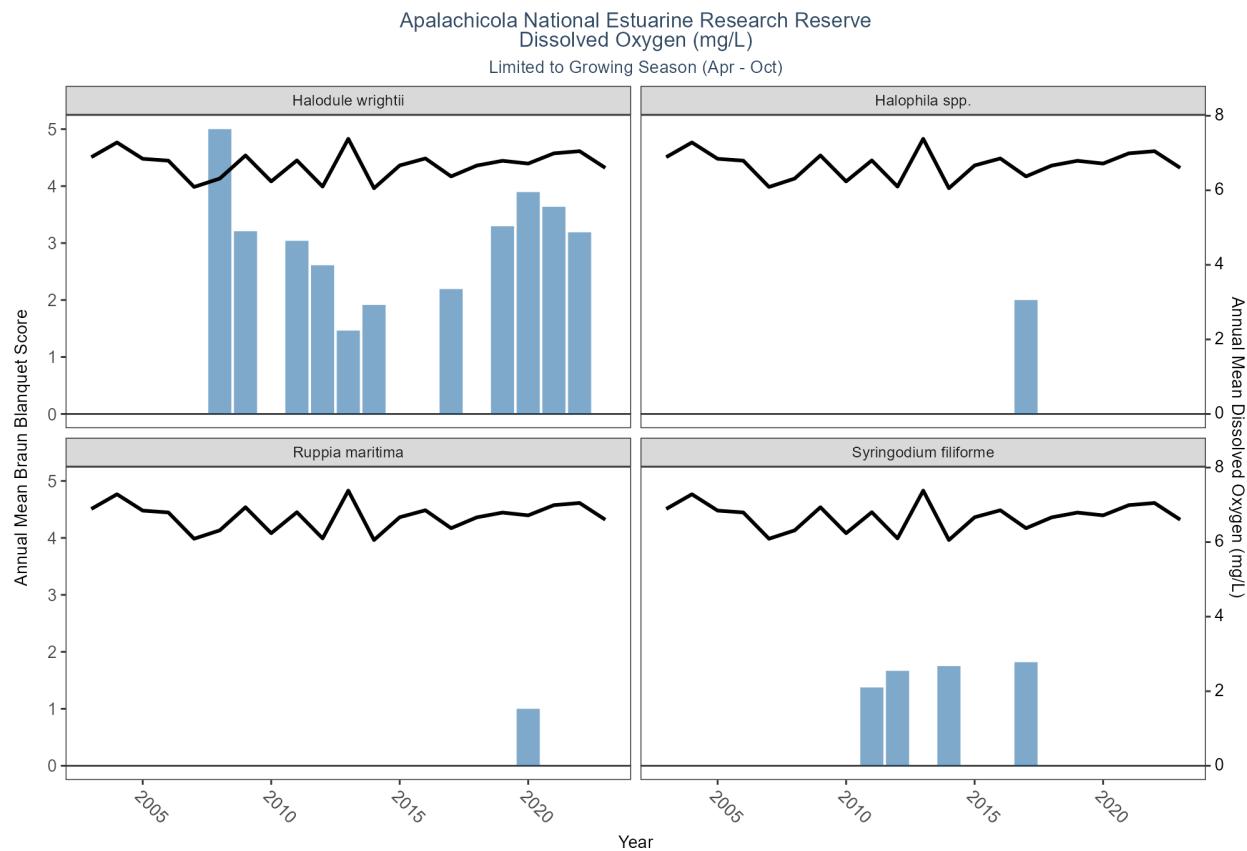


Table 44: WQ Summary for Dissolved Oxygen in Apalachicola National Estuarine Research Reserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2003	6.889	6.860	1.60	12.00	1.737
Dissolved Oxygen	2004	7.283	7.100	2.60	14.20	1.656
Dissolved Oxygen	2005	6.845	6.700	0.20	14.40	1.655
Dissolved Oxygen	2006	6.795	6.935	0.40	16.70	1.458
Dissolved Oxygen	2007	6.090	6.300	0.30	13.40	1.711
Dissolved Oxygen	2008	6.315	6.500	0.40	16.80	1.564
Dissolved Oxygen	2009	6.935	7.080	0.40	14.00	1.811
Dissolved Oxygen	2010	6.239	6.210	0.90	14.70	2.021
Dissolved Oxygen	2011	6.802	6.800	1.00	12.40	1.733
Dissolved Oxygen	2012	6.100	6.200	0.03	15.97	1.654
Dissolved Oxygen	2013	7.381	7.100	0.21	18.20	2.301
Dissolved Oxygen	2014	6.056	6.100	0.80	19.90	1.783
Dissolved Oxygen	2015	6.667	6.600	1.40	18.20	1.630
Dissolved Oxygen	2016	6.854	6.750	0.20	16.00	1.491
Dissolved Oxygen	2017	6.373	6.400	2.30	12.80	1.274
Dissolved Oxygen	2018	6.664	6.800	0.15	12.50	1.566
Dissolved Oxygen	2019	6.791	6.700	0.20	14.50	1.304
Dissolved Oxygen	2020	6.718	6.500	1.28	13.30	1.610
Dissolved Oxygen	2021	6.992	7.000	0.34	13.30	1.631
Dissolved Oxygen	2022	7.049	6.900	0.25	15.00	1.696
Dissolved Oxygen	2023	6.601	6.710	0.27	11.30	1.537

Programs contributing WQ Data:

Table 45: Programs contributing WQ data for Dissolved Oxygen in Apalachicola National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	1998	2022	27436
Dissolved Oxygen	95	1995	2018	289
Dissolved Oxygen	103	2004	2021	18
Dissolved Oxygen	115	1992	2004	28
Dissolved Oxygen	118	2015	2020	91
Dissolved Oxygen	119	1994	1994	14
Dissolved Oxygen	129	2000	2023	2523
Dissolved Oxygen	355	2003	2019	1428
Dissolved Oxygen	557	2006	2023	429
Dissolved Oxygen	4044	2007	2023	190
Dissolved Oxygen	5002	1992	2023	21037
Dissolved Oxygen	5071	2017	2017	4

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 119 - National Status and Trends Bioeffects program

129 - Apalachicola National Estuarine Research Reserve Juvenile Fish and Benthic Macroinvertebrate Monitoring

355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program

557 - Central Panhandle Aquatic Preserves Seagrass Monitoring

4044 - NRDA Oyster Cultch Recovery Project

5002 - Florida STORET / WIN

5071 - Oyster shell heights and taxonomic diversity in 2015-2017 among previously documented oiled and non-oiled reefs in Louisiana, Alabama, and the Florida panhandle

Dissolved Oxygen Saturation

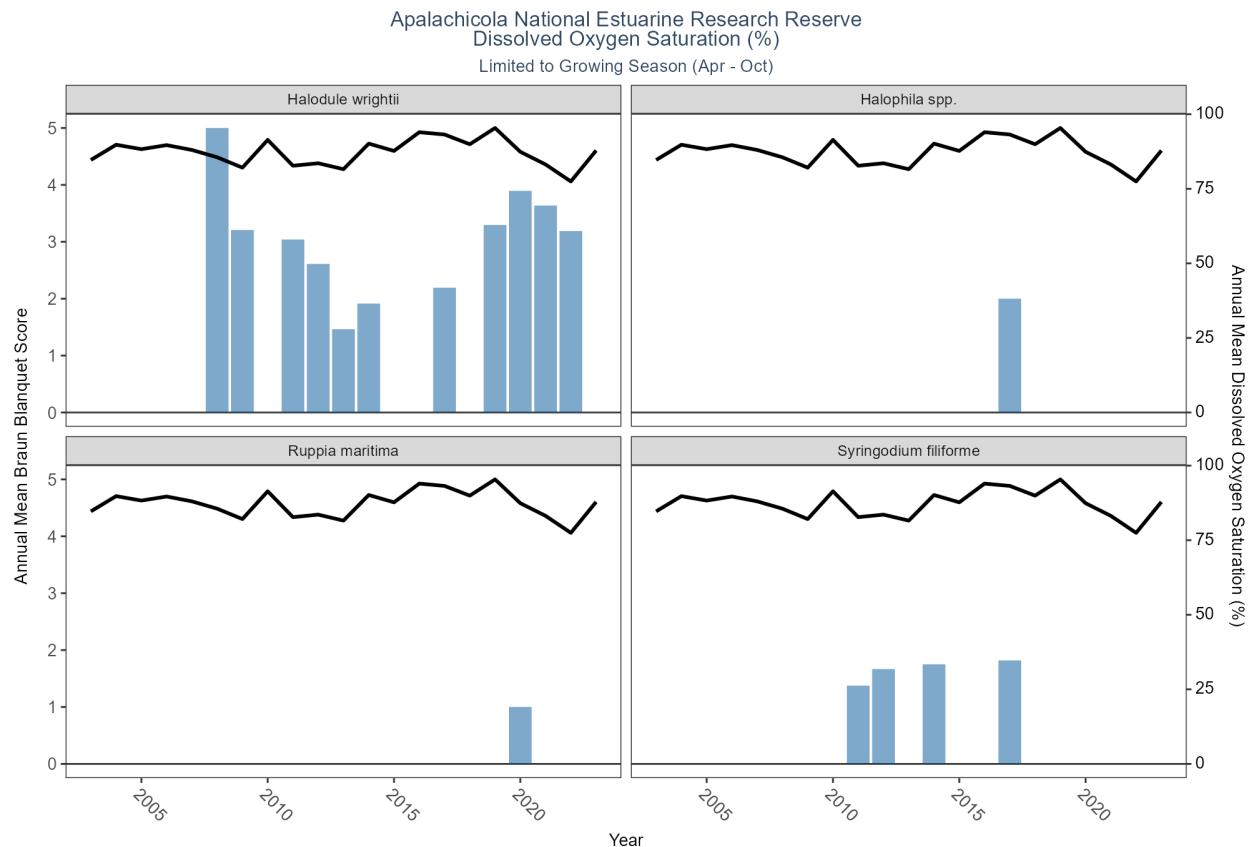


Table 46: WQ Summary for Dissolved Oxygen Saturation in Apalachicola National Estuarine Research Reserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2003	84.668	85.35	27.90	120.7	17.375
Dissolved Oxygen Saturation	2004	89.772	91.55	8.30	150.0	15.075
Dissolved Oxygen Saturation	2005	88.290	88.00	23.60	147.2	19.422
Dissolved Oxygen Saturation	2006	89.647	90.75	53.20	178.3	12.810
Dissolved Oxygen Saturation	2007	88.022	88.80	6.40	132.7	13.975
Dissolved Oxygen Saturation	2008	85.571	86.60	9.40	124.8	13.248
Dissolved Oxygen Saturation	2009	82.091	83.30	6.36	132.7	16.148
Dissolved Oxygen Saturation	2010	91.403	91.40	47.30	119.4	12.197
Dissolved Oxygen Saturation	2011	82.735	83.80	26.40	147.0	14.855
Dissolved Oxygen Saturation	2012	83.569	86.85	0.40	130.3	17.887

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2013	81.573	88.60	18.70	113.8	20.258
Dissolved Oxygen Saturation	2014	90.153	92.30	6.60	131.5	17.572
Dissolved Oxygen Saturation	2015	87.702	91.05	11.70	122.0	18.830
Dissolved Oxygen Saturation	2016	93.971	96.60	6.04	123.2	17.111
Dissolved Oxygen Saturation	2017	93.204	93.45	33.70	145.9	16.874
Dissolved Oxygen Saturation	2018	89.939	97.30	2.00	131.5	24.148
Dissolved Oxygen Saturation	2019	95.389	95.75	10.50	138.0	16.981
Dissolved Oxygen Saturation	2020	87.404	88.75	15.60	122.5	20.072
Dissolved Oxygen Saturation	2021	83.159	86.75	4.20	115.3	19.594
Dissolved Oxygen Saturation	2022	77.469	81.70	3.00	129.6	26.399
Dissolved Oxygen Saturation	2023	87.835	94.25	3.30	110.1	23.592

Programs contributing WQ Data:

Table 47: Programs contributing WQ data for Dissolved Oxygen Saturation in Apalachicola National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	129	2000	2023	2501
Dissolved Oxygen Saturation	355	2003	2019	1437
Dissolved Oxygen Saturation	4044	2007	2023	190
Dissolved Oxygen Saturation	5002	2003	2023	372

WQ Program names:

129 - Apalachicola National Estuarine Research Reserve Juvenile Fish and Benthic Macroinvertebrate Monitoring

355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program

4044 - NRDA Oyster Cultch Recovery Project

5002 - Florida STORET / WIN

pH

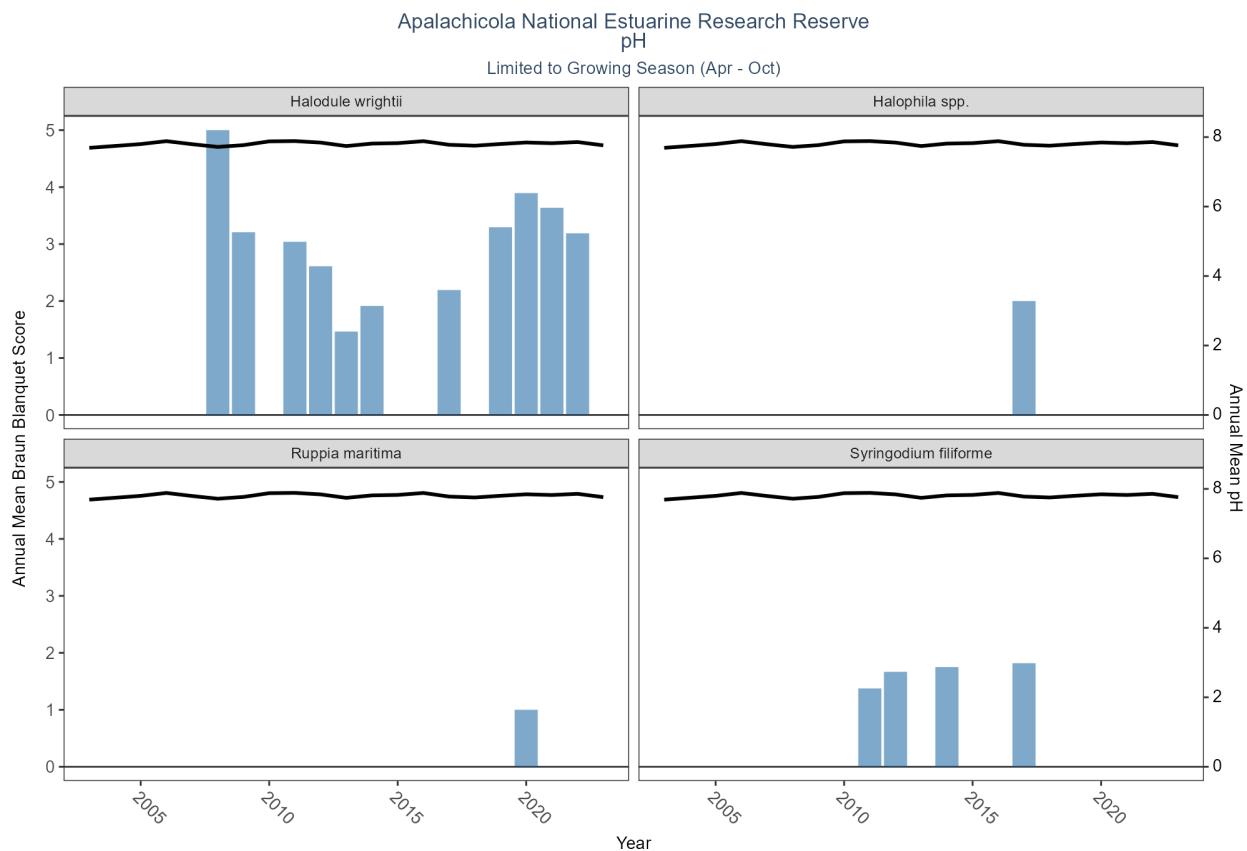


Table 48: WQ Summary for pH in Apalachicola National Estuarine Research Reserve

ParameterName	Year	mean	median	min	max	sd
pH	2003	7.691	7.900	4.70	9.40	0.623
pH	2004	7.744	7.900	5.91	8.60	0.480
pH	2005	7.799	7.900	5.40	9.50	0.429
pH	2006	7.883	7.900	6.80	9.00	0.311
pH	2007	7.795	7.800	6.00	8.70	0.357
pH	2008	7.717	7.800	6.60	8.60	0.402
pH	2009	7.769	7.900	3.81	9.10	0.491
pH	2010	7.877	8.000	6.90	8.90	0.368
pH	2011	7.885	8.000	6.50	9.00	0.332
pH	2012	7.842	8.000	5.60	8.60	0.374
pH	2013	7.742	7.900	4.60	8.80	0.472
pH	2014	7.813	7.900	5.14	8.90	0.428
pH	2015	7.826	8.000	6.50	9.90	0.399
pH	2016	7.882	8.000	4.60	9.00	0.402
pH	2017	7.778	8.000	4.90	8.80	0.452
pH	2018	7.752	7.930	5.50	8.60	0.472
pH	2019	7.801	8.000	4.40	8.61	0.450
pH	2020	7.844	8.000	3.73	8.92	0.492
pH	2021	7.824	8.000	6.10	9.20	0.460
pH	2022	7.857	8.045	4.07	8.90	0.573

ParameterName	Year	mean	median	min	max	sd
pH	2023	7.762	8.060	4.84	8.41	0.724

Programs contributing WQ Data:

Table 49: Programs contributing WQ data for pH in Apalachicola National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	1998	2022	27505
pH	95	1964	2018	210
pH	103	2004	2021	13
pH	115	1992	2004	28
pH	118	2015	2020	65
pH	129	2000	2023	1443
pH	355	2011	2019	771
pH	557	2006	2023	391
pH	558	2008	2013	58
pH	4044	2007	2023	190
pH	5002	1995	2023	12360

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 129 - Apalachicola National Estuarine Research Reserve Juvenile Fish and Benthic Macroinvertebrate Monitoring
- 355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
- 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
- 558 - Franklin County Coastal Waters Seagrass Monitoring
- 4044 - NRDA Oyster Cultch Recovery Project
- 5002 - Florida STORET / WIN

Salinity

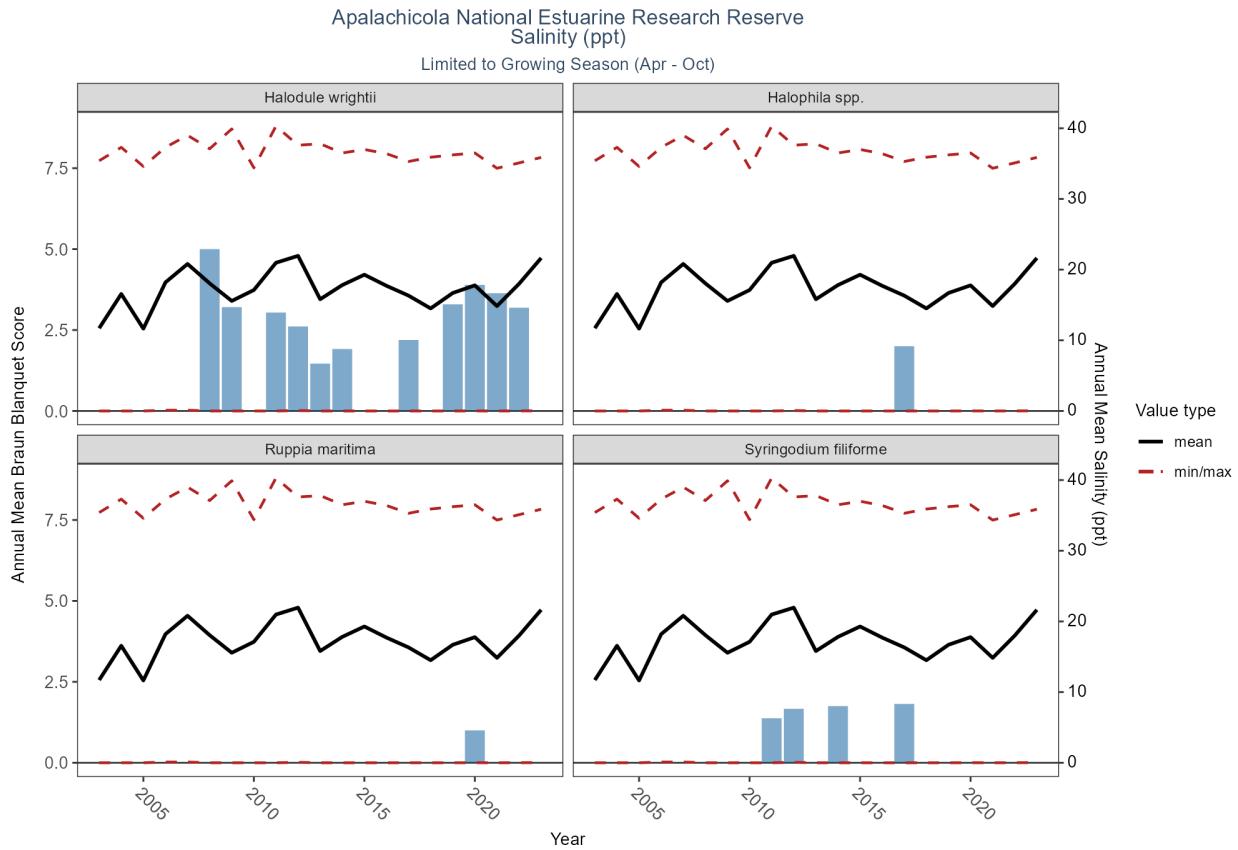


Table 50: WQ Summary for Salinity in Apalachicola National Estuarine Research Reserve

ParameterName	Year	mean	median	min	max	sd
Salinity	2003	11.703	10.200	0.00	35.40	10.150
Salinity	2004	16.553	18.800	0.00	37.30	11.588
Salinity	2005	11.647	9.600	0.00	34.60	10.388
Salinity	2006	18.197	21.300	0.10	37.30	12.626
Salinity	2007	20.800	25.200	0.10	39.00	12.963
Salinity	2008	18.053	22.400	0.00	37.10	12.804
Salinity	2009	15.567	16.100	0.00	39.90	11.152
Salinity	2010	17.111	19.600	0.00	34.40	10.550
Salinity	2011	20.970	24.200	0.00	40.30	11.160
Salinity	2012	21.949	26.000	0.06	37.60	11.601
Salinity	2013	15.806	16.900	0.00	37.80	11.149
Salinity	2014	17.813	19.850	0.00	36.50	11.301
Salinity	2015	19.280	23.000	0.00	37.00	11.612
Salinity	2016	17.712	20.300	0.00	36.40	10.871
Salinity	2017	16.319	18.600	0.00	35.30	11.388
Salinity	2018	14.509	16.015	0.00	35.90	11.905
Salinity	2019	16.693	19.200	0.00	36.23	12.705
Salinity	2020	17.772	21.300	0.01	36.50	11.583
Salinity	2021	14.843	16.100	0.00	34.34	10.597
Salinity	2022	17.995	20.880	0.01	35.10	11.174

ParameterName	Year	mean	median	min	max	sd
Salinity	2023	21.643	22.090	0.02	35.87	10.457

Programs contributing WQ Data:

Table 51: Programs contributing WQ data for Salinity in Apalachicola National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	1998	2022	27575
Salinity	95	1964	2018	411
Salinity	103	2004	2004	3
Salinity	115	1992	2004	28
Salinity	118	2015	2020	94
Salinity	119	1994	1994	14
Salinity	129	2000	2023	2532
Salinity	355	2003	2019	1474
Salinity	456	2006	2015	48
Salinity	557	2006	2023	429
Salinity	558	2008	2014	204
Salinity	4044	2007	2023	190
Salinity	5002	1995	2023	26742
Salinity	5071	2017	2017	4

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 119 - National Status and Trends Bioeffects program
- 129 - Apalachicola National Estuarine Research Reserve Juvenile Fish and Benthic Macroinvertebrate Monitoring
- 355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
- 456 - Oyster Sentinel
- 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
- 558 - Franklin County Coastal Waters Seagrass Monitoring
- 4044 - NRDA Oyster Cultch Recovery Project
- 5002 - Florida STORET / WIN
- 5071 - Oyster shell heights and taxonomic diversity in 2015-2017 among previously documented oiled and non-oiled reefs in Louisiana, Alabama, and the Florida panhandle

Secchi Depth

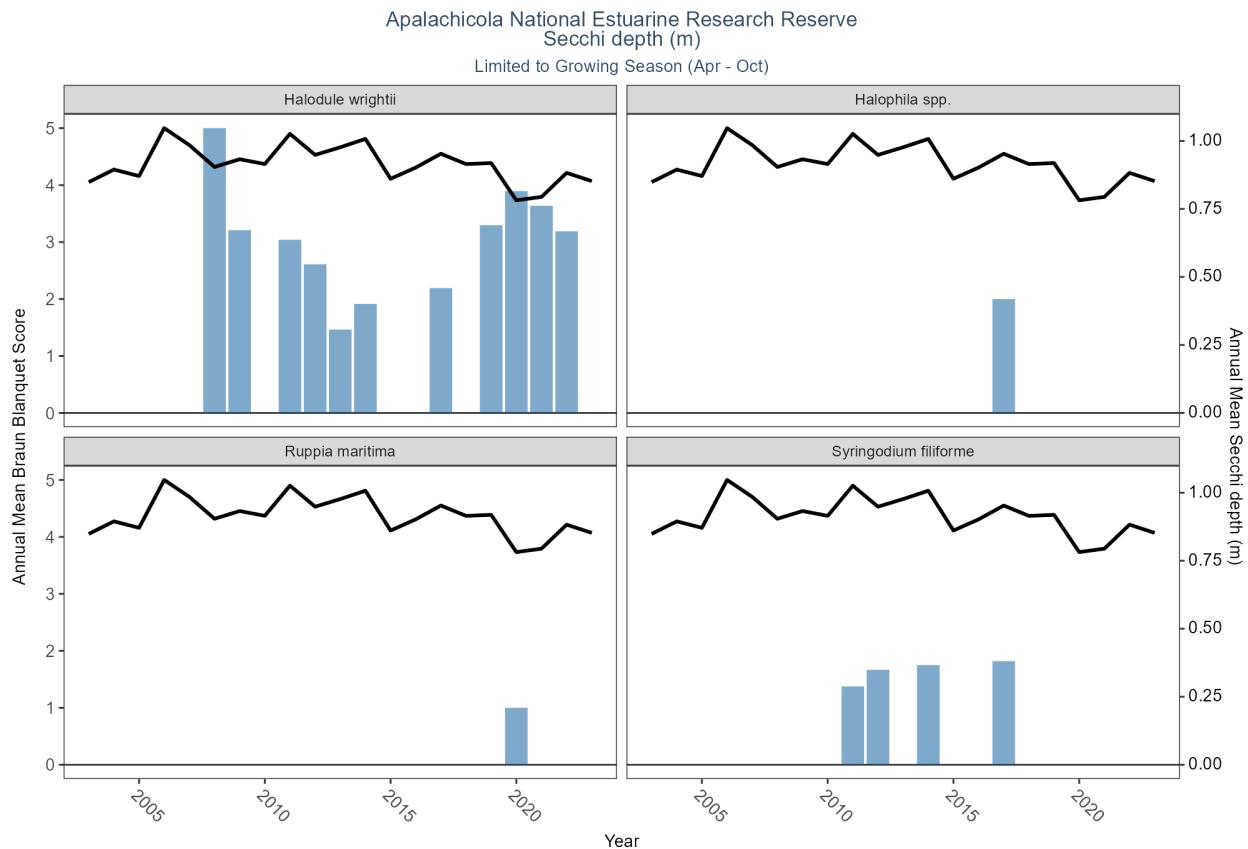


Table 52: WQ Summary for Secchi Depth in Apalachicola National Estuarine Research Reserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2003	0.849	0.8	0.200	2.50	0.350
Secchi depth	2004	0.895	0.8	0.200	3.20	0.417
Secchi depth	2005	0.871	0.8	0.200	3.50	0.477
Secchi depth	2006	1.047	1.0	0.100	3.50	0.439
Secchi depth	2007	0.985	0.9	0.091	9.00	0.447
Secchi depth	2008	0.904	0.8	0.200	9.99	0.450
Secchi depth	2009	0.933	0.8	0.100	15.00	0.752
Secchi depth	2010	0.915	0.8	0.100	2.70	0.450
Secchi depth	2011	1.026	0.9	0.200	9.99	0.930
Secchi depth	2012	0.949	0.8	0.200	9.99	0.916
Secchi depth	2013	0.977	0.8	0.100	9.99	1.123
Secchi depth	2014	1.007	0.8	0.100	9.99	1.243
Secchi depth	2015	0.861	0.8	0.200	4.20	0.436
Secchi depth	2016	0.902	0.8	0.100	2.20	0.414
Secchi depth	2017	0.953	0.9	0.200	9.99	0.664
Secchi depth	2018	0.915	0.9	0.100	3.10	0.410
Secchi depth	2019	0.919	0.9	0.200	3.30	0.411
Secchi depth	2020	0.782	0.7	0.100	2.30	0.346
Secchi depth	2021	0.794	0.7	0.200	1.90	0.334
Secchi depth	2022	0.883	0.8	0.200	2.00	0.386

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2023	0.852	0.9	0.100	1.50	0.242

Programs contributing WQ Data:

Table 53: Programs contributing WQ data for Secchi Depth in Apalachicola National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	1998	2022	27318
Secchi depth	103	2021	2021	6
Secchi depth	115	1992	2004	10
Secchi depth	118	2015	2020	13
Secchi depth	129	2000	2023	1253
Secchi depth	355	2011	2019	566
Secchi depth	514	2007	2008	55
Secchi depth	557	2006	2023	247
Secchi depth	558	2008	2017	302
Secchi depth	5002	1998	2023	382

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 129 - Apalachicola National Estuarine Research Reserve Juvenile Fish and Benthic Macroinvertebrate Monitoring
- 355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
- 514 - Florida LAKEWATCH Program
- 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
- 558 - Franklin County Coastal Waters Seagrass Monitoring
- 5002 - Florida STORET / WIN

Total Nitrogen & Total Phosphorus

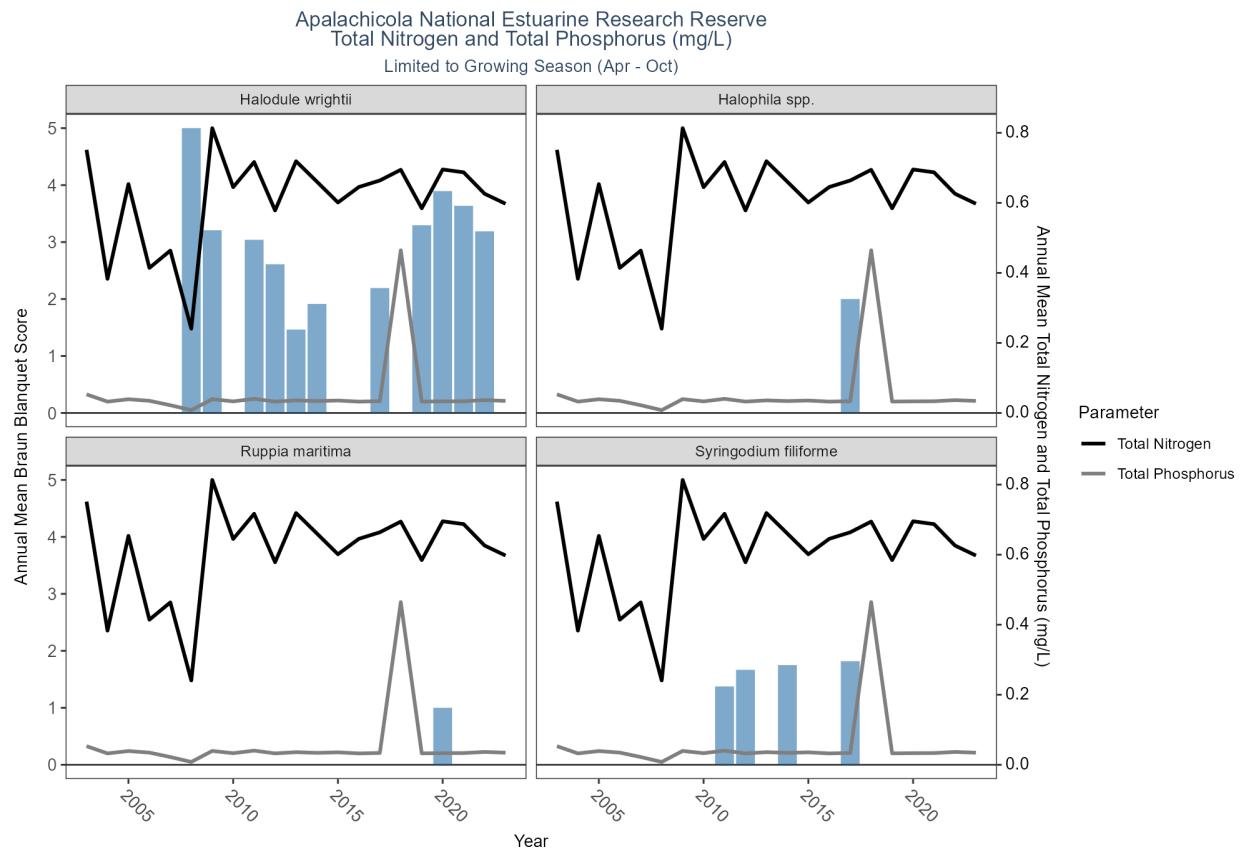


Table 54: WQ Summary for Total Nitrogen & Total Phosphorus in Apalachicola National Estuarine Research Reserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2003	0.751	0.740	0.670	0.940	0.095
Total Nitrogen	2004	0.383	0.325	0.076	0.860	0.249
Total Nitrogen	2005	0.654	0.710	0.195	0.890	0.181
Total Nitrogen	2006	0.414	0.450	0.168	0.700	0.190
Total Nitrogen	2007	0.464	0.515	0.000	1.390	0.322
Total Nitrogen	2008	0.241	0.290	0.000	0.840	0.246
Total Nitrogen	2009	0.813	0.790	0.730	1.000	0.082
Total Nitrogen	2010	0.645	0.597	0.276	0.990	0.213
Total Nitrogen	2011	0.717	0.540	0.410	2.604	0.559
Total Nitrogen	2012	0.578	0.554	0.387	1.127	0.190
Total Nitrogen	2013	0.719	0.675	0.370	1.304	0.200
Total Nitrogen	2014	0.660	0.680	0.214	1.305	0.178
Total Nitrogen	2015	0.601	0.590	0.194	1.011	0.159
Total Nitrogen	2016	0.645	0.649	0.164	1.004	0.182
Total Nitrogen	2017	0.664	0.614	0.244	1.512	0.267
Total Nitrogen	2018	0.694	0.649	0.188	1.329	0.241
Total Nitrogen	2019	0.584	0.589	0.214	1.260	0.135
Total Nitrogen	2020	0.695	0.641	0.214	1.511	0.304
Total Nitrogen	2021	0.687	0.698	0.294	1.240	0.169

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2022	0.626	0.630	0.197	1.058	0.158
Total Nitrogen	2023	0.597	0.595	0.214	1.211	0.182
Total Phosphorus	2003	0.053	0.051	0.035	0.076	0.013
Total Phosphorus	2004	0.032	0.031	0.000	0.079	0.022
Total Phosphorus	2005	0.039	0.040	0.002	0.062	0.015
Total Phosphorus	2006	0.035	0.034	0.024	0.046	0.008
Total Phosphorus	2007	0.022	0.021	0.000	0.170	0.021
Total Phosphorus	2008	0.008	0.000	0.000	0.059	0.016
Total Phosphorus	2009	0.039	0.035	0.030	0.056	0.010
Total Phosphorus	2010	0.033	0.033	0.023	0.049	0.009
Total Phosphorus	2011	0.040	0.028	0.018	0.200	0.047
Total Phosphorus	2012	0.032	0.029	0.020	0.066	0.011
Total Phosphorus	2013	0.036	0.036	0.017	0.058	0.010
Total Phosphorus	2014	0.034	0.032	0.012	0.077	0.012
Total Phosphorus	2015	0.035	0.035	0.012	0.069	0.012
Total Phosphorus	2016	0.032	0.034	0.002	0.062	0.010
Total Phosphorus	2017	0.034	0.032	0.015	0.200	0.016
Total Phosphorus	2018	0.464	0.036	0.013	26.000	3.134
Total Phosphorus	2019	0.033	0.030	0.011	0.160	0.015
Total Phosphorus	2020	0.033	0.031	0.015	0.077	0.012
Total Phosphorus	2021	0.033	0.031	0.014	0.160	0.015
Total Phosphorus	2022	0.037	0.035	0.012	0.110	0.015
Total Phosphorus	2023	0.034	0.032	0.012	0.200	0.018

Programs contributing WQ Data:

Table 55: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Apalachicola National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	103	2000	2006	30
Total Nitrogen	115	2000	2004	6
Total Nitrogen	118	2010	2010	7
Total Nitrogen	355	2013	2023	1809
Total Nitrogen	514	2007	2008	59
Total Nitrogen	5002	1992	2023	629
Total Phosphorus	103	2000	2021	24
Total Phosphorus	115	2000	2004	6
Total Phosphorus	118	2010	2010	1
Total Phosphorus	355	2013	2023	2001
Total Phosphorus	514	2007	2008	59
Total Phosphorus	5002	1992	2023	697

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program

514 - Florida LAKEWATCH Program

5002 - Florida STORET / WIN

Total Susepended Solids

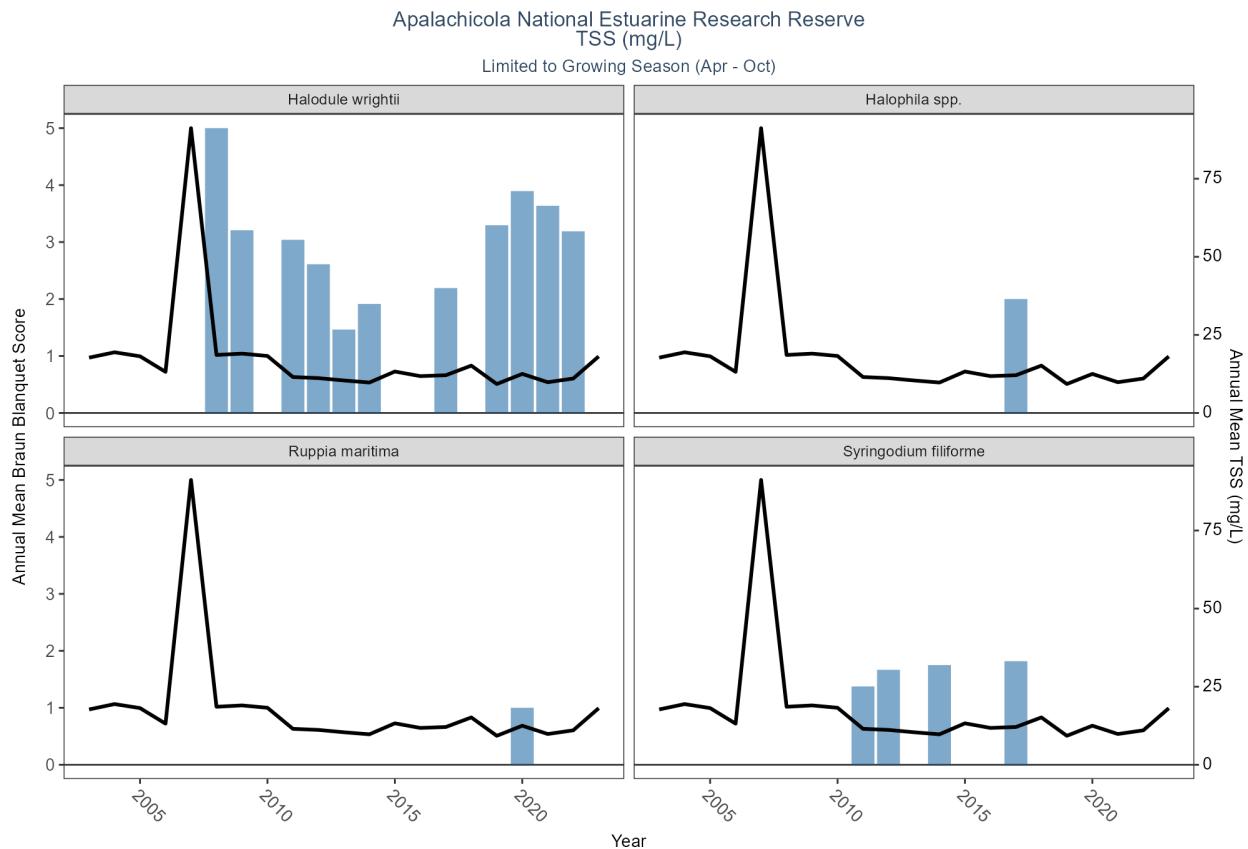


Table 56: WQ Summary for Total Susepended Solids in Apalachicola National Estuarine Research Reserve

ParameterName	Year	mean	median	min	max	sd
TSS	2003	17.714	17.0	11	24	4.957
TSS	2004	19.429	16.0	12	37	8.810
TSS	2005	18.143	19.0	14	22	3.436
TSS	2006	13.167	13.0	4	23	7.885
TSS	2007	91.197	13.0	4	914	205.712
TSS	2008	18.571	16.0	11	35	8.018
TSS	2009	19.000	19.0	12	27	5.148
TSS	2010	18.250	19.0	8	25	5.092
TSS	2011	11.500	11.0	3	21	5.229
TSS	2012	11.158	10.0	2	38	8.421
TSS	2013	10.405	9.5	3	30	4.959
TSS	2014	9.750	9.0	2	46	5.937
TSS	2015	13.269	11.0	3	56	8.648
TSS	2016	11.794	10.0	3	43	7.363
TSS	2017	12.088	11.0	2	45	6.941
TSS	2018	15.160	12.0	3	46	10.400
TSS	2019	9.273	8.0	2	83	7.746
TSS	2020	12.500	9.0	2	48	10.354
TSS	2021	9.852	8.0	2	92	9.295
TSS	2022	11.024	9.0	2	58	8.112

ParameterName	Year	mean	median	min	max	sd
TSS	2023	18.113	14.0	2	75	15.651

Programs contributing WQ Data:

Table 57: Programs contributing WQ data for Total Susepended Solids in Apalachicola National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	103	2021	2021	6
TSS	355	2013	2023	1978
TSS	5002	1992	2023	457

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program

5002 - Florida STORET / WIN

Turbidity

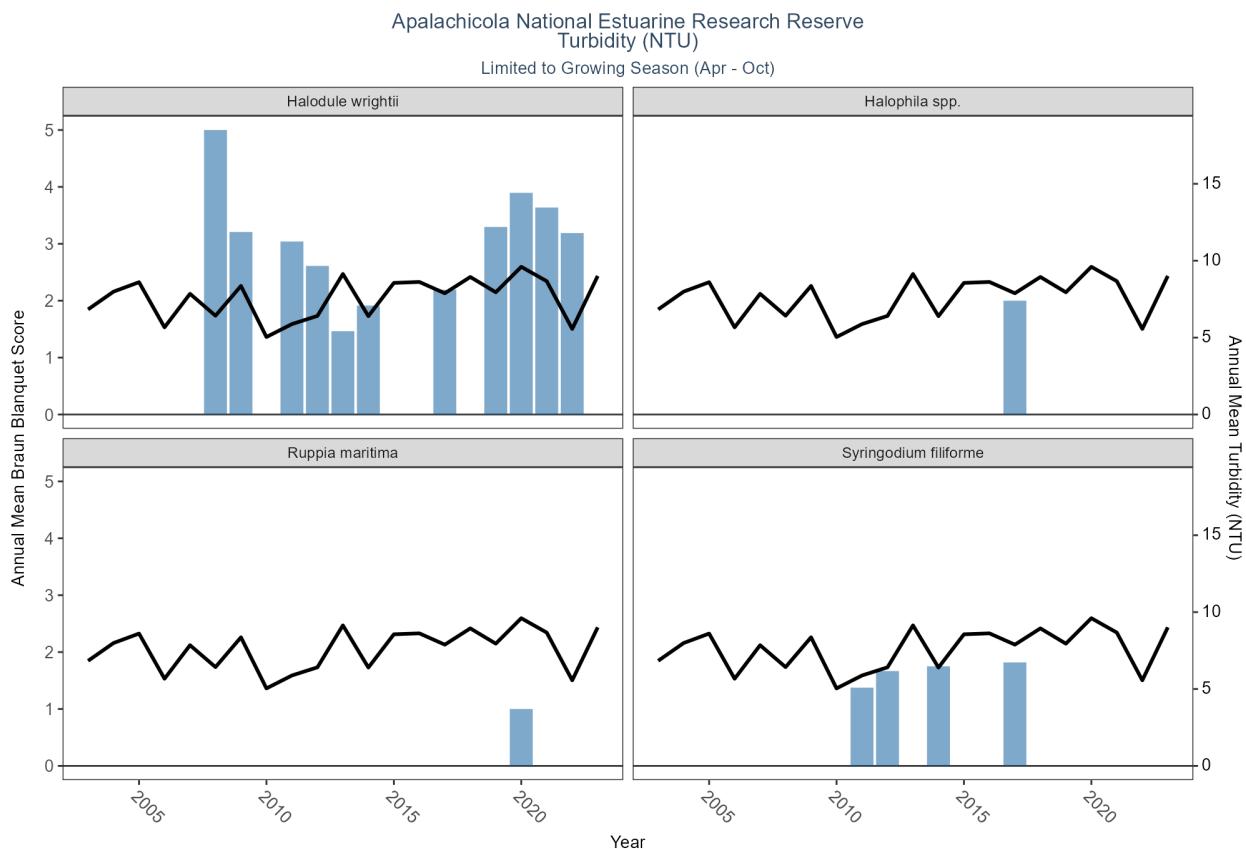


Table 58: WQ Summary for Turbidity in Apalachicola National Estuarine Research Reserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	2003	6.833	6.100	1.30	43.40	4.220
Turbidity	2004	7.990	5.700	1.23	50.00	6.889
Turbidity	2005	8.603	6.600	1.70	75.00	7.068
Turbidity	2006	5.668	4.100	1.20	36.00	4.227
Turbidity	2007	7.848	5.800	0.70	59.80	6.833
Turbidity	2008	6.425	4.700	0.50	56.50	6.242
Turbidity	2009	8.361	4.900	0.30	65.90	8.943
Turbidity	2010	5.039	3.600	0.05	37.70	4.574
Turbidity	2011	5.880	4.600	0.18	64.00	5.630
Turbidity	2012	6.410	3.380	0.31	51.60	7.458
Turbidity	2013	9.137	8.100	2.40	24.80	4.351
Turbidity	2014	6.395	4.700	0.75	24.30	4.766
Turbidity	2015	8.557	7.400	0.40	41.50	6.174
Turbidity	2016	8.619	6.200	1.90	43.70	6.649
Turbidity	2017	7.884	6.520	1.70	23.80	4.941
Turbidity	2018	8.943	5.320	1.26	74.10	9.845
Turbidity	2019	7.948	5.430	1.27	120.00	11.140
Turbidity	2020	9.604	7.840	0.30	33.55	7.150
Turbidity	2021	8.668	7.355	0.80	28.80	5.089
Turbidity	2022	5.565	3.270	0.80	30.00	5.207
Turbidity	2023	9.010	6.300	0.99	62.32	8.967

Programs contributing WQ Data:

Table 59: Programs contributing WQ data for Turbidity in Apalachicola National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	103	2005	2021	10
Turbidity	129	2000	2023	1402
Turbidity	355	2004	2019	1072
Turbidity	557	2022	2023	147
Turbidity	4044	2021	2023	98
Turbidity	5002	1992	2023	13707

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

129 - Apalachicola National Estuarine Research Reserve Juvenile Fish and Benthic Macroinvertebrate Monitoring

355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program

557 - Central Panhandle Aquatic Preserves Seagrass Monitoring

4044 - NRDA Oyster Cultch Recovery Project

5002 - Florida STORET / WIN

Water Temperature

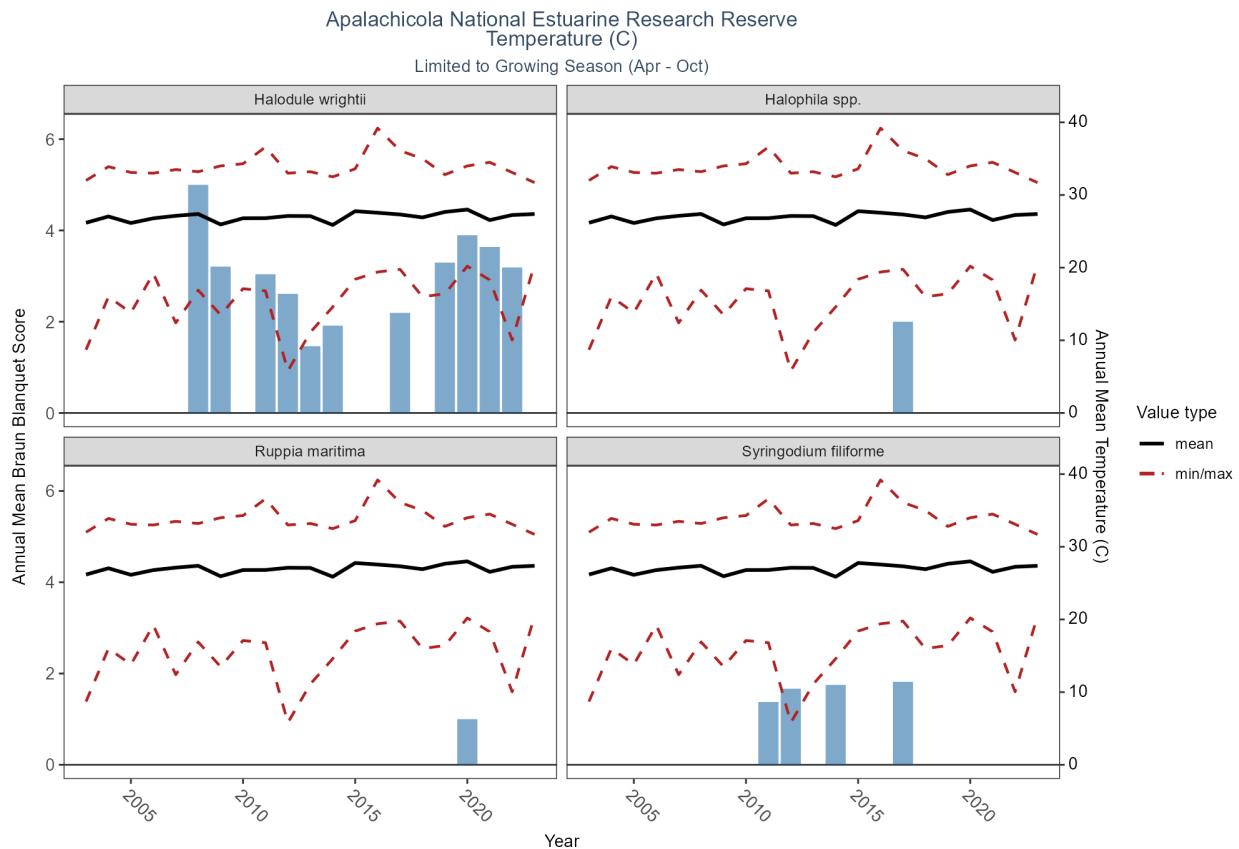


Table 60: WQ Summary for Water Temperature in Apalachicola National Estuarine Research Reserve

ParameterName	Year	mean	median	min	max	sd
Temperature	2003	26.178	26.8	8.70	32.0	2.953
Temperature	2004	27.044	27.9	16.00	33.9	3.391
Temperature	2005	26.143	27.5	13.80	33.1	4.105
Temperature	2006	26.791	27.0	19.20	33.0	3.213
Temperature	2007	27.131	27.3	12.40	33.5	3.295
Temperature	2008	27.385	28.6	16.90	33.2	3.023
Temperature	2009	25.942	27.2	13.50	34.0	4.164
Temperature	2010	26.798	28.1	17.10	34.3	3.878
Temperature	2011	26.809	27.8	16.80	36.6	3.947
Temperature	2012	27.113	27.3	5.80	33.0	2.268
Temperature	2013	27.091	28.0	11.10	33.2	2.928
Temperature	2014	25.876	26.5	14.60	32.5	3.680
Temperature	2015	27.772	28.7	18.40	33.6	2.880
Temperature	2016	27.557	28.3	19.40	39.2	3.191
Temperature	2017	27.316	27.7	19.77	36.1	2.576
Temperature	2018	26.915	28.2	16.00	35.0	3.489
Temperature	2019	27.666	28.8	16.40	32.8	3.319
Temperature	2020	27.994	28.5	20.20	34.0	2.911
Temperature	2021	26.547	27.1	18.30	34.5	2.611
Temperature	2022	27.246	28.1	10.04	33.1	3.278

ParameterName	Year	mean	median	min	max	sd
Temperature	2023	27.379	27.2	20.50	31.7	2.364

Programs contributing WQ Data:

Table 61: Programs contributing WQ data for Water Temperature in Apalachicola National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	1998	2022	27661
Temperature	95	1964	2018	368
Temperature	103	2004	2021	14
Temperature	115	1992	2004	28
Temperature	118	2015	2020	70
Temperature	119	1994	1994	13
Temperature	129	2000	2023	2529
Temperature	355	2003	2019	1454
Temperature	456	2006	2015	48
Temperature	557	2006	2023	429
Temperature	558	2008	2017	224
Temperature	4044	2007	2023	190
Temperature	5002	1992	2023	27508
Temperature	5071	2017	2017	4

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 119 - National Status and Trends Bioeffects program
- 129 - Apalachicola National Estuarine Research Reserve Juvenile Fish and Benthic Macroinvertebrate Monitoring
- 355 - Apalachicola National Estuarine Research Reserve System-Wide Monitoring Program
- 456 - Oyster Sentinel
- 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
- 558 - Franklin County Coastal Waters Seagrass Monitoring
- 4044 - NRDA Oyster Cultch Recovery Project
- 5002 - Florida STORET / WIN
- 5071 - Oyster shell heights and taxonomic diversity in 2015-2017 among previously documented oiled and non-oiled reefs in Louisiana, Alabama, and the Florida panhandle

Banana River Aquatic Preserve

Programs contributing SAV Data:

Table 62: Programs contributing SAV data in Banana River Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Percent Cover	3013	1994	2023	39569
Percent Occurrence	3013	1994	2023	45895

SAV Program names:

3013 - Seagrass (SJRWM)

3013 - Seagrass (SJRWM)

Chlorophyll-a (corrected & uncorrected)

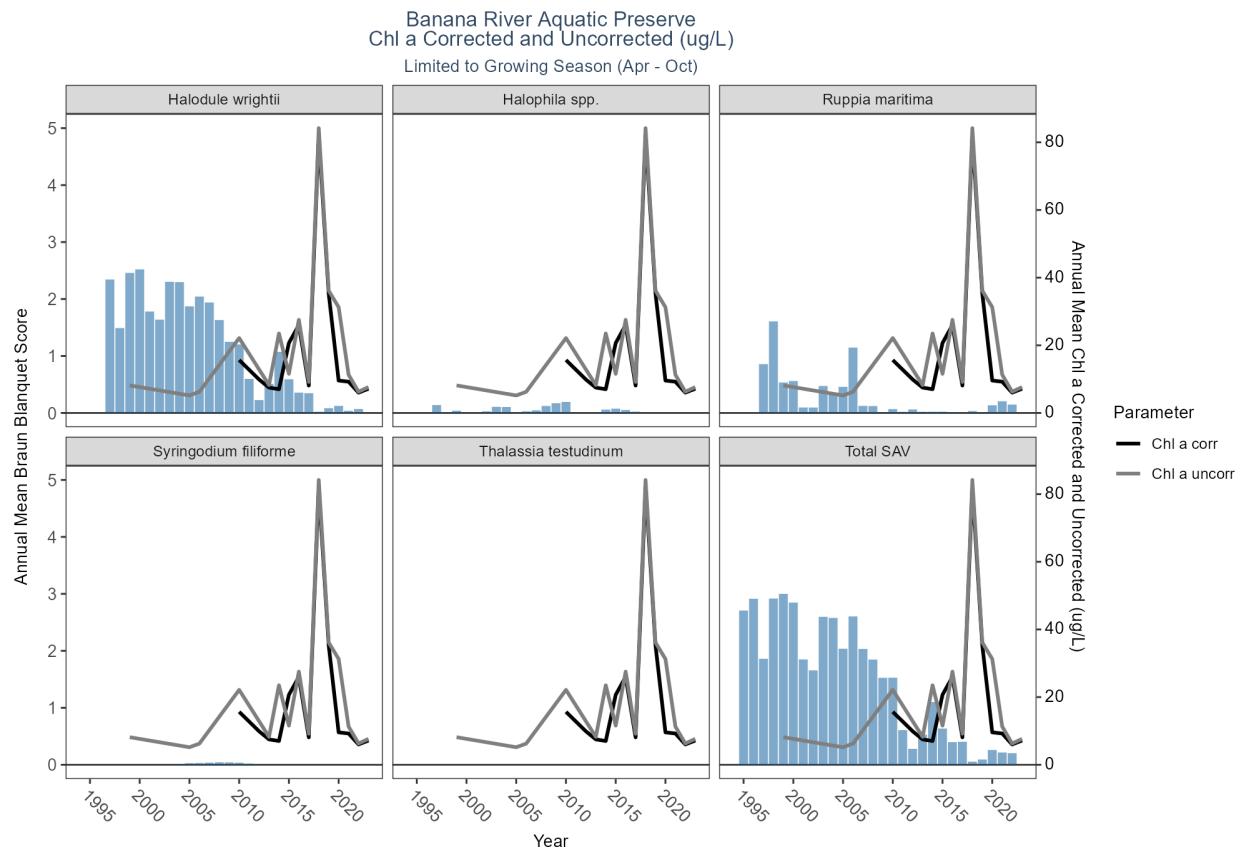


Table 63: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Banana River Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2010	15.650	15.000	6.700	23.000	6.047
Chl a corr	2012	9.900	10.250	6.100	13.000	3.184
Chl a corr	2013	7.500	7.500	4.000	11.000	4.950

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2014	7.025	3.750	1.100	37.000	9.167
Chl a corr	2015	20.680	25.000	4.100	37.000	13.453
Chl a corr	2016	25.981	24.000	5.800	55.000	14.953
Chl a corr	2017	8.100	7.150	4.400	14.000	3.290
Chl a corr	2018	82.111	87.000	49.000	120.000	21.163
Chl a corr	2019	35.286	38.000	12.000	57.000	14.637
Chl a corr	2020	9.578	6.041	1.549	32.574	9.190
Chl a corr	2021	9.247	6.395	1.000	42.506	8.798
Chl a corr	2022	6.007	4.459	1.000	33.001	5.841
Chl a corr	2023	7.162	6.408	1.522	19.357	4.205
Chl a uncorr	1999	8.145	5.920	4.300	16.440	5.695
Chl a uncorr	2005	5.180	5.180	5.180	5.180	NA
Chl a uncorr	2006	6.250	6.250	6.250	6.250	NA
Chl a uncorr	2010	22.142	14.995	9.000	49.580	18.527
Chl a uncorr	2013	8.250	8.250	4.500	12.000	5.303
Chl a uncorr	2014	23.500	23.500	13.000	34.000	14.849
Chl a uncorr	2015	11.563	6.870	3.820	24.000	10.878
Chl a uncorr	2016	27.544	24.500	8.700	58.000	15.085
Chl a uncorr	2017	9.167	8.350	5.500	16.000	3.671
Chl a uncorr	2018	84.194	87.000	50.940	130.000	25.433
Chl a uncorr	2019	36.143	38.000	13.000	57.000	14.100
Chl a uncorr	2020	31.266	9.408	1.808	189.310	46.696
Chl a uncorr	2021	11.303	7.181	1.717	44.144	10.212
Chl a uncorr	2022	6.280	4.666	1.000	35.948	6.301
Chl a uncorr	2023	7.656	6.954	1.452	19.808	4.463

Programs contributing WQ Data:

Table 64: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Banana River Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	103	2021	2021	19
Chl a corr	540	2016	2019	23
Chl a corr	5002	2010	2023	239
Chl a uncorr	95	2010	2018	7
Chl a uncorr	103	2005	2006	2
Chl a uncorr	118	2010	2010	2
Chl a uncorr	540	2016	2019	23
Chl a uncorr	5002	1999	2023	206

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

540 - Shellfish Harvest Area Classification Program

5002 - Florida STORET / WIN

95 - Harmful Algal Bloom Marine Observation Network

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

Dissolved Oxygen

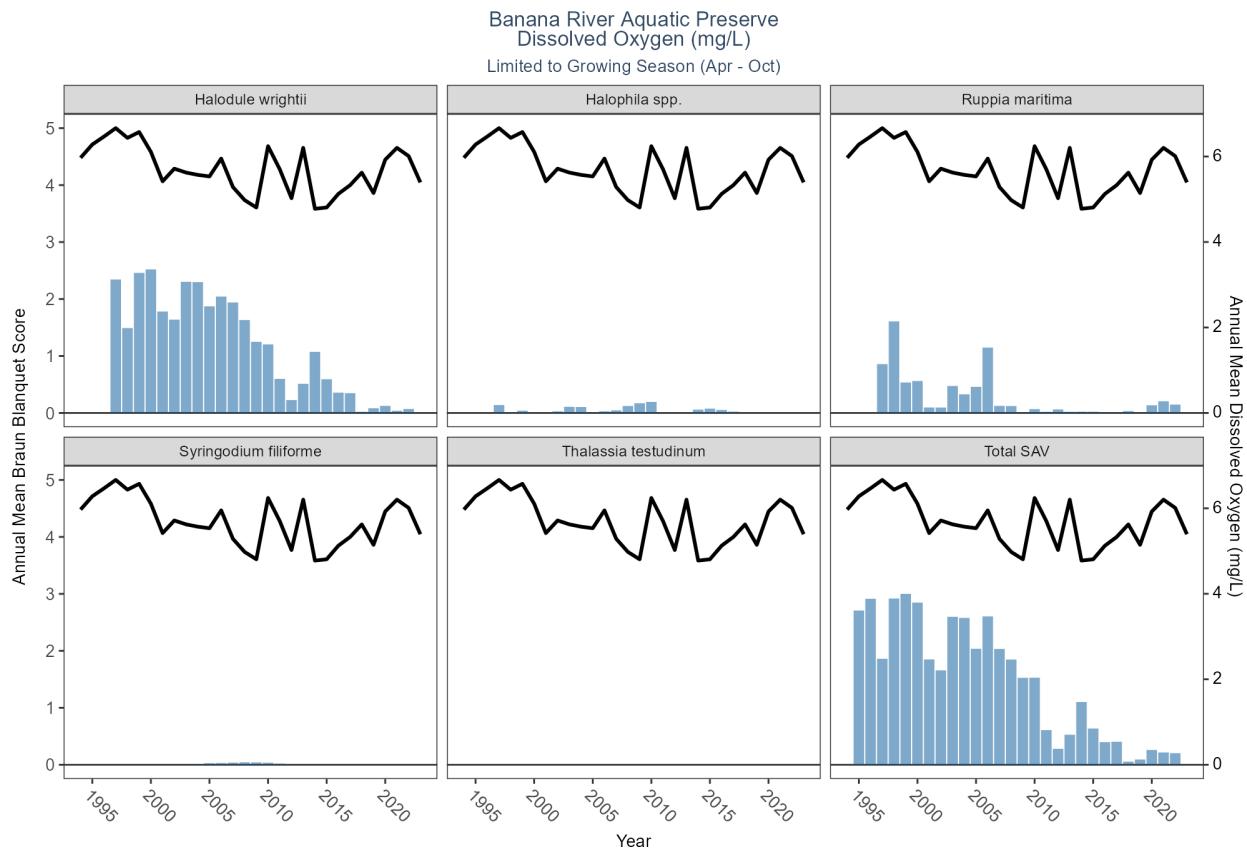


Table 65: WQ Summary for Dissolved Oxygen in Banana River Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	1994	5.970	6.100	0.60	11.60	2.021
Dissolved Oxygen	1995	6.281	6.100	2.10	12.20	1.621
Dissolved Oxygen	1996	6.468	6.400	2.00	13.70	1.524
Dissolved Oxygen	1997	6.664	6.800	1.00	12.00	1.921
Dissolved Oxygen	1998	6.436	6.400	1.90	13.60	1.476
Dissolved Oxygen	1999	6.573	6.600	1.00	12.00	1.427
Dissolved Oxygen	2000	6.108	6.400	0.60	11.30	1.741
Dissolved Oxygen	2001	5.420	5.400	0.80	10.50	1.637
Dissolved Oxygen	2002	5.715	5.820	1.30	10.00	1.442
Dissolved Oxygen	2003	5.624	5.700	1.13	10.00	1.631
Dissolved Oxygen	2004	5.570	5.700	1.20	11.90	1.897
Dissolved Oxygen	2005	5.534	5.300	1.00	11.50	1.590
Dissolved Oxygen	2006	5.952	5.870	1.60	12.00	1.700
Dissolved Oxygen	2007	5.286	5.000	1.30	12.00	1.790
Dissolved Oxygen	2008	4.979	4.670	1.80	12.10	1.858
Dissolved Oxygen	2009	4.807	4.600	1.70	12.00	1.772
Dissolved Oxygen	2010	6.242	6.020	2.40	10.50	1.522
Dissolved Oxygen	2011	5.700	5.400	2.20	10.30	1.725
Dissolved Oxygen	2012	5.024	4.790	2.30	10.70	1.756

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2013	6.203	6.400	2.00	16.73	1.623
Dissolved Oxygen	2014	4.777	5.400	0.30	14.30	2.930
Dissolved Oxygen	2015	4.807	5.360	0.11	16.00	3.926
Dissolved Oxygen	2016	5.125	5.800	0.30	12.00	3.406
Dissolved Oxygen	2017	5.329	6.000	0.41	11.90	2.842
Dissolved Oxygen	2018	5.623	5.800	0.30	13.30	2.408
Dissolved Oxygen	2019	5.145	5.025	0.30	11.50	1.963
Dissolved Oxygen	2020	5.926	5.920	1.56	15.20	1.763
Dissolved Oxygen	2021	6.203	6.270	2.00	13.10	1.840
Dissolved Oxygen	2022	6.009	5.995	0.50	15.70	2.057
Dissolved Oxygen	2023	5.393	5.500	1.65	8.56	1.716

Programs contributing WQ Data:

Table 66: Programs contributing WQ data for Dissolved Oxygen in Banana River Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	1990	2022	2725
Dissolved Oxygen	95	2006	2018	420
Dissolved Oxygen	103	2021	2021	65
Dissolved Oxygen	115	1995	1995	8
Dissolved Oxygen	118	2015	2020	11
Dissolved Oxygen	540	2016	2019	21
Dissolved Oxygen	3001	1991	2023	2522
Dissolved Oxygen	5002	1992	2023	12908

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 540 - Shellfish Harvest Area Classification Program
- 3001 - Lagoon Watch (Formerly Marine Discovery Center)
- 5002 - Florida STORET / WIN

Dissolved Oxygen Saturation

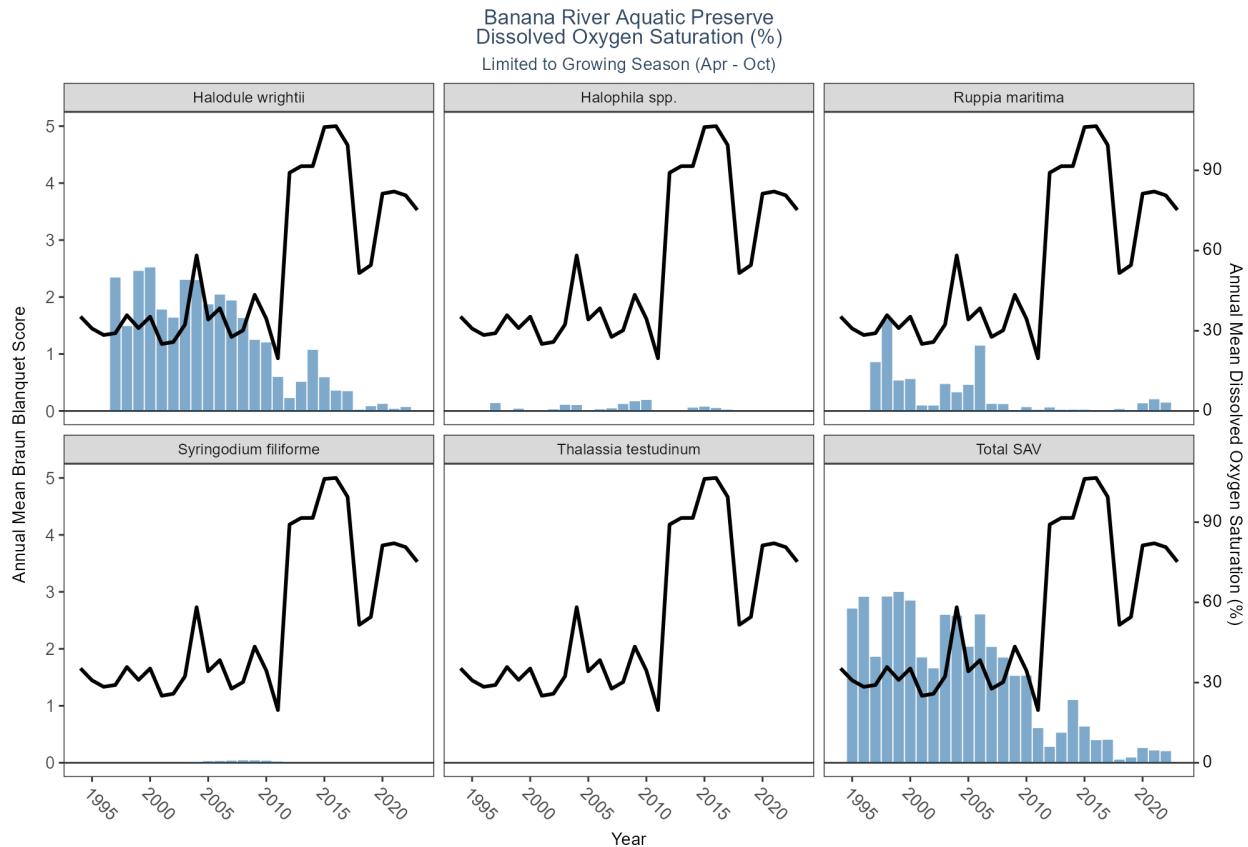


Table 67: WQ Summary for Dissolved Oxygen Saturation in Banana River Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	1994	35.316	1.294	0.082	179.000	47.225
Dissolved Oxygen Saturation	1995	30.822	1.045	0.294	176.000	41.488
Dissolved Oxygen Saturation	1996	28.419	0.996	0.306	142.000	40.374
Dissolved Oxygen Saturation	1997	29.079	1.032	0.141	166.000	44.960
Dissolved Oxygen Saturation	1998	35.817	1.045	0.290	169.000	43.246
Dissolved Oxygen Saturation	1999	30.995	1.021	0.330	131.000	41.446
Dissolved Oxygen Saturation	2000	35.264	1.171	0.087	146.000	41.939
Dissolved Oxygen Saturation	2001	25.067	0.843	0.120	125.000	34.029
Dissolved Oxygen Saturation	2002	25.811	0.858	0.195	158.000	35.142
Dissolved Oxygen Saturation	2003	32.355	1.016	0.215	157.000	47.495
Dissolved Oxygen Saturation	2004	58.193	57.500	0.434	184.000	50.898
Dissolved Oxygen Saturation	2005	34.209	1.077	0.160	182.400	41.623
Dissolved Oxygen Saturation	2006	38.407	1.236	0.228	176.800	48.824
Dissolved Oxygen Saturation	2007	27.698	0.974	0.199	166.017	41.885
Dissolved Oxygen Saturation	2008	30.190	0.923	0.320	188.687	48.690
Dissolved Oxygen Saturation	2009	43.450	1.641	0.460	169.311	50.286
Dissolved Oxygen Saturation	2010	34.490	1.063	0.469	159.763	50.342
Dissolved Oxygen Saturation	2011	19.703	0.980	0.470	126.569	33.119
Dissolved Oxygen Saturation	2012	89.128	86.435	61.930	118.610	14.234

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2013	91.578	90.200	21.790	261.000	37.065
Dissolved Oxygen Saturation	2014	91.593	90.000	42.900	165.630	22.524
Dissolved Oxygen Saturation	2015	106.197	97.000	52.000	189.090	34.230
Dissolved Oxygen Saturation	2016	106.556	96.550	24.000	188.680	38.822
Dissolved Oxygen Saturation	2017	99.466	100.855	65.050	129.000	14.125
Dissolved Oxygen Saturation	2018	51.600	50.710	4.280	112.200	26.367
Dissolved Oxygen Saturation	2019	54.559	53.345	4.350	108.900	23.176
Dissolved Oxygen Saturation	2020	81.302	80.950	23.100	205.200	25.225
Dissolved Oxygen Saturation	2021	82.106	79.600	26.700	161.300	24.360
Dissolved Oxygen Saturation	2022	80.657	80.150	6.400	137.600	24.730
Dissolved Oxygen Saturation	2023	75.192	74.800	23.900	125.300	23.302

Programs contributing WQ Data:

Table 68: Programs contributing WQ data for Dissolved Oxygen Saturation in Banana River Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	95	2014	2018	5
Dissolved Oxygen Saturation	3001	1991	2023	2469
Dissolved Oxygen Saturation	5002	1992	2023	1788

WQ Program names:

95 - Harmful Algal Bloom Marine Observation Network

3001 - Lagoon Watch (Formerly Marine Discovery Center)

5002 - Florida STORET / WIN

pH

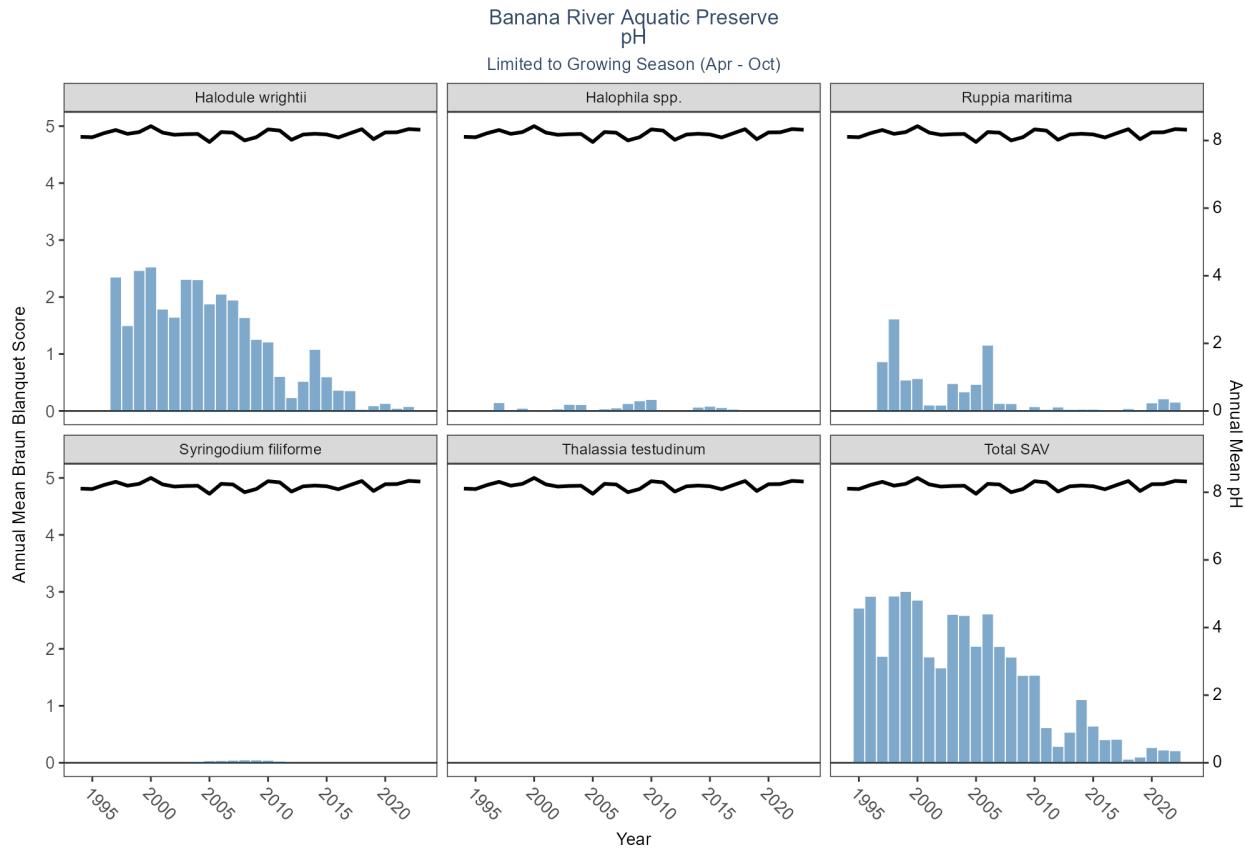


Table 69: WQ Summary for pH in Banana River Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	1994	8.109	8.100	7.10	9.000	0.407
pH	1995	8.097	8.100	7.50	9.000	0.219
pH	1996	8.218	8.200	7.30	9.400	0.237
pH	1997	8.310	8.300	7.66	9.000	0.218
pH	1998	8.196	8.200	7.54	8.800	0.236
pH	1999	8.250	8.200	6.00	9.000	0.257
pH	2000	8.425	8.500	7.60	9.000	0.295
pH	2001	8.234	8.200	7.29	8.800	0.241
pH	2002	8.170	8.200	6.62	8.790	0.209
pH	2003	8.187	8.150	7.42	9.000	0.292
pH	2004	8.194	8.255	6.52	9.200	0.356
pH	2005	7.956	8.100	6.60	8.810	0.522
pH	2006	8.250	8.300	7.20	9.200	0.391
pH	2007	8.232	8.300	7.40	8.900	0.336
pH	2008	8.003	8.100	6.70	8.960	0.394
pH	2009	8.097	8.100	7.20	9.100	0.286
pH	2010	8.328	8.260	7.60	9.300	0.383
pH	2011	8.294	8.215	7.50	8.900	0.194
pH	2012	8.021	8.000	7.47	8.800	0.240
pH	2013	8.177	8.100	7.30	8.871	0.220

ParameterName	Year	mean	median	min	max	sd
pH	2014	8.199	8.200	7.72	8.620	0.203
pH	2015	8.179	8.200	7.60	8.670	0.219
pH	2016	8.090	8.100	7.00	8.921	0.328
pH	2017	8.214	8.200	7.40	8.700	0.200
pH	2018	8.335	8.400	7.60	8.910	0.283
pH	2019	8.039	8.000	7.10	8.900	0.323
pH	2020	8.239	8.260	7.20	8.840	0.278
pH	2021	8.243	8.265	7.40	8.850	0.263
pH	2022	8.338	8.400	7.00	9.000	0.317
pH	2023	8.318	8.350	7.64	8.970	0.315

Programs contributing WQ Data:

Table 70: Programs contributing WQ data for pH in Banana River Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	1990	2022	2680
pH	95	2006	2018	402
pH	103	2021	2021	65
pH	115	1995	1995	7
pH	118	2015	2020	7
pH	540	2016	2019	21
pH	3001	1991	2023	2431
pH	5002	1996	2023	8652

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 540 - Shellfish Harvest Area Classification Program
- 3001 - Lagoon Watch (Formerly Marine Discovery Center)
- 5002 - Florida STORET / WIN

Salinity

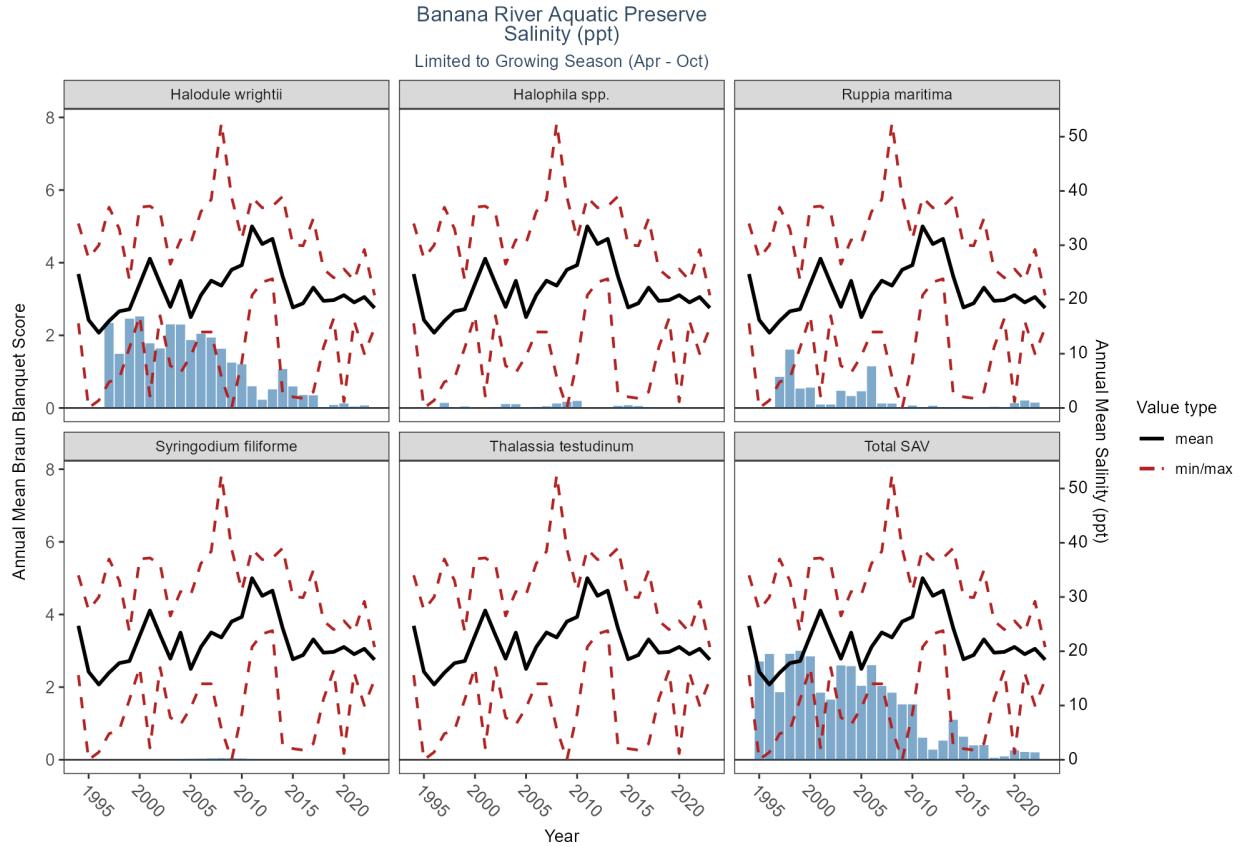


Table 71: WQ Summary for Salinity in Banana River Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	1994	24.690	26.00	15.60	34.00	4.724
Salinity	1995	16.221	16.60	0.00	27.60	2.622
Salinity	1996	13.870	14.00	1.40	30.00	2.168
Salinity	1997	16.034	15.90	4.80	37.00	2.246
Salinity	1998	17.819	17.80	5.50	33.00	2.652
Salinity	1999	18.199	18.60	11.10	23.60	2.177
Salinity	2000	22.854	22.80	17.00	37.00	2.735
Salinity	2001	27.511	28.20	2.20	37.20	3.869
Salinity	2002	22.983	22.50	17.00	36.00	2.726
Salinity	2003	18.632	18.70	7.80	26.50	2.211
Salinity	2004	23.437	23.72	6.50	31.00	2.970
Salinity	2005	16.740	17.10	9.60	30.40	1.843
Salinity	2006	20.796	20.10	14.00	36.20	2.518
Salinity	2007	23.467	23.30	14.00	38.40	2.369
Salinity	2008	22.547	24.00	5.70	52.50	4.376
Salinity	2009	25.477	25.60	0.00	38.88	2.719
Salinity	2010	26.327	26.30	8.50	31.20	2.353
Salinity	2011	33.472	33.60	20.80	38.80	2.474
Salinity	2012	30.215	30.10	23.20	36.90	2.571
Salinity	2013	31.168	31.50	23.80	37.20	2.983

ParameterName	Year	mean	median	min	max	sd
Salinity	2014	24.257	32.00	2.56	39.00	14.183
Salinity	2015	18.522	23.60	2.05	30.10	10.516
Salinity	2016	19.302	23.90	1.78	29.90	9.544
Salinity	2017	22.187	25.20	2.95	34.89	9.558
Salinity	2018	19.737	19.90	11.20	25.60	2.407
Salinity	2019	19.881	20.00	16.50	24.00	1.323
Salinity	2020	20.794	20.96	1.15	25.60	2.181
Salinity	2021	19.460	19.40	16.00	23.52	1.264
Salinity	2022	20.449	20.28	10.00	29.20	3.351
Salinity	2023	18.435	18.44	14.76	20.76	1.219

Programs contributing WQ Data:

Table 72: Programs contributing WQ data for Salinity in Banana River Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	1990	2022	2727
Salinity	95	2006	2018	431
Salinity	115	1995	1995	6
Salinity	118	2015	2020	11
Salinity	540	2016	2019	21
Salinity	3001	1991	2023	2517
Salinity	5002	1992	2023	14037

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 540 - Shellfish Harvest Area Classification Program
- 3001 - Lagoon Watch (Formerly Marine Discovery Center)
- 5002 - Florida STORET / WIN

Secchi Depth

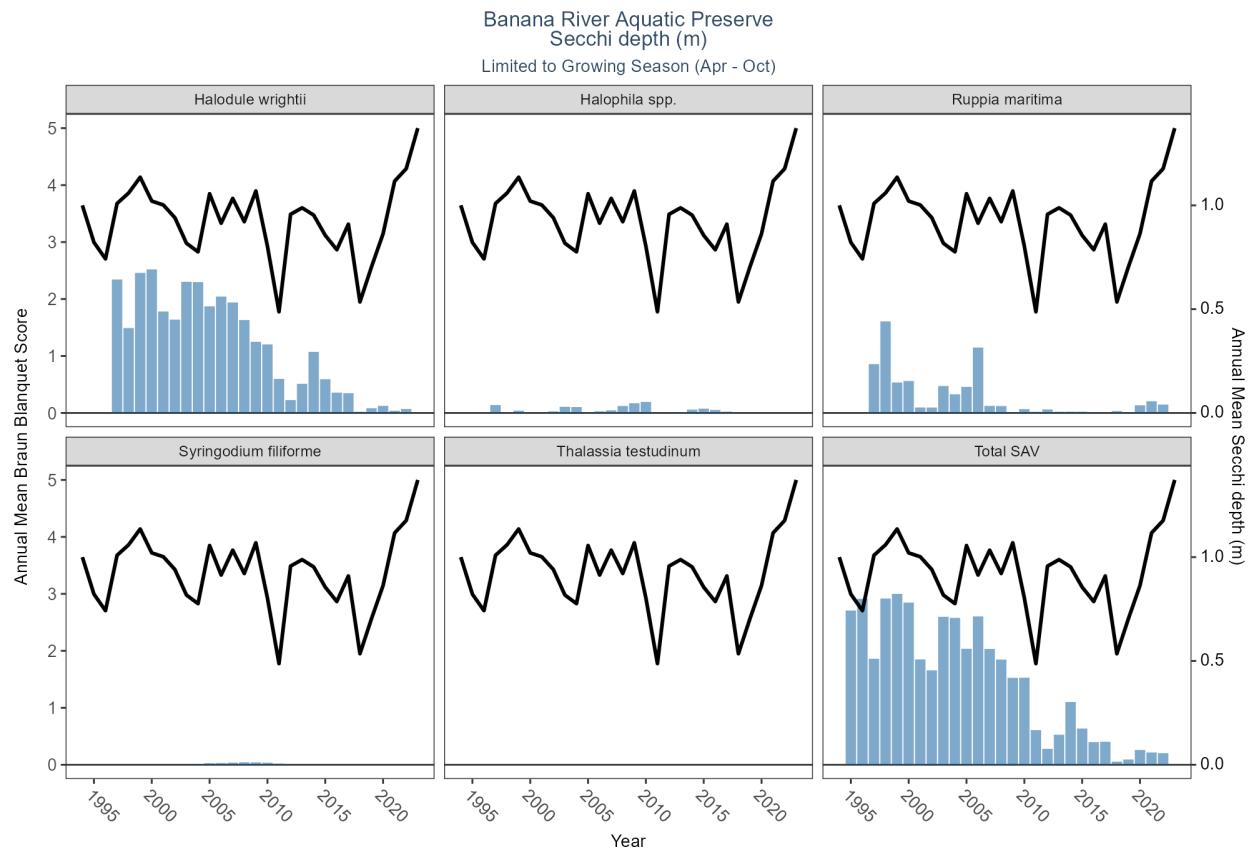


Table 73: WQ Summary for Secchi Depth in Banana River Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	1994	1.000	0.900	0.30	2.20	0.426
Secchi depth	1995	0.822	0.800	0.40	1.80	0.308
Secchi depth	1996	0.742	0.700	0.20	1.50	0.321
Secchi depth	1997	1.009	1.000	0.30	2.80	0.415
Secchi depth	1998	1.060	1.100	0.50	1.60	0.311
Secchi depth	1999	1.135	1.000	0.30	3.20	0.508
Secchi depth	2000	1.020	1.000	0.25	1.75	0.312
Secchi depth	2001	1.002	0.900	0.30	8.90	0.758
Secchi depth	2002	0.940	1.000	0.30	1.90	0.337
Secchi depth	2003	0.817	0.700	0.30	2.00	0.359
Secchi depth	2004	0.776	0.700	0.40	1.40	0.229
Secchi depth	2005	1.056	1.000	0.46	2.10	0.330
Secchi depth	2006	0.914	0.825	0.40	2.00	0.287
Secchi depth	2007	1.034	0.900	0.10	2.90	0.517
Secchi depth	2008	0.921	0.900	0.06	2.10	0.430
Secchi depth	2009	1.069	1.000	0.10	2.70	0.437
Secchi depth	2010	0.803	0.800	0.20	2.00	0.278
Secchi depth	2011	0.487	0.500	0.30	0.90	0.139
Secchi depth	2012	0.957	0.900	0.40	1.80	0.362
Secchi depth	2013	0.988	0.900	0.30	2.10	0.357

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2014	0.953	0.900	0.40	2.00	0.392
Secchi depth	2015	0.855	0.800	0.20	1.80	0.320
Secchi depth	2016	0.786	0.800	0.30	1.50	0.251
Secchi depth	2017	0.909	0.900	0.30	2.00	0.346
Secchi depth	2018	0.535	0.400	0.20	1.60	0.275
Secchi depth	2019	0.704	0.600	0.09	1.80	0.308
Secchi depth	2020	0.863	0.800	0.10	2.90	0.493
Secchi depth	2021	1.117	1.200	0.10	2.30	0.524
Secchi depth	2022	1.176	1.100	0.10	3.00	0.424
Secchi depth	2023	1.372	1.300	0.40	2.10	0.365

Programs contributing WQ Data:

Table 74: Programs contributing WQ data for Secchi Depth in Banana River Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	1994	2022	1943
Secchi depth	103	2021	2021	92
Secchi depth	118	2020	2020	2
Secchi depth	3001	1991	2023	1755
Secchi depth	5002	1999	2023	1244

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

3001 - Lagoon Watch (Formerly Marine Discovery Center)

5002 - Florida STORET / WIN

Total Nitrogen & Total Phosphorus

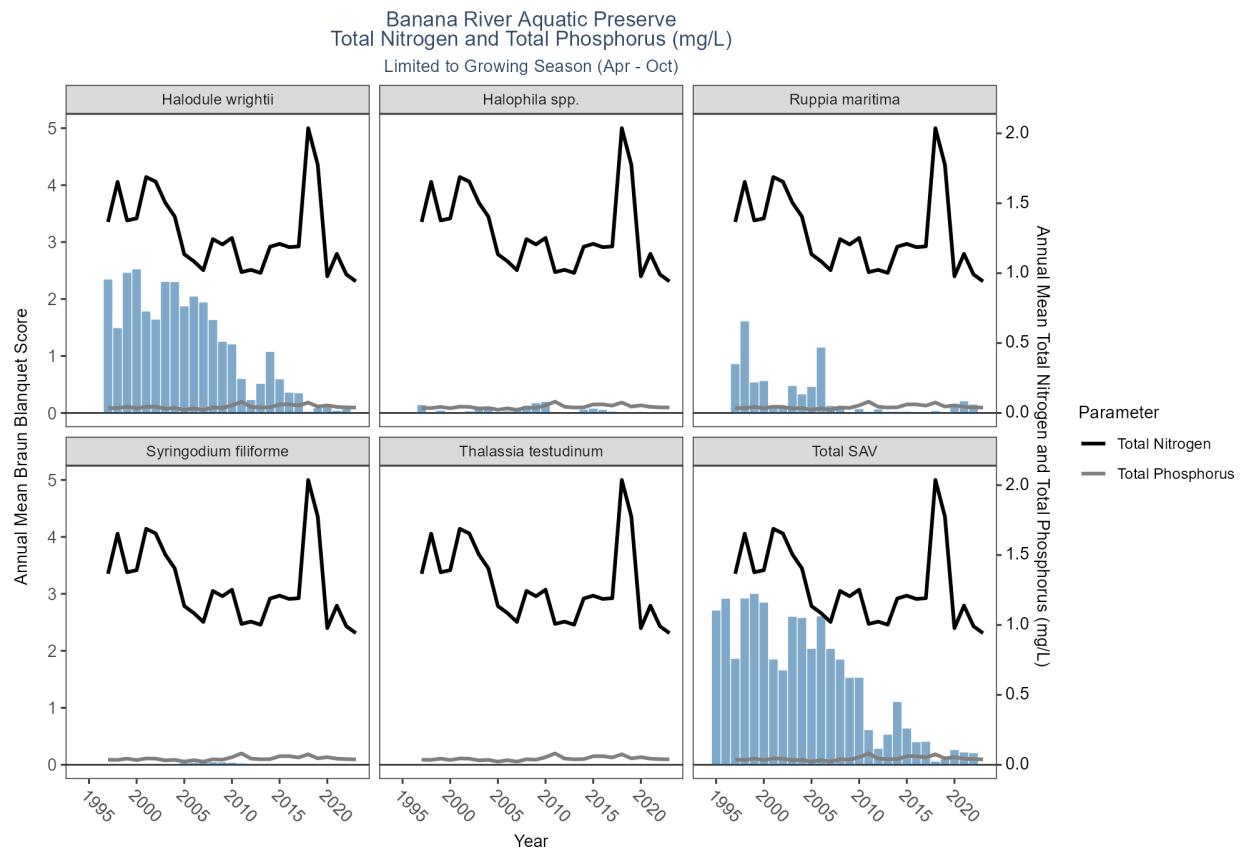


Table 75: WQ Summary for Total Nitrogen & Total Phosphorus in Banana River Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	1997	1.366	1.368	0.797	1.678	0.238
Total Nitrogen	1998	1.653	1.645	1.074	2.369	0.266
Total Nitrogen	1999	1.377	1.301	0.810	2.628	0.421
Total Nitrogen	2000	1.392	1.392	0.730	2.144	0.330
Total Nitrogen	2001	1.688	1.728	1.007	2.562	0.368
Total Nitrogen	2002	1.655	1.648	1.096	2.330	0.266
Total Nitrogen	2003	1.504	1.450	0.947	2.417	0.291
Total Nitrogen	2004	1.405	1.383	0.856	2.145	0.298
Total Nitrogen	2005	1.135	1.072	0.885	2.125	0.214
Total Nitrogen	2006	1.085	1.116	0.218	1.568	0.265
Total Nitrogen	2007	1.022	1.022	0.528	1.376	0.214
Total Nitrogen	2008	1.243	1.259	0.481	1.800	0.270
Total Nitrogen	2009	1.206	1.224	0.382	1.700	0.373
Total Nitrogen	2010	1.252	1.204	0.686	1.912	0.302
Total Nitrogen	2011	1.007	1.035	0.517	1.494	0.261
Total Nitrogen	2012	1.024	1.030	0.618	1.404	0.209
Total Nitrogen	2013	1.002	0.989	0.767	1.414	0.128
Total Nitrogen	2014	1.189	1.124	0.701	2.559	0.342
Total Nitrogen	2015	1.210	1.166	0.680	2.150	0.315

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2016	1.186	1.098	0.581	2.029	0.343
Total Nitrogen	2017	1.191	1.183	0.604	1.804	0.235
Total Nitrogen	2018	2.037	2.004	1.704	2.404	0.250
Total Nitrogen	2019	1.775	1.704	1.604	2.104	0.160
Total Nitrogen	2020	0.977	0.987	0.591	1.370	0.135
Total Nitrogen	2021	1.138	1.146	0.761	1.447	0.163
Total Nitrogen	2022	0.991	1.004	0.535	1.334	0.189
Total Nitrogen	2023	0.941	0.947	0.671	1.184	0.098
Total Phosphorus	1997	0.036	0.036	0.005	0.073	0.019
Total Phosphorus	1998	0.035	0.031	0.000	0.139	0.022
Total Phosphorus	1999	0.044	0.040	0.003	0.113	0.026
Total Phosphorus	2000	0.034	0.027	0.000	0.100	0.024
Total Phosphorus	2001	0.045	0.036	0.001	0.520	0.051
Total Phosphorus	2002	0.044	0.035	-0.010	0.342	0.043
Total Phosphorus	2003	0.031	0.030	-0.003	0.112	0.025
Total Phosphorus	2004	0.035	0.031	-0.005	0.174	0.027
Total Phosphorus	2005	0.023	0.017	-0.001	0.118	0.019
Total Phosphorus	2006	0.033	0.027	-0.002	0.105	0.025
Total Phosphorus	2007	0.022	0.020	0.002	0.074	0.015
Total Phosphorus	2008	0.039	0.038	0.006	0.165	0.029
Total Phosphorus	2009	0.036	0.027	-0.008	0.150	0.028
Total Phosphorus	2010	0.054	0.048	0.021	0.140	0.027
Total Phosphorus	2011	0.081	0.077	0.018	0.157	0.043
Total Phosphorus	2012	0.044	0.042	0.016	0.086	0.017
Total Phosphorus	2013	0.039	0.035	-0.009	0.116	0.023
Total Phosphorus	2014	0.040	0.034	0.005	0.158	0.026
Total Phosphorus	2015	0.061	0.052	0.001	0.172	0.036
Total Phosphorus	2016	0.062	0.058	0.004	0.162	0.032
Total Phosphorus	2017	0.052	0.049	0.022	0.149	0.025
Total Phosphorus	2018	0.075	0.082	0.004	0.097	0.029
Total Phosphorus	2019	0.046	0.030	0.026	0.079	0.022
Total Phosphorus	2020	0.054	0.044	0.014	0.160	0.035
Total Phosphorus	2021	0.043	0.040	0.013	0.143	0.021
Total Phosphorus	2022	0.040	0.033	0.010	0.135	0.027
Total Phosphorus	2023	0.039	0.034	0.010	0.097	0.020

Programs contributing WQ Data:

Table 76: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Banana River Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	103	2005	2006	4
Total Nitrogen	118	2010	2010	2
Total Nitrogen	540	2016	2019	22
Total Nitrogen	5002	1997	2023	1247
Total Phosphorus	103	2005	2021	42
Total Phosphorus	118	2010	2010	1
Total Phosphorus	540	2016	2019	22
Total Phosphorus	5002	1997	2023	2608

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

540 - Shellfish Harvest Area Classification Program

5002 - Florida STORET / WIN

Total Suspended Solids

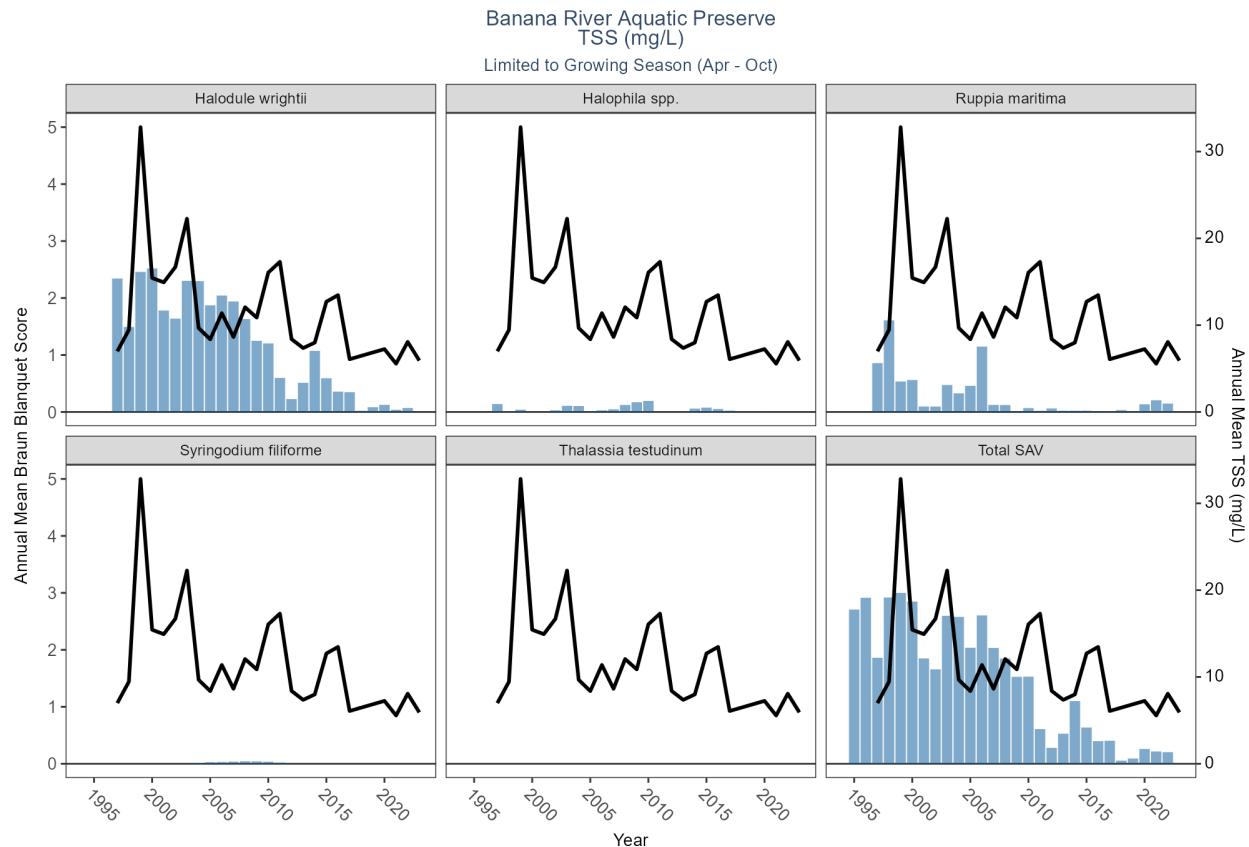


Table 77: WQ Summary for Total Suspended Solids in Banana River Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	1997	6.987	4.00	1.0	20.000	6.185
TSS	1998	9.460	8.40	1.2	31.600	5.880
TSS	1999	32.812	33.00	5.0	54.000	11.839
TSS	2000	15.435	15.00	1.0	47.300	7.877
TSS	2001	14.932	14.15	1.0	65.000	8.928
TSS	2002	16.702	10.50	-2.0	184.000	21.834
TSS	2003	22.263	23.00	5.0	45.000	8.643
TSS	2004	9.673	9.00	2.0	58.000	5.756
TSS	2005	8.371	8.00	1.0	20.000	4.101
TSS	2006	11.382	9.00	3.1	44.000	8.113
TSS	2007	8.638	8.00	4.2	14.000	2.184
TSS	2008	12.065	10.90	5.0	62.000	8.336
TSS	2009	10.875	10.10	5.0	44.000	6.066

ParameterName	Year	mean	median	min	max	sd
TSS	2010	16.063	11.90	4.8	54.300	10.449
TSS	2011	17.300	16.00	9.0	31.200	6.166
TSS	2012	8.393	4.70	1.7	28.000	7.040
TSS	2013	7.362	6.00	3.5	27.400	4.897
TSS	2014	7.988	6.10	1.3	29.000	6.909
TSS	2015	12.706	9.30	2.1	44.100	9.310
TSS	2016	13.461	12.60	1.8	28.900	6.963
TSS	2017	6.079	5.30	0.8	14.000	3.248
TSS	2020	7.241	5.40	2.3	23.823	5.076
TSS	2021	5.561	5.20	2.0	26.000	4.042
TSS	2022	8.072	7.60	2.0	21.000	4.792
TSS	2023	5.922	5.00	2.0	24.750	4.150

Programs contributing WQ Data:

Table 78: Programs contributing WQ data for Total Susepended Solids in Banana River Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	103	2021	2021	19
TSS	5002	1997	2023	1403

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

5002 - Florida STORET / WIN

Turbidity

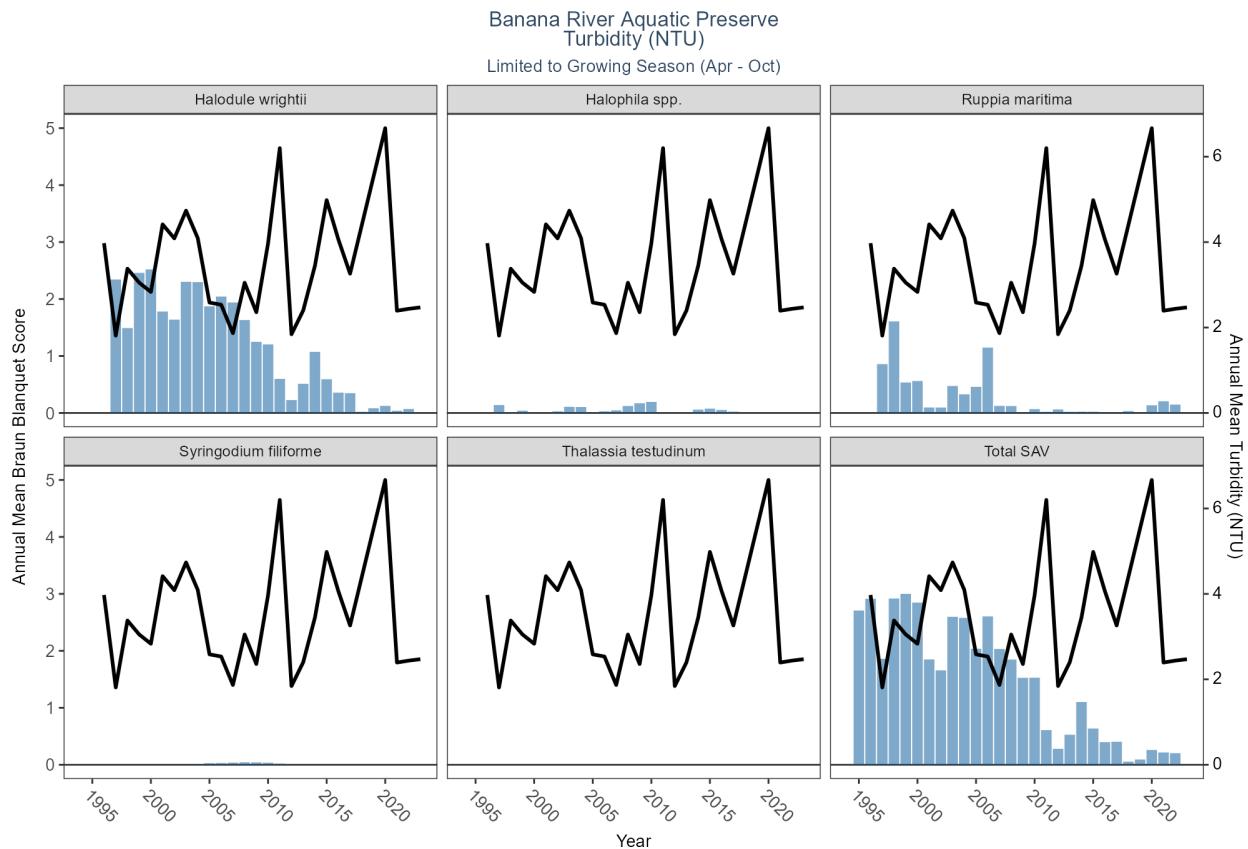


Table 79: WQ Summary for Turbidity in Banana River Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	1996	3.975	3.500	0.100	23.000	2.165
Turbidity	1997	1.810	1.600	0.410	4.800	0.772
Turbidity	1998	3.378	3.100	0.800	16.000	1.502
Turbidity	1999	3.051	2.700	0.040	13.300	1.712
Turbidity	2000	2.834	2.600	0.150	8.800	1.348
Turbidity	2001	4.415	3.700	0.700	23.000	3.269
Turbidity	2002	4.087	3.500	0.620	70.000	3.689
Turbidity	2003	4.737	4.400	0.900	15.000	2.260
Turbidity	2004	4.093	3.300	0.800	14.600	2.373
Turbidity	2005	2.585	2.300	0.200	14.100	1.482
Turbidity	2006	2.534	2.200	0.080	18.200	1.518
Turbidity	2007	1.868	1.700	0.380	5.400	0.879
Turbidity	2008	3.049	2.600	0.500	23.500	1.767
Turbidity	2009	2.358	2.200	0.200	7.500	1.270
Turbidity	2010	3.970	3.700	0.700	11.100	1.456
Turbidity	2011	6.200	6.200	2.300	13.700	2.435
Turbidity	2012	1.842	1.400	0.700	7.190	1.254
Turbidity	2013	2.400	2.367	0.609	4.798	0.918
Turbidity	2014	3.446	3.139	0.434	11.199	2.184
Turbidity	2015	4.983	4.508	0.640	12.894	2.669

ParameterName	Year	mean	median	min	max	sd
Turbidity	2016	4.063	3.008	0.305	14.539	2.958
Turbidity	2017	3.261	3.042	0.918	6.344	1.510
Turbidity	2020	6.668	2.669	0.500	47.104	9.426
Turbidity	2021	2.394	2.050	0.500	8.663	1.487
Turbidity	2022	2.438	2.086	0.500	7.589	1.527
Turbidity	2023	2.472	1.900	0.530	7.022	1.652

Programs contributing WQ Data:

Table 80: Programs contributing WQ data for Turbidity in Banana River Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	95	2009	2009	2
Turbidity	103	2005	2021	21
Turbidity	5002	1996	2023	8673

WQ Program names:

95 - Harmful Algal Bloom Marine Observation Network

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

5002 - Florida STORET / WIN

Water Temperature

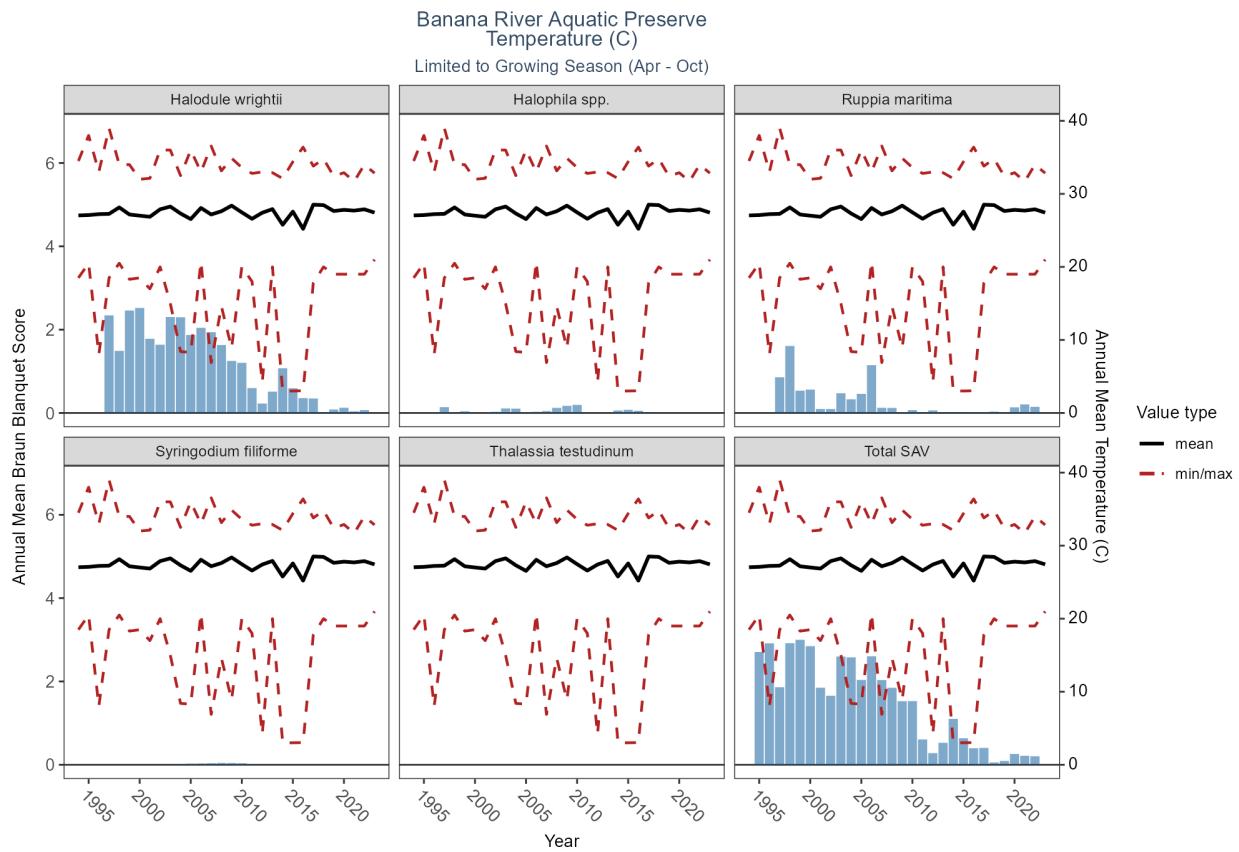


Table 81: WQ Summary for Water Temperature in Banana River Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	1994	27.047	26.950	18.50	34.50	2.886
Temperature	1995	27.097	28.000	20.50	38.00	3.118
Temperature	1996	27.224	28.000	8.00	33.00	2.819
Temperature	1997	27.260	28.000	18.50	39.00	3.222
Temperature	1998	28.146	28.700	20.50	34.00	2.622
Temperature	1999	27.174	27.100	18.30	34.00	2.406
Temperature	2000	27.013	27.500	18.50	32.00	2.492
Temperature	2001	26.864	27.200	17.00	32.13	2.760
Temperature	2002	27.884	28.100	20.00	36.00	1.948
Temperature	2003	28.262	28.500	15.00	36.00	2.311
Temperature	2004	27.312	27.800	8.40	32.50	2.664
Temperature	2005	26.548	27.200	8.30	36.00	3.500
Temperature	2006	28.072	28.130	20.70	33.00	2.365
Temperature	2007	27.178	27.700	6.90	36.55	2.936
Temperature	2008	27.620	28.500	14.60	33.15	2.715
Temperature	2009	28.390	28.800	8.90	34.88	2.634
Temperature	2010	27.466	27.200	20.00	33.60	3.277
Temperature	2011	26.590	26.010	18.00	32.80	2.747
Temperature	2012	27.417	28.000	4.20	33.00	3.241

ParameterName	Year	mean	median	min	max	sd
Temperature	2013	27.913	28.800	20.00	32.90	2.270
Temperature	2014	25.774	27.700	3.01	32.10	7.368
Temperature	2015	27.569	28.800	3.01	34.40	5.165
Temperature	2016	25.211	28.200	3.04	36.40	8.554
Temperature	2017	28.521	29.200	17.80	33.80	2.880
Temperature	2018	28.460	29.000	20.00	34.80	3.004
Temperature	2019	27.652	27.450	19.00	32.40	2.132
Temperature	2020	27.809	28.000	19.00	32.90	2.549
Temperature	2021	27.709	28.200	19.00	31.70	2.584
Temperature	2022	27.883	28.004	19.00	34.00	3.316
Temperature	2023	27.435	27.674	21.00	32.84	2.840

Programs contributing WQ Data:

Table 82: Programs contributing WQ data for Water Temperature in Banana River Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	1990	2022	2742
Temperature	95	2006	2018	430
Temperature	103	2021	2021	65
Temperature	115	1995	1995	7
Temperature	118	2015	2020	7
Temperature	540	2016	2019	21
Temperature	3001	1991	2023	2537
Temperature	5002	1992	2023	13907

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 540 - Shellfish Harvest Area Classification Program
- 3001 - Lagoon Watch (Formerly Marine Discovery Center)
- 5002 - Florida STORET / WIN

Big Bend Seagrasses Aquatic Preserve

Programs contributing SAV Data:

Table 83: Programs contributing SAV data in Big Bend Seagrasses Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Modified Braun Blanquet Score	559	2012	2018	537
Modified Braun Blanquet Score	560	2000	2024	19753
Percent Cover	560	2022	2024	4271

SAV Program names:

559 - Northern Big Bend Seagrass Monitoring

560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring

560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring

Chlorophyll-a (corrected & uncorrected)

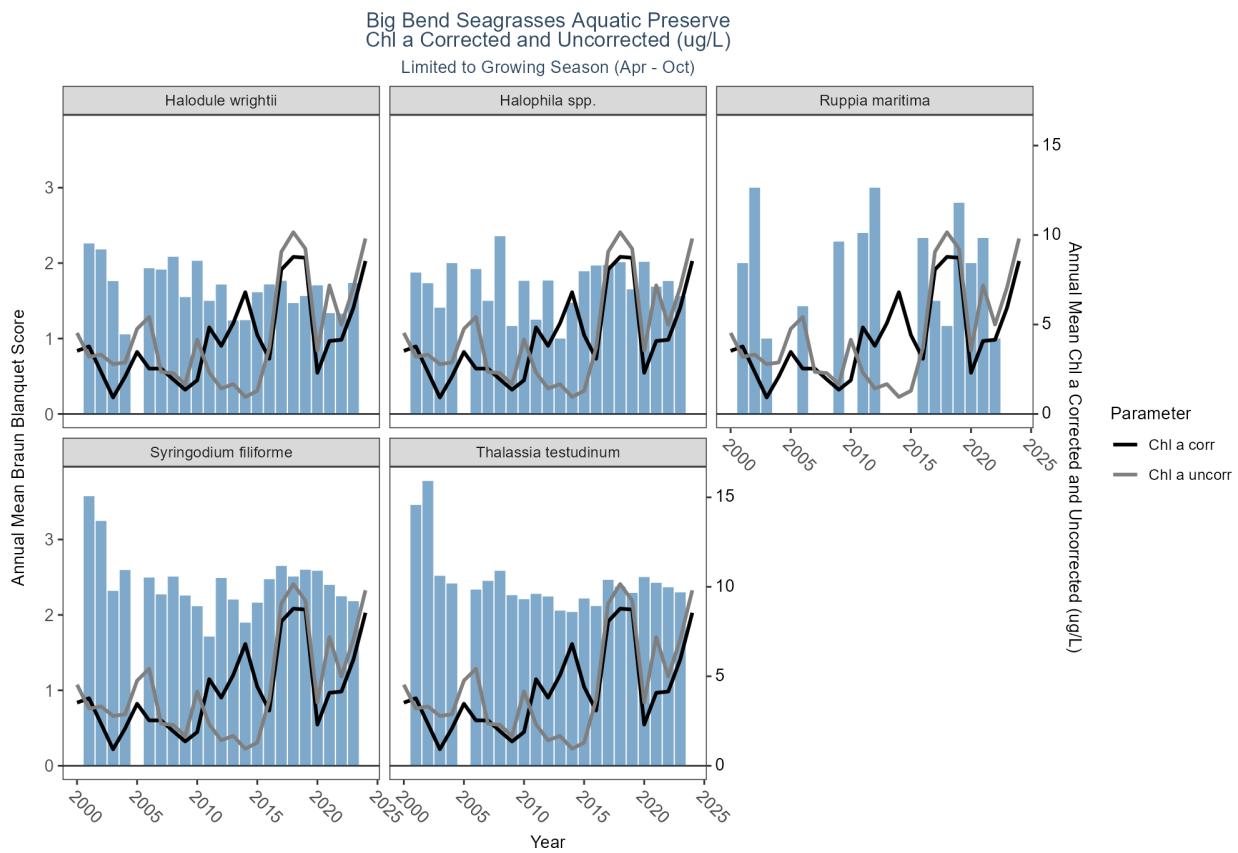


Table 84: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Big Bend Seagrasses Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2000	3.525	1.000	0.500	37.000	6.584
Chl a corr	2001	3.773	1.000	0.500	50.000	7.206
Chl a corr	2002	2.353	0.850	0.000	13.700	2.702
Chl a corr	2003	0.922	0.850	0.850	2.100	0.244
Chl a corr	2004	2.084	0.850	0.850	36.000	5.412
Chl a corr	2005	3.467	1.030	0.100	24.000	5.366
Chl a corr	2006	2.537	0.850	0.850	52.000	8.138
Chl a corr	2007	2.535	0.970	0.570	9.500	2.786
Chl a corr	2008	1.932	0.960	0.550	11.000	2.528
Chl a corr	2009	1.356	0.665	0.550	9.400	1.837
Chl a corr	2010	1.883	0.700	0.550	38.000	5.531
Chl a corr	2011	4.838	2.450	0.550	30.000	5.362
Chl a corr	2012	3.808	1.100	0.000	39.000	5.812
Chl a corr	2013	5.076	0.690	0.000	46.000	9.634
Chl a corr	2014	6.804	1.000	0.000	58.000	11.048
Chl a corr	2015	4.411	0.750	-1.000	49.000	8.038
Chl a corr	2016	3.086	0.780	0.000	22.000	4.543
Chl a corr	2017	8.067	4.700	0.550	61.000	10.682
Chl a corr	2018	8.780	4.900	0.550	49.000	10.282
Chl a corr	2019	8.730	5.900	0.620	39.000	8.830
Chl a corr	2020	2.300	1.000	0.000	21.000	3.616
Chl a corr	2021	4.078	1.000	0.000	37.000	6.122
Chl a corr	2022	4.146	1.211	0.092	63.000	6.989
Chl a corr	2023	5.942	3.200	0.820	34.000	6.957
Chl a corr	2024	8.550	7.200	1.200	32.000	7.932
Chl a uncorr	2000	4.530	2.000	0.000	37.572	8.098
Chl a uncorr	2001	3.195	2.000	0.000	21.000	4.294
Chl a uncorr	2002	3.316	2.000	0.000	19.938	3.845
Chl a uncorr	2003	2.783	1.000	0.000	29.600	5.797
Chl a uncorr	2004	2.878	1.070	0.000	34.200	4.402
Chl a uncorr	2005	4.758	1.000	0.000	68.600	9.547
Chl a uncorr	2006	5.421	1.000	0.000	57.700	9.255
Chl a uncorr	2007	2.351	1.000	0.000	33.400	4.591
Chl a uncorr	2008	2.283	1.200	0.000	14.900	2.971
Chl a uncorr	2009	1.664	0.960	0.000	15.200	2.627
Chl a uncorr	2010	4.154	1.700	0.000	62.720	8.242
Chl a uncorr	2011	2.314	1.400	0.100	32.000	4.045
Chl a uncorr	2012	1.423	0.950	0.000	13.000	2.167
Chl a uncorr	2013	1.670	0.725	0.000	13.000	2.887
Chl a uncorr	2014	0.949	0.655	0.000	4.100	0.923
Chl a uncorr	2015	1.294	0.665	0.000	16.000	2.499
Chl a uncorr	2016	3.700	1.200	0.000	26.000	5.310
Chl a uncorr	2017	9.061	4.300	0.000	69.000	12.269
Chl a uncorr	2018	10.156	5.091	0.000	57.000	12.494
Chl a uncorr	2019	9.231	4.200	0.000	67.000	11.551
Chl a uncorr	2020	3.537	1.200	0.000	29.000	5.565
Chl a uncorr	2021	7.188	3.050	-1.000	46.000	8.892
Chl a uncorr	2022	4.993	1.642	0.092	67.000	8.376
Chl a uncorr	2023	7.078	4.000	0.600	42.000	8.701

ParameterName	Year	mean	median	min	max	sd
Chl a uncorr	2024	9.806	8.150	1.100	37.000	9.226

Programs contributing WQ Data:

Table 85: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Big Bend Seagrasses Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	103	2021	2021	4
Chl a corr	477	2017	2023	111
Chl a corr	514	2013	2023	139
Chl a corr	540	2017	2022	75
Chl a corr	5002	1995	2024	2419
Chl a corr	5008	2023	2024	9
Chl a uncorr	60	2014	2015	9
Chl a uncorr	103	2000	2021	169
Chl a uncorr	115	2000	2004	7
Chl a uncorr	118	2010	2010	4
Chl a uncorr	477	2017	2023	126
Chl a uncorr	514	1993	2023	1271
Chl a uncorr	540	2017	2022	75
Chl a uncorr	5002	1990	2024	2080
Chl a uncorr	5008	2021	2024	10

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

477 - Suwannee River Water Management District Water Resource Monitoring Program

514 - Florida LAKEWATCH Program

540 - Shellfish Harvest Area Classification Program

5002 - Florida STORET / WIN

5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

Colored Dissolved Organic Matter

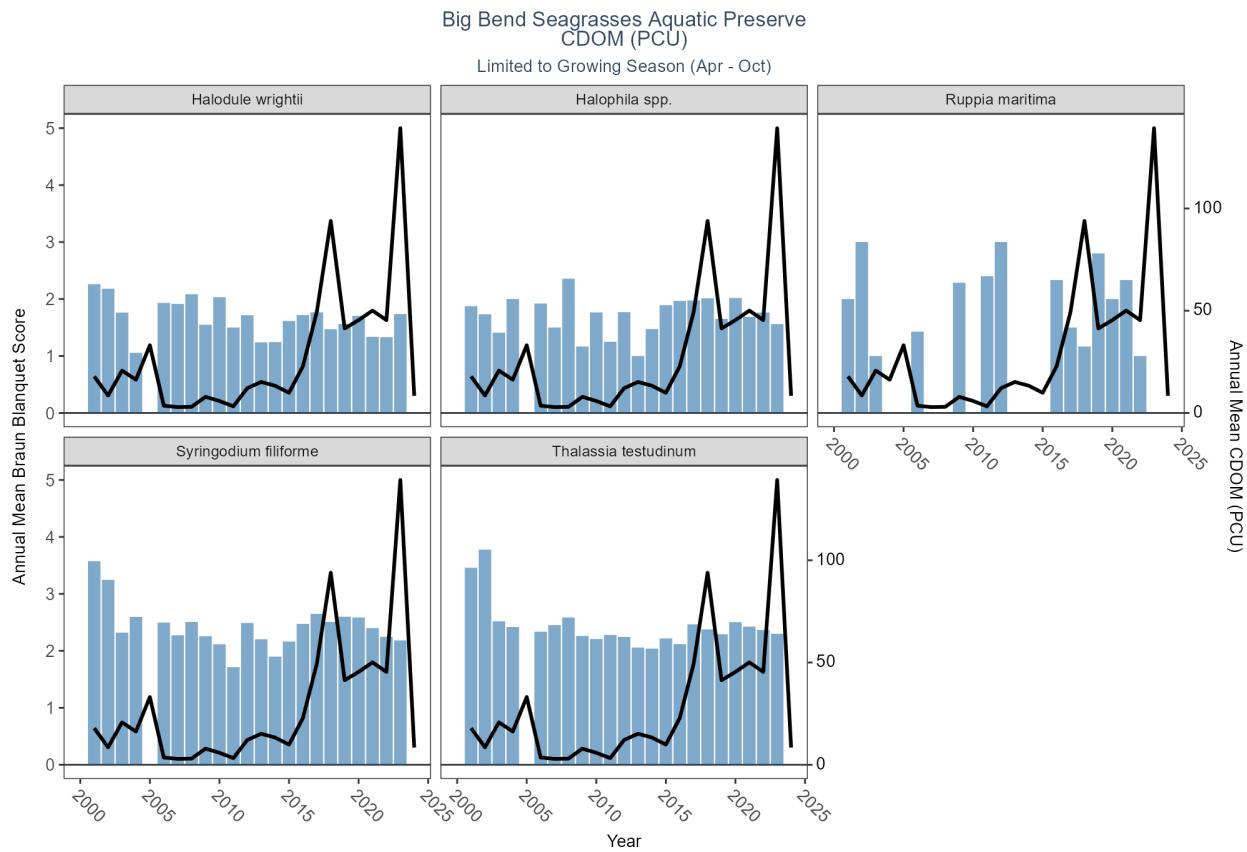


Table 86: WQ Summary for Colored Dissolved Organic Matter in Big Bend Seagrasses Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
CDOM	2001	17.892	6.000	0.000	76.000	18.967
CDOM	2002	8.545	7.000	2.000	25.000	6.500
CDOM	2003	20.727	9.500	2.000	63.000	21.166
CDOM	2004	16.267	9.000	2.000	36.000	13.588
CDOM	2005	33.125	19.000	3.000	119.000	36.053
CDOM	2006	3.545	3.000	1.000	6.000	1.654
CDOM	2007	2.875	3.000	0.000	6.000	1.314
CDOM	2008	3.000	3.000	1.000	5.000	1.225
CDOM	2009	7.889	5.000	3.000	17.000	5.732
CDOM	2010	5.857	5.000	1.000	17.000	3.765
CDOM	2011	3.237	3.000	0.000	11.000	1.895
CDOM	2012	12.125	6.500	1.000	45.000	12.707
CDOM	2013	15.158	7.500	2.000	50.000	14.853
CDOM	2014	13.314	7.000	2.000	50.000	13.496
CDOM	2015	9.867	8.000	5.000	21.000	4.779
CDOM	2016	22.857	8.000	6.000	100.000	25.881
CDOM	2017	49.475	11.000	1.000	413.341	97.942
CDOM	2018	93.916	32.000	2.000	580.000	141.695
CDOM	2019	41.337	10.000	2.000	372.928	76.603

ParameterName	Year	mean	median	min	max	sd
CDOM	2020	45.401	23.250	2.000	750.000	80.324
CDOM	2021	50.075	23.000	0.005	710.000	95.639
CDOM	2022	45.410	18.827	1.084	680.000	87.550
CDOM	2023	139.287	22.680	2.000	1000.000	209.291
CDOM	2024	8.389	7.819	7.342	10.576	1.477

Programs contributing WQ Data:

Table 87: Programs contributing WQ data for Colored Dissolved Organic Matter in Big Bend Seagrasses Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
CDOM	103	2021	2021	11
CDOM	477	2017	2023	166
CDOM	514	2001	2023	568
CDOM	540	2017	2019	59
CDOM	5002	2014	2023	797
CDOM	5008	2021	2024	23

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

477 - Suwannee River Water Management District Water Resource Monitoring Program

514 - Florida LAKEWATCH Program

540 - Shellfish Harvest Area Classification Program

5002 - Florida STORET / WIN

5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Dissolved Oxygen

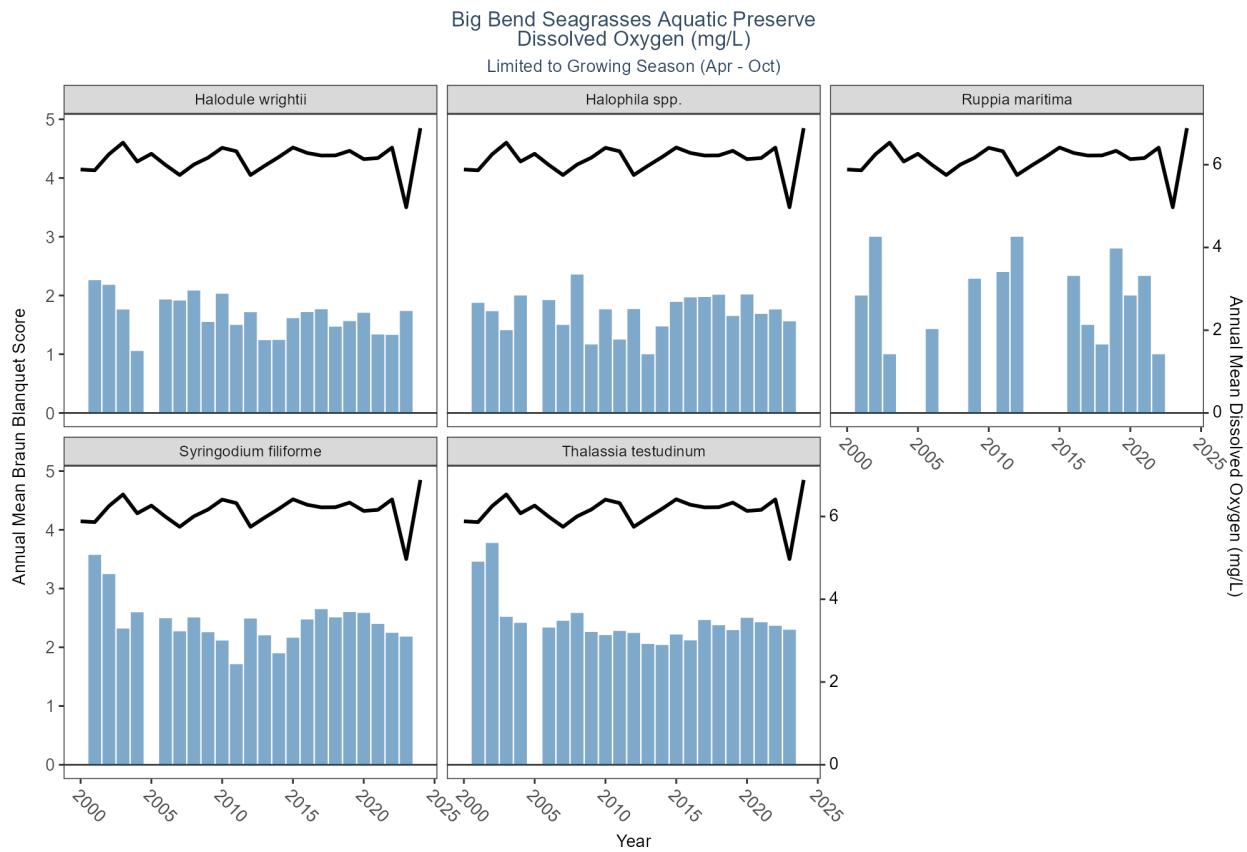


Table 88: WQ Summary for Dissolved Oxygen in Big Bend Seagrasses Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2000	5.884	5.80	0.80	12.00	1.342
Dissolved Oxygen	2001	5.864	5.90	0.40	13.10	1.288
Dissolved Oxygen	2002	6.252	6.20	0.73	14.90	1.512
Dissolved Oxygen	2003	6.533	6.40	0.90	18.60	1.664
Dissolved Oxygen	2004	6.077	6.10	0.58	14.30	1.775
Dissolved Oxygen	2005	6.263	6.20	0.96	14.10	1.499
Dissolved Oxygen	2006	5.994	5.80	0.75	14.50	1.522
Dissolved Oxygen	2007	5.751	5.60	0.69	13.65	1.338
Dissolved Oxygen	2008	6.004	6.00	0.61	14.70	1.503
Dissolved Oxygen	2009	6.168	6.10	0.72	14.40	1.304
Dissolved Oxygen	2010	6.408	6.40	0.50	13.80	1.464
Dissolved Oxygen	2011	6.324	6.30	0.95	14.50	1.725
Dissolved Oxygen	2012	5.751	5.80	0.33	13.20	1.366
Dissolved Oxygen	2013	5.974	5.90	0.80	11.40	1.373
Dissolved Oxygen	2014	6.185	6.20	0.29	13.80	1.305
Dissolved Oxygen	2015	6.415	6.50	0.95	13.40	1.389
Dissolved Oxygen	2016	6.284	6.30	0.76	13.80	1.446
Dissolved Oxygen	2017	6.221	6.20	0.70	16.96	1.784
Dissolved Oxygen	2018	6.224	6.20	0.11	14.66	1.470

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2019	6.335	6.20	0.88	13.90	1.357
Dissolved Oxygen	2020	6.134	6.10	0.30	12.60	1.295
Dissolved Oxygen	2021	6.161	6.10	0.60	12.80	1.447
Dissolved Oxygen	2022	6.412	6.50	0.85	11.70	1.457
Dissolved Oxygen	2023	4.971	5.60	1.01	8.66	1.905
Dissolved Oxygen	2024	6.883	6.89	4.60	9.43	0.929

Programs contributing WQ Data:

Table 89: Programs contributing WQ data for Dissolved Oxygen in Big Bend Seagrasses Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	60	2014	2015	18
Dissolved Oxygen	69	1996	2022	36339
Dissolved Oxygen	95	1985	2018	781
Dissolved Oxygen	103	2004	2021	98
Dissolved Oxygen	115	1991	2004	43
Dissolved Oxygen	118	2015	2021	46
Dissolved Oxygen	477	2017	2023	166
Dissolved Oxygen	540	2017	2022	74
Dissolved Oxygen	560	2003	2024	2028
Dissolved Oxygen	5002	1989	2024	59884
Dissolved Oxygen	5008	2021	2024	23

WQ Program names:

- 60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey
- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 477 - Suwannee River Water Management District Water Resource Monitoring Program
- 540 - Shellfish Harvest Area Classification Program
- 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
- 5002 - Florida STORET / WIN
- 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Dissolved Oxygen Saturation

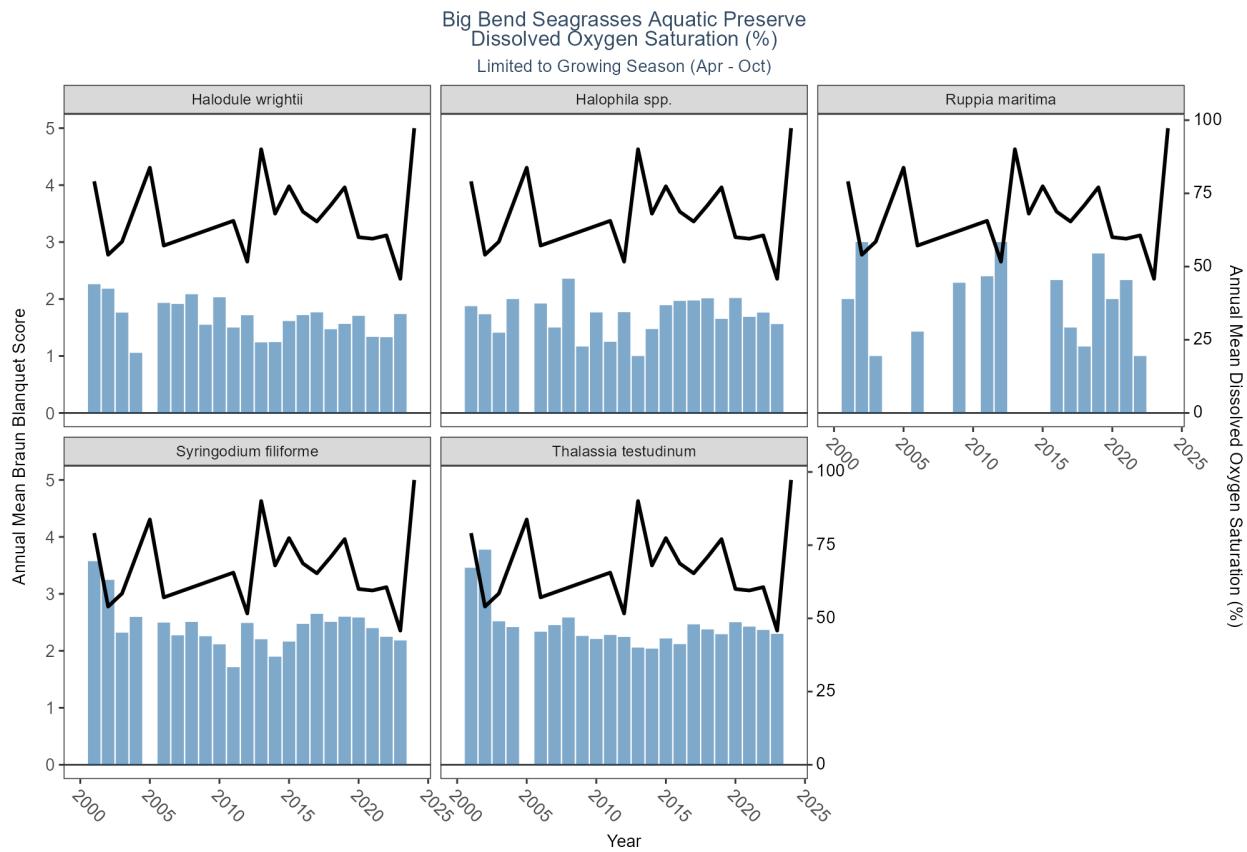


Table 90: WQ Summary for Dissolved Oxygen Saturation in Big Bend Seagrasses Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2001	79.117	87.35	5.000	129.300	37.251
Dissolved Oxygen Saturation	2002	54.033	52.30	47.200	62.600	7.845
Dissolved Oxygen Saturation	2003	58.500	58.00	49.000	71.000	7.191
Dissolved Oxygen Saturation	2005	83.766	81.50	21.900	173.200	23.174
Dissolved Oxygen Saturation	2006	57.167	58.50	50.000	63.000	5.565
Dissolved Oxygen Saturation	2011	65.620	65.80	23.500	116.900	20.671
Dissolved Oxygen Saturation	2012	51.667	33.00	22.500	99.600	31.327
Dissolved Oxygen Saturation	2013	90.069	90.10	70.607	100.100	10.212
Dissolved Oxygen Saturation	2014	68.063	68.65	3.400	119.000	26.643
Dissolved Oxygen Saturation	2015	77.419	75.60	43.500	101.285	16.387
Dissolved Oxygen Saturation	2016	68.750	67.50	43.900	122.000	15.886
Dissolved Oxygen Saturation	2017	65.384	64.00	12.200	123.000	29.631
Dissolved Oxygen Saturation	2018	70.974	69.60	1.400	138.000	26.418
Dissolved Oxygen Saturation	2019	77.061	74.20	10.200	111.800	22.835
Dissolved Oxygen Saturation	2020	60.024	63.10	8.100	103.100	19.208
Dissolved Oxygen Saturation	2021	59.519	62.10	6.600	107.800	27.313
Dissolved Oxygen Saturation	2022	60.654	63.70	9.700	119.100	23.764
Dissolved Oxygen Saturation	2023	45.809	42.10	11.300	112.800	23.831
Dissolved Oxygen Saturation	2024	97.275	97.70	90.300	103.400	5.410

Programs contributing WQ Data:

Table 91: Programs contributing WQ data for Dissolved Oxygen Saturation in Big Bend Seagrasses Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	60	2014	2015	9
Dissolved Oxygen Saturation	95	2018	2018	2
Dissolved Oxygen Saturation	477	2017	2023	166
Dissolved Oxygen Saturation	5002	2001	2023	781
Dissolved Oxygen Saturation	5008	2021	2024	23

WQ Program names:

60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey

95 - Harmful Algal Bloom Marine Observation Network

477 - Suwannee River Water Management District Water Resource Monitoring Program

5002 - Florida STORET / WIN

5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

pH

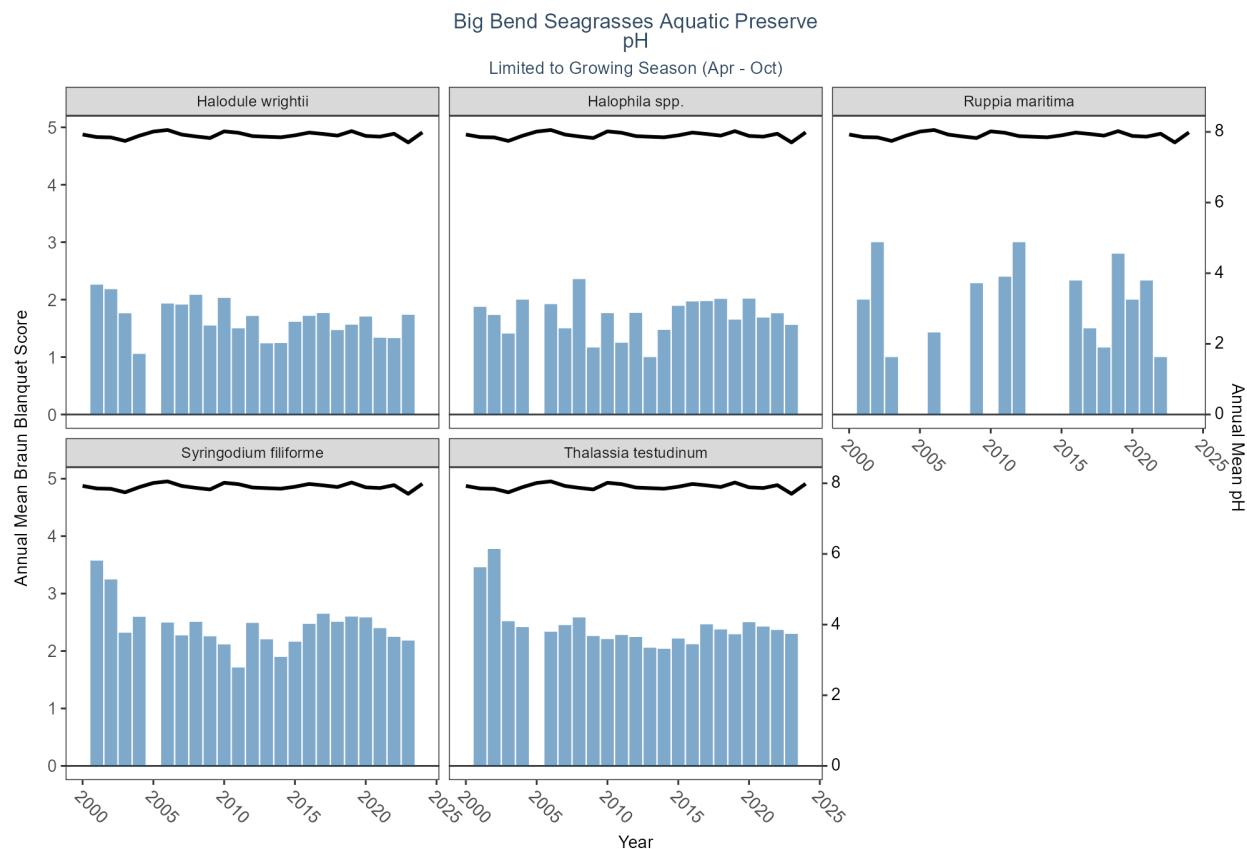


Table 92: WQ Summary for pH in Big Bend Seagrasses Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	2000	7.926	7.90	5.98	8.90	0.296
pH	2001	7.854	7.90	5.57	8.90	0.341
pH	2002	7.844	7.90	5.75	8.70	0.272
pH	2003	7.744	7.80	5.00	8.90	0.337
pH	2004	7.891	7.93	5.07	9.20	0.478
pH	2005	8.010	8.00	3.20	9.00	0.498
pH	2006	8.054	8.00	5.70	9.60	0.453
pH	2007	7.925	7.90	5.30	8.70	0.264
pH	2008	7.871	7.90	2.92	8.90	0.338
pH	2009	7.827	7.90	5.10	8.70	0.359
pH	2010	8.015	8.00	5.60	8.90	0.275
pH	2011	7.976	8.00	3.20	8.90	0.377
pH	2012	7.881	7.90	4.66	8.70	0.358
pH	2013	7.863	7.90	3.99	8.90	0.316
pH	2014	7.848	7.90	5.28	9.60	0.343
pH	2015	7.903	7.90	5.50	9.40	0.305
pH	2016	7.981	8.00	5.50	8.80	0.275
pH	2017	7.941	8.00	4.90	9.00	0.297
pH	2018	7.895	8.00	4.06	8.93	0.328
pH	2019	8.022	8.06	6.76	8.90	0.291
pH	2020	7.886	7.94	4.44	8.50	0.332
pH	2021	7.866	7.90	5.27	9.50	0.392
pH	2022	7.948	8.00	4.18	8.70	0.349
pH	2023	7.703	7.92	5.39	8.46	0.537
pH	2024	7.987	8.08	7.09	8.73	0.286

Programs contributing WQ Data:

Table 93: Programs contributing WQ data for pH in Big Bend Seagrasses Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	1996	2022	36305
pH	95	1964	2018	550
pH	103	2004	2021	94
pH	115	1991	2004	43
pH	118	2015	2021	31
pH	477	2017	2023	166
pH	540	2018	2022	32
pH	560	2008	2024	1773
pH	5002	1989	2024	32997
pH	5008	2021	2024	23

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program

- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
 477 - Suwannee River Water Management District Water Resource Monitoring Program
 540 - Shellfish Harvest Area Classification Program
 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
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 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Salinity

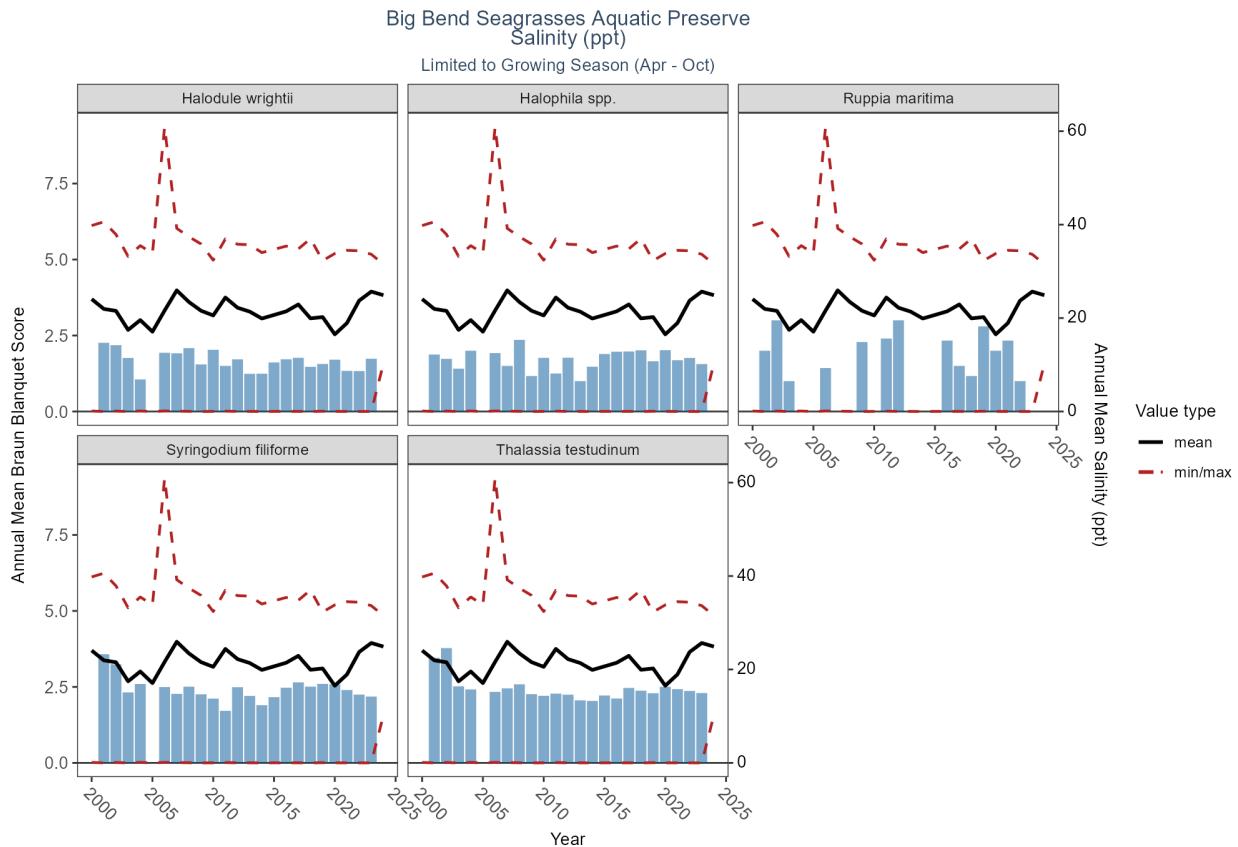


Table 94: WQ Summary for Salinity in Big Bend Seagrasses Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	2000	24.067	25.600	0.10	39.800	7.630
Salinity	2001	21.956	24.100	0.00	40.600	9.172
Salinity	2002	21.540	21.300	0.08	37.900	9.219
Salinity	2003	17.466	19.500	0.00	33.200	8.748
Salinity	2004	19.566	21.700	0.10	35.500	9.335
Salinity	2005	17.082	18.900	0.00	33.860	9.438
Salinity	2006	21.609	24.100	0.10	60.900	8.467
Salinity	2007	25.931	28.600	0.08	39.200	8.547
Salinity	2008	23.441	26.100	0.03	37.410	9.158
Salinity	2009	21.566	24.700	0.00	35.850	9.814
Salinity	2010	20.564	22.400	0.02	32.400	7.978
Salinity	2011	24.398	26.400	0.07	36.940	8.160

ParameterName	Year	mean	median	min	max	sd
Salinity	2012	22.214	24.200	0.02	35.800	8.806
Salinity	2013	21.381	23.300	0.02	35.700	8.511
Salinity	2014	19.905	22.200	0.00	34.016	8.618
Salinity	2015	20.663	22.400	0.02	34.700	8.455
Salinity	2016	21.434	23.200	0.02	35.400	8.173
Salinity	2017	22.916	25.000	0.02	34.800	8.358
Salinity	2018	19.934	23.500	0.00	37.000	9.977
Salinity	2019	20.211	24.600	0.05	32.300	10.264
Salinity	2020	16.514	21.830	0.02	33.810	11.558
Salinity	2021	18.935	22.105	0.01	34.500	10.323
Salinity	2022	23.729	27.150	0.01	34.400	9.327
Salinity	2023	25.666	28.780	0.00	33.650	9.171
Salinity	2024	24.897	27.020	10.26	31.530	5.112

Programs contributing WQ Data:

Table 95: Programs contributing WQ data for Salinity in Big Bend Seagrasses Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	60	2014	2015	18
Salinity	69	1996	2022	36448
Salinity	95	1964	2018	861
Salinity	103	2004	2004	4
Salinity	115	1991	2004	43
Salinity	118	2015	2021	51
Salinity	477	2017	2023	137
Salinity	540	2017	2022	74
Salinity	560	2003	2024	2059
Salinity	5002	1990	2024	61272
Salinity	5008	2021	2024	25

WQ Program names:

- 60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey
- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 477 - Suwannee River Water Management District Water Resource Monitoring Program
- 540 - Shellfish Harvest Area Classification Program
- 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
- 5002 - Florida STORET / WIN
- 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Secchi Depth

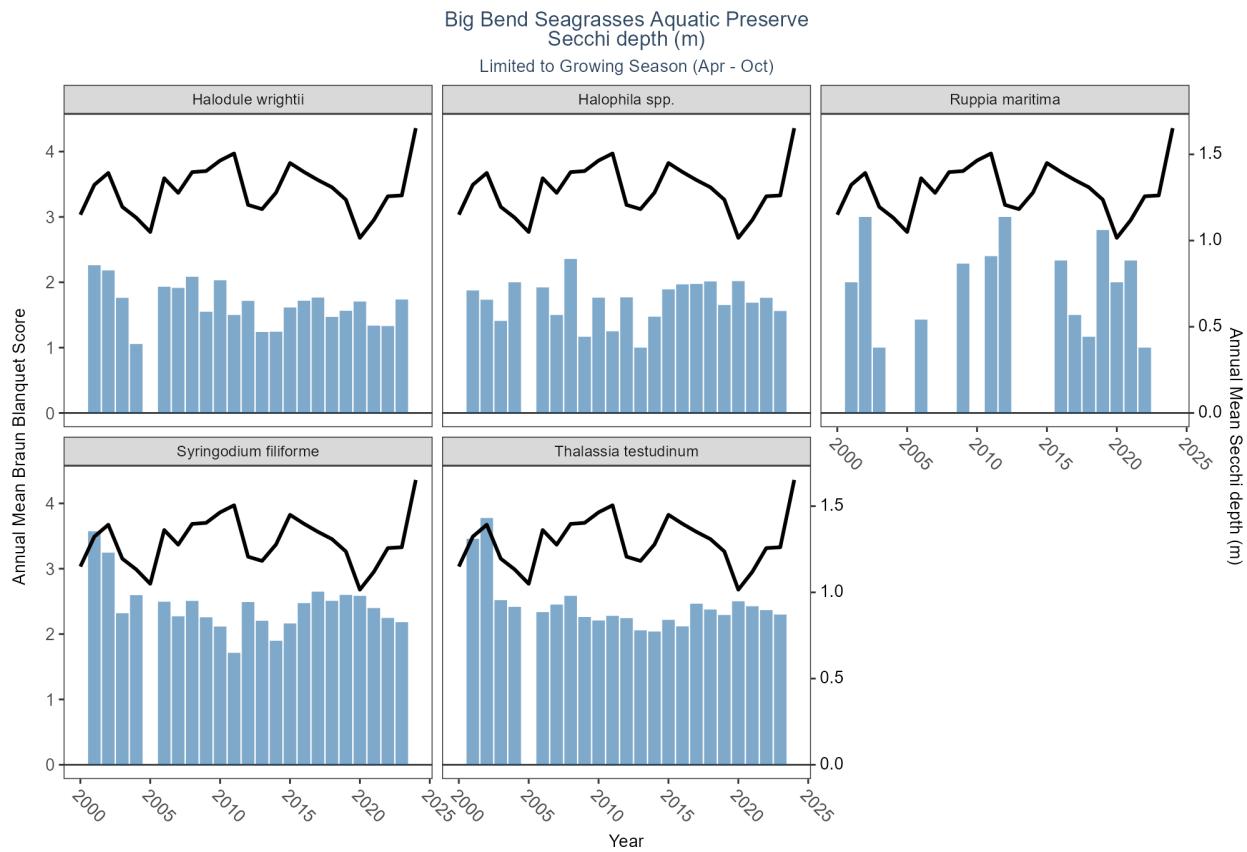


Table 96: WQ Summary for Secchi Depth in Big Bend Seagrasses Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2000	1.150	0.80	0.20	9.754	1.245
Secchi depth	2001	1.323	0.80	0.10	12.800	1.412
Secchi depth	2002	1.392	1.00	0.10	21.340	1.283
Secchi depth	2003	1.196	0.80	0.10	13.300	1.359
Secchi depth	2004	1.133	0.80	0.09	13.000	1.146
Secchi depth	2005	1.050	0.70	0.20	13.200	1.093
Secchi depth	2006	1.362	0.90	0.20	12.500	1.256
Secchi depth	2007	1.277	0.80	0.10	12.400	1.339
Secchi depth	2008	1.397	1.20	0.10	14.700	1.100
Secchi depth	2009	1.403	1.00	0.20	13.100	1.172
Secchi depth	2010	1.464	1.10	0.10	12.100	1.140
Secchi depth	2011	1.505	1.20	0.10	13.100	1.116
Secchi depth	2012	1.207	0.90	0.10	9.297	1.002
Secchi depth	2013	1.183	0.90	0.20	9.297	0.900
Secchi depth	2014	1.278	1.00	0.10	11.800	0.960
Secchi depth	2015	1.450	1.00	0.10	9.540	1.155
Secchi depth	2016	1.398	1.20	0.10	9.388	1.059
Secchi depth	2017	1.351	1.00	0.10	9.388	1.116
Secchi depth	2018	1.309	0.90	0.10	9.297	1.163

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2019	1.237	0.80	0.10	9.449	1.132
Secchi depth	2020	1.016	0.70	0.20	9.449	0.952
Secchi depth	2021	1.119	0.90	0.10	9.236	0.905
Secchi depth	2022	1.257	1.00	0.10	9.388	0.975
Secchi depth	2023	1.262	1.21	0.20	2.800	0.544
Secchi depth	2024	1.652	1.63	0.50	2.940	0.446

Programs contributing WQ Data:

Table 97: Programs contributing WQ data for Secchi Depth in Big Bend Seagrasses Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	60	2014	2014	2
Secchi depth	69	1996	2022	36408
Secchi depth	103	2021	2021	27
Secchi depth	115	1991	2004	21
Secchi depth	118	2015	2021	8
Secchi depth	477	2017	2023	164
Secchi depth	514	1993	2023	1266
Secchi depth	560	2023	2024	250
Secchi depth	5002	1992	2023	1659
Secchi depth	5008	2021	2024	18

WQ Program names:

- 60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey
- 69 - Fisheries-Independent Monitoring (FIM) Program
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 477 - Suwannee River Water Management District Water Resource Monitoring Program
- 514 - Florida LAKEWATCH Program
- 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
- 5002 - Florida STORET / WIN
- 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Total Nitrogen & Total Phosphorus

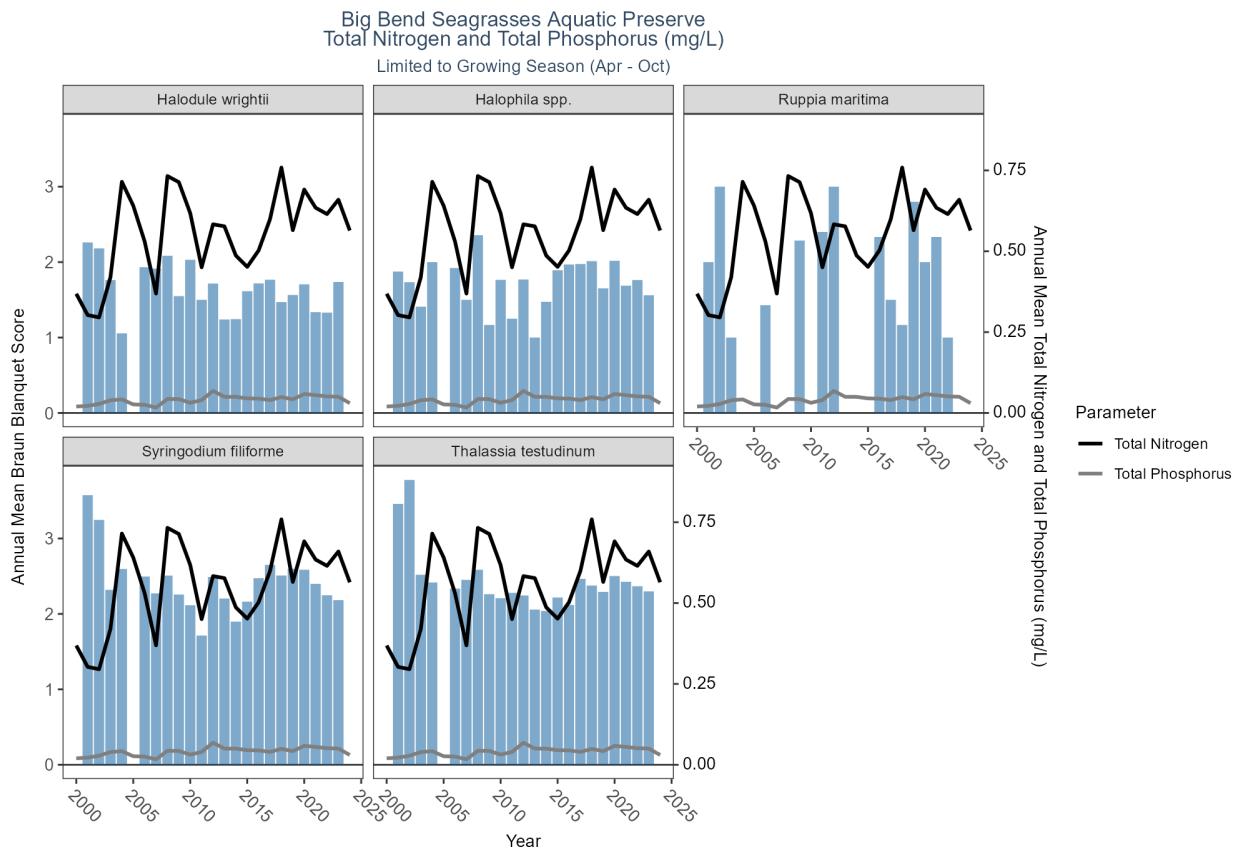


Table 98: WQ Summary for Total Nitrogen & Total Phosphorus in Big Bend Seagrasses Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2000	0.369	0.308	0.000	1.750	0.377
Total Nitrogen	2001	0.303	0.249	0.000	2.072	0.367
Total Nitrogen	2002	0.296	0.150	0.000	1.814	0.375
Total Nitrogen	2003	0.420	0.305	0.000	2.070	0.455
Total Nitrogen	2004	0.715	0.630	0.000	2.160	0.586
Total Nitrogen	2005	0.641	0.610	0.000	2.342	0.540
Total Nitrogen	2006	0.530	0.400	0.000	2.501	0.525
Total Nitrogen	2007	0.369	0.261	0.000	2.040	0.446
Total Nitrogen	2008	0.733	0.647	0.000	3.120	0.631
Total Nitrogen	2009	0.714	0.640	0.000	2.130	0.531
Total Nitrogen	2010	0.618	0.580	0.000	2.040	0.496
Total Nitrogen	2011	0.450	0.435	0.000	2.950	0.354
Total Nitrogen	2012	0.583	0.520	0.000	2.225	0.488
Total Nitrogen	2013	0.577	0.535	0.000	1.930	0.455
Total Nitrogen	2014	0.487	0.480	0.000	1.750	0.338
Total Nitrogen	2015	0.452	0.455	0.000	1.450	0.331
Total Nitrogen	2016	0.503	0.510	0.000	1.610	0.331
Total Nitrogen	2017	0.599	0.574	0.000	3.410	0.499
Total Nitrogen	2018	0.759	0.768	0.000	2.300	0.509

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2019	0.565	0.524	0.000	1.970	0.409
Total Nitrogen	2020	0.691	0.630	0.270	2.280	0.343
Total Nitrogen	2021	0.635	0.527	0.130	1.890	0.306
Total Nitrogen	2022	0.615	0.522	0.193	1.550	0.252
Total Nitrogen	2023	0.659	0.524	0.180	1.740	0.359
Total Nitrogen	2024	0.564	0.547	0.320	0.912	0.198
Total Phosphorus	2000	0.020	0.000	0.000	0.160	0.031
Total Phosphorus	2001	0.022	0.000	0.000	0.160	0.036
Total Phosphorus	2002	0.028	0.000	0.000	0.190	0.046
Total Phosphorus	2003	0.039	0.000	0.000	1.100	0.106
Total Phosphorus	2004	0.042	0.032	0.000	0.340	0.054
Total Phosphorus	2005	0.026	0.019	0.000	0.130	0.032
Total Phosphorus	2006	0.025	0.000	0.000	0.120	0.032
Total Phosphorus	2007	0.017	0.000	0.000	0.098	0.023
Total Phosphorus	2008	0.043	0.036	0.000	0.240	0.046
Total Phosphorus	2009	0.043	0.041	0.000	0.150	0.037
Total Phosphorus	2010	0.031	0.012	0.000	0.190	0.040
Total Phosphorus	2011	0.040	0.035	0.000	0.150	0.033
Total Phosphorus	2012	0.068	0.041	0.000	0.520	0.102
Total Phosphorus	2013	0.050	0.045	0.000	0.190	0.043
Total Phosphorus	2014	0.050	0.042	0.000	0.210	0.042
Total Phosphorus	2015	0.045	0.038	0.000	0.197	0.041
Total Phosphorus	2016	0.044	0.039	0.000	0.140	0.032
Total Phosphorus	2017	0.040	0.034	0.000	0.270	0.036
Total Phosphorus	2018	0.049	0.042	0.000	0.200	0.042
Total Phosphorus	2019	0.042	0.039	0.000	0.147	0.033
Total Phosphorus	2020	0.059	0.054	0.014	0.140	0.029
Total Phosphorus	2021	0.055	0.045	0.008	0.180	0.036
Total Phosphorus	2022	0.051	0.044	0.010	0.221	0.033
Total Phosphorus	2023	0.050	0.040	0.005	0.175	0.036
Total Phosphorus	2024	0.030	0.022	0.010	0.092	0.024

Programs contributing WQ Data:

Table 99: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Big Bend Seagrasses Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	103	2000	2006	47
Total Nitrogen	115	2000	2004	5
Total Nitrogen	118	2010	2010	4
Total Nitrogen	477	2017	2017	3
Total Nitrogen	514	1993	2023	1344
Total Nitrogen	540	2017	2022	79
Total Nitrogen	5002	1990	2024	3320
Total Nitrogen	5008	2021	2024	10
Total Phosphorus	103	2000	2021	110
Total Phosphorus	115	2000	2004	5
Total Phosphorus	118	2010	2010	2
Total Phosphorus	477	2017	2023	167
Total Phosphorus	514	1993	2023	1319

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Phosphorus	540	2017	2022	77
Total Phosphorus	5002	1992	2024	2118
Total Phosphorus	5008	2021	2024	10

WQ Program names:

- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 477 - Suwannee River Water Management District Water Resource Monitoring Program
- 514 - Florida LAKEWATCH Program
- 540 - Shellfish Harvest Area Classification Program
- 5002 - Florida STORET / WIN
- 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Total Suspended Solids

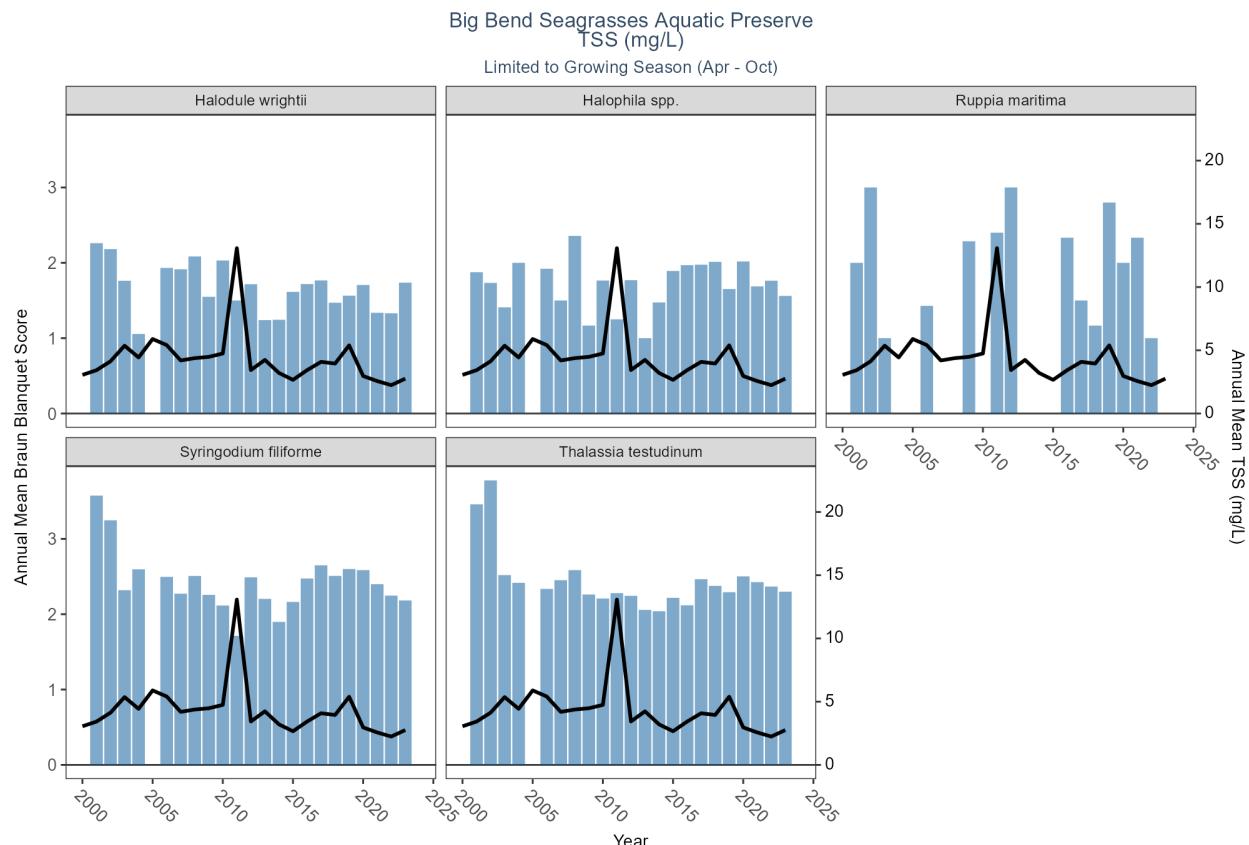


Table 100: WQ Summary for Total Suspended Solids in Big Bend Seagrasses Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	2000	3.053	4.0	1.000	9	1.600
TSS	2001	3.424	4.0	1.000	14	2.036

ParameterName	Year	mean	median	min	max	sd
TSS	2002	4.130	4.0	4.000	8	0.616
TSS	2003	5.362	4.0	2.000	59	8.042
TSS	2004	4.432	4.0	4.000	12	1.573
TSS	2005	5.891	4.0	4.000	38	5.884
TSS	2006	5.411	4.0	0.000	27	4.089
TSS	2007	4.194	4.0	4.000	9	0.889
TSS	2008	4.378	4.0	4.000	8	1.010
TSS	2009	4.478	4.0	4.000	11	1.426
TSS	2010	4.744	4.0	4.000	7	1.117
TSS	2011	13.076	6.0	2.000	69	13.989
TSS	2012	3.435	2.5	2.000	12	2.146
TSS	2013	4.236	3.0	2.000	13	2.893
TSS	2014	3.206	2.0	2.000	16	2.363
TSS	2015	2.661	2.0	2.000	6	0.940
TSS	2016	3.424	3.0	2.000	13	1.938
TSS	2017	4.085	3.0	2.000	19	3.616
TSS	2018	3.949	3.0	2.000	9	1.946
TSS	2019	5.389	3.0	2.000	30	6.608
TSS	2020	2.962	3.0	0.100	10	2.061
TSS	2021	2.565	2.0	0.638	10	1.824
TSS	2022	2.242	2.0	0.638	22	2.590
TSS	2023	2.756	2.0	2.000	9	1.407

Programs contributing WQ Data:

Table 101: Programs contributing WQ data for Total Susepended Solids in Big Bend Seagrasses Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	103	2021	2021	6
TSS	477	2021	2023	18
TSS	5002	1990	2023	1757

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

477 - Suwannee River Water Management District Water Resource Monitoring Program

5002 - Florida STORET / WIN

Turbidity

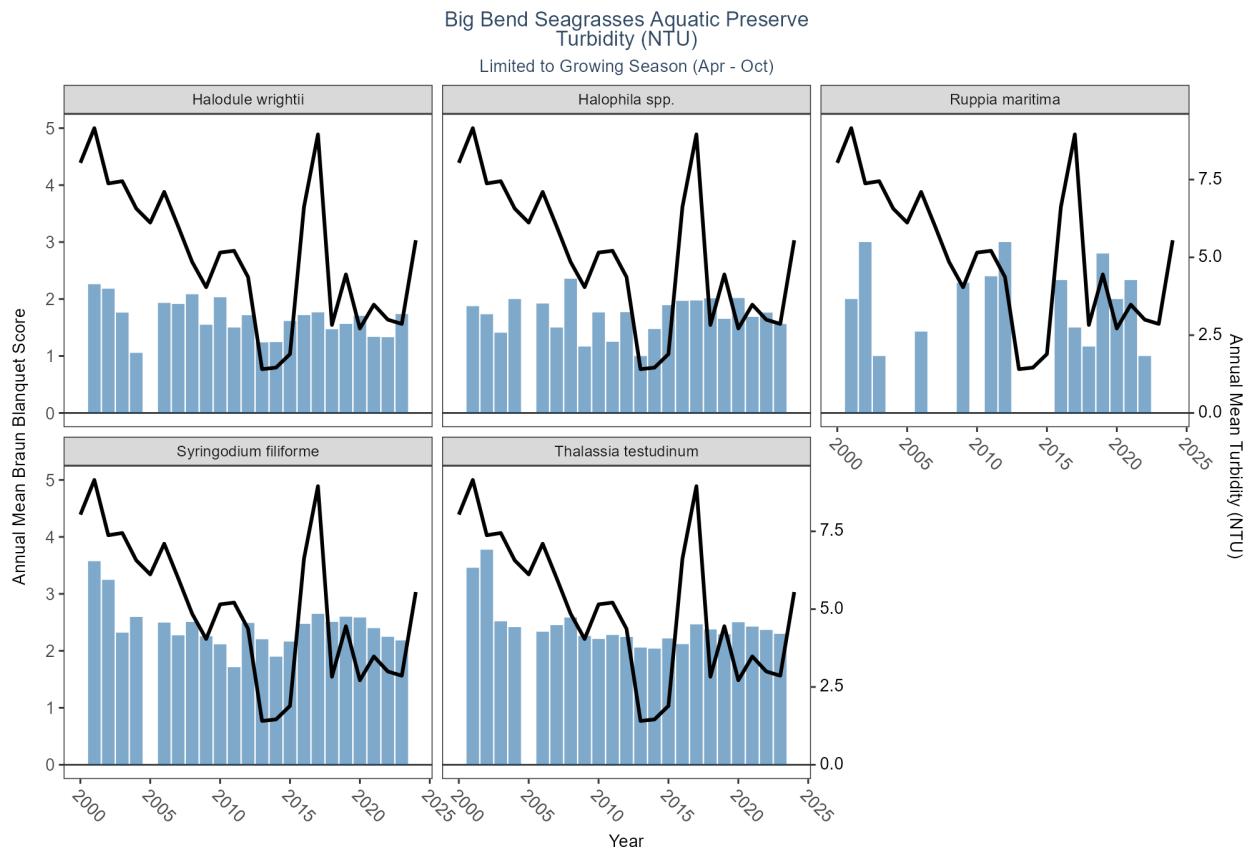


Table 102: WQ Summary for Turbidity in Big Bend Seagrasses Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	2000	8.037	5.8	0.00	39.000	7.426
Turbidity	2001	9.152	6.2	0.05	42.000	8.411
Turbidity	2002	7.375	5.3	0.05	40.000	6.586
Turbidity	2003	7.448	5.3	0.20	40.000	6.285
Turbidity	2004	6.568	3.9	0.10	43.000	6.535
Turbidity	2005	6.117	4.4	0.12	42.500	4.983
Turbidity	2006	7.103	5.3	0.15	33.000	5.664
Turbidity	2007	5.994	4.8	0.05	33.000	4.606
Turbidity	2008	4.852	3.6	0.10	28.000	4.025
Turbidity	2009	4.041	2.9	0.10	31.000	3.542
Turbidity	2010	5.154	3.7	0.10	44.000	4.782
Turbidity	2011	5.211	3.6	0.15	90.000	5.322
Turbidity	2012	4.367	3.0	0.15	27.000	4.597
Turbidity	2013	1.408	1.5	0.10	3.100	0.788
Turbidity	2014	1.457	1.3	0.02	5.300	1.153
Turbidity	2015	1.892	1.2	0.10	13.859	2.259
Turbidity	2016	6.620	4.5	0.01	100.000	6.953
Turbidity	2017	8.952	5.5	0.10	131.400	12.061
Turbidity	2018	2.828	2.0	0.30	28.471	3.966

ParameterName	Year	mean	median	min	max	sd
Turbidity	2019	4.452	2.9	0.35	27.000	4.754
Turbidity	2020	2.715	1.9	0.15	18.000	3.046
Turbidity	2021	3.480	2.2	0.10	25.000	3.923
Turbidity	2022	2.998	1.6	0.10	30.000	4.684
Turbidity	2023	2.861	1.6	0.10	18.000	3.288
Turbidity	2024	5.550	5.3	0.60	14.000	4.059

Programs contributing WQ Data:

Table 103: Programs contributing WQ data for Turbidity in Big Bend Seagrasses Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	103	2005	2021	71
Turbidity	477	2017	2023	282
Turbidity	540	2019	2022	20
Turbidity	5002	1990	2024	26054

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

477 - Suwannee River Water Management District Water Resource Monitoring Program

540 - Shellfish Harvest Area Classification Program

5002 - Florida STORET / WIN

Water Temperature



Table 104: WQ Summary for Water Temperature in Big Bend Seagrasses Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	2000	25.877	26.70	6.50	32.60	3.467
Temperature	2001	26.402	27.10	13.60	39.80	3.410
Temperature	2002	27.047	27.90	17.80	35.80	2.601
Temperature	2003	26.816	27.50	7.40	33.60	3.000
Temperature	2004	26.790	27.50	15.00	33.80	3.540
Temperature	2005	26.902	27.70	7.90	34.50	3.892
Temperature	2006	27.128	27.50	18.40	34.20	3.169
Temperature	2007	26.738	27.20	14.40	33.35	3.867
Temperature	2008	26.744	27.80	8.40	32.00	3.169
Temperature	2009	27.256	28.10	9.40	39.40	3.219
Temperature	2010	27.201	28.10	17.70	39.97	3.679
Temperature	2011	27.023	28.00	14.40	33.00	3.552
Temperature	2012	26.986	27.30	6.70	32.70	2.478
Temperature	2013	26.587	27.80	17.00	34.40	3.425
Temperature	2014	26.661	27.30	13.80	32.40	3.234
Temperature	2015	27.368	28.00	19.00	35.60	3.034
Temperature	2016	27.361	28.30	17.90	35.30	3.522
Temperature	2017	27.171	27.70	10.00	33.70	3.043
Temperature	2018	27.860	28.50	17.40	33.20	2.944

ParameterName	Year	mean	median	min	max	sd
Temperature	2019	28.078	28.50	17.30	35.80	2.810
Temperature	2020	28.063	28.40	20.95	33.60	2.795
Temperature	2021	27.440	27.90	17.70	33.00	2.786
Temperature	2022	26.910	27.90	15.90	32.90	3.670
Temperature	2023	25.331	25.60	18.60	32.70	3.981
Temperature	2024	27.191	27.27	21.60	31.20	1.539

Programs contributing WQ Data:

Table 105: Programs contributing WQ data for Water Temperature in Big Bend Seagrasses Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	60	2014	2015	17
Temperature	69	1996	2022	36451
Temperature	95	1964	2018	938
Temperature	103	2004	2021	98
Temperature	115	1991	2004	43
Temperature	118	2015	2021	39
Temperature	477	2017	2023	167
Temperature	540	2017	2022	74
Temperature	560	2003	2024	2059
Temperature	5002	1989	2024	63162
Temperature	5008	2021	2024	23

WQ Program names:

- 60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey
- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 477 - Suwannee River Water Management District Water Resource Monitoring Program
- 540 - Shellfish Harvest Area Classification Program
- 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
- 5002 - Florida STORET / WIN
- 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Biscayne Bay Aquatic Preserve

Programs contributing SAV Data:

Table 106: Programs contributing SAV data in Biscayne Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Braun Blanquet Score	965	2005	2011	71071
Braun Blanquet Score	4018	1999	2023	17330
Braun Blanquet Score	4049	2005	2008	18891
Braun Blanquet Score	5027	2018	2022	5414
Percent Cover	4018	1999	2007	966
Percent Cover	5027	2018	2022	5457

SAV Program names:

965 - South Florida Seagrass Fish and Invertebrate Assessment Network

4018 - Miami-Dade County DERM Benthic Habitat Monitoring Program

4018 - Miami-Dade County DERM Benthic Habitat Monitoring Program

4049 - The South Florida Fisheries Habitat Assessment Program (FHAP)

5027 - North Biscayne Bay Seagrass Loss Monitoring Program

5027 - North Biscayne Bay Seagrass Loss Monitoring Program

Chlorophyll-a (corrected & uncorrected)

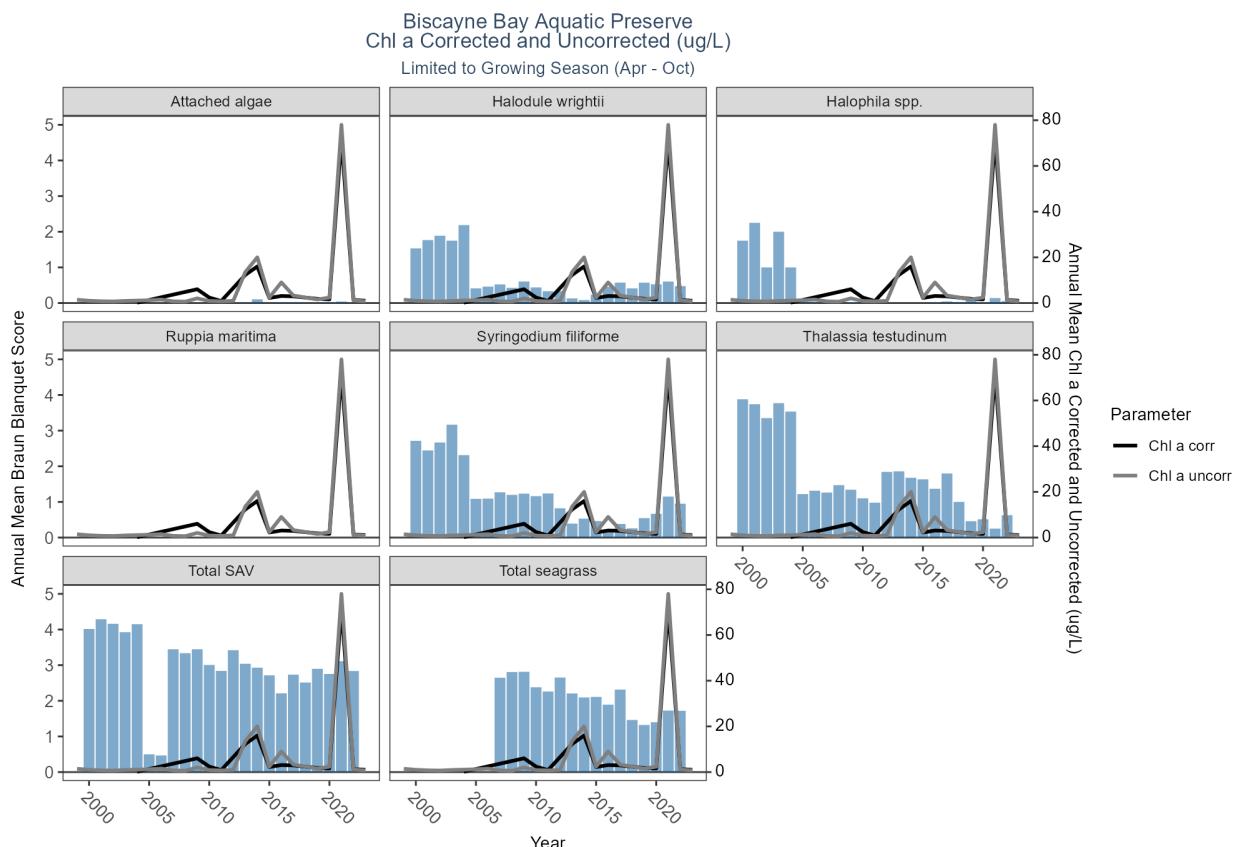


Table 107: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Biscayne Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2004	0.160	0.160	0.160	0.160	0.000
Chl a corr	2009	6.034	3.400	0.820	20.000	5.495
Chl a corr	2010	2.400	2.400	2.400	2.400	NA
Chl a corr	2011	0.868	0.710	0.270	2.730	0.474
Chl a corr	2013	12.300	12.300	4.600	20.000	10.889
Chl a corr	2014	16.000	16.000	16.000	16.000	NA
Chl a corr	2015	2.221	0.620	0.550	4.400	1.851
Chl a corr	2016	3.083	0.940	0.600	16.000	4.733
Chl a corr	2017	2.931	2.100	0.800	11.000	2.541
Chl a corr	2019	1.820	1.400	0.400	13.000	1.607
Chl a corr	2020	1.612	1.200	0.360	14.000	1.414
Chl a corr	2021	72.000	72.000	72.000	72.000	NA
Chl a corr	2022	1.314	0.960	0.820	16.000	2.482
Chl a corr	2023	1.019	0.960	0.820	2.100	0.287
Chl a uncorr	1999	1.451	0.579	0.093	9.178	2.394
Chl a uncorr	2000	1.007	0.602	0.000	9.000	0.994
Chl a uncorr	2001	0.778	0.656	0.000	12.000	1.060
Chl a uncorr	2002	0.687	0.517	0.000	15.000	1.199
Chl a uncorr	2003	0.931	0.767	0.135	5.924	1.054
Chl a uncorr	2004	1.082	1.000	0.000	5.003	0.601
Chl a uncorr	2005	1.224	1.104	0.000	5.817	0.855
Chl a uncorr	2006	1.522	1.038	0.160	10.565	1.529
Chl a uncorr	2007	0.746	0.499	0.012	5.554	0.762
Chl a uncorr	2008	0.604	0.584	0.092	4.067	0.299
Chl a uncorr	2009	2.036	1.095	0.230	23.000	3.805
Chl a uncorr	2010	0.890	0.629	0.383	3.789	0.732
Chl a uncorr	2011	0.728	0.592	0.264	3.039	0.558
Chl a uncorr	2012	0.961	0.733	0.596	3.295	0.458
Chl a uncorr	2013	13.550	13.550	5.100	22.000	11.950
Chl a uncorr	2014	20.000	20.000	20.000	20.000	NA
Chl a uncorr	2015	2.392	0.620	0.440	4.800	2.105
Chl a uncorr	2016	9.025	5.800	2.500	22.000	9.169
Chl a uncorr	2017	3.291	2.200	0.880	12.000	2.770
Chl a uncorr	2019	1.563	1.270	0.270	7.470	0.991
Chl a uncorr	2020	2.376	1.230	0.360	13.070	2.316
Chl a uncorr	2021	78.000	78.000	78.000	78.000	NA
Chl a uncorr	2022	1.157	0.700	0.600	19.000	3.015
Chl a uncorr	2023	0.747	0.700	0.600	1.700	0.244

Programs contributing WQ Data:

Table 108: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Biscayne Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	5002	2004	2023	457
Chl a corr	5026	2019	2020	1894
Chl a uncorr	3	2002	2012	1118

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a uncorr	103	2002	2006	28
Chl a uncorr	115	2004	2004	9
Chl a uncorr	118	2010	2010	5
Chl a uncorr	509	1993	2008	8475
Chl a uncorr	514	2000	2005	332
Chl a uncorr	5002	2001	2023	136
Chl a uncorr	5026	2019	2020	3275

WQ Program names:

5002 - Florida STORET / WIN

5026 - North Biscayne Bay Seagrass Loss Water Quality Program

3 - Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Synoptic Shipboard Surveys

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

509 - SERC Water Quality Monitoring Network

514 - Florida LAKEWATCH Program

Colored Dissolved Organic Matter

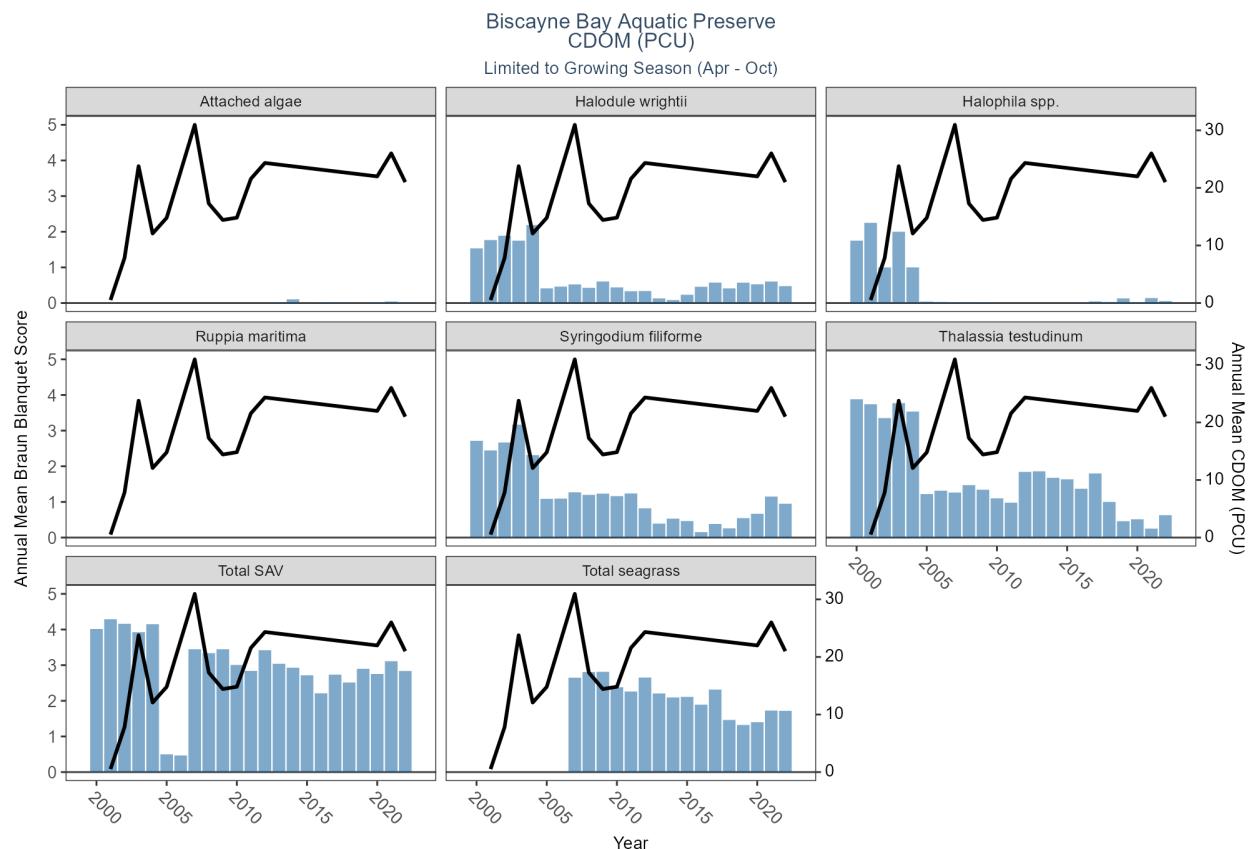


Table 109: WQ Summary for Colored Dissolved Organic Matter in Biscayne Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
CDOM	2001	0.519	0.000	0.000	7.000	1.868
CDOM	2002	7.833	8.000	5.000	12.000	1.871
CDOM	2003	23.774	19.414	14.797	45.950	7.957
CDOM	2004	12.075	9.257	6.000	36.248	6.869
CDOM	2005	14.803	13.308	4.412	63.834	10.566
CDOM	2007	30.958	31.382	4.344	86.278	20.918
CDOM	2008	17.287	19.382	5.218	29.902	9.143
CDOM	2009	14.426	16.323	7.164	24.228	6.264
CDOM	2010	14.825	14.383	0.201	63.205	13.400
CDOM	2011	21.576	20.941	3.963	126.281	19.883
CDOM	2012	24.333	19.857	10.687	104.580	14.752
CDOM	2020	22.000	22.000	22.000	22.000	NA
CDOM	2021	26.000	26.000	26.000	26.000	NA
CDOM	2022	21.000	21.000	21.000	21.000	NA

Programs contributing WQ Data:

Table 110: Programs contributing WQ data for Colored Dissolved Organic Matter in Biscayne Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
CDOM	3	2003	2012	877
CDOM	514	2001	2004	131
CDOM	5002	2020	2022	3

WQ Program names:

3 - Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Synoptic Shipboard Surveys

514 - Florida LAKEWATCH Program

5002 - Florida STORET / WIN

Dissolved Oxygen

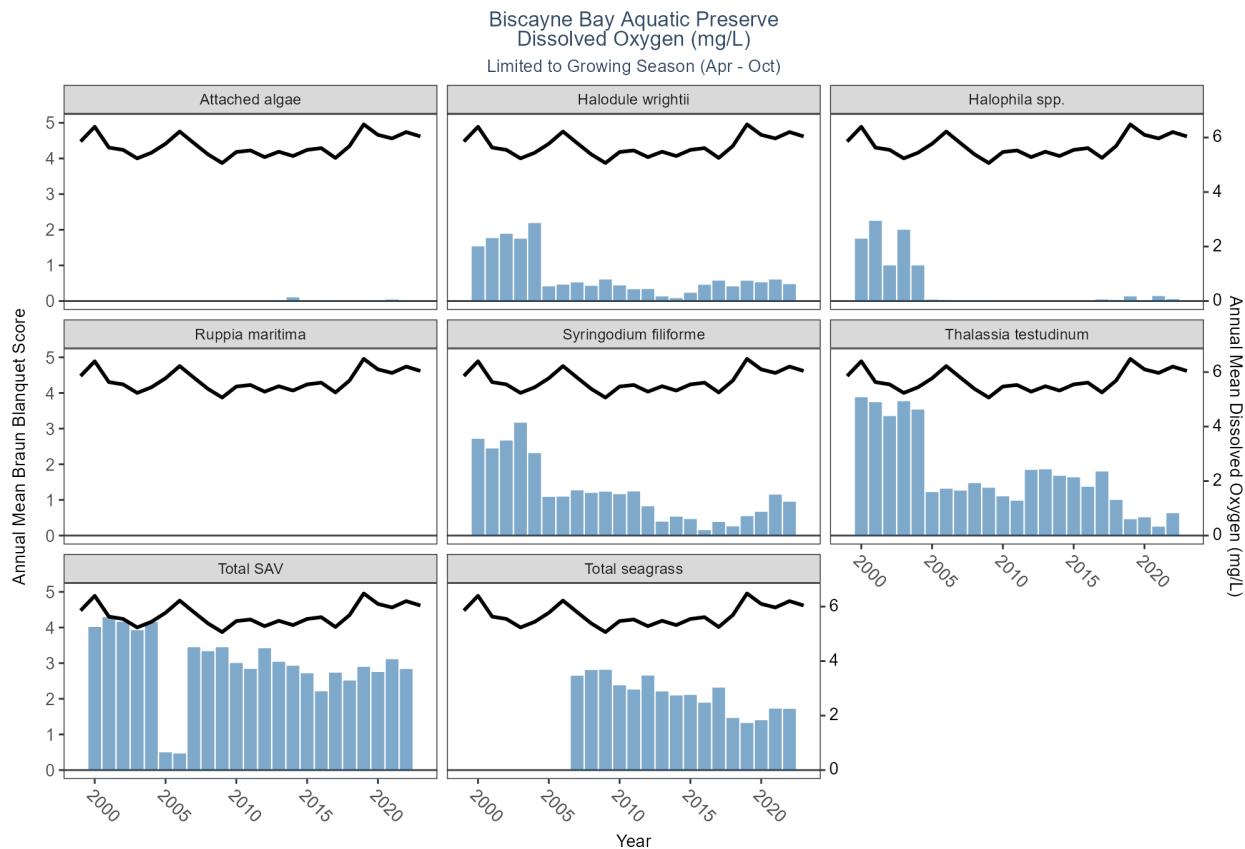


Table 111: WQ Summary for Dissolved Oxygen in Biscayne Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	1999	5.855	5.900	4.20	8.50	0.796
Dissolved Oxygen	2000	6.395	6.300	4.60	8.80	0.872
Dissolved Oxygen	2001	5.631	5.690	1.45	8.30	1.035
Dissolved Oxygen	2002	5.548	5.390	3.91	7.72	0.685
Dissolved Oxygen	2003	5.235	5.400	1.50	7.66	0.994
Dissolved Oxygen	2004	5.441	5.290	2.55	7.30	0.587
Dissolved Oxygen	2005	5.772	5.860	0.15	8.27	0.900
Dissolved Oxygen	2006	6.221	6.340	0.75	9.45	1.204
Dissolved Oxygen	2007	5.797	5.720	1.10	9.33	1.283
Dissolved Oxygen	2008	5.382	5.525	0.01	14.17	1.493
Dissolved Oxygen	2009	5.064	5.300	0.16	9.47	1.282
Dissolved Oxygen	2010	5.469	5.580	0.60	7.71	0.983
Dissolved Oxygen	2011	5.526	5.550	0.75	7.85	1.107
Dissolved Oxygen	2012	5.281	5.430	0.94	7.70	1.097
Dissolved Oxygen	2013	5.480	5.580	0.52	8.72	1.701
Dissolved Oxygen	2014	5.321	5.580	0.96	9.18	1.236
Dissolved Oxygen	2015	5.547	5.540	1.20	11.22	1.218
Dissolved Oxygen	2016	5.612	5.540	0.45	11.78	1.710
Dissolved Oxygen	2017	5.252	5.540	0.30	21.89	1.385

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2018	5.691	5.740	1.82	10.81	1.052
Dissolved Oxygen	2019	6.483	6.470	0.27	14.31	1.378
Dissolved Oxygen	2020	6.099	6.140	0.15	10.99	1.916
Dissolved Oxygen	2021	5.968	5.880	0.24	11.61	1.255
Dissolved Oxygen	2022	6.201	5.930	0.30	12.55	1.349
Dissolved Oxygen	2023	6.041	5.940	0.01	14.31	1.278
Dissolved Oxygen	2024	6.540	6.590	1.34	7.65	0.753

Programs contributing WQ Data:

Table 112: Programs contributing WQ data for Dissolved Oxygen in Biscayne Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	103	1970	2004	1655
Dissolved Oxygen	115	2004	2004	27
Dissolved Oxygen	118	2015	2020	60
Dissolved Oxygen	509	1993	2008	17154
Dissolved Oxygen	4049	2006	2008	4332
Dissolved Oxygen	4057	2015	2019	554
Dissolved Oxygen	4058	2016	2023	1519
Dissolved Oxygen	5002	2001	2024	44487
Dissolved Oxygen	5026	2019	2023	13614

WQ Program names:

- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 509 - SERC Water Quality Monitoring Network
- 4049 - The South Florida Fisheries Habitat Assessment Program (FHAP)
- 4057 - Biscayne Bay Water Watch
- 4058 - City of Miami Beach Water Monitoring
- 5002 - Florida STORET / WIN
- 5026 - North Biscayne Bay Seagrass Loss Water Quality Program

Dissolved Oxygen Saturation

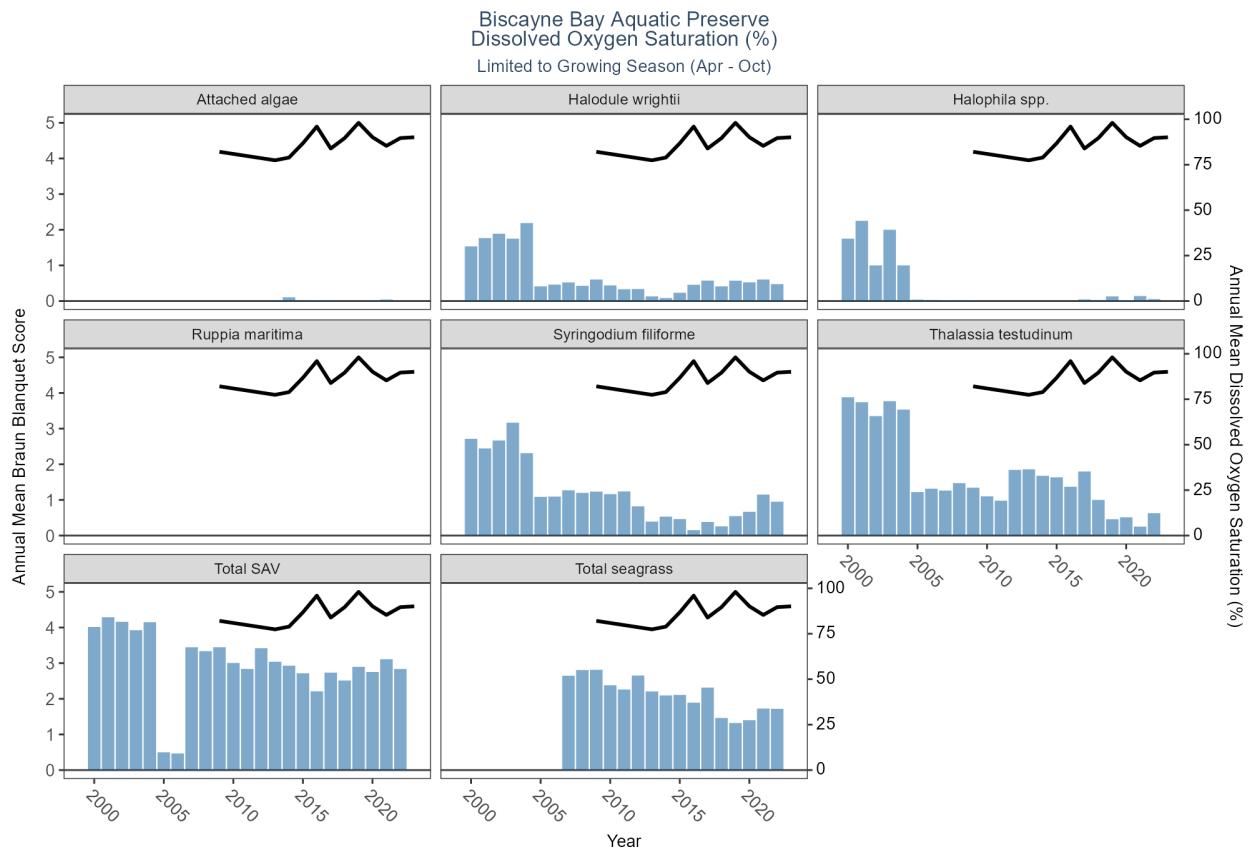


Table 113: WQ Summary for Dissolved Oxygen Saturation in Biscayne Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2009	82.103	79.50	2.19	105.0	9.631
Dissolved Oxygen Saturation	2013	77.430	79.15	10.21	115.6	14.838
Dissolved Oxygen Saturation	2014	78.930	82.00	10.58	142.8	16.988
Dissolved Oxygen Saturation	2015	86.808	87.80	29.70	130.1	10.877
Dissolved Oxygen Saturation	2016	95.979	98.05	24.40	122.5	11.128
Dissolved Oxygen Saturation	2017	83.907	88.40	5.00	175.0	13.525
Dissolved Oxygen Saturation	2018	89.651	90.60	26.40	159.1	16.187
Dissolved Oxygen Saturation	2019	98.051	96.70	16.80	175.2	19.558
Dissolved Oxygen Saturation	2020	90.127	92.30	2.80	172.1	26.930
Dissolved Oxygen Saturation	2021	85.367	86.90	3.60	116.9	11.975
Dissolved Oxygen Saturation	2022	89.660	87.10	3.13	182.9	20.722
Dissolved Oxygen Saturation	2023	90.093	91.25	5.50	177.7	16.254
Dissolved Oxygen Saturation	2024	95.268	96.60	16.10	115.4	10.755

Programs contributing WQ Data:

Table 114: Programs contributing WQ data for Dissolved Oxygen Saturation in Biscayne Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	102	1995	1996	2255
Dissolved Oxygen Saturation	5002	2009	2024	28479
Dissolved Oxygen Saturation	5026	2019	2020	3732

WQ Program names:

102 - National Status and Trends Mussel Watch

5002 - Florida STORET / WIN

5026 - North Biscayne Bay Seagrass Loss Water Quality Program

pH

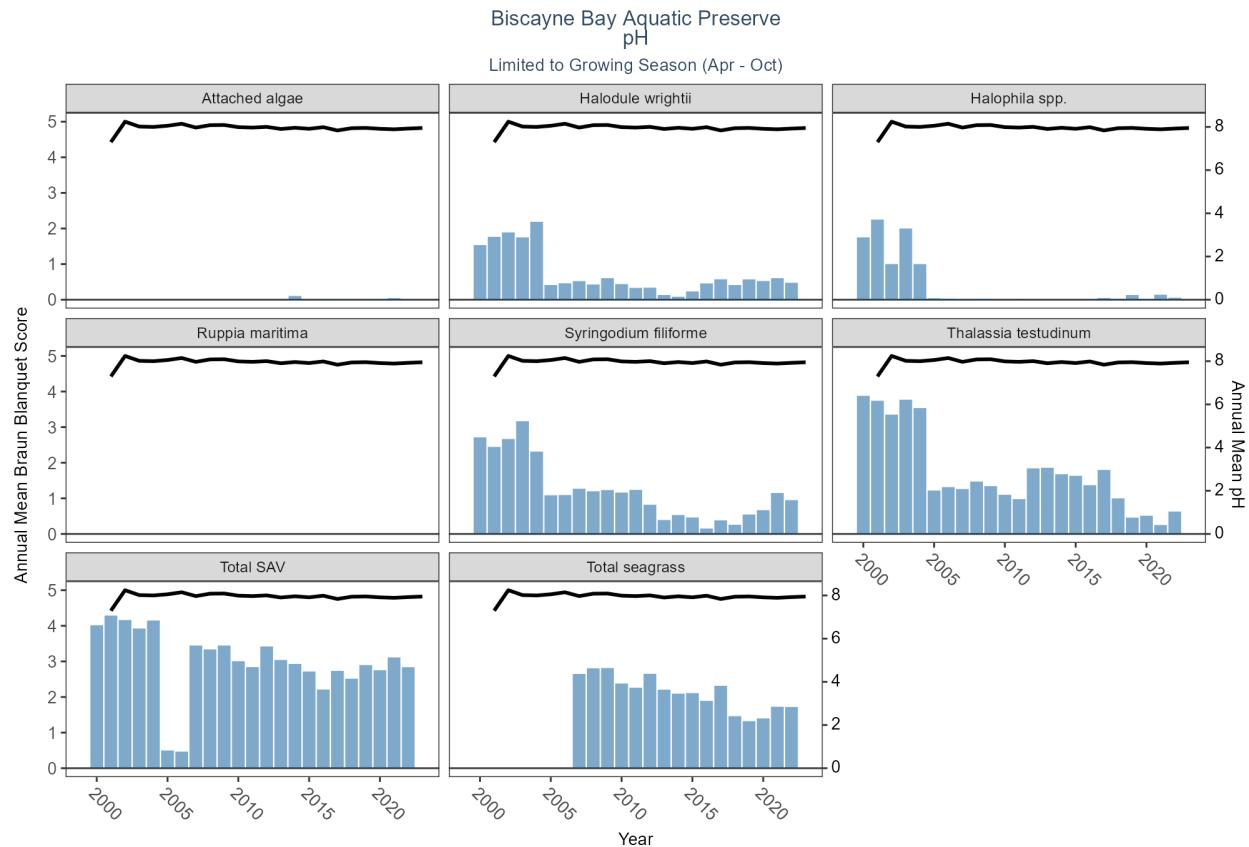


Table 115: WQ Summary for pH in Biscayne Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	2001	7.295	7.295	7.290	7.300	0.007
pH	2002	8.243	8.203	7.730	8.855	0.249
pH	2003	8.016	8.020	6.460	8.535	0.202
pH	2004	8.000	8.010	7.125	8.455	0.314
pH	2005	8.054	8.070	7.030	8.500	0.225
pH	2006	8.147	8.160	7.240	8.550	0.174

ParameterName	Year	mean	median	min	max	sd
pH	2007	7.970	8.005	6.910	8.490	0.161
pH	2008	8.082	8.080	6.960	8.440	0.157
pH	2009	8.089	8.100	6.490	8.610	0.204
pH	2010	7.990	8.020	6.760	8.390	0.193
pH	2011	7.970	8.010	7.080	8.290	0.172
pH	2012	8.003	7.960	7.200	8.710	0.192
pH	2013	7.905	7.950	7.000	8.380	0.231
pH	2014	7.961	7.995	7.090	8.710	0.299
pH	2015	7.914	7.930	7.150	8.420	0.252
pH	2016	7.988	7.980	6.480	8.750	0.211
pH	2017	7.837	7.870	5.400	8.900	0.202
pH	2018	7.941	7.950	2.850	8.475	0.230
pH	2019	7.954	7.920	6.140	8.850	0.259
pH	2020	7.913	7.940	6.980	8.550	0.229
pH	2021	7.890	7.900	7.050	9.590	0.179
pH	2022	7.924	7.940	6.860	9.890	0.163
pH	2023	7.950	7.970	6.430	8.760	0.168
pH	2024	8.043	8.050	7.030	8.330	0.122

Programs contributing WQ Data:

Table 116: Programs contributing WQ data for pH in Biscayne Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	103	1970	2003	205
pH	115	2004	2004	27
pH	118	2015	2020	38
pH	509	2002	2008	4469
pH	4049	2005	2008	5285
pH	4057	2015	2019	555
pH	4058	2016	2023	1568
pH	5002	2001	2024	42821
pH	5026	2019	2023	14140

WQ Program names:

- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 509 - SERC Water Quality Monitoring Network
- 4049 - The South Florida Fisheries Habitat Assessment Program (FHAP)
- 4057 - Biscayne Bay Water Watch
- 4058 - City of Miami Beach Water Monitoring
- 5002 - Florida STORET / WIN
- 5026 - North Biscayne Bay Seagrass Loss Water Quality Program

Salinity

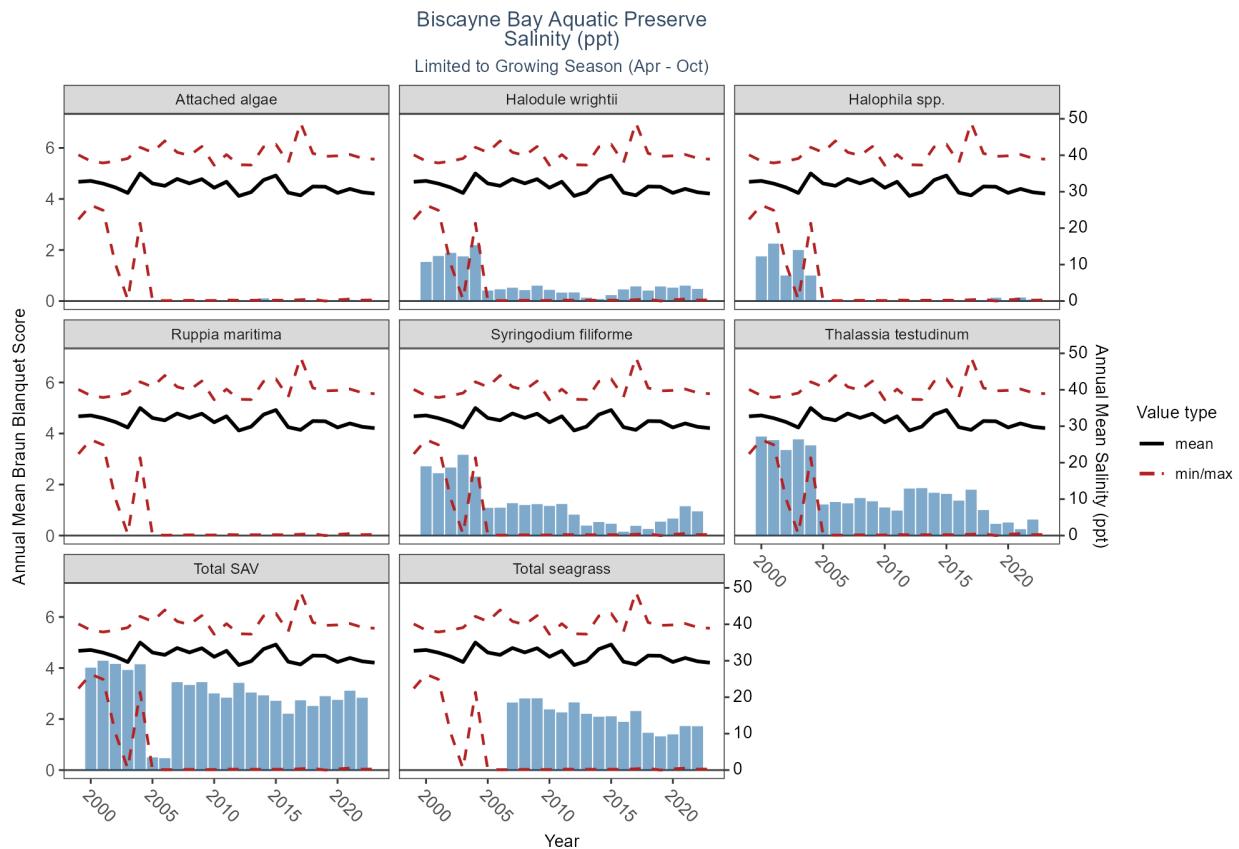


Table 117: WQ Summary for Salinity in Biscayne Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	1999	32.715	33.200	22.400	40.100	4.462
Salinity	2000	32.955	33.500	26.300	38.400	2.560
Salinity	2001	32.223	32.200	24.900	37.890	3.059
Salinity	2002	31.164	31.280	10.118	38.370	3.369
Salinity	2003	29.651	31.100	0.400	39.100	5.619
Salinity	2004	35.007	35.330	21.349	42.183	3.499
Salinity	2005	32.262	33.100	0.200	40.790	4.101
Salinity	2006	31.615	33.000	0.110	43.930	4.598
Salinity	2007	33.495	33.920	0.140	40.810	3.192
Salinity	2008	32.286	33.300	0.190	39.920	4.228
Salinity	2009	33.439	34.600	0.160	42.400	4.263
Salinity	2010	31.081	31.600	0.150	37.270	3.484
Salinity	2011	32.727	33.700	0.270	40.173	4.293
Salinity	2012	28.826	29.400	0.210	37.397	5.200
Salinity	2013	29.895	30.690	0.220	37.310	5.434
Salinity	2014	33.191	34.455	0.210	42.290	5.051
Salinity	2015	34.440	35.720	0.230	43.000	5.921
Salinity	2016	29.744	32.000	0.200	38.000	7.015
Salinity	2017	28.999	29.700	0.350	48.900	5.929
Salinity	2018	31.421	31.860	0.480	40.500	5.688

ParameterName	Year	mean	median	min	max	sd
Salinity	2019	31.361	32.200	0.000	39.700	4.924
Salinity	2020	29.665	30.660	0.320	39.830	6.744
Salinity	2021	30.768	31.710	0.530	40.200	5.714
Salinity	2022	29.841	30.920	0.240	39.180	5.575
Salinity	2023	29.474	29.970	0.290	38.910	5.328
Salinity	2024	30.379	30.850	0.150	37.270	4.954

Programs contributing WQ Data:

Table 118: Programs contributing WQ data for Salinity in Biscayne Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	3	2002	2012	1148
Salinity	95	2013	2013	33
Salinity	102	1995	1996	2353
Salinity	103	2003	2003	3
Salinity	115	2004	2004	27
Salinity	118	2015	2020	67
Salinity	509	1993	2008	17154
Salinity	965	2005	2011	65134
Salinity	4049	2005	2008	6258
Salinity	4057	2015	2019	572
Salinity	4058	2016	2023	1537
Salinity	5002	2003	2024	45178
Salinity	5026	2019	2020	3405

WQ Program names:

- 3 - Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Synoptic Shipboard Surveys
- 95 - Harmful Algal Bloom Marine Observation Network
- 102 - National Status and Trends Mussel Watch
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 509 - SERC Water Quality Monitoring Network
- 965 - South Florida Seagrass Fish and Invertebrate Assessment Network
- 4049 - The South Florida Fisheries Habitat Assessment Program (FHAP)
- 4057 - Biscayne Bay Water Watch
- 4058 - City of Miami Beach Water Monitoring
- 5002 - Florida STORET / WIN
- 5026 - North Biscayne Bay Seagrass Loss Water Quality Program

Secchi Depth

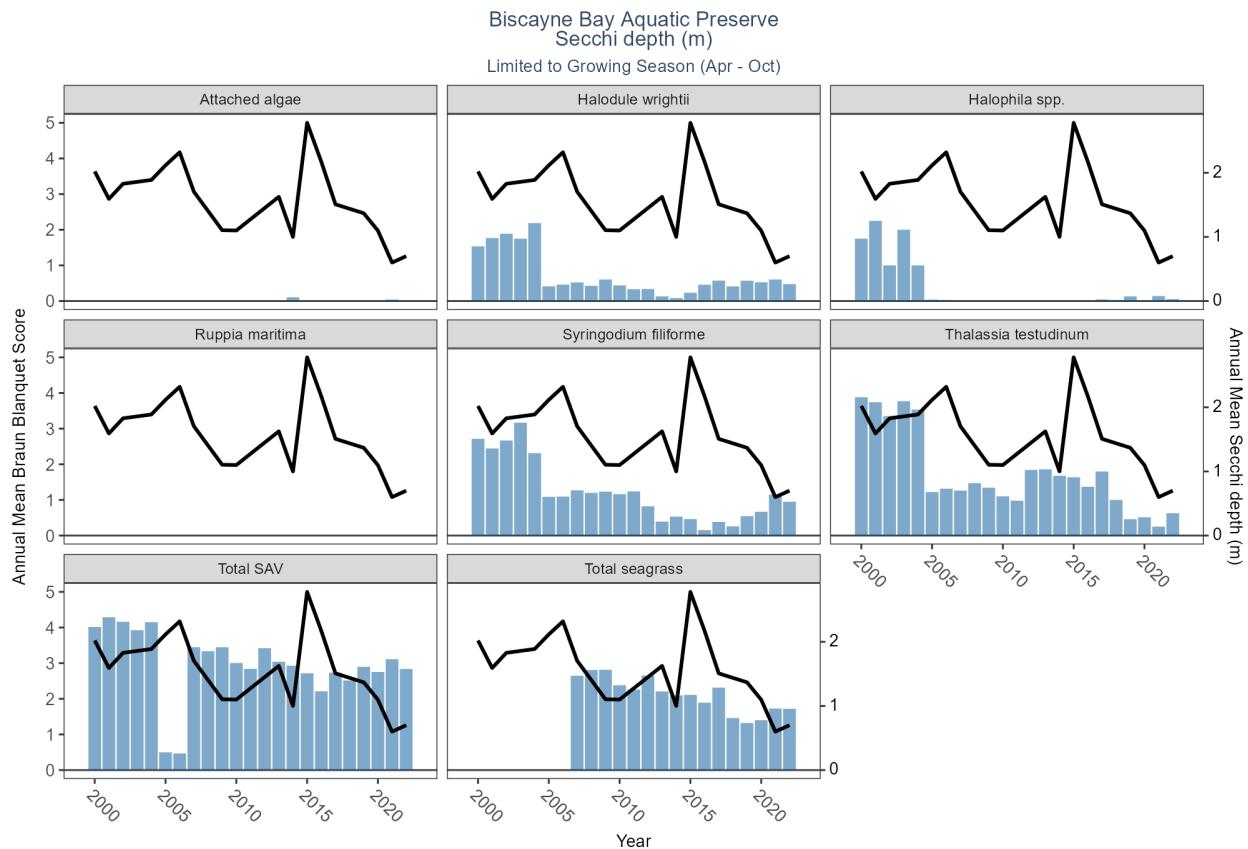


Table 119: WQ Summary for Secchi Depth in Biscayne Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2000	2.021	1.829	0.701	3.048	0.606
Secchi depth	2001	1.592	1.524	1.219	1.829	0.152
Secchi depth	2002	1.829	1.524	0.914	2.438	0.507
Secchi depth	2004	1.888	1.829	0.914	3.139	0.752
Secchi depth	2005	2.117	2.100	0.671	3.048	0.618
Secchi depth	2006	2.320	1.950	1.600	4.300	0.764
Secchi depth	2007	1.705	1.700	0.550	3.000	0.489
Secchi depth	2009	1.104	1.100	0.300	2.300	0.596
Secchi depth	2010	1.100	1.100	1.100	1.100	NA
Secchi depth	2013	1.625	1.625	1.050	2.200	0.813
Secchi depth	2014	1.000	1.000	1.000	1.000	NA
Secchi depth	2015	2.779	2.500	2.170	4.000	0.538
Secchi depth	2016	2.173	2.800	0.800	3.600	1.074
Secchi depth	2017	1.508	1.250	0.600	3.400	0.772
Secchi depth	2019	1.369	1.189	0.457	3.292	0.625
Secchi depth	2020	1.098	0.930	0.152	3.620	0.525
Secchi depth	2021	0.600	0.600	0.600	0.600	NA
Secchi depth	2022	0.700	0.700	0.700	0.700	NA

Programs contributing WQ Data:

Table 120: Programs contributing WQ data for Secchi Depth in Biscayne Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	115	2004	2004	9
Secchi depth	118	2015	2020	5
Secchi depth	514	2000	2005	343
Secchi depth	4049	2005	2007	1996
Secchi depth	5002	2007	2022	69
Secchi depth	5026	2019	2020	3440

WQ Program names:

- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 514 - Florida LAKEWATCH Program
- 4049 - The South Florida Fisheries Habitat Assessment Program (FHAP)
- 5002 - Florida STORET / WIN
- 5026 - North Biscayne Bay Seagrass Loss Water Quality Program

Total Nitrogen & Total Phosphorus

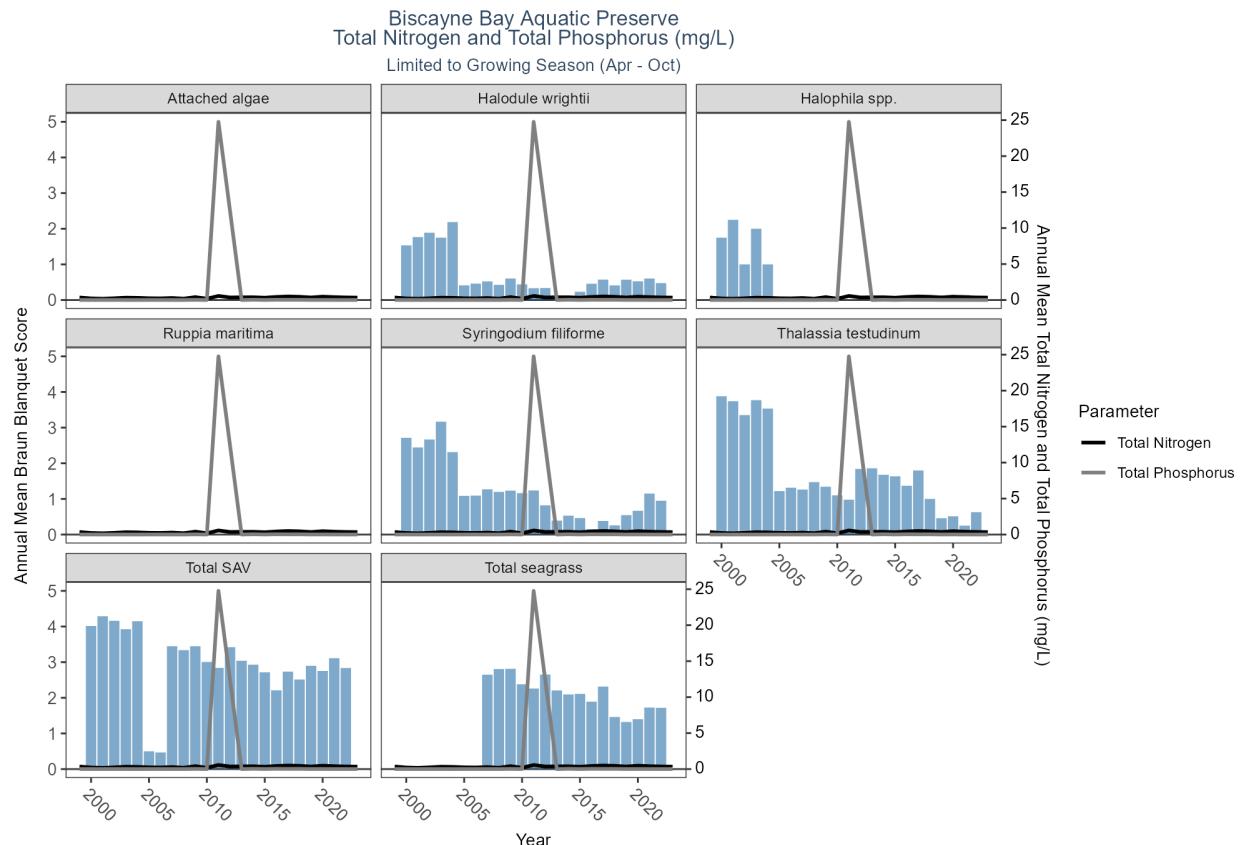


Table 121: WQ Summary for Total Nitrogen & Total Phosphorus
in Biscayne Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	1999	0.355	0.326	0.144	1.550	0.173
Total Nitrogen	2000	0.222	0.190	0.000	1.540	0.135
Total Nitrogen	2001	0.177	0.162	0.000	0.870	0.107
Total Nitrogen	2002	0.242	0.250	0.000	0.930	0.129
Total Nitrogen	2003	0.330	0.309	0.073	0.772	0.100
Total Nitrogen	2004	0.306	0.300	0.000	0.840	0.141
Total Nitrogen	2005	0.245	0.242	0.000	0.690	0.119
Total Nitrogen	2006	0.228	0.197	0.112	1.011	0.115
Total Nitrogen	2007	0.279	0.217	0.108	2.185	0.206
Total Nitrogen	2008	0.190	0.165	0.078	1.790	0.145
Total Nitrogen	2009	0.406	0.310	0.090	1.450	0.299
Total Nitrogen	2010	0.189	0.090	0.080	1.295	0.196
Total Nitrogen	2011	0.565	0.495	0.090	1.310	0.481
Total Nitrogen	2012	0.359	0.120	0.090	1.340	0.441
Total Nitrogen	2013	0.378	0.300	0.090	1.290	0.307
Total Nitrogen	2014	0.385	0.250	0.090	1.560	0.395
Total Nitrogen	2015	0.327	0.310	0.140	0.870	0.118
Total Nitrogen	2016	0.429	0.340	0.180	2.250	0.262
Total Nitrogen	2017	0.492	0.475	0.176	4.248	0.262
Total Nitrogen	2018	0.449	0.427	0.275	1.648	0.118
Total Nitrogen	2019	0.355	0.345	0.111	3.360	0.172
Total Nitrogen	2020	0.469	0.374	0.120	4.900	0.288
Total Nitrogen	2021	0.404	0.365	0.101	3.040	0.173
Total Nitrogen	2022	0.361	0.347	0.065	1.642	0.153
Total Nitrogen	2023	0.340	0.316	0.145	1.480	0.133
Total Nitrogen	2024	0.821	0.601	0.304	2.205	0.529
Total Phosphorus	1999	0.010	0.010	0.003	0.029	0.004
Total Phosphorus	2000	0.011	0.012	0.000	0.020	0.004
Total Phosphorus	2001	0.006	0.004	0.000	0.036	0.005
Total Phosphorus	2002	0.011	0.011	0.000	0.049	0.005
Total Phosphorus	2003	0.008	0.005	0.002	0.029	0.006
Total Phosphorus	2004	0.005	0.004	0.000	0.017	0.002
Total Phosphorus	2005	0.011	0.007	0.000	0.058	0.012
Total Phosphorus	2006	0.011	0.010	0.004	0.025	0.004
Total Phosphorus	2007	0.008	0.008	0.002	0.016	0.003
Total Phosphorus	2008	0.007	0.006	0.003	0.014	0.001
Total Phosphorus	2009	0.027	0.022	0.009	0.058	0.015
Total Phosphorus	2010	0.007	0.004	0.002	0.067	0.006
Total Phosphorus	2011	24.767	0.004	0.001	16415.000	633.729
Total Phosphorus	2013	0.005	0.004	0.002	0.044	0.006
Total Phosphorus	2014	0.042	0.042	0.042	0.042	NA
Total Phosphorus	2015	0.013	0.007	0.006	0.022	0.007
Total Phosphorus	2016	0.040	0.029	0.009	0.390	0.050
Total Phosphorus	2017	0.031	0.029	0.011	0.057	0.008
Total Phosphorus	2018	0.033	0.030	0.018	0.170	0.014
Total Phosphorus	2019	0.013	0.011	0.007	0.130	0.008
Total Phosphorus	2020	0.018	0.011	0.002	0.280	0.022
Total Phosphorus	2021	0.011	0.008	0.002	0.230	0.012
Total Phosphorus	2022	0.009	0.008	0.002	0.177	0.008

ParameterName	Year	mean	median	min	max	sd
Total Phosphorus	2023	0.007	0.007	0.002	0.450	0.009
Total Phosphorus	2024	0.004	0.003	0.002	0.051	0.004

Programs contributing WQ Data:

Table 122: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Biscayne Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	103	2002	2006	86
Total Nitrogen	115	2004	2004	9
Total Nitrogen	118	2010	2010	5
Total Nitrogen	509	1993	2008	8538
Total Nitrogen	514	2000	2005	372
Total Nitrogen	4058	2016	2023	1412
Total Nitrogen	5002	1995	2024	7063
Total Nitrogen	5026	2019	2023	13907
Total Phosphorus	103	1970	2006	357
Total Phosphorus	115	2004	2004	9
Total Phosphorus	118	2010	2010	1
Total Phosphorus	509	1993	2008	8513
Total Phosphorus	514	2000	2005	372
Total Phosphorus	4058	2016	2023	1465
Total Phosphorus	5002	2001	2024	8083
Total Phosphorus	5026	2019	2023	14065

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

509 - SERC Water Quality Monitoring Network

514 - Florida LAKEWATCH Program

4058 - City of Miami Beach Water Monitoring

5002 - Florida STORET / WIN

5026 - North Biscayne Bay Seagrass Loss Water Quality Program

Total Suspended Solids

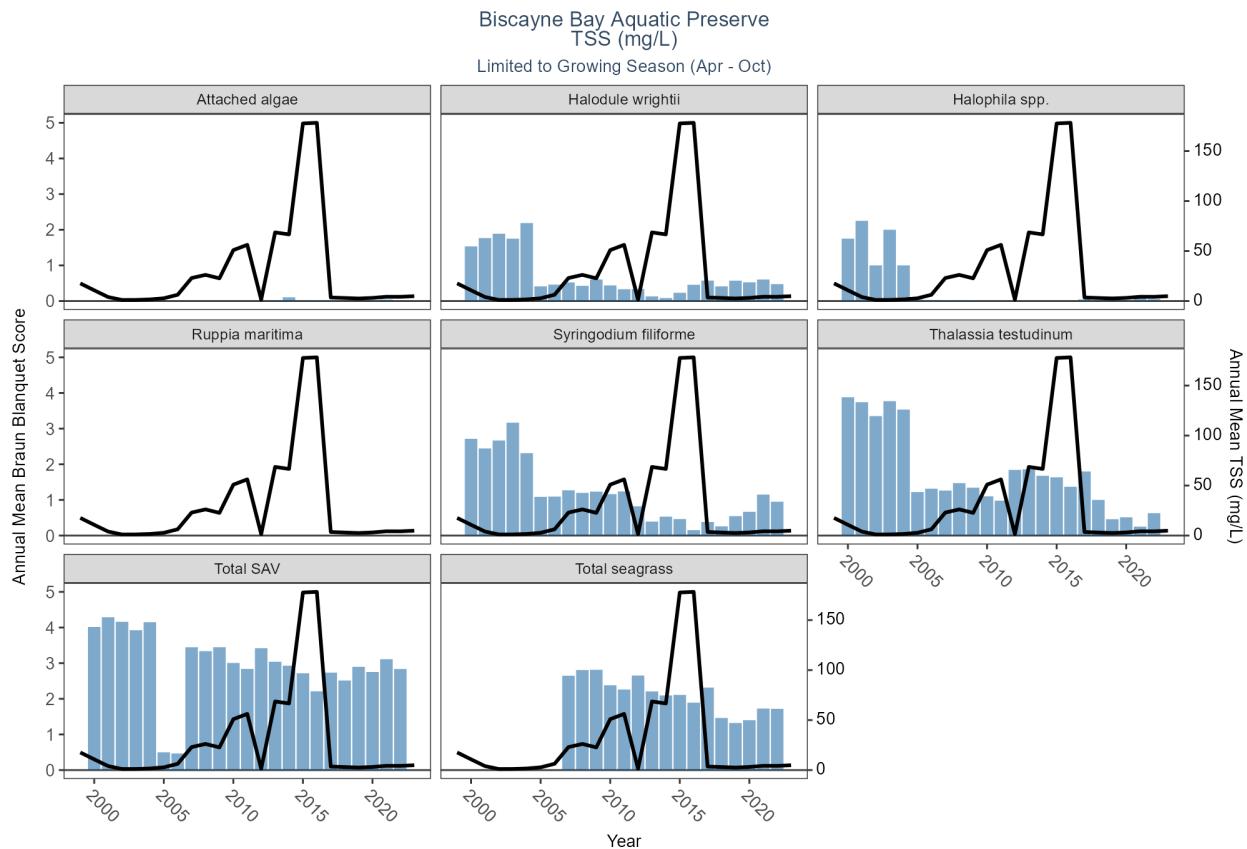


Table 123: WQ Summary for Total Suspended Solids in Biscayne Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	1999	17.650	17.65	6.20	29.10	16.193
TSS	2000	10.750	10.75	10.30	11.20	0.636
TSS	2001	4.000	4.00	4.00	4.00	0.000
TSS	2002	1.073	0.78	0.50	5.00	0.924
TSS	2003	1.118	0.72	0.36	6.96	0.927
TSS	2004	1.608	1.28	0.17	20.00	1.983
TSS	2005	2.760	1.48	0.20	8.20	2.670
TSS	2006	6.283	8.24	0.10	17.40	5.622
TSS	2007	23.003	2.20	0.65	201.00	47.138
TSS	2008	26.155	1.15	0.40	81.00	32.128
TSS	2009	22.704	2.50	0.15	120.00	37.274
TSS	2010	50.930	58.00	0.01	120.00	35.197
TSS	2011	56.205	70.00	0.50	146.00	35.537
TSS	2012	1.388	1.25	0.55	5.20	0.797
TSS	2013	68.645	71.00	2.00	127.00	18.372
TSS	2014	66.641	64.00	6.00	136.00	23.872
TSS	2015	177.630	186.00	3.00	290.00	78.897
TSS	2016	178.246	155.00	2.00	320.00	90.156
TSS	2017	3.538	3.00	2.00	7.00	1.561

ParameterName	Year	mean	median	min	max	sd
TSS	2019	2.545	3.00	0.00	22.00	2.673
TSS	2020	3.121	3.00	0.00	16.00	2.899
TSS	2021	4.270	3.00	2.00	39.00	3.013
TSS	2022	4.229	4.00	2.00	30.00	2.845
TSS	2023	4.868	4.00	2.00	23.00	2.861

Programs contributing WQ Data:

Table 124: Programs contributing WQ data for Total Suspended Solids in Biscayne Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	3	2002	2012	1091
TSS	5002	1994	2023	3043
TSS	5026	2019	2023	17346

WQ Program names:

3 - Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Synoptic Shipboard Surveys

5002 - Florida STORET / WIN

5026 - North Biscayne Bay Seagrass Loss Water Quality Program

Turbidity

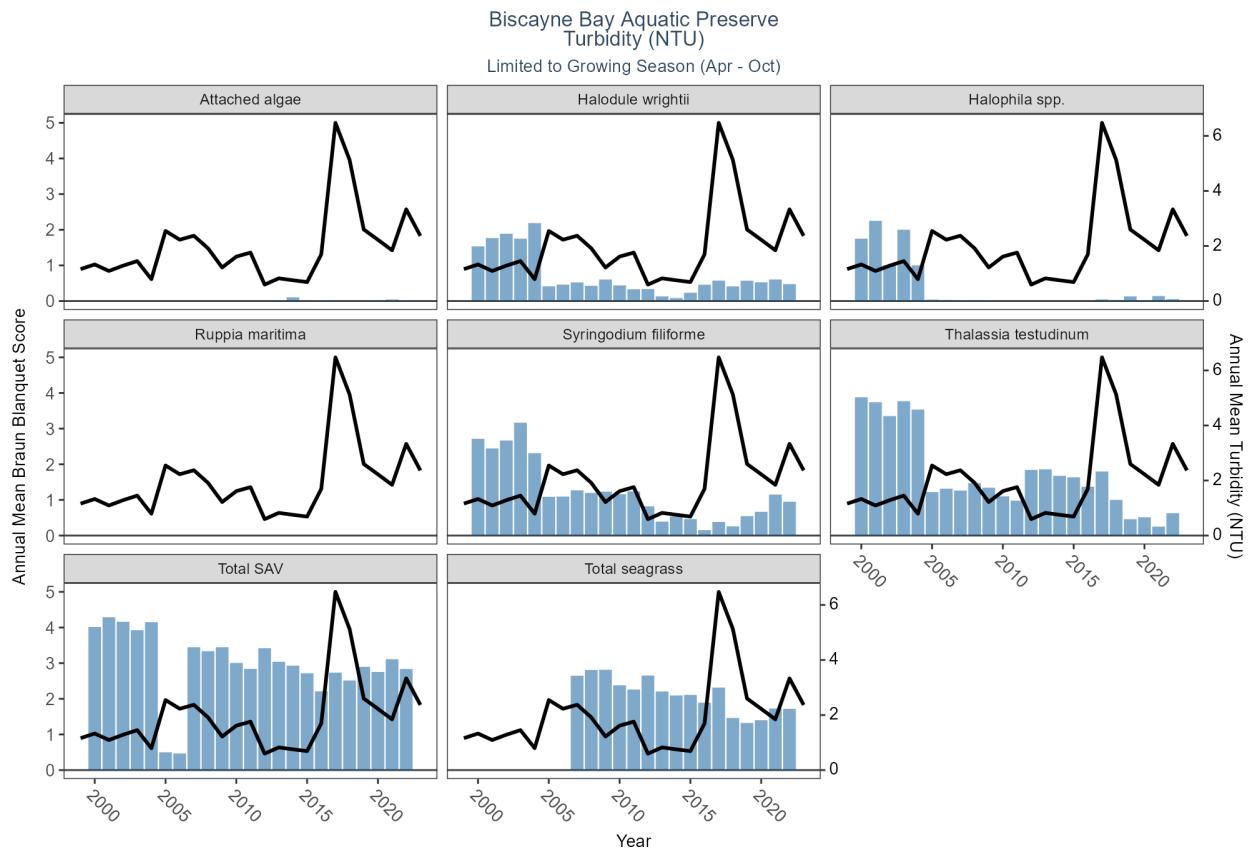


Table 125: WQ Summary for Turbidity in Biscayne Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	1999	1.161	1.30	0.000	7.50	0.767
Turbidity	2000	1.328	1.00	0.200	64.30	1.749
Turbidity	2001	1.092	0.70	0.005	11.58	1.021
Turbidity	2002	1.285	1.00	0.095	8.50	0.935
Turbidity	2003	1.451	1.40	0.145	13.10	0.915
Turbidity	2004	0.794	0.70	0.200	5.60	0.483
Turbidity	2005	2.546	1.95	0.120	14.43	2.079
Turbidity	2006	2.229	1.90	0.080	9.35	1.576
Turbidity	2007	2.372	1.60	0.085	18.30	2.248
Turbidity	2008	1.915	1.39	0.000	8.93	1.635
Turbidity	2009	1.218	1.04	0.100	5.06	0.758
Turbidity	2010	1.615	1.17	0.010	8.14	1.363
Turbidity	2011	1.760	1.41	0.200	15.08	1.683
Turbidity	2012	0.597	0.60	0.200	2.20	0.264
Turbidity	2013	0.824	0.60	0.100	6.30	0.752
Turbidity	2014	0.754	0.60	0.200	5.50	0.438
Turbidity	2015	0.690	0.60	0.200	4.60	0.388
Turbidity	2016	1.697	0.70	0.300	46.10	3.419
Turbidity	2017	6.475	4.47	0.850	478.00	25.792
Turbidity	2018	5.127	4.05	1.250	66.10	4.987

ParameterName	Year	mean	median	min	max	sd
Turbidity	2019	2.600	1.33	-0.520	495.76	10.464
Turbidity	2020	2.226	1.30	-0.070	23.80	3.136
Turbidity	2021	1.844	1.10	0.100	46.80	3.367
Turbidity	2022	3.332	1.20	0.200	203.80	9.136
Turbidity	2023	2.366	1.16	0.020	47.71	4.670
Turbidity	2024	1.679	1.10	0.300	8.30	1.105

Programs contributing WQ Data:

Table 126: Programs contributing WQ data for Turbidity in Biscayne Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	103	1982	2006	8
Turbidity	509	1993	2008	8577
Turbidity	965	2005	2011	32551
Turbidity	4058	2016	2023	1565
Turbidity	5002	1994	2024	36439
Turbidity	5026	2019	2020	3275

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

509 - SERC Water Quality Monitoring Network

965 - South Florida Seagrass Fish and Invertebrate Assessment Network

4058 - City of Miami Beach Water Monitoring

5002 - Florida STORET / WIN

5026 - North Biscayne Bay Seagrass Loss Water Quality Program

Water Temperature



Table 127: WQ Summary for Water Temperature in Biscayne Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	1999	28.166	29.000	23.400	31.300	2.425
Temperature	2000	27.990	28.600	23.800	32.000	2.441
Temperature	2001	27.462	28.300	22.840	33.150	2.598
Temperature	2002	29.036	28.910	26.220	33.080	1.642
Temperature	2003	28.548	28.840	20.410	35.600	1.973
Temperature	2004	28.665	29.190	21.600	32.530	2.492
Temperature	2005	27.414	27.200	20.780	34.200	1.568
Temperature	2006	27.489	28.400	20.400	32.220	2.450
Temperature	2007	27.601	26.380	22.600	32.900	3.190
Temperature	2008	27.214	27.670	20.800	32.300	2.082
Temperature	2009	28.377	29.210	21.580	32.800	2.441
Temperature	2010	26.423	28.100	20.400	32.810	3.543
Temperature	2011	29.244	28.900	23.985	34.000	1.786
Temperature	2012	28.856	29.470	23.292	33.342	1.894
Temperature	2013	27.599	28.480	22.080	31.550	2.364
Temperature	2014	28.109	28.280	22.820	31.890	1.595
Temperature	2015	28.533	28.840	22.990	34.050	2.334
Temperature	2016	29.153	29.255	24.110	36.870	2.284
Temperature	2017	29.597	29.900	8.150	36.100	1.762

ParameterName	Year	mean	median	min	max	sd
Temperature	2018	28.536	29.000	24.500	33.550	2.252
Temperature	2019	29.216	29.778	22.350	33.550	2.064
Temperature	2020	29.390	28.900	25.100	34.688	1.846
Temperature	2021	28.865	29.100	20.600	33.236	1.879
Temperature	2022	29.029	29.000	21.520	33.800	2.071
Temperature	2023	29.438	29.556	20.100	34.140	2.259
Temperature	2024	25.760	26.589	23.340	28.900	1.534

Programs contributing WQ Data:

Table 128: Programs contributing WQ data for Water Temperature in Biscayne Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	3	2002	2012	1148
Temperature	95	2013	2015	34
Temperature	102	1995	1996	2353
Temperature	103	1970	2004	2308
Temperature	115	2004	2004	27
Temperature	118	2015	2020	64
Temperature	509	1993	2008	17154
Temperature	965	2005	2011	65134
Temperature	4049	2005	2008	6258
Temperature	4057	2015	2019	553
Temperature	4058	2016	2023	1559
Temperature	5002	2001	2024	45071
Temperature	5026	2019	2023	14194

WQ Program names:

3 - Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Synoptic Shipboard Surveys

95 - Harmful Algal Bloom Marine Observation Network

102 - National Status and Trends Mussel Watch

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

509 - SERC Water Quality Monitoring Network

965 - South Florida Seagrass Fish and Invertebrate Assessment Network

4049 - The South Florida Fisheries Habitat Assessment Program (FHAP)

4057 - Biscayne Bay Water Watch

4058 - City of Miami Beach Water Monitoring

5002 - Florida STORET / WIN

5026 - North Biscayne Bay Seagrass Loss Water Quality Program

Boca Ciega Bay Aquatic Preserve

Programs contributing SAV Data:

Table 129: Programs contributing SAV data in Boca Ciega Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Braun Blanquet Score	565	1998	2023	2628
Percent Cover	564	2019	2019	54

SAV Program names:

565 - Tampa Bay Seagrass Monitoring

564 - Western Pinellas County Seagrass Monitoring

Chlorophyll-a (corrected & uncorrected)

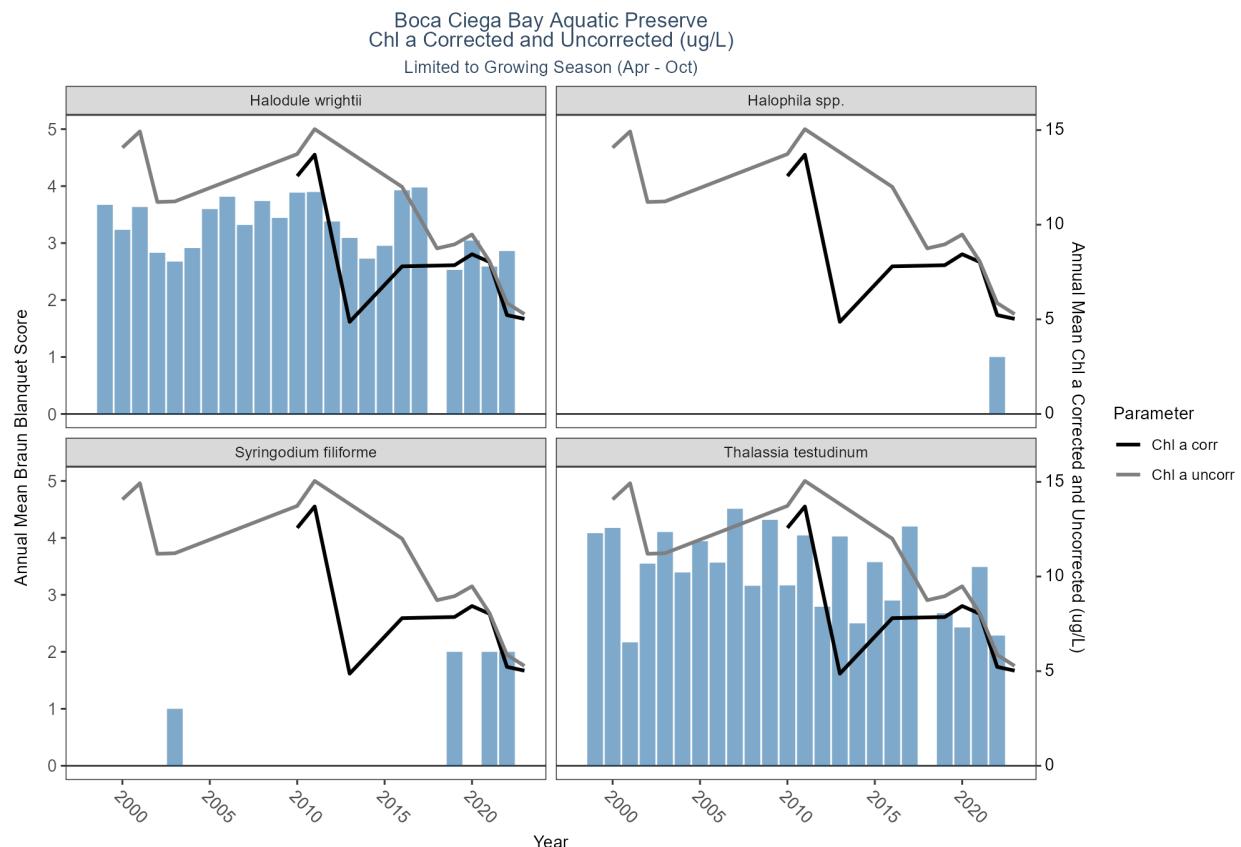


Table 130: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Boca Ciega Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2010	12.570	9.600	4.900	28.000	8.558
Chl a corr	2011	13.700	12.050	5.000	25.000	9.146
Chl a corr	2013	4.867	4.400	3.900	6.300	1.266

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2016	7.800	7.800	6.400	9.200	1.980
Chl a corr	2019	7.860	8.400	3.900	9.900	2.329
Chl a corr	2020	8.440	6.700	1.700	30.600	5.463
Chl a corr	2021	8.032	6.300	1.300	38.600	5.933
Chl a corr	2022	5.224	4.250	0.600	16.000	3.147
Chl a corr	2023	5.026	4.100	0.800	19.400	3.679
Chl a uncorr	2000	14.073	19.503	5.927	19.503	7.436
Chl a uncorr	2001	14.928	14.928	14.928	14.928	0.000
Chl a uncorr	2002	11.200	11.200	6.400	16.000	5.543
Chl a uncorr	2003	11.230	11.230	11.230	11.230	0.000
Chl a uncorr	2010	13.731	11.000	5.900	33.000	9.157
Chl a uncorr	2011	15.050	13.250	5.800	27.000	9.817
Chl a uncorr	2016	12.000	10.000	6.900	20.400	5.724
Chl a uncorr	2018	8.750	8.750	5.600	11.900	4.455
Chl a uncorr	2019	8.960	10.000	4.300	11.000	2.799
Chl a uncorr	2020	9.483	7.300	1.700	34.400	6.098
Chl a uncorr	2021	8.066	6.550	1.200	42.000	6.189
Chl a uncorr	2022	5.861	4.400	2.200	20.800	3.738
Chl a uncorr	2023	5.275	4.550	1.500	14.900	3.087

Programs contributing WQ Data:

Table 131: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Boca Ciega Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	103	2021	2021	87
Chl a corr	5002	2010	2023	373
Chl a uncorr	95	2016	2018	5
Chl a uncorr	103	2000	2003	10
Chl a uncorr	115	2000	2003	5
Chl a uncorr	118	2010	2010	1
Chl a uncorr	5002	2010	2023	348

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

5002 - Florida STORET / WIN

95 - Harmful Algal Bloom Marine Observation Network

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

Dissolved Oxygen

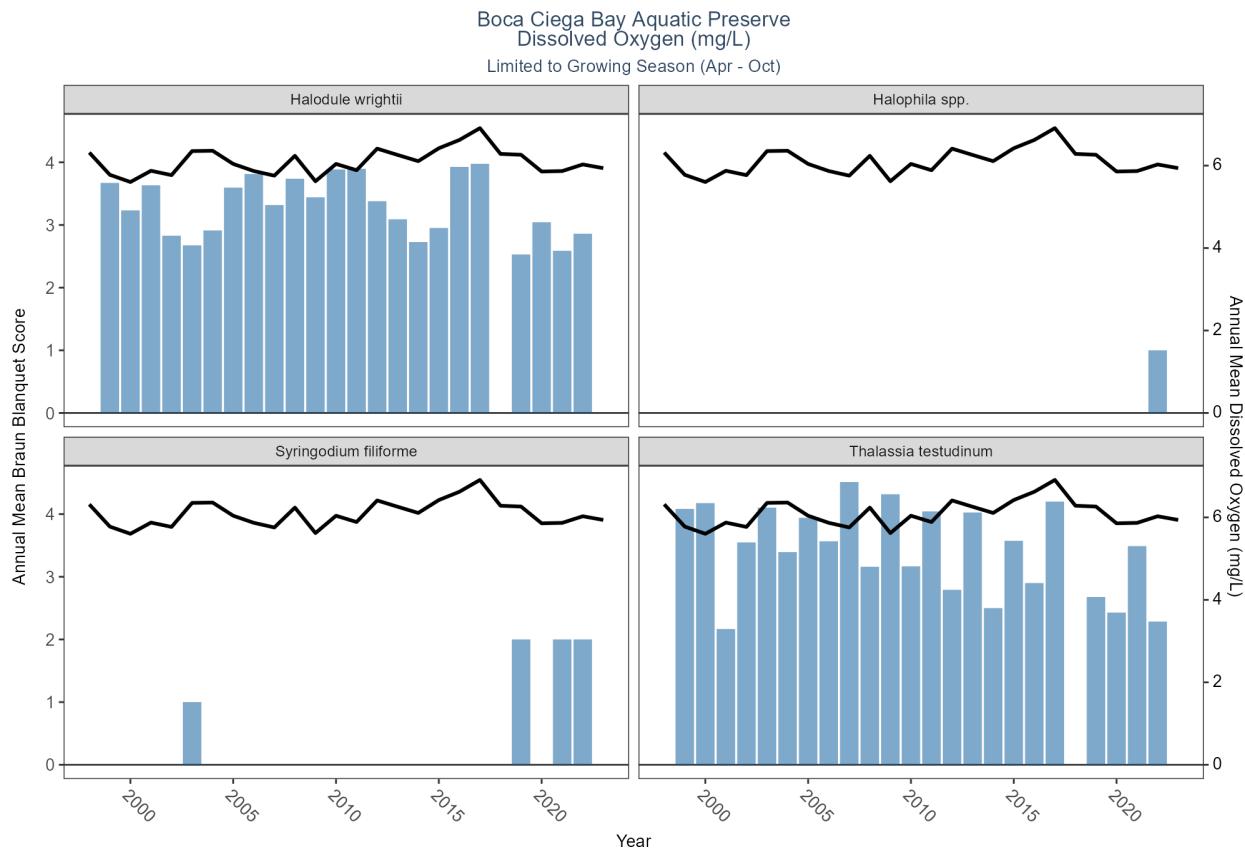


Table 132: WQ Summary for Dissolved Oxygen in Boca Ciega Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	1998	6.317	6.225	1.40	11.70	1.130
Dissolved Oxygen	1999	5.777	5.720	0.50	15.14	1.544
Dissolved Oxygen	2000	5.603	5.870	0.11	11.20	1.589
Dissolved Oxygen	2001	5.875	5.840	0.29	20.00	1.863
Dissolved Oxygen	2002	5.769	5.830	0.60	16.25	1.239
Dissolved Oxygen	2003	6.352	6.300	1.40	16.10	1.657
Dissolved Oxygen	2004	6.360	6.450	0.08	12.40	1.503
Dissolved Oxygen	2005	6.041	6.000	0.30	15.60	1.984
Dissolved Oxygen	2006	5.869	5.770	0.50	14.20	1.685
Dissolved Oxygen	2007	5.756	5.500	1.10	13.40	1.875
Dissolved Oxygen	2008	6.238	6.020	1.61	13.90	1.704
Dissolved Oxygen	2009	5.620	5.400	1.90	14.10	1.863
Dissolved Oxygen	2010	6.041	5.810	1.10	13.90	1.724
Dissolved Oxygen	2011	5.888	5.970	1.30	18.20	1.762
Dissolved Oxygen	2012	6.412	6.270	0.93	13.75	1.528
Dissolved Oxygen	2013	6.258	6.115	0.10	12.70	1.608
Dissolved Oxygen	2014	6.108	6.100	0.86	11.80	1.537
Dissolved Oxygen	2015	6.421	6.460	1.44	12.90	1.627
Dissolved Oxygen	2016	6.622	6.495	1.20	17.24	2.032

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2017	6.909	6.580	1.20	19.52	1.977
Dissolved Oxygen	2018	6.284	6.300	1.70	11.90	1.634
Dissolved Oxygen	2019	6.263	6.300	0.80	12.20	1.826
Dissolved Oxygen	2020	5.857	5.985	1.88	9.50	1.432
Dissolved Oxygen	2021	5.868	5.870	0.79	16.90	1.564
Dissolved Oxygen	2022	6.028	5.900	2.10	17.18	1.846
Dissolved Oxygen	2023	5.938	6.075	1.69	10.03	1.409

Programs contributing WQ Data:

Table 133: Programs contributing WQ data for Dissolved Oxygen in Boca Ciega Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	1989	2022	6428
Dissolved Oxygen	95	1985	2018	139
Dissolved Oxygen	103	2003	2021	238
Dissolved Oxygen	115	2000	2003	10
Dissolved Oxygen	118	2015	2015	6
Dissolved Oxygen	4067	1995	2022	5678
Dissolved Oxygen	5002	1995	2023	8801

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 4067 - Tampa Bay Benthic Monitoring
- 5002 - Florida STORET / WIN

Dissolved Oxygen Saturation

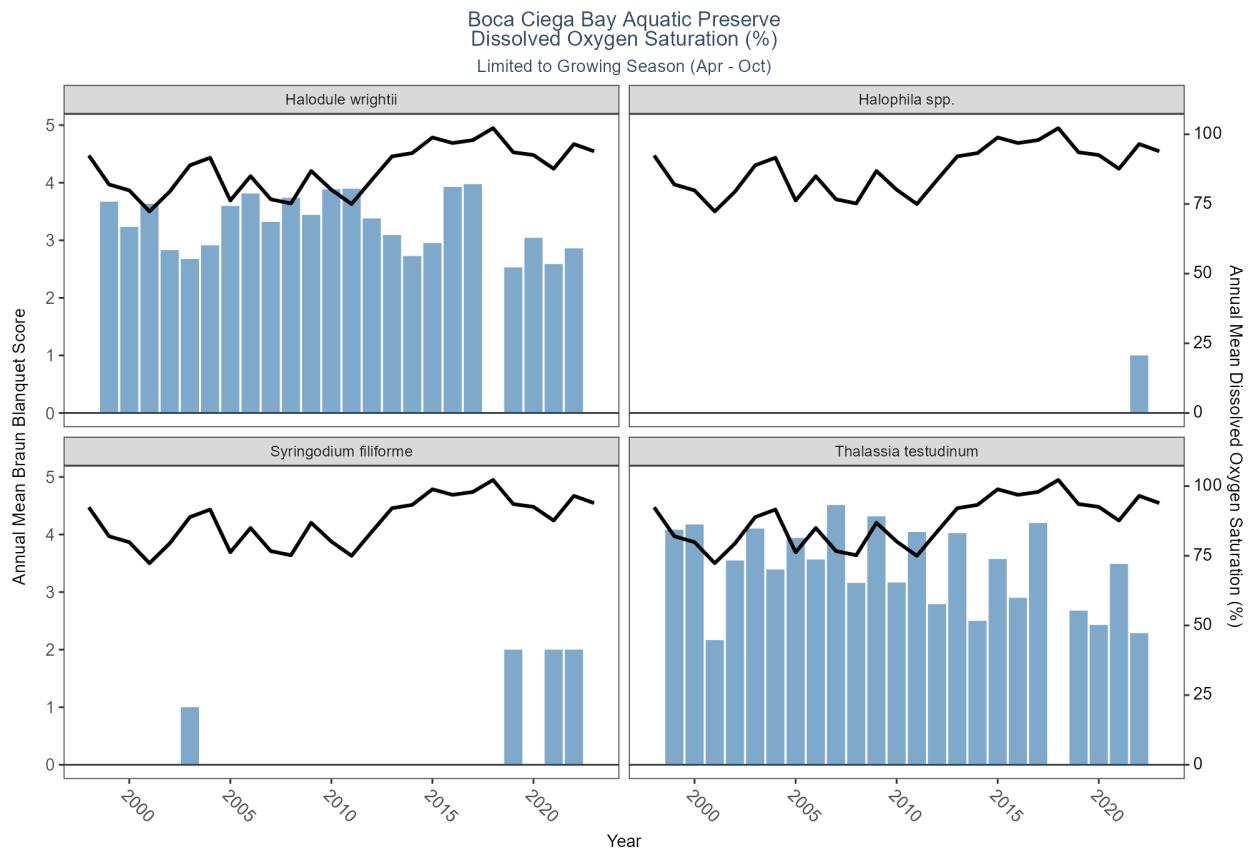


Table 134: WQ Summary for Dissolved Oxygen Saturation in Boca Ciega Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	1998	92.393	89.75	50.60	173.6	15.864
Dissolved Oxygen Saturation	1999	82.001	77.70	57.90	137.2	17.286
Dissolved Oxygen Saturation	2000	79.876	81.70	2.40	176.1	26.265
Dissolved Oxygen Saturation	2001	72.331	71.10	26.00	178.9	21.108
Dissolved Oxygen Saturation	2002	79.431	77.35	65.30	98.4	10.093
Dissolved Oxygen Saturation	2003	88.878	89.10	57.60	137.6	21.093
Dissolved Oxygen Saturation	2004	91.589	92.45	55.60	140.9	26.651
Dissolved Oxygen Saturation	2005	76.250	74.80	47.40	105.5	15.748
Dissolved Oxygen Saturation	2006	84.980	82.60	70.10	98.6	10.388
Dissolved Oxygen Saturation	2007	76.681	75.95	32.30	181.6	35.022
Dissolved Oxygen Saturation	2008	75.185	80.85	25.00	110.3	23.924
Dissolved Oxygen Saturation	2009	86.845	87.10	54.60	115.3	15.658
Dissolved Oxygen Saturation	2010	80.117	80.85	43.80	114.8	18.800
Dissolved Oxygen Saturation	2011	74.983	81.65	21.30	104.2	22.623
Dissolved Oxygen Saturation	2012	83.635	90.65	15.10	107.0	21.565
Dissolved Oxygen Saturation	2013	92.076	90.50	24.80	199.1	20.467
Dissolved Oxygen Saturation	2014	93.261	95.35	8.05	137.7	16.266
Dissolved Oxygen Saturation	2015	98.863	99.60	22.70	200.1	21.695
Dissolved Oxygen Saturation	2016	96.870	97.60	36.80	252.5	29.151

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2017	97.908	95.60	41.40	176.6	23.544
Dissolved Oxygen Saturation	2018	102.215	103.30	65.80	140.5	15.240
Dissolved Oxygen Saturation	2019	93.550	91.30	26.10	142.0	30.534
Dissolved Oxygen Saturation	2020	92.564	93.50	30.70	144.6	19.150
Dissolved Oxygen Saturation	2021	87.634	85.90	12.60	263.4	24.139
Dissolved Oxygen Saturation	2022	96.501	92.30	35.80	290.4	28.515
Dissolved Oxygen Saturation	2023	93.905	95.80	26.20	161.4	22.615

Programs contributing WQ Data:

Table 135: Programs contributing WQ data for Dissolved Oxygen Saturation in Boca Ciega Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	102	1992	1992	10
Dissolved Oxygen Saturation	4067	1995	2022	5207
Dissolved Oxygen Saturation	5002	2010	2023	1725

WQ Program names:

102 - National Status and Trends Mussel Watch

4067 - Tampa Bay Benthic Monitoring

5002 - Florida STORET / WIN

pH

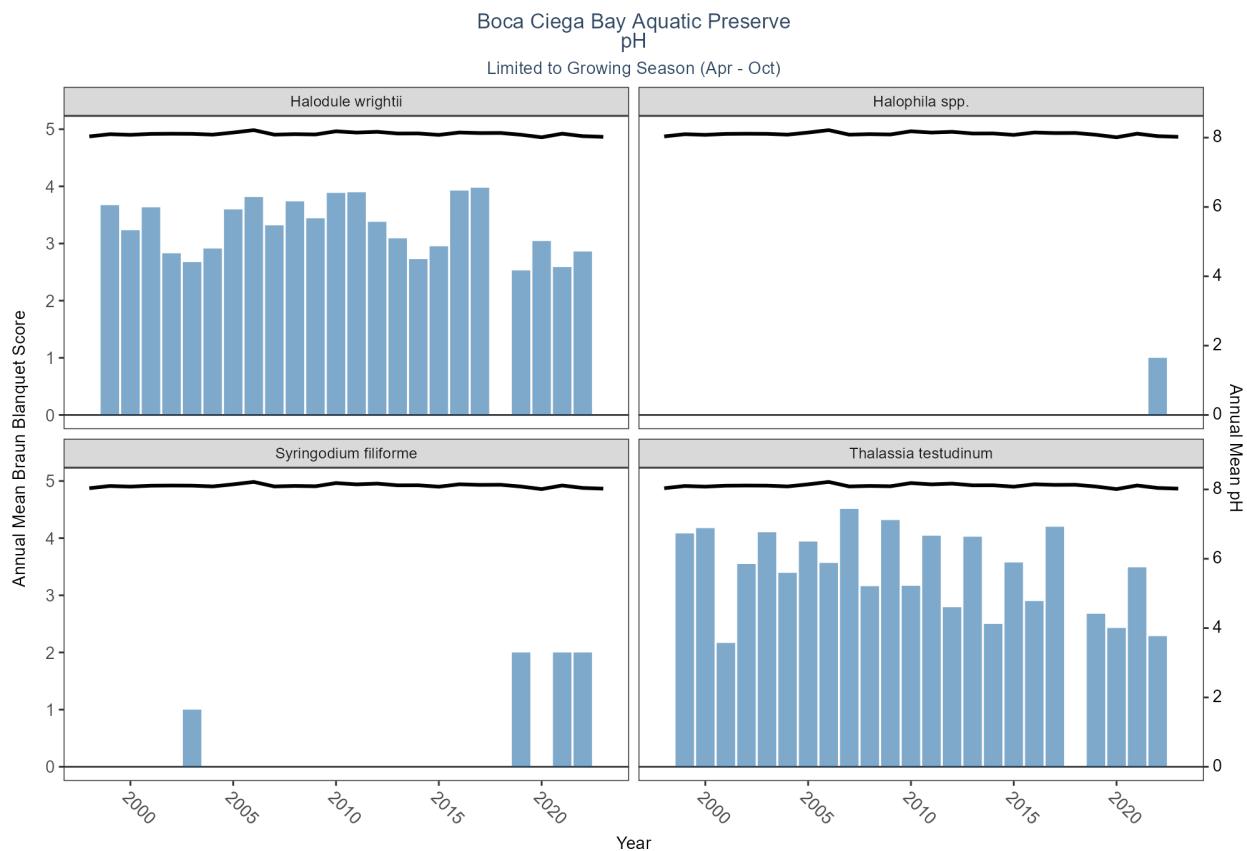


Table 136: WQ Summary for pH in Boca Ciega Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	1998	8.035	8.100	6.30	9.80	0.317
pH	1999	8.099	8.160	2.71	9.30	0.321
pH	2000	8.081	8.100	7.45	8.70	0.172
pH	2001	8.108	8.100	6.87	9.40	0.215
pH	2002	8.113	8.110	7.29	9.23	0.272
pH	2003	8.110	8.100	7.60	9.00	0.168
pH	2004	8.086	8.110	6.68	8.90	0.195
pH	2005	8.147	8.130	7.00	9.60	0.221
pH	2006	8.216	8.190	7.60	9.50	0.232
pH	2007	8.086	8.100	6.40	8.90	0.319
pH	2008	8.101	8.100	7.20	8.80	0.198
pH	2009	8.091	8.100	7.02	8.54	0.150
pH	2010	8.184	8.200	7.56	9.70	0.237
pH	2011	8.146	8.170	7.00	8.70	0.179
pH	2012	8.168	8.190	7.00	8.90	0.267
pH	2013	8.119	8.100	7.50	8.90	0.150
pH	2014	8.121	8.100	7.60	10.99	0.200
pH	2015	8.079	8.100	7.30	8.80	0.161
pH	2016	8.148	8.200	7.00	8.80	0.207
pH	2017	8.132	8.100	7.46	9.08	0.145

ParameterName	Year	mean	median	min	max	sd
pH	2018	8.135	8.200	7.11	9.00	0.182
pH	2019	8.083	8.100	7.06	8.43	0.179
pH	2020	8.010	8.100	5.72	8.85	0.405
pH	2021	8.114	8.100	7.46	8.69	0.155
pH	2022	8.043	8.045	7.67	8.64	0.131
pH	2023	8.023	8.045	7.40	8.39	0.161

Programs contributing WQ Data:

Table 137: Programs contributing WQ data for pH in Boca Ciega Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	1989	2022	6351
pH	95	2001	2018	121
pH	103	2021	2021	237
pH	115	2000	2003	10
pH	118	2015	2015	3
pH	4067	1995	2022	4310
pH	5002	1995	2023	8192

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 4067 - Tampa Bay Benthic Monitoring
- 5002 - Florida STORET / WIN

Salinity

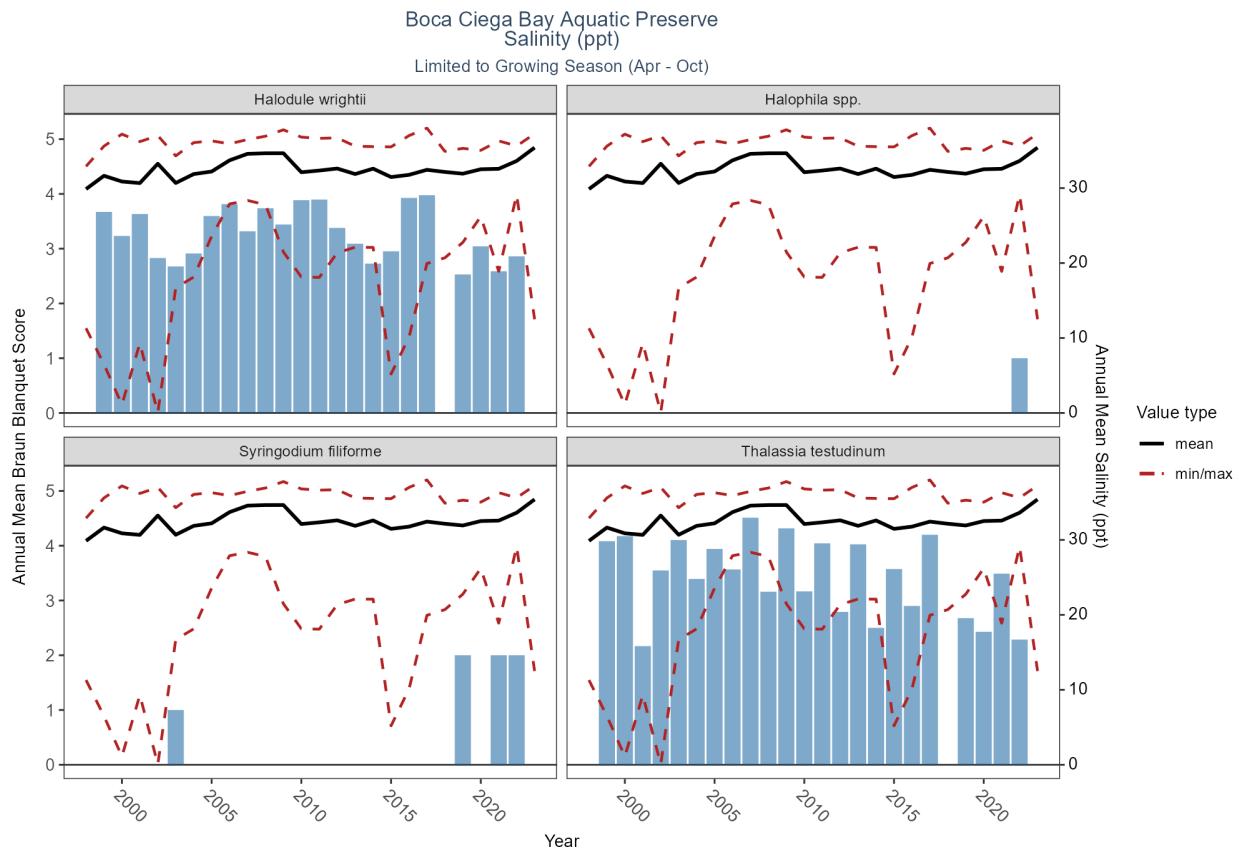


Table 138: WQ Summary for Salinity in Boca Ciega Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	1998	29.871	30.100	11.30	32.90	2.227
Salinity	1999	31.645	32.000	6.50	35.60	2.208
Salinity	2000	30.878	29.495	1.11	37.20	2.957
Salinity	2001	30.671	30.800	9.30	36.20	3.063
Salinity	2002	33.249	33.745	0.05	37.00	2.812
Salinity	2003	30.684	31.000	16.70	34.30	2.672
Salinity	2004	31.873	32.400	18.13	36.07	2.792
Salinity	2005	32.210	32.400	23.57	36.30	1.638
Salinity	2006	33.706	34.000	27.89	35.91	1.394
Salinity	2007	34.572	34.700	28.35	36.48	0.972
Salinity	2008	34.649	34.890	27.79	36.92	1.312
Salinity	2009	34.652	34.700	21.48	37.78	1.474
Salinity	2010	32.118	32.450	18.14	36.80	2.271
Salinity	2011	32.342	32.690	18.09	36.64	2.077
Salinity	2012	32.611	32.765	21.36	36.70	2.233
Salinity	2013	31.877	31.900	22.11	35.59	2.156
Salinity	2014	32.594	33.280	22.09	35.53	2.067
Salinity	2015	31.475	32.560	5.20	35.50	2.882
Salinity	2016	31.768	32.100	10.10	37.00	2.529
Salinity	2017	32.440	33.000	19.94	38.00	2.835

ParameterName	Year	mean	median	min	max	sd
Salinity	2018	32.154	32.500	20.70	34.90	2.144
Salinity	2019	31.924	32.300	22.76	35.30	2.295
Salinity	2020	32.514	32.850	26.21	35.04	1.614
Salinity	2021	32.573	32.720	18.89	36.30	2.288
Salinity	2022	33.625	33.800	29.11	35.62	1.222
Salinity	2023	35.405	35.760	12.50	37.25	2.573

Programs contributing WQ Data:

Table 139: Programs contributing WQ data for Salinity in Boca Ciega Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	1989	2022	6445
Salinity	95	1954	2018	592
Salinity	102	1992	1992	10
Salinity	115	2000	2003	10
Salinity	118	2015	2015	2
Salinity	4067	1995	2022	2497
Salinity	5002	1995	2023	8947

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 102 - National Status and Trends Mussel Watch
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 4067 - Tampa Bay Benthic Monitoring
- 5002 - Florida STORET / WIN

Secchi Depth

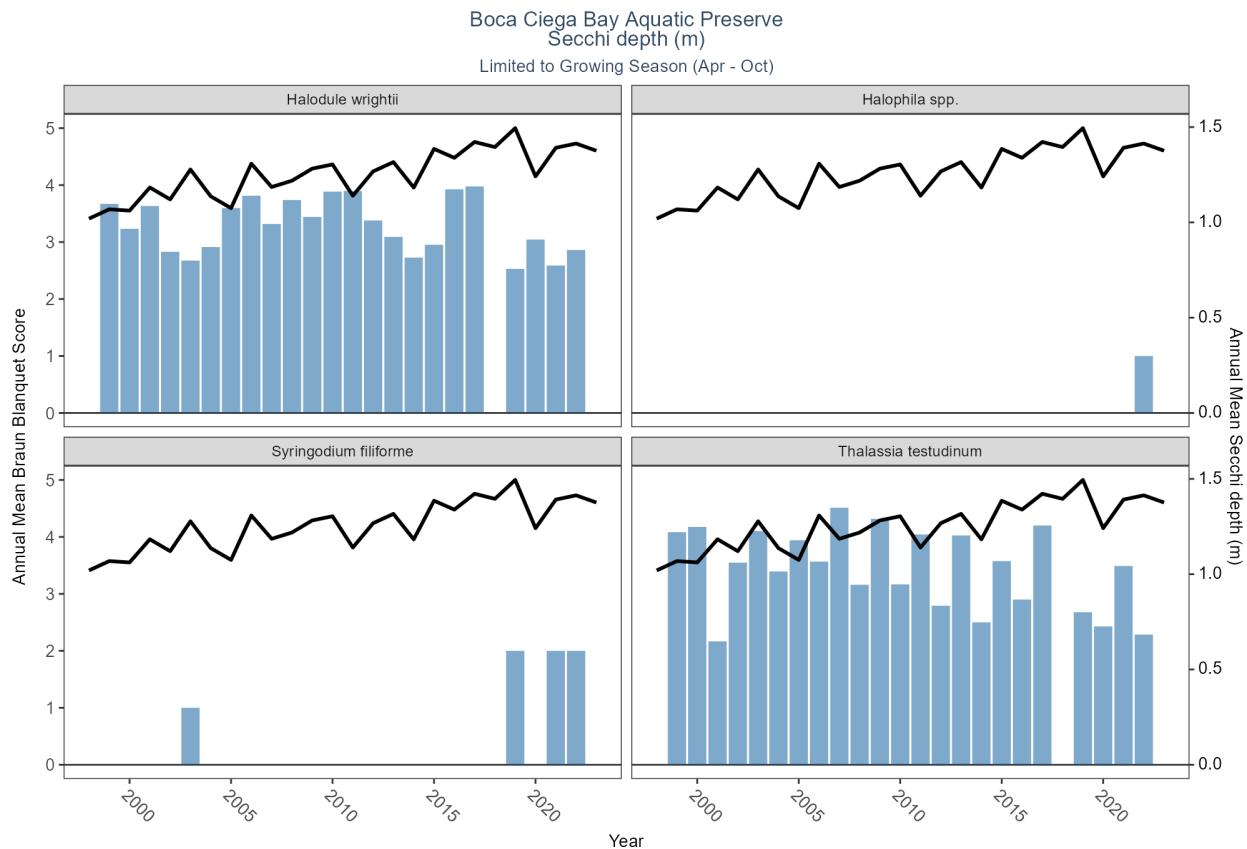


Table 140: WQ Summary for Secchi Depth in Boca Ciega Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	1998	1.020	1.00	0.400	2.50	0.436
Secchi depth	1999	1.069	1.00	0.100	2.10	0.429
Secchi depth	2000	1.062	1.00	0.400	2.20	0.395
Secchi depth	2001	1.183	1.00	0.300	3.20	0.539
Secchi depth	2002	1.121	1.10	0.300	2.00	0.382
Secchi depth	2003	1.278	1.20	0.300	2.80	0.540
Secchi depth	2004	1.137	1.10	0.400	2.10	0.394
Secchi depth	2005	1.075	0.90	0.300	2.60	0.550
Secchi depth	2006	1.308	1.10	0.300	3.50	0.769
Secchi depth	2007	1.186	1.00	0.300	2.80	0.646
Secchi depth	2008	1.219	1.20	0.200	2.80	0.516
Secchi depth	2009	1.282	1.20	0.300	2.40	0.532
Secchi depth	2010	1.304	1.10	0.300	3.20	0.673
Secchi depth	2011	1.140	1.05	0.300	2.50	0.516
Secchi depth	2012	1.268	1.10	0.300	3.70	0.580
Secchi depth	2013	1.316	1.20	0.300	3.10	0.565
Secchi depth	2014	1.183	1.10	0.300	2.30	0.470
Secchi depth	2015	1.385	1.30	0.300	3.10	0.594
Secchi depth	2016	1.339	1.20	0.200	3.60	0.631

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2017	1.422	1.40	0.200	3.00	0.641
Secchi depth	2018	1.395	1.30	0.300	3.70	0.714
Secchi depth	2019	1.495	1.50	0.300	2.40	0.498
Secchi depth	2020	1.241	1.10	0.498	2.50	0.536
Secchi depth	2021	1.391	1.20	0.300	4.00	0.678
Secchi depth	2022	1.414	1.30	0.300	3.35	0.621
Secchi depth	2023	1.376	1.40	0.330	3.00	0.470

Programs contributing WQ Data:

Table 141: Programs contributing WQ data for Secchi Depth in Boca Ciega Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	1995	2022	5819
Secchi depth	103	2021	2021	102
Secchi depth	115	2000	2002	4
Secchi depth	118	2015	2015	1
Secchi depth	5002	2010	2023	248

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

5002 - Florida STORET / WIN

Total Nitrogen & Total Phosphorus

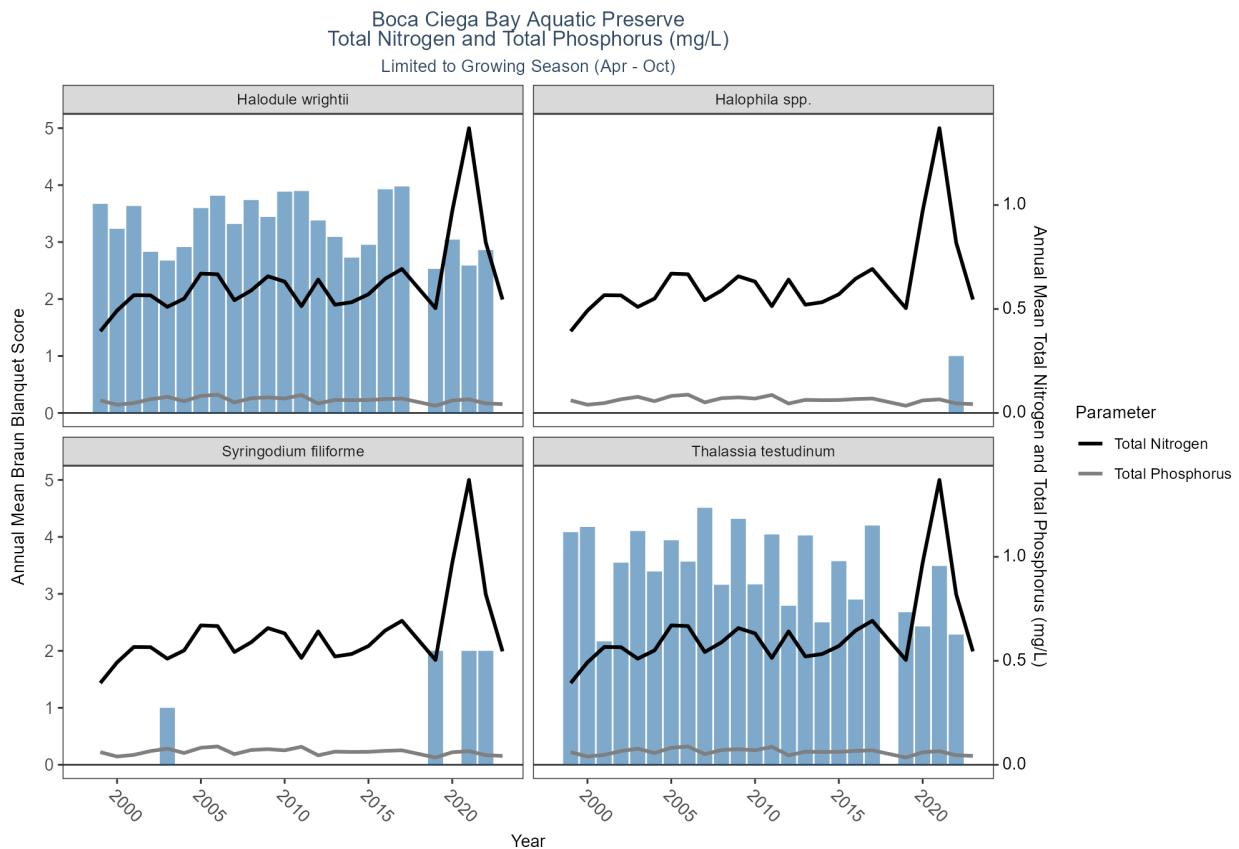


Table 142: WQ Summary for Total Nitrogen & Total Phosphorus in Boca Ciega Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	1999	0.393	0.390	0.160	0.710	0.114
Total Nitrogen	2000	0.492	0.440	0.054	1.224	0.246
Total Nitrogen	2001	0.566	0.540	0.310	1.110	0.154
Total Nitrogen	2002	0.565	0.560	0.120	0.900	0.139
Total Nitrogen	2003	0.510	0.505	0.120	1.020	0.186
Total Nitrogen	2004	0.550	0.560	0.111	0.980	0.213
Total Nitrogen	2005	0.670	0.650	0.400	1.220	0.152
Total Nitrogen	2006	0.667	0.560	0.430	1.270	0.240
Total Nitrogen	2007	0.542	0.550	0.220	0.840	0.149
Total Nitrogen	2008	0.589	0.580	0.440	0.810	0.083
Total Nitrogen	2009	0.657	0.640	0.440	1.000	0.134
Total Nitrogen	2010	0.632	0.620	0.316	0.920	0.133
Total Nitrogen	2011	0.514	0.490	0.240	1.110	0.211
Total Nitrogen	2012	0.641	0.620	0.440	1.610	0.180
Total Nitrogen	2013	0.521	0.500	0.430	0.750	0.080
Total Nitrogen	2014	0.533	0.530	0.420	0.670	0.074
Total Nitrogen	2015	0.571	0.540	0.420	0.930	0.130
Total Nitrogen	2016	0.646	0.640	0.420	1.050	0.147
Total Nitrogen	2017	0.692	0.690	0.270	2.520	0.278

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2019	0.504	0.494	0.404	0.654	0.092
Total Nitrogen	2020	0.971	0.940	0.400	1.510	0.274
Total Nitrogen	2021	1.370	1.360	0.820	1.820	0.213
Total Nitrogen	2022	0.819	0.720	0.430	1.630	0.307
Total Nitrogen	2023	0.545	0.540	0.310	0.970	0.133
Total Phosphorus	1999	0.061	0.060	0.020	0.170	0.028
Total Phosphorus	2000	0.040	0.040	0.016	0.090	0.017
Total Phosphorus	2001	0.047	0.040	0.020	0.130	0.022
Total Phosphorus	2002	0.066	0.076	0.020	0.140	0.044
Total Phosphorus	2003	0.078	0.080	0.010	0.210	0.038
Total Phosphorus	2004	0.057	0.050	0.006	0.140	0.031
Total Phosphorus	2005	0.082	0.075	0.050	0.140	0.025
Total Phosphorus	2006	0.088	0.070	0.020	0.950	0.111
Total Phosphorus	2007	0.051	0.050	0.050	0.100	0.007
Total Phosphorus	2008	0.071	0.070	0.020	0.160	0.025
Total Phosphorus	2009	0.075	0.070	0.050	0.140	0.019
Total Phosphorus	2010	0.069	0.060	0.050	0.120	0.020
Total Phosphorus	2011	0.086	0.050	0.010	0.770	0.107
Total Phosphorus	2012	0.045	0.048	0.010	0.150	0.031
Total Phosphorus	2013	0.063	0.060	0.041	0.120	0.016
Total Phosphorus	2014	0.062	0.060	0.050	0.090	0.012
Total Phosphorus	2015	0.062	0.060	0.050	0.110	0.015
Total Phosphorus	2016	0.067	0.060	0.050	0.120	0.019
Total Phosphorus	2017	0.069	0.060	0.038	0.160	0.023
Total Phosphorus	2019	0.035	0.034	0.027	0.044	0.007
Total Phosphorus	2020	0.060	0.060	0.010	0.160	0.020
Total Phosphorus	2021	0.065	0.060	0.020	0.730	0.070
Total Phosphorus	2022	0.046	0.040	0.020	0.140	0.029
Total Phosphorus	2023	0.043	0.030	0.010	0.220	0.044

Programs contributing WQ Data:

Table 143: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Boca Ciega Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	103	2000	2003	20
Total Nitrogen	115	2000	2003	5
Total Nitrogen	118	2010	2010	1
Total Nitrogen	5002	1999	2023	1860
Total Phosphorus	103	2000	2021	98
Total Phosphorus	115	2000	2003	5
Total Phosphorus	5002	1999	2023	1696

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

5002 - Florida STORET / WIN

Total Suspended Solids

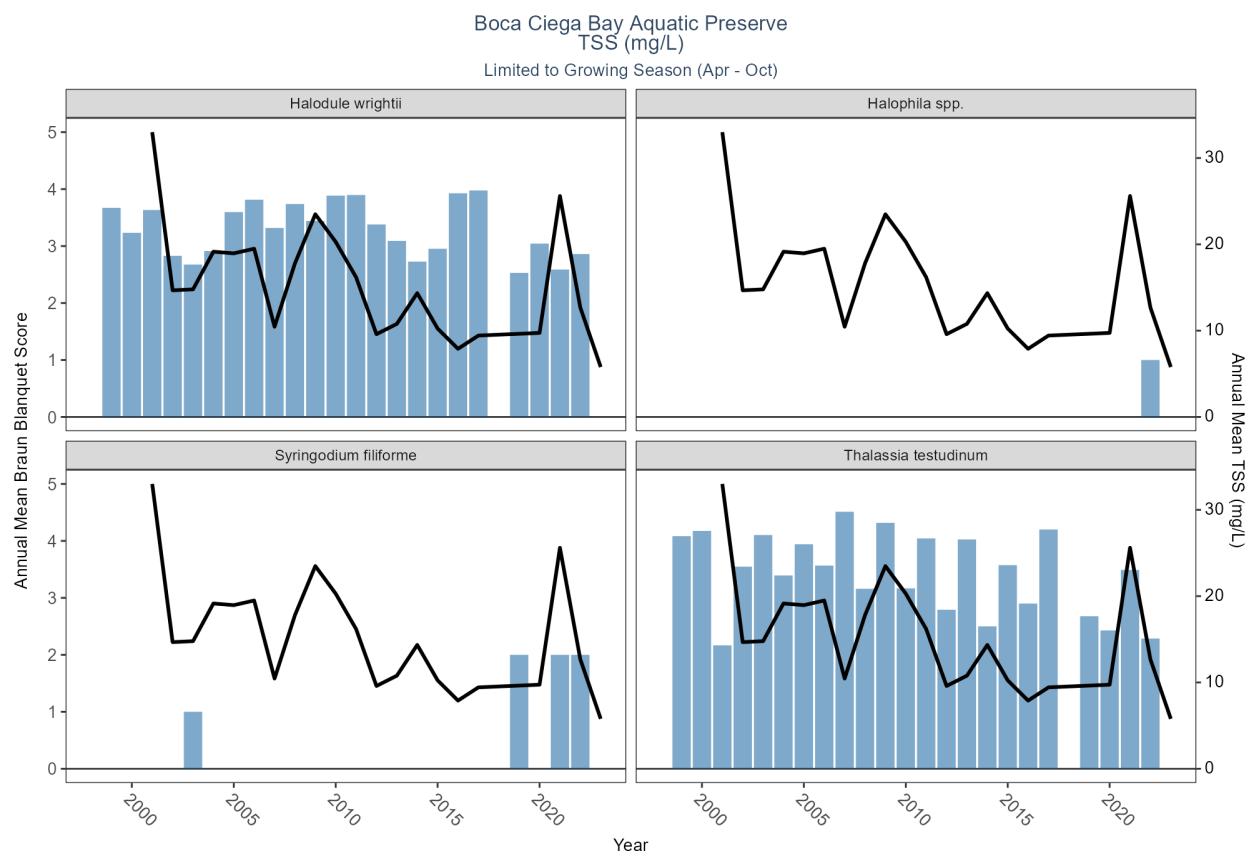


Table 144: WQ Summary for Total Suspended Solids in Boca Ciega Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	2001	33.000	33.00	16.0	50.0	24.042
TSS	2002	14.674	14.00	5.0	38.0	5.510
TSS	2003	14.782	13.00	4.0	48.0	6.882
TSS	2004	19.149	18.00	4.0	43.0	7.941
TSS	2005	18.957	17.00	6.0	40.0	8.600
TSS	2006	19.494	11.00	1.0	64.0	19.542
TSS	2007	10.453	9.50	5.0	25.0	3.817
TSS	2008	17.793	17.00	6.0	36.0	5.452
TSS	2009	23.485	23.00	5.0	45.0	8.866
TSS	2010	20.286	18.00	6.0	48.6	9.160
TSS	2011	16.189	11.25	5.5	45.0	10.945
TSS	2012	9.592	8.00	1.0	30.0	6.932
TSS	2013	10.786	10.00	3.0	24.0	4.068
TSS	2014	14.348	12.50	6.0	30.0	5.958
TSS	2015	10.243	10.00	1.0	29.0	4.722
TSS	2016	7.898	7.00	2.0	30.0	4.606
TSS	2017	9.431	8.00	1.0	47.0	7.162
TSS	2020	9.739	8.00	3.0	70.0	7.589
TSS	2021	25.606	13.00	4.3	930.0	91.847

ParameterName	Year	mean	median	min	max	sd
TSS	2022	12.676	12.00	5.6	23.0	3.600
TSS	2023	5.785	6.00	2.0	14.0	2.260

Programs contributing WQ Data:

Table 145: Programs contributing WQ data for Total Susepended Solids in Boca Ciega Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	103	2021	2021	87
TSS	5002	2001	2023	1656

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

5002 - Florida STORET / WIN

Turbidity

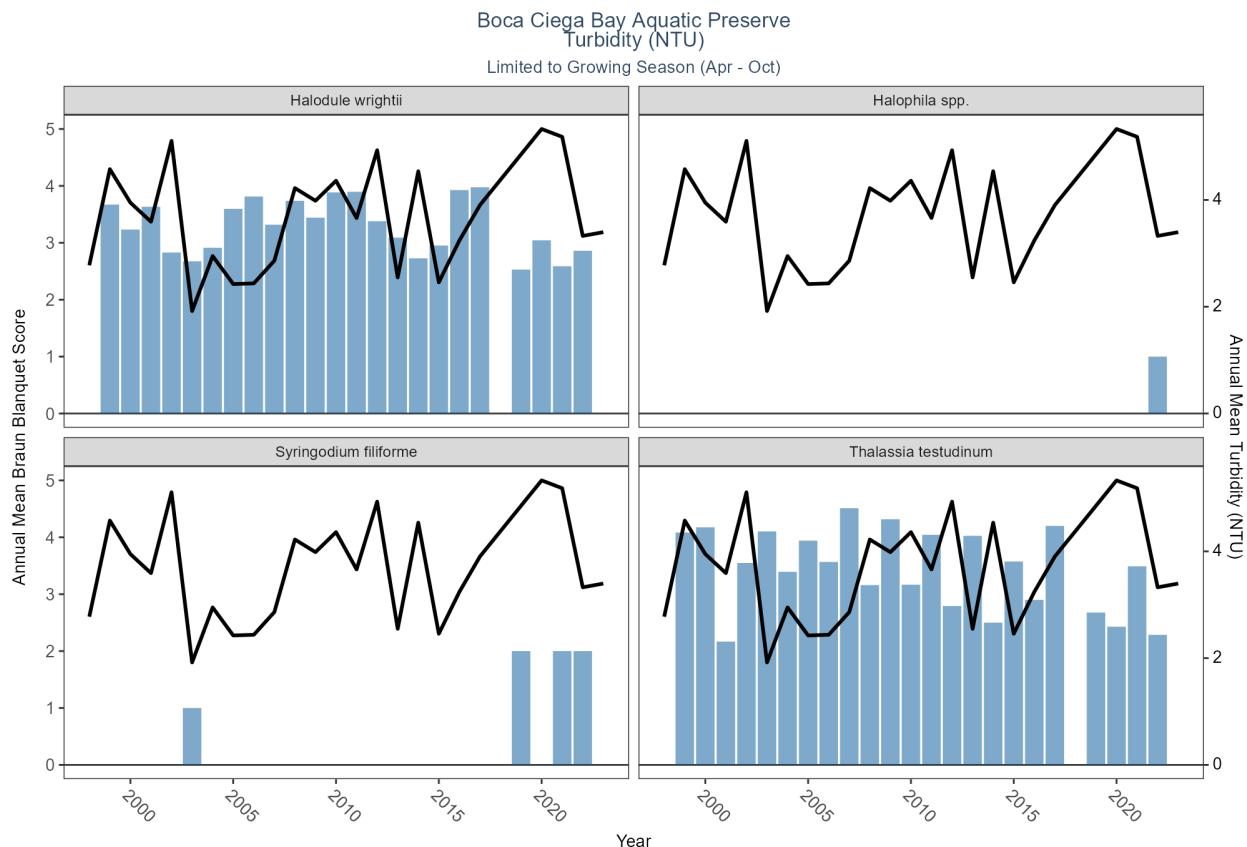


Table 146: WQ Summary for Turbidity in Boca Ciega Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	1998	2.776	1.950	0.12	23.0	3.024
Turbidity	1999	4.577	3.600	0.38	29.0	3.833
Turbidity	2000	3.949	3.000	0.20	34.0	3.694
Turbidity	2001	3.592	2.500	0.03	28.0	3.292
Turbidity	2002	5.107	4.550	0.37	18.0	3.670
Turbidity	2003	1.919	1.200	0.23	12.0	1.884
Turbidity	2004	2.949	2.600	0.75	8.8	1.447
Turbidity	2005	2.424	1.900	0.50	10.0	1.672
Turbidity	2006	2.437	1.900	0.30	12.0	1.746
Turbidity	2007	2.862	1.900	0.60	11.0	2.157
Turbidity	2008	4.222	3.200	1.00	25.0	2.953
Turbidity	2009	3.985	2.300	0.40	20.0	3.783
Turbidity	2010	4.360	3.100	0.80	19.0	3.281
Turbidity	2011	3.662	2.750	0.60	25.0	3.269
Turbidity	2012	4.932	4.200	1.20	15.0	2.772
Turbidity	2013	2.549	2.050	0.90	9.6	1.613
Turbidity	2014	4.538	4.300	1.20	9.9	1.867
Turbidity	2015	2.457	1.900	0.10	7.0	1.473
Turbidity	2016	3.241	2.600	0.50	14.0	2.388
Turbidity	2017	3.904	3.365	0.80	12.0	2.185
Turbidity	2020	5.329	4.300	1.30	18.0	3.542
Turbidity	2021	5.183	3.100	0.35	38.0	6.123
Turbidity	2022	3.326	3.000	0.80	8.0	1.780
Turbidity	2023	3.397	2.600	0.60	31.2	3.757

Programs contributing WQ Data:

Table 147: Programs contributing WQ data for Turbidity in Boca Ciega Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	103	2021	2021	87
Turbidity	5002	1995	2023	4612

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

5002 - Florida STORET / WIN

Water Temperature

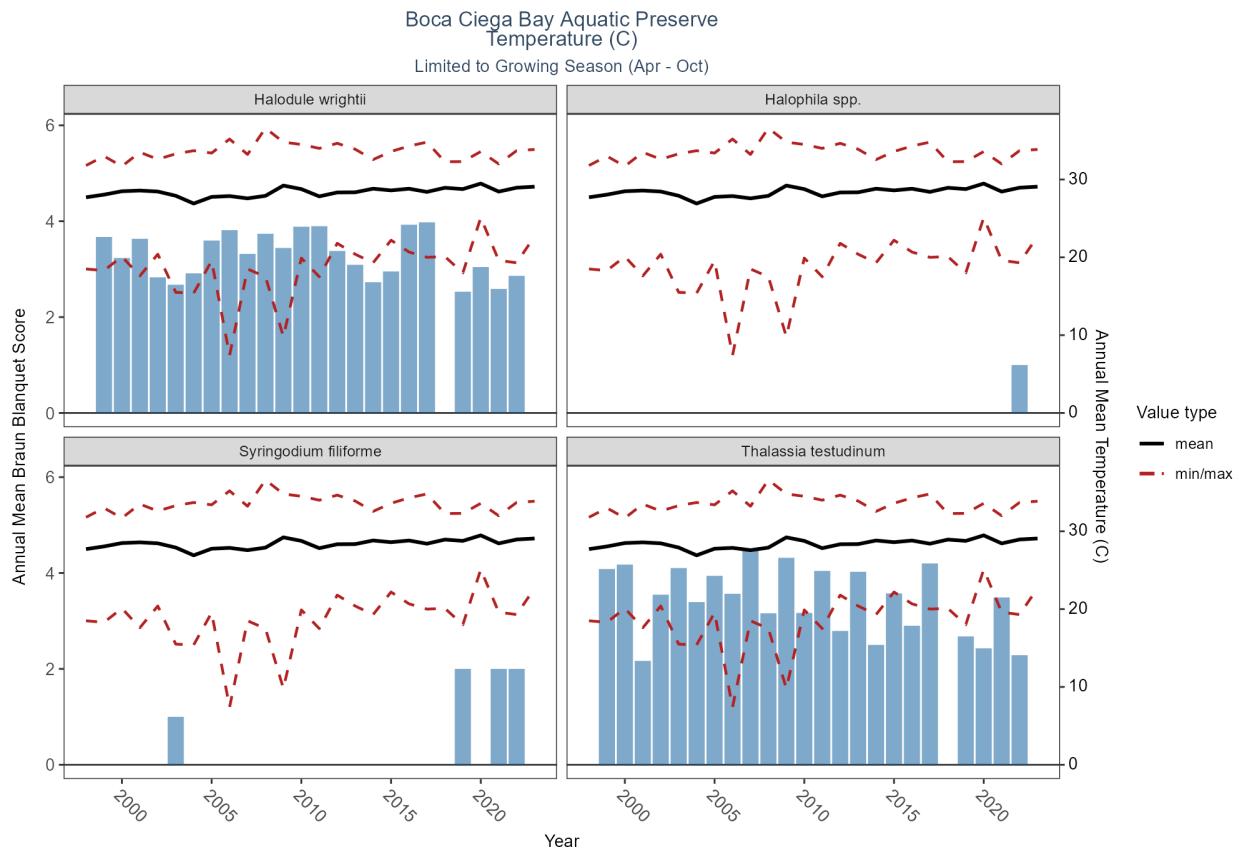


Table 148: WQ Summary for Water Temperature in Boca Ciega Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	1998	27.713	28.390	18.50	31.80	2.531
Temperature	1999	28.053	28.055	18.30	33.00	2.213
Temperature	2000	28.490	29.160	20.10	31.70	2.247
Temperature	2001	28.579	29.555	17.61	33.50	3.444
Temperature	2002	28.454	28.700	20.40	32.60	1.999
Temperature	2003	27.911	28.615	15.50	33.30	2.843
Temperature	2004	26.913	28.590	15.40	33.70	4.473
Temperature	2005	27.763	28.600	19.55	33.40	3.098
Temperature	2006	27.869	28.700	7.40	35.20	3.269
Temperature	2007	27.574	28.700	18.50	33.22	3.465
Temperature	2008	27.903	28.900	17.50	36.60	2.739
Temperature	2009	29.221	29.650	9.80	34.80	2.276
Temperature	2010	28.767	28.980	19.90	34.50	2.990
Temperature	2011	27.831	28.700	17.50	34.00	3.406
Temperature	2012	28.336	28.365	21.80	34.65	2.285
Temperature	2013	28.355	28.930	20.40	33.89	2.630
Temperature	2014	28.818	29.600	19.30	32.56	2.700
Temperature	2015	28.601	29.300	22.20	33.60	2.560
Temperature	2016	28.814	29.600	20.68	34.30	2.911

ParameterName	Year	mean	median	min	max	sd
Temperature	2017	28.406	29.100	20.00	34.80	3.516
Temperature	2018	28.937	29.400	20.10	32.28	2.189
Temperature	2019	28.769	29.000	18.00	32.30	2.381
Temperature	2020	29.478	29.700	25.10	33.59	2.187
Temperature	2021	28.444	29.000	19.60	32.00	2.384
Temperature	2022	28.948	29.345	19.30	33.71	2.460
Temperature	2023	29.077	28.995	22.70	33.86	2.629

Programs contributing WQ Data:

Table 149: Programs contributing WQ data for Water Temperature in Boca Ciega Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	1989	2022	6457
Temperature	95	1954	2018	629
Temperature	102	1992	1992	10
Temperature	103	2021	2021	237
Temperature	115	2000	2003	10
Temperature	118	2015	2015	2
Temperature	4067	1995	2022	5102
Temperature	5002	1995	2023	9051

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 102 - National Status and Trends Mussel Watch
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 4067 - Tampa Bay Benthic Monitoring
- 5002 - Florida STORET / WIN

Cape Haze Aquatic Preserve

Programs contributing SAV Data:

Table 150: Programs contributing SAV data in Cape Haze Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Braun Blanquet Score	570	1998	2023	1649

SAV Program names:

570 - Charlotte Harbor Seagrass Monitoring

Chlorophyll-a (corrected & uncorrected)

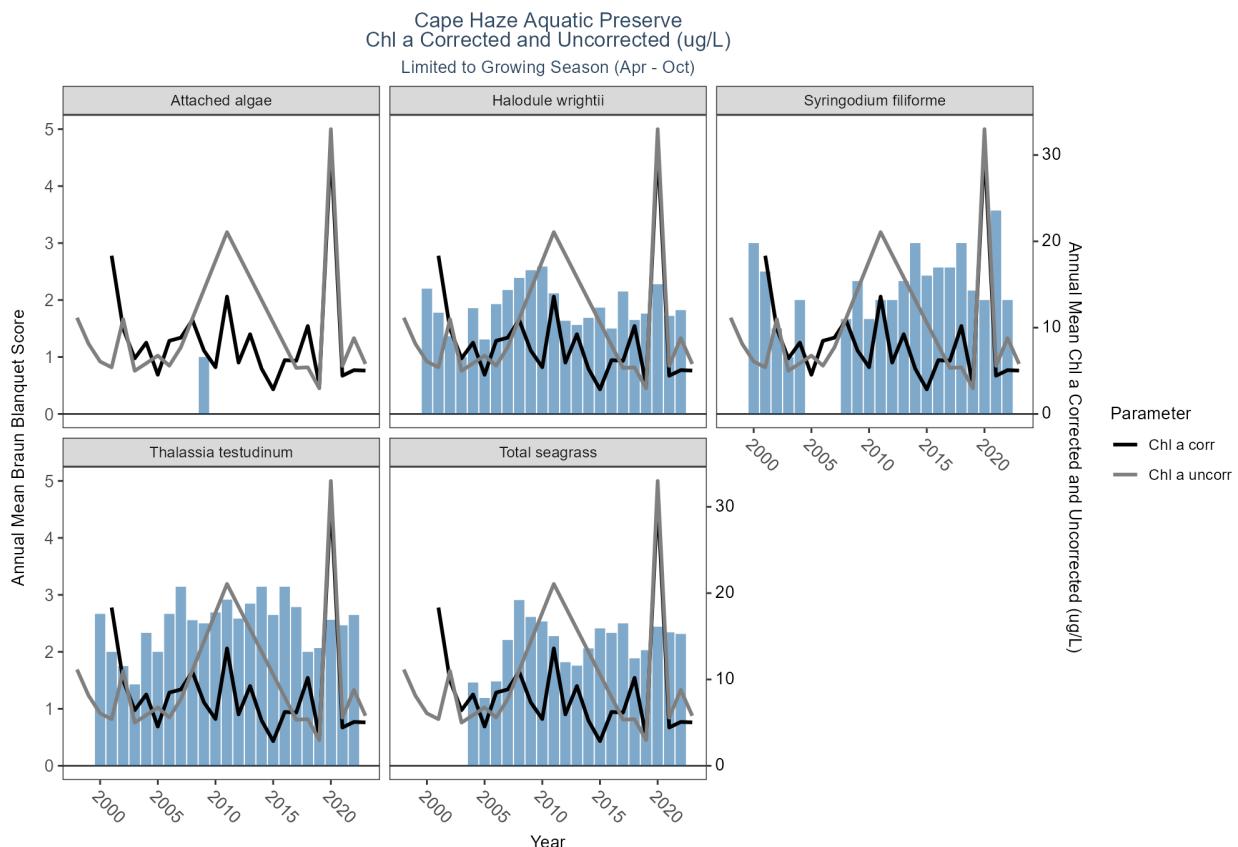


Table 151: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Cape Haze Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2001	18.333	13.500	1.000	43.00	12.700
Chl a corr	2002	9.886	5.000	1.000	25.00	8.570
Chl a corr	2003	6.438	5.340	1.000	19.20	4.958
Chl a corr	2004	8.262	5.500	2.010	33.50	7.650
Chl a corr	2005	4.540	3.740	1.000	17.00	4.043

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2006	8.476	6.000	1.000	29.00	6.824
Chl a corr	2007	8.840	8.000	1.000	28.00	6.536
Chl a corr	2008	10.883	6.850	1.000	61.40	11.816
Chl a corr	2009	7.348	5.830	0.864	25.60	4.804
Chl a corr	2010	5.414	5.480	0.620	9.35	3.092
Chl a corr	2011	13.600	6.600	4.800	41.00	12.159
Chl a corr	2012	5.950	6.600	3.000	7.60	1.946
Chl a corr	2013	9.240	7.000	1.800	17.00	6.911
Chl a corr	2014	5.240	3.800	3.100	9.10	2.381
Chl a corr	2015	2.850	2.850	2.200	3.50	0.751
Chl a corr	2016	6.234	5.410	2.670	15.00	3.239
Chl a corr	2017	6.159	3.800	1.710	36.20	7.705
Chl a corr	2018	10.190	6.515	0.589	40.90	10.399
Chl a corr	2019	3.413	3.000	0.250	8.34	2.382
Chl a corr	2020	31.000	31.000	31.000	31.00	NA
Chl a corr	2021	4.430	2.500	1.800	11.00	3.639
Chl a corr	2022	5.078	3.500	1.400	14.00	4.042
Chl a corr	2023	5.025	4.200	1.400	15.00	3.782
Chl a corr	2024	1.650	1.650	1.600	1.70	0.071
Chl a uncorr	1998	11.150	13.200	6.150	14.10	3.894
Chl a uncorr	1999	8.132	7.260	7.010	10.50	1.385
Chl a uncorr	2000	6.076	6.980	1.550	9.29	2.910
Chl a uncorr	2001	5.400	5.400	1.000	9.80	3.357
Chl a uncorr	2002	10.990	10.990	10.990	10.99	NA
Chl a uncorr	2003	5.000	5.000	5.000	5.00	0.000
Chl a uncorr	2004	5.870	5.870	3.330	8.41	2.933
Chl a uncorr	2005	6.762	5.890	3.430	13.20	3.673
Chl a uncorr	2006	5.593	6.230	2.340	8.21	2.671
Chl a uncorr	2007	7.720	6.900	3.900	12.50	3.607
Chl a uncorr	2011	21.067	20.000	5.200	46.00	15.552
Chl a uncorr	2017	5.337	3.990	2.700	9.32	3.509
Chl a uncorr	2018	5.400	5.400	2.500	8.30	3.349
Chl a uncorr	2019	2.967	3.400	1.800	3.70	0.914
Chl a uncorr	2020	33.000	33.000	33.000	33.00	NA
Chl a uncorr	2021	5.572	4.210	1.020	19.80	4.485
Chl a uncorr	2022	8.784	5.850	0.869	47.50	9.077
Chl a uncorr	2023	5.795	3.260	0.393	21.00	5.144
Chl a uncorr	2024	1.650	1.650	1.600	1.70	0.071

Programs contributing WQ Data:

Table 152: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Cape Haze Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	476	2008	2023	84
Chl a corr	513	2001	2010	222
Chl a corr	5002	2011	2023	56
Chl a corr	5028	2021	2024	29
Chl a uncorr	103	2002	2021	11
Chl a uncorr	476	1998	2023	86

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a uncorr	5002	2011	2023	102
Chl a uncorr	5028	2021	2024	29

WQ Program names:

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

Dissolved Oxygen

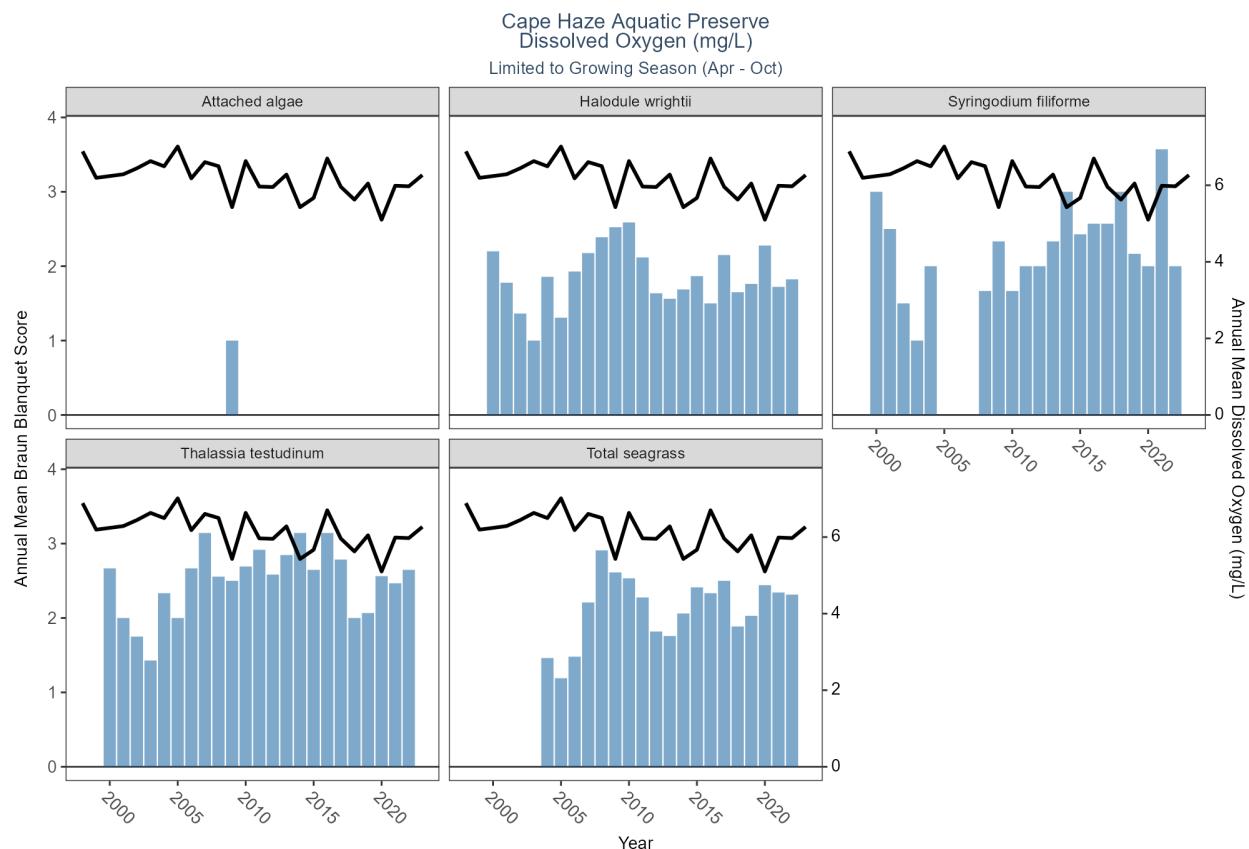


Table 153: WQ Summary for Dissolved Oxygen in Cape Haze Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	1998	6.886	6.850	3.00	13.70	1.882
Dissolved Oxygen	1999	6.194	6.300	0.90	10.90	1.725
Dissolved Oxygen	2000	6.240	6.300	1.20	10.60	1.541
Dissolved Oxygen	2001	6.287	6.305	0.20	12.40	2.186
Dissolved Oxygen	2002	6.445	6.300	1.70	14.50	1.732
Dissolved Oxygen	2003	6.631	6.400	1.40	13.10	1.891

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2004	6.495	6.525	0.40	12.00	1.801
Dissolved Oxygen	2005	7.012	7.000	2.00	12.80	1.865
Dissolved Oxygen	2006	6.181	6.300	1.10	12.10	1.869
Dissolved Oxygen	2007	6.605	6.675	1.20	13.80	2.156
Dissolved Oxygen	2008	6.499	6.440	2.70	12.70	1.679
Dissolved Oxygen	2009	5.428	5.800	0.53	10.60	1.859
Dissolved Oxygen	2010	6.632	6.800	0.40	11.60	1.972
Dissolved Oxygen	2011	5.966	6.200	2.10	14.60	2.246
Dissolved Oxygen	2012	5.954	5.840	3.10	14.90	1.733
Dissolved Oxygen	2013	6.280	6.190	1.70	11.20	1.746
Dissolved Oxygen	2014	5.428	5.400	0.40	12.30	2.456
Dissolved Oxygen	2015	5.669	5.600	0.90	13.30	1.702
Dissolved Oxygen	2016	6.700	6.720	1.70	14.90	2.060
Dissolved Oxygen	2017	5.961	5.800	1.10	13.90	1.993
Dissolved Oxygen	2018	5.625	5.600	1.30	12.30	1.874
Dissolved Oxygen	2019	6.046	5.900	0.50	17.60	2.580
Dissolved Oxygen	2020	5.101	5.200	0.70	12.30	2.486
Dissolved Oxygen	2021	5.988	5.990	0.20	12.54	2.283
Dissolved Oxygen	2022	5.973	6.100	0.20	13.90	2.311
Dissolved Oxygen	2023	6.266	6.320	2.54	9.63	1.308
Dissolved Oxygen	2024	7.440	7.440	7.44	7.44	NA

Programs contributing WQ Data:

Table 154: Programs contributing WQ data for Dissolved Oxygen in Cape Haze Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	1989	2022	4250
Dissolved Oxygen	95	1999	2018	243
Dissolved Oxygen	103	2021	2021	2
Dissolved Oxygen	476	1998	2021	136
Dissolved Oxygen	479	2001	2015	678
Dissolved Oxygen	513	2001	2010	482
Dissolved Oxygen	5002	1995	2023	1633
Dissolved Oxygen	5028	2022	2024	9

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 479 - Southwest Florida Water Management District - Water Quality Monitoring
- 513 - Coastal Charlotte Harbor Monitoring Network
- 5002 - Florida STORET / WIN
- 5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

pH

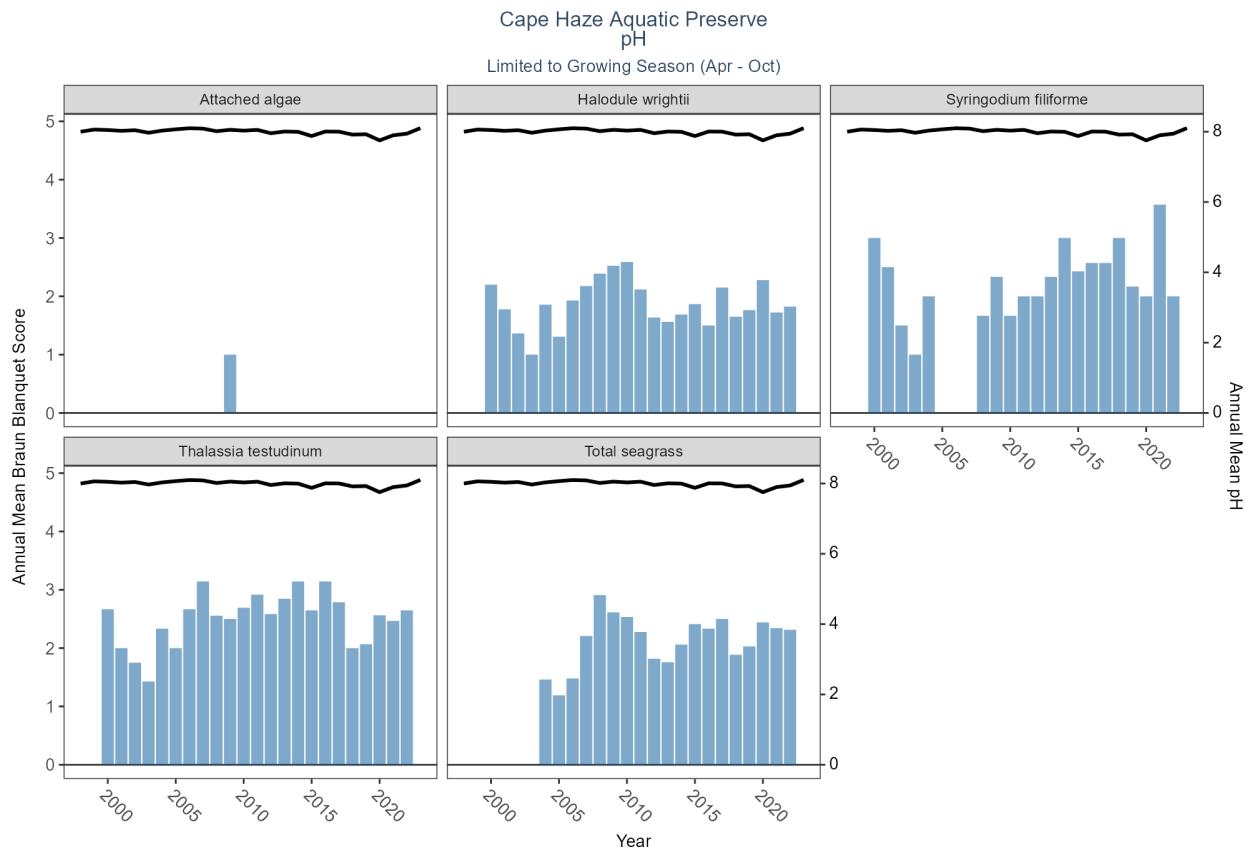


Table 155: WQ Summary for pH in Cape Haze Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	1998	7.999	7.900	7.50	8.70	0.284
pH	1999	8.060	8.000	7.30	8.80	0.251
pH	2000	8.048	8.100	7.00	8.60	0.237
pH	2001	8.024	8.050	7.20	8.60	0.240
pH	2002	8.042	8.025	7.30	8.60	0.244
pH	2003	7.970	7.945	7.33	8.90	0.216
pH	2004	8.031	8.050	7.34	8.60	0.244
pH	2005	8.067	8.050	7.40	8.60	0.242
pH	2006	8.098	8.100	6.80	8.70	0.277
pH	2007	8.087	8.100	7.70	8.60	0.194
pH	2008	8.014	8.000	7.00	8.70	0.215
pH	2009	8.053	8.100	7.20	8.60	0.206
pH	2010	8.030	8.100	7.20	8.50	0.224
pH	2011	8.052	8.100	7.30	8.84	0.272
pH	2012	7.956	8.000	6.60	8.50	0.345
pH	2013	8.005	8.080	7.20	8.70	0.274
pH	2014	7.996	8.100	6.10	8.70	0.413
pH	2015	7.876	7.900	6.82	8.60	0.291
pH	2016	8.004	8.100	4.90	8.60	0.391
pH	2017	8.001	8.000	7.00	10.10	0.458

ParameterName	Year	mean	median	min	max	sd
pH	2018	7.917	7.900	7.00	12.30	0.522
pH	2019	7.927	8.000	7.10	8.70	0.335
pH	2020	7.753	7.800	6.90	8.49	0.373
pH	2021	7.898	7.960	7.00	8.67	0.330
pH	2022	7.943	8.000	7.00	8.50	0.309
pH	2023	8.101	8.110	7.27	8.52	0.197
pH	2024	7.940	7.940	7.94	7.94	0.000

Programs contributing WQ Data:

Table 156: Programs contributing WQ data for pH in Cape Haze Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	1989	2022	4220
pH	95	2008	2018	246
pH	103	2021	2021	5
pH	476	1998	2023	170
pH	479	2001	2015	669
pH	513	2001	2010	483
pH	5002	1995	2023	1379
pH	5028	2021	2024	21

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

103 - EPA STOREage and RETrieval Data Warehouse (STORET)

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

479 - Southwest Florida Water Management District - Water Quality Monitoring

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

Salinity

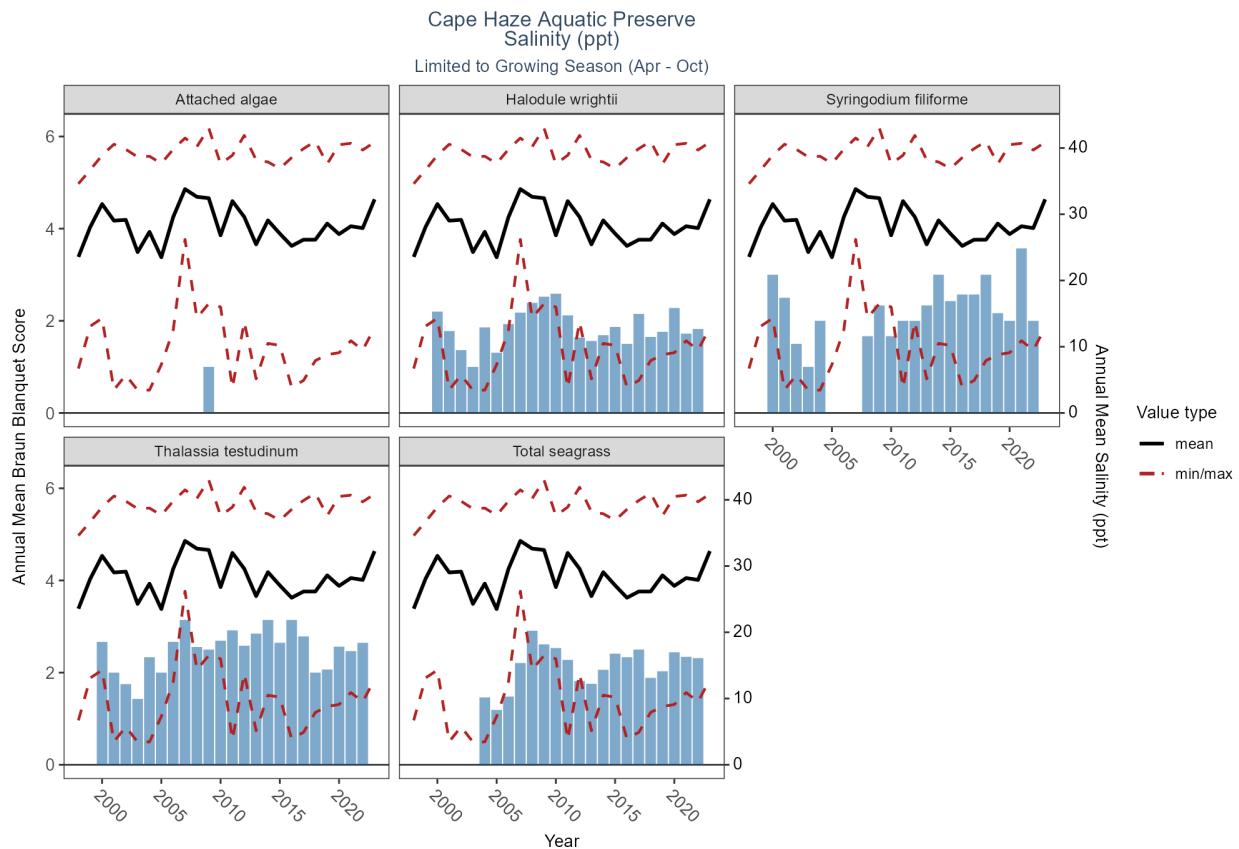


Table 157: WQ Summary for Salinity in Cape Haze Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	1998	23.558	23.80	6.70	34.60	6.032
Salinity	1999	28.076	29.75	13.10	36.70	5.417
Salinity	2000	31.543	33.20	14.30	38.90	5.262
Salinity	2001	29.032	31.40	3.50	40.57	8.304
Salinity	2002	29.156	30.40	5.72	39.80	6.639
Salinity	2003	24.284	26.25	3.44	38.64	8.174
Salinity	2004	27.344	29.50	3.45	38.75	7.558
Salinity	2005	23.508	24.20	7.30	37.67	7.466
Salinity	2006	29.573	30.21	12.50	39.80	5.479
Salinity	2007	33.798	34.33	26.20	41.50	3.004
Salinity	2008	32.630	34.10	14.36	40.20	5.033
Salinity	2009	32.430	32.65	16.50	43.00	5.372
Salinity	2010	26.822	26.40	16.00	37.60	4.683
Salinity	2011	31.987	32.35	3.80	38.90	4.179
Salinity	2012	29.595	29.36	13.76	41.90	5.584
Salinity	2013	25.452	29.10	5.15	38.20	8.881
Salinity	2014	29.075	29.80	10.50	37.89	4.759
Salinity	2015	27.082	29.10	10.20	36.90	7.066
Salinity	2016	25.216	25.60	3.90	38.55	6.616
Salinity	2017	26.155	26.30	4.90	39.90	7.535

ParameterName	Year	mean	median	min	max	sd
Salinity	2018	26.157	26.24	7.90	41.00	7.890
Salinity	2019	28.598	29.30	8.80	37.60	5.873
Salinity	2020	27.001	28.20	9.10	40.50	7.931
Salinity	2021	28.190	29.80	10.90	40.70	6.337
Salinity	2022	27.907	29.56	9.50	39.70	6.763
Salinity	2023	32.258	33.51	12.89	40.89	5.709
Salinity	2024	23.640	23.64	23.64	23.64	0.000

Programs contributing WQ Data:

Table 158: Programs contributing WQ data for Salinity in Cape Haze Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	1989	2022	4281
Salinity	95	1963	2018	304
Salinity	476	1998	2021	178
Salinity	479	2001	2015	665
Salinity	513	2001	2010	483
Salinity	5002	1995	2023	1772
Salinity	5028	2021	2024	21

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

479 - Southwest Florida Water Management District - Water Quality Monitoring

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

Secchi Depth

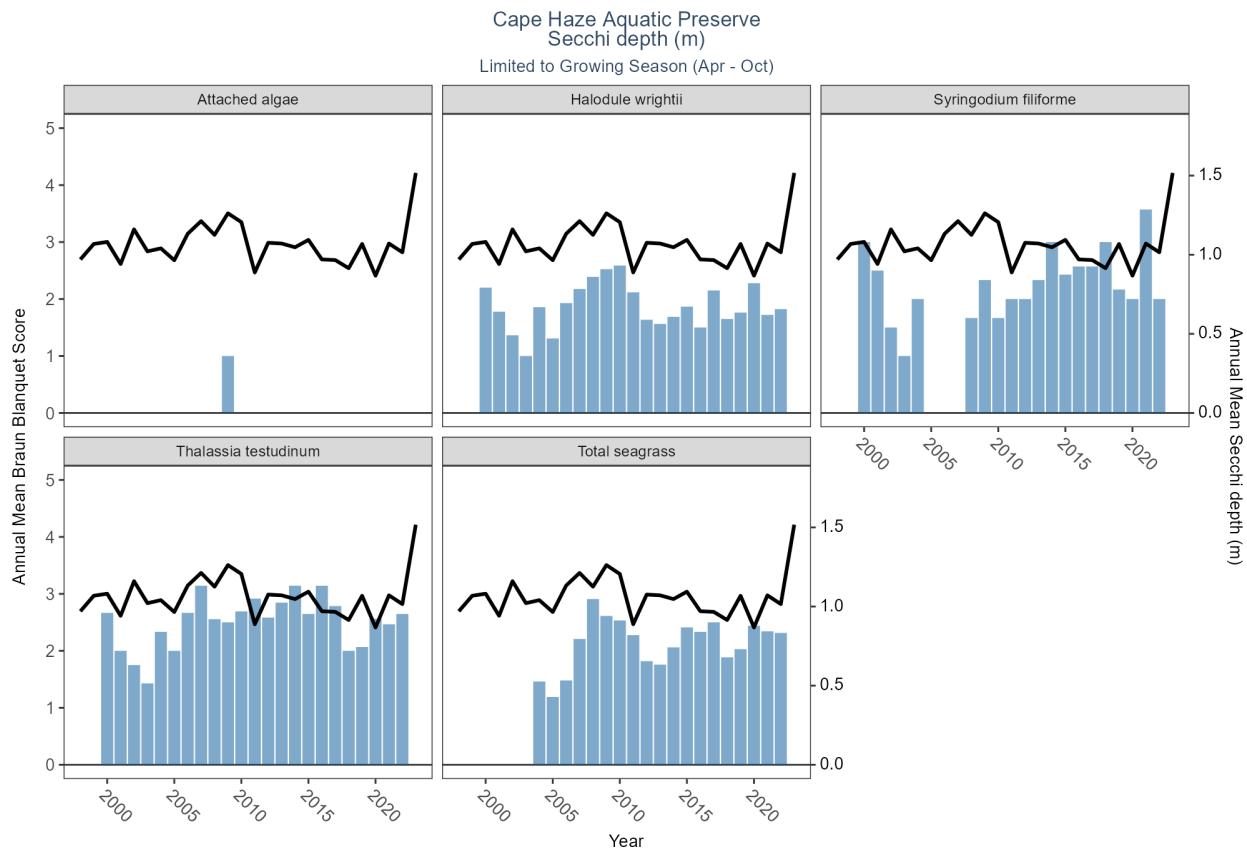


Table 159: WQ Summary for Secchi Depth in Cape Haze Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	1998	0.970	0.9	0.2	1.9	0.383
Secchi depth	1999	1.068	1.0	0.2	2.0	0.450
Secchi depth	2000	1.081	1.0	0.3	2.0	0.379
Secchi depth	2001	0.941	0.8	0.4	2.2	0.406
Secchi depth	2002	1.160	1.0	0.2	2.6	0.492
Secchi depth	2003	1.021	0.8	0.4	2.5	0.477
Secchi depth	2004	1.040	0.9	0.2	2.2	0.499
Secchi depth	2005	0.965	0.9	0.4	2.3	0.468
Secchi depth	2006	1.132	1.0	0.3	3.0	0.560
Secchi depth	2007	1.212	1.0	0.4	3.0	0.645
Secchi depth	2008	1.126	1.0	0.3	2.7	0.485
Secchi depth	2009	1.262	1.2	0.5	2.7	0.491
Secchi depth	2010	1.206	1.1	0.5	2.5	0.451
Secchi depth	2011	0.888	0.8	0.3	1.9	0.279
Secchi depth	2012	1.076	1.0	0.3	5.3	0.510
Secchi depth	2013	1.071	1.0	0.3	2.2	0.438
Secchi depth	2014	1.047	0.9	0.3	2.5	0.468
Secchi depth	2015	1.094	1.0	0.4	2.4	0.439
Secchi depth	2016	0.970	0.8	0.3	2.2	0.428
Secchi depth	2017	0.966	0.8	0.3	2.2	0.462

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2018	0.915	0.8	0.3	2.4	0.379
Secchi depth	2019	1.068	0.9	0.3	2.5	0.463
Secchi depth	2020	0.868	0.8	0.4	1.6	0.275
Secchi depth	2021	1.071	0.9	0.3	3.2	0.479
Secchi depth	2022	1.015	0.9	0.3	2.3	0.476
Secchi depth	2023	1.517	1.4	0.5	2.7	0.460
Secchi depth	2024	1.800	1.8	1.8	1.8	NA

Programs contributing WQ Data:

Table 160: Programs contributing WQ data for Secchi Depth in Cape Haze Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	1995	2022	4092
Secchi depth	103	2021	2021	2
Secchi depth	476	1998	2023	168
Secchi depth	479	2001	2015	398
Secchi depth	513	2001	2010	110
Secchi depth	5002	2008	2023	254
Secchi depth	5028	2023	2024	8

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

479 - Southwest Florida Water Management District - Water Quality Monitoring

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

Total Nitrogen & Total Phosphorus

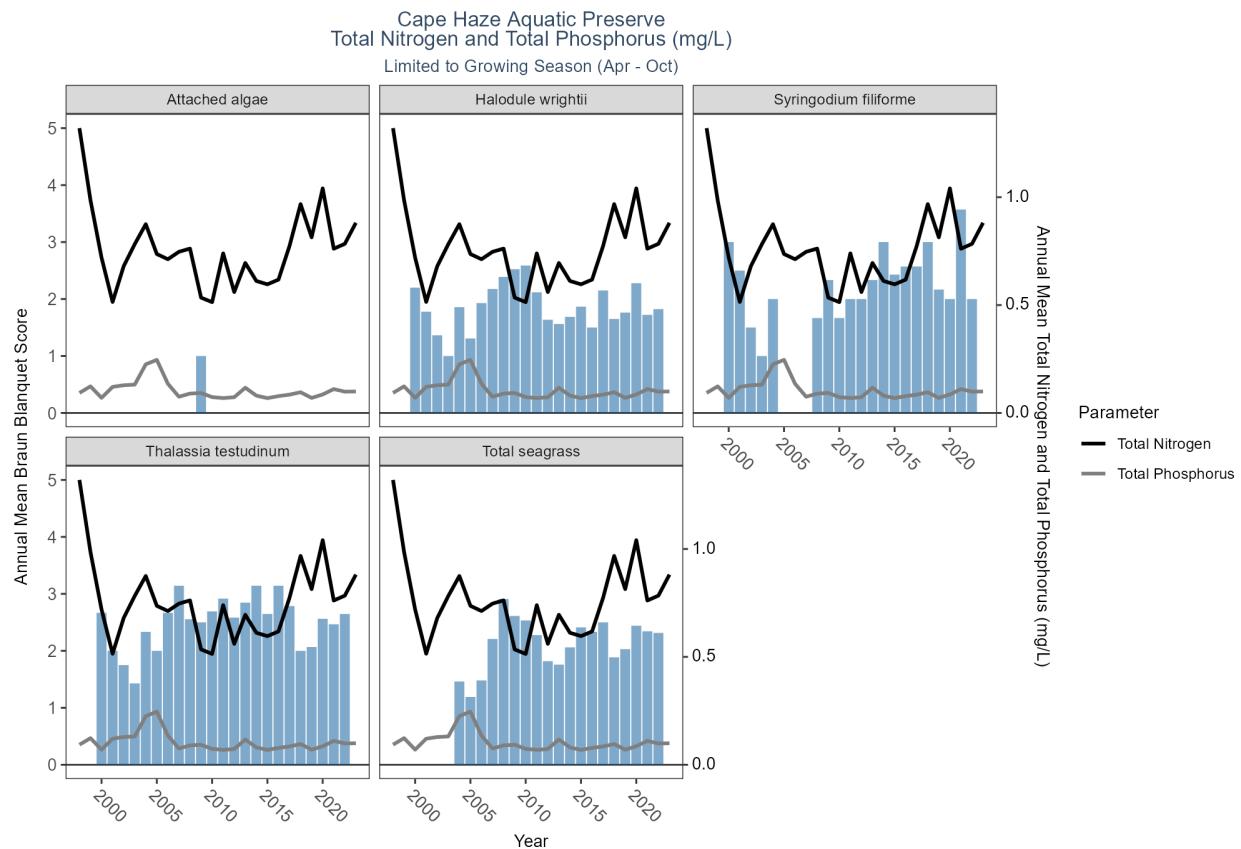


Table 161: WQ Summary for Total Nitrogen & Total Phosphorus in Cape Haze Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	1998	1.320	1.100	0.940	1.920	0.470
Total Nitrogen	1999	0.986	1.110	0.630	1.110	0.196
Total Nitrogen	2000	0.720	0.720	0.700	0.740	0.023
Total Nitrogen	2001	0.515	0.495	0.000	1.170	0.325
Total Nitrogen	2002	0.680	0.620	0.109	1.530	0.305
Total Nitrogen	2003	0.782	0.677	0.063	2.110	0.573
Total Nitrogen	2004	0.875	0.828	0.351	1.730	0.335
Total Nitrogen	2005	0.736	0.790	0.202	1.100	0.226
Total Nitrogen	2006	0.713	0.715	0.220	1.150	0.206
Total Nitrogen	2007	0.747	0.719	0.350	1.560	0.243
Total Nitrogen	2008	0.762	0.682	0.144	1.920	0.357
Total Nitrogen	2009	0.535	0.474	0.268	0.964	0.168
Total Nitrogen	2010	0.514	0.464	0.265	1.104	0.198
Total Nitrogen	2011	0.740	0.702	0.253	2.205	0.449
Total Nitrogen	2012	0.560	0.548	0.323	1.020	0.157
Total Nitrogen	2013	0.695	0.554	0.192	1.530	0.357
Total Nitrogen	2014	0.612	0.617	0.413	1.080	0.154
Total Nitrogen	2015	0.596	0.621	0.310	0.792	0.132
Total Nitrogen	2016	0.618	0.649	0.108	1.060	0.273

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2017	0.774	0.766	0.513	1.190	0.191
Total Nitrogen	2018	0.968	0.849	0.544	2.560	0.460
Total Nitrogen	2019	0.814	0.742	0.415	1.980	0.359
Total Nitrogen	2020	1.041	0.976	0.734	1.420	0.215
Total Nitrogen	2021	0.761	0.659	0.484	2.300	0.320
Total Nitrogen	2022	0.784	0.656	0.050	4.520	0.699
Total Nitrogen	2023	0.881	0.732	0.309	3.690	0.598
Total Nitrogen	2024	0.394	0.394	0.364	0.424	0.042
Total Phosphorus	1998	0.093	0.093	0.080	0.106	0.015
Total Phosphorus	1999	0.123	0.125	0.100	0.160	0.021
Total Phosphorus	2000	0.070	0.070	0.050	0.090	0.017
Total Phosphorus	2001	0.121	0.104	0.000	0.381	0.088
Total Phosphorus	2002	0.128	0.106	0.026	0.411	0.088
Total Phosphorus	2003	0.131	0.040	0.000	1.100	0.256
Total Phosphorus	2004	0.225	0.171	0.000	0.695	0.174
Total Phosphorus	2005	0.246	0.240	0.000	0.514	0.123
Total Phosphorus	2006	0.135	0.146	0.040	0.283	0.060
Total Phosphorus	2007	0.075	0.075	0.031	0.134	0.027
Total Phosphorus	2008	0.090	0.074	0.000	0.407	0.064
Total Phosphorus	2009	0.093	0.063	0.019	0.376	0.073
Total Phosphorus	2010	0.073	0.060	0.013	0.214	0.050
Total Phosphorus	2011	0.069	0.046	0.017	0.165	0.050
Total Phosphorus	2012	0.073	0.060	0.008	0.244	0.051
Total Phosphorus	2013	0.117	0.064	0.009	0.428	0.121
Total Phosphorus	2014	0.080	0.069	0.010	0.250	0.058
Total Phosphorus	2015	0.069	0.037	0.017	0.210	0.059
Total Phosphorus	2016	0.078	0.068	0.008	0.191	0.060
Total Phosphorus	2017	0.085	0.048	0.008	0.327	0.094
Total Phosphorus	2018	0.096	0.084	0.017	0.223	0.062
Total Phosphorus	2019	0.070	0.066	0.008	0.207	0.048
Total Phosphorus	2020	0.086	0.050	0.023	0.279	0.070
Total Phosphorus	2021	0.111	0.079	0.023	0.310	0.080
Total Phosphorus	2022	0.099	0.074	0.008	0.308	0.079
Total Phosphorus	2023	0.100	0.081	0.008	0.344	0.071
Total Phosphorus	2024	0.099	0.099	0.099	0.099	0.000

Programs contributing WQ Data:

Table 162: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Cape Haze Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	103	2002	2002	3
Total Nitrogen	476	1998	2023	142
Total Nitrogen	479	2007	2015	145
Total Nitrogen	513	2001	2010	212
Total Nitrogen	5002	2006	2023	177
Total Nitrogen	5028	2021	2024	27
Total Phosphorus	103	2002	2021	7
Total Phosphorus	476	1998	2023	156
Total Phosphorus	479	2007	2015	144

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Phosphorus	513	2001	2010	223
Total Phosphorus	5002	2008	2023	174
Total Phosphorus	5028	2021	2024	28

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

479 - Southwest Florida Water Management District - Water Quality Monitoring

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

Total Suspended Solids

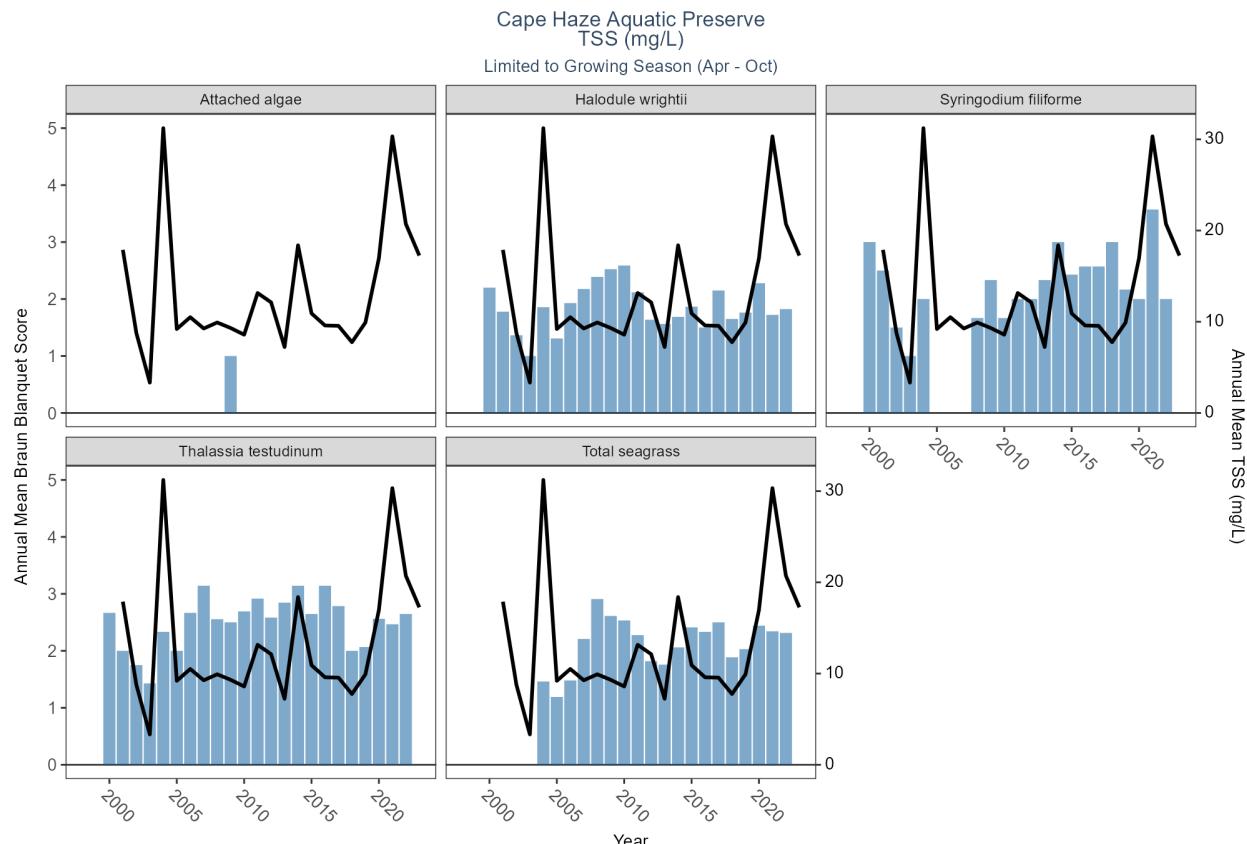


Table 163: WQ Summary for Total Suspended Solids in Cape Haze Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	2001	17.883	17.250	7.90	43.3	8.568
TSS	2002	8.770	8.700	5.70	12.3	2.051
TSS	2003	3.326	2.000	2.00	16.0	3.250
TSS	2004	31.227	9.000	2.00	177.0	53.424

ParameterName	Year	mean	median	min	max	sd
TSS	2005	9.204	7.330	2.67	27.3	6.021
TSS	2006	10.500	10.600	4.50	19.4	4.231
TSS	2007	9.262	9.400	3.00	19.0	4.714
TSS	2008	9.918	8.300	3.00	27.9	5.453
TSS	2009	9.313	7.800	4.53	22.0	4.176
TSS	2010	8.585	8.760	1.60	22.8	4.378
TSS	2011	13.154	12.000	7.40	26.2	4.970
TSS	2012	12.127	8.355	2.89	29.8	8.871
TSS	2013	7.231	7.265	2.87	13.7	3.179
TSS	2014	18.386	15.850	3.78	42.3	11.199
TSS	2015	10.916	11.600	3.78	15.9	3.077
TSS	2016	9.591	8.000	3.56	27.8	6.727
TSS	2017	9.553	8.000	3.33	24.4	6.876
TSS	2018	7.757	6.750	1.33	15.5	4.195
TSS	2019	9.914	7.000	4.20	30.8	6.538
TSS	2020	16.960	11.600	5.20	58.7	15.900
TSS	2021	30.329	31.000	9.33	53.6	11.319
TSS	2022	20.725	17.800	8.26	43.6	9.857
TSS	2023	17.257	19.200	3.00	32.0	8.284

Programs contributing WQ Data:

Table 164: Programs contributing WQ data for Total Susepended Solids in Cape Haze Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	479	2007	2015	145
TSS	513	2001	2010	207
TSS	5002	2006	2023	173

WQ Program names:

479 - Southwest Florida Water Management District - Water Quality Monitoring

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

Turbidity

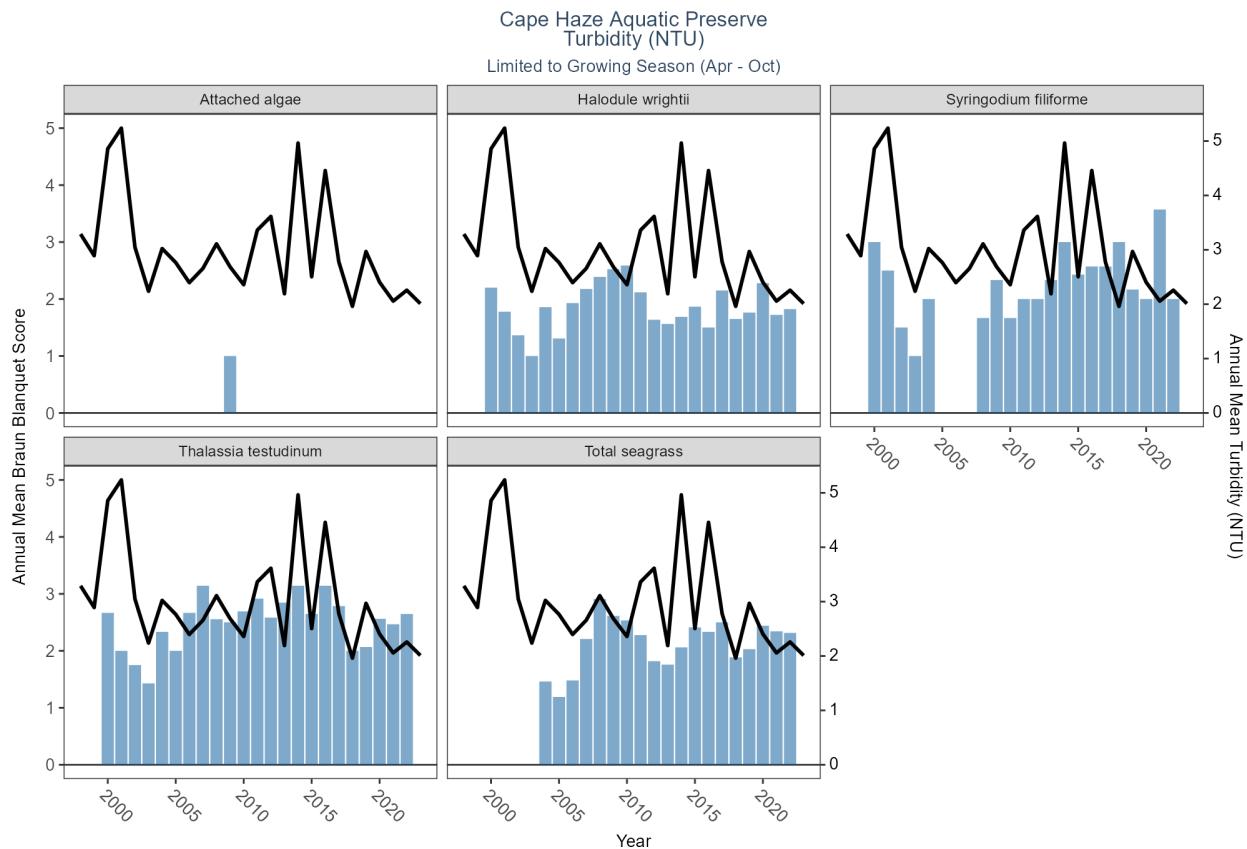


Table 165: WQ Summary for Turbidity in Cape Haze Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	1998	3.290	2.85	1.80	7.00	1.124
Turbidity	1999	2.892	2.60	0.66	8.10	1.455
Turbidity	2000	4.858	2.90	0.29	19.00	4.303
Turbidity	2001	5.238	4.40	0.10	14.20	3.305
Turbidity	2002	3.048	2.80	0.48	9.60	1.804
Turbidity	2003	2.238	2.00	0.29	10.00	1.465
Turbidity	2004	3.023	2.60	0.77	7.51	1.613
Turbidity	2005	2.766	2.30	0.80	13.00	1.893
Turbidity	2006	2.397	2.20	0.70	5.70	1.146
Turbidity	2007	2.657	1.90	0.40	32.00	3.991
Turbidity	2008	3.109	2.70	0.90	7.70	1.664
Turbidity	2009	2.687	2.30	0.70	24.00	2.293
Turbidity	2010	2.359	2.00	0.65	8.20	1.369
Turbidity	2011	3.362	2.60	0.90	10.00	2.013
Turbidity	2012	3.614	2.75	1.00	11.00	2.482
Turbidity	2013	2.192	2.10	1.10	4.20	0.755
Turbidity	2014	4.963	3.75	1.70	14.00	3.536
Turbidity	2015	2.505	2.30	1.00	5.10	1.183
Turbidity	2016	4.457	3.20	0.70	18.00	4.789
Turbidity	2017	2.779	1.90	1.00	9.50	1.946

ParameterName	Year	mean	median	min	max	sd
Turbidity	2018	1.961	1.65	0.80	4.10	0.867
Turbidity	2019	2.969	2.15	0.85	11.00	2.493
Turbidity	2020	2.404	2.10	1.10	5.40	1.111
Turbidity	2021	2.057	1.51	0.70	9.97	1.588
Turbidity	2022	2.257	1.65	0.70	5.30	1.310
Turbidity	2023	2.010	1.80	0.64	4.40	1.022

Programs contributing WQ Data:

Table 166: Programs contributing WQ data for Turbidity in Cape Haze Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	103	2021	2021	2
Turbidity	476	1999	2023	166
Turbidity	479	2001	2015	229
Turbidity	513	2001	2010	223
Turbidity	5002	1995	2023	1089

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

479 - Southwest Florida Water Management District - Water Quality Monitoring

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

Water Temperature

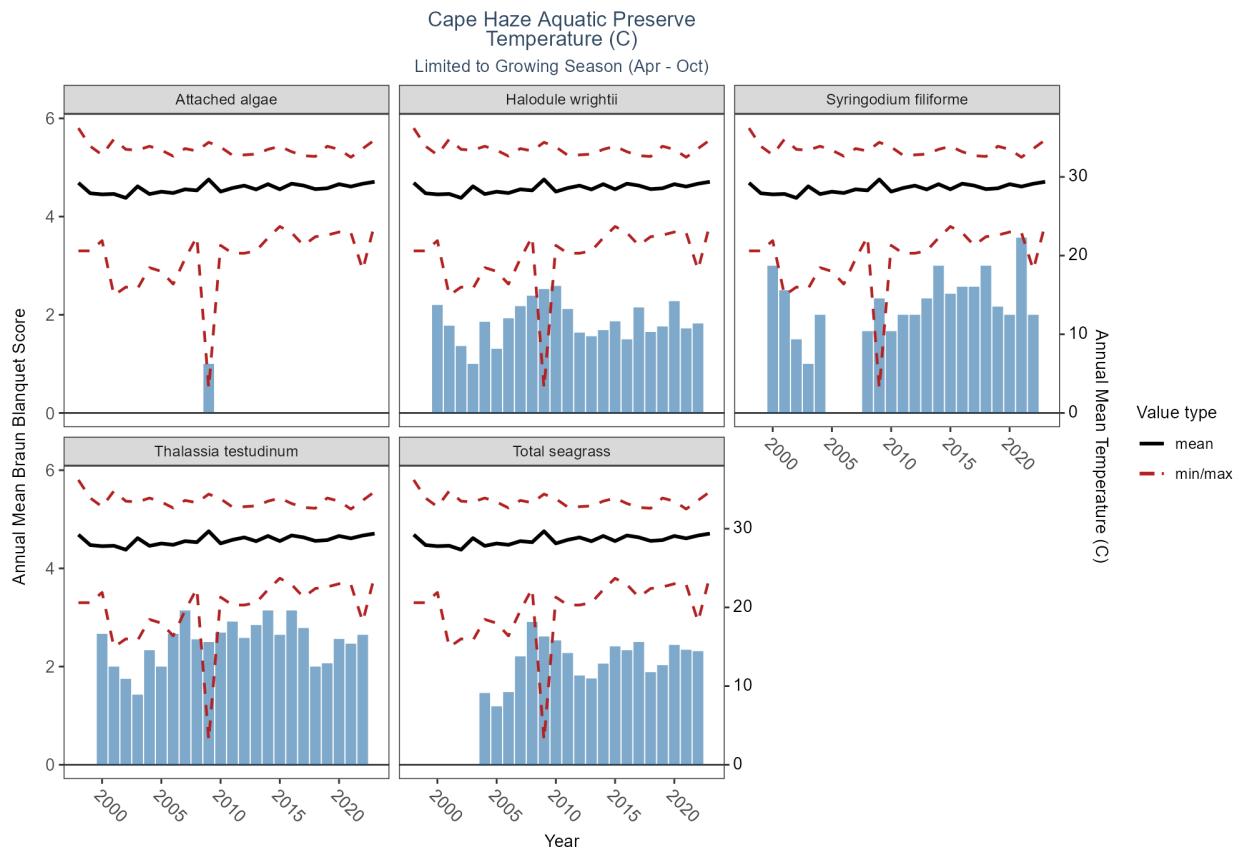


Table 167: WQ Summary for Water Temperature in Cape Haze Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	1998	29.245	29.200	20.60	36.20	2.713
Temperature	1999	27.923	28.150	20.60	33.90	2.950
Temperature	2000	27.781	28.300	21.90	32.80	2.931
Temperature	2001	27.833	28.700	14.95	34.80	3.215
Temperature	2002	27.333	28.200	16.00	33.50	3.648
Temperature	2003	28.804	29.530	15.82	33.40	2.782
Temperature	2004	27.822	28.700	18.47	33.90	3.115
Temperature	2005	28.122	28.725	18.00	33.40	3.445
Temperature	2006	27.954	28.300	16.38	32.64	2.822
Temperature	2007	28.424	28.550	19.60	33.60	2.965
Temperature	2008	28.286	29.260	22.40	33.30	2.430
Temperature	2009	29.679	30.190	3.10	34.40	2.315
Temperature	2010	28.132	29.090	21.30	33.80	3.218
Temperature	2011	28.588	29.250	20.30	32.76	2.612
Temperature	2012	28.895	29.200	20.30	32.80	1.981
Temperature	2013	28.410	28.400	20.60	32.90	2.146
Temperature	2014	29.079	29.900	22.25	33.50	2.772
Temperature	2015	28.429	28.825	23.70	33.90	2.088
Temperature	2016	29.142	29.700	22.90	33.20	2.407

ParameterName	Year	mean	median	min	max	sd
Temperature	2017	28.903	28.700	21.30	32.70	2.148
Temperature	2018	28.450	28.900	22.40	32.60	2.346
Temperature	2019	28.554	28.700	22.60	33.90	2.202
Temperature	2020	29.077	29.200	23.00	33.50	2.251
Temperature	2021	28.774	29.100	22.90	32.50	2.337
Temperature	2022	29.135	30.000	18.20	33.60	2.988
Temperature	2023	29.380	29.800	24.00	34.70	3.089
Temperature	2024	23.600	23.600	23.60	23.60	NA

Programs contributing WQ Data:

Table 168: Programs contributing WQ data for Water Temperature in Cape Haze Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	1989	2022	4281
Temperature	95	1963	2018	294
Temperature	103	2021	2021	5
Temperature	476	1998	2023	184
Temperature	479	2001	2015	678
Temperature	513	2001	2010	483
Temperature	5002	1995	2023	1788
Temperature	5028	2021	2024	17

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

479 - Southwest Florida Water Management District - Water Quality Monitoring

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

Cockroach Bay Aquatic Preserve

Programs contributing SAV Data:

Table 169: Programs contributing SAV data in Cockroach Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Braun Blanquet Score	565	2000	2023	1791

SAV Program names:

565 - Tampa Bay Seagrass Monitoring

Chlorophyll-a (corrected & uncorrected)

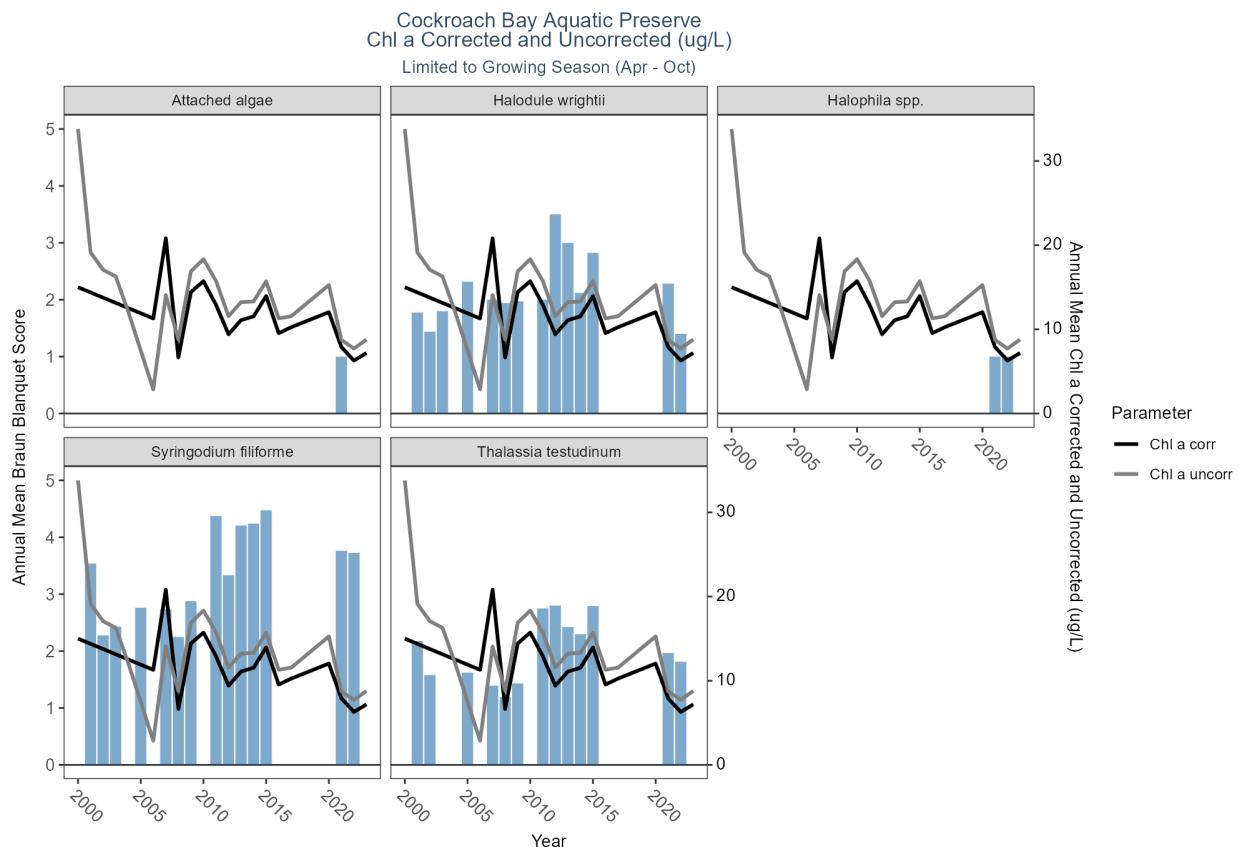


Table 170: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Cockroach Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2000	15.000	15.000	15.00	15.000	NA
Chl a corr	2006	11.291	3.050	0.85	60.000	17.277
Chl a corr	2007	20.816	12.000	0.85	120.000	23.471
Chl a corr	2008	6.643	5.000	1.90	14.100	4.029
Chl a corr	2009	14.426	5.600	2.00	163.400	27.758

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2010	15.721	10.400	2.30	95.900	17.100
Chl a corr	2011	12.918	7.150	3.10	85.800	15.046
Chl a corr	2012	9.412	7.000	3.00	38.300	7.522
Chl a corr	2013	11.091	8.900	1.60	32.300	7.143
Chl a corr	2014	11.539	8.950	2.80	30.200	7.018
Chl a corr	2015	13.955	9.100	2.40	78.200	16.592
Chl a corr	2016	9.543	7.000	3.40	34.100	7.598
Chl a corr	2017	10.253	9.600	3.40	30.300	6.868
Chl a corr	2020	12.038	11.600	1.50	34.400	10.080
Chl a corr	2021	7.897	4.600	1.70	34.400	8.121
Chl a corr	2022	6.290	4.800	1.50	18.100	4.036
Chl a corr	2023	7.190	5.250	2.00	23.500	5.225
Chl a corr	2024	7.200	5.700	4.00	19.000	4.591
Chl a uncorr	2000	33.800	14.500	2.70	179.500	50.217
Chl a uncorr	2001	19.139	9.400	3.10	74.100	19.533
Chl a uncorr	2002	17.071	10.000	3.10	82.600	20.675
Chl a uncorr	2003	16.290	13.385	2.45	37.520	12.419
Chl a uncorr	2004	12.118	10.979	2.40	29.563	7.736
Chl a uncorr	2006	2.871	3.300	1.80	3.800	0.871
Chl a uncorr	2007	14.072	7.200	3.10	64.000	15.133
Chl a uncorr	2008	8.779	6.700	3.20	17.500	4.817
Chl a uncorr	2009	16.886	7.200	3.00	178.800	30.538
Chl a uncorr	2010	18.334	13.600	3.30	93.800	16.732
Chl a uncorr	2011	15.759	9.900	4.30	91.300	15.936
Chl a uncorr	2012	11.563	9.400	3.10	45.400	8.539
Chl a uncorr	2013	13.225	10.800	1.70	38.000	8.246
Chl a uncorr	2014	13.306	10.350	3.00	33.300	7.831
Chl a uncorr	2015	15.712	10.500	2.50	84.700	17.973
Chl a uncorr	2016	11.300	8.100	2.00	39.900	8.813
Chl a uncorr	2017	11.553	11.000	2.30	33.600	7.894
Chl a uncorr	2020	15.263	14.350	2.00	44.700	12.971
Chl a uncorr	2021	8.740	6.200	1.80	41.800	7.976
Chl a uncorr	2022	7.714	5.900	2.20	22.800	4.729
Chl a uncorr	2023	8.791	6.050	2.40	25.500	5.588
Chl a uncorr	2024	8.880	7.650	4.80	21.600	5.155

Programs contributing WQ Data:

Table 171: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Cockroach Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	5002	2000	2024	507
Chl a uncorr	103	2021	2021	28
Chl a uncorr	514	2001	2001	4
Chl a uncorr	5002	1999	2024	545

WQ Program names:

5002 - Florida STORET / WIN

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

514 - Florida LAKEWATCH Program

Colored Dissolved Organic Matter

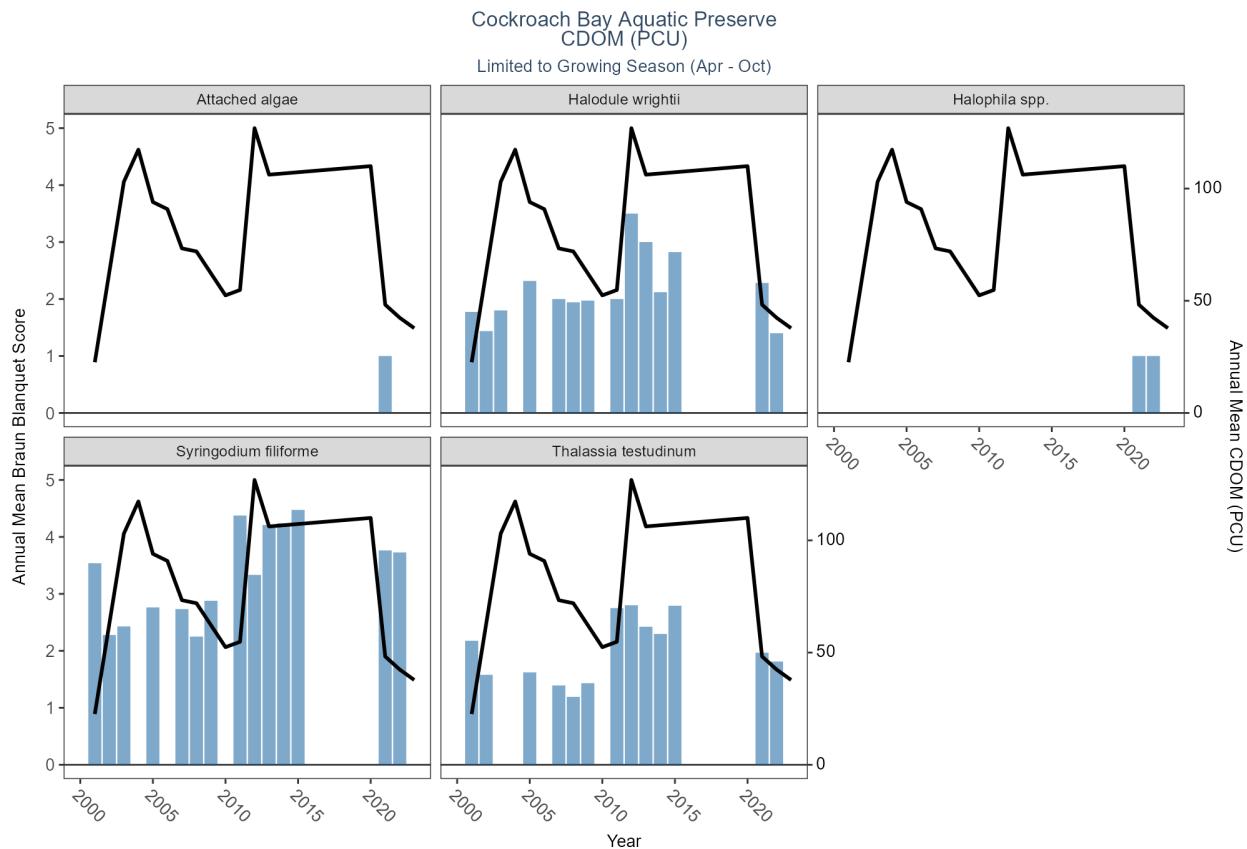


Table 172: WQ Summary for Colored Dissolved Organic Matter in Cockroach Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
CDOM	2001	22.600	13.00	9.0	63.0	22.689
CDOM	2003	103.000	103.00	103.0	103.0	NA
CDOM	2004	117.333	127.00	35.0	190.0	77.951
CDOM	2005	94.000	91.50	65.0	138.0	25.028
CDOM	2006	90.833	47.00	20.0	195.0	80.176
CDOM	2007	73.333	90.00	30.0	103.0	31.361
CDOM	2008	72.000	41.50	32.0	137.0	47.869
CDOM	2010	52.412	36.00	26.0	115.0	31.587
CDOM	2011	54.800	51.00	41.0	69.0	13.008
CDOM	2012	126.933	149.00	28.0	218.0	62.646
CDOM	2013	106.200	114.00	34.0	188.0	55.633
CDOM	2020	110.000	110.00	110.0	110.0	NA
CDOM	2021	48.264	55.65	20.8	94.0	21.245
CDOM	2022	42.434	32.90	11.3	80.4	24.395
CDOM	2023	37.789	29.20	11.9	81.5	22.435
CDOM	2024	19.410	17.60	8.6	32.5	8.052

Programs contributing WQ Data:

Table 173: Programs contributing WQ data for Colored Dissolved Organic Matter in Cockroach Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
CDOM	103	2021	2021	8
CDOM	514	2001	2013	90
CDOM	5002	2020	2024	95

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

514 - Florida LAKEWATCH Program

5002 - Florida STORET / WIN

Dissolved Oxygen

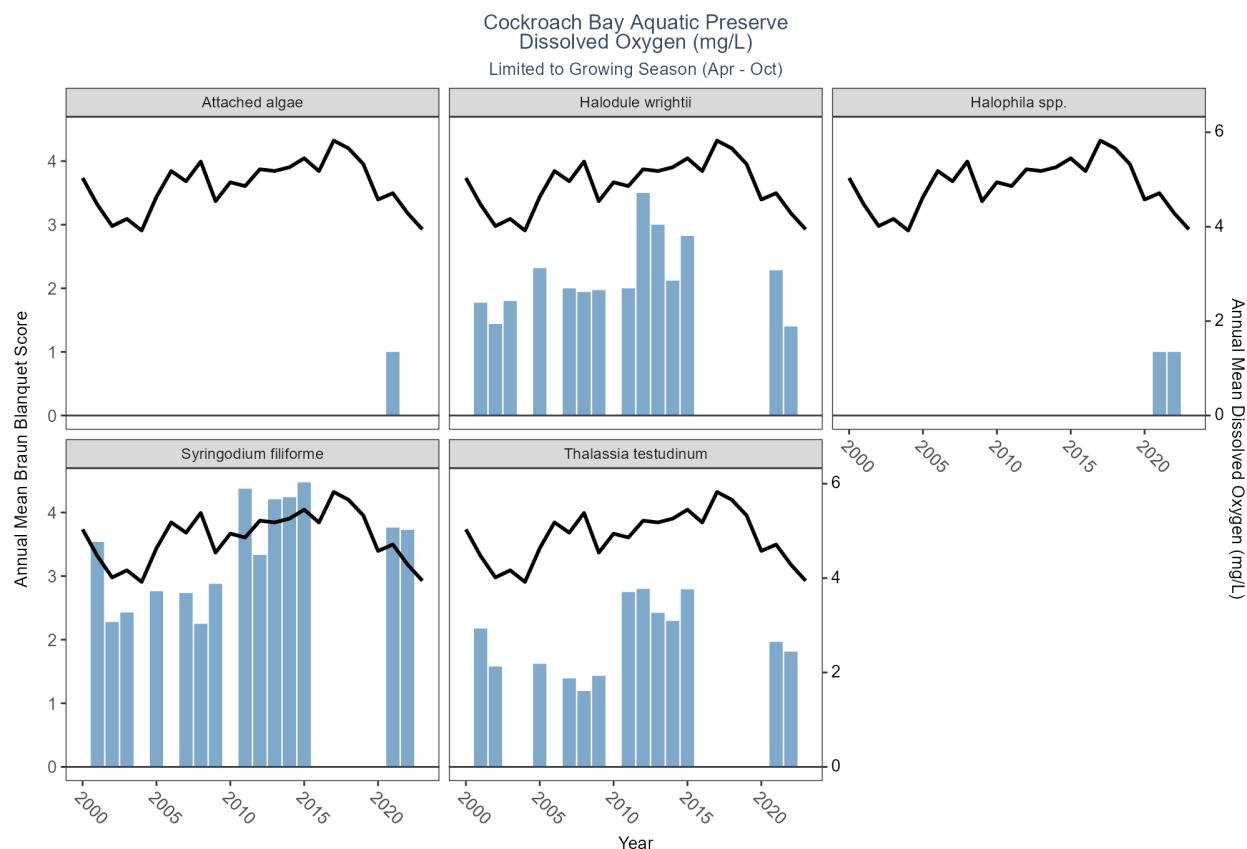


Table 174: WQ Summary for Dissolved Oxygen in Cockroach Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2000	5.033	4.900	1.60	13.60	1.791
Dissolved Oxygen	2001	4.468	4.300	0.30	10.10	1.859
Dissolved Oxygen	2002	4.014	3.900	0.06	11.20	1.828
Dissolved Oxygen	2003	4.165	4.130	0.30	10.70	1.558
Dissolved Oxygen	2004	3.920	3.740	0.10	12.30	1.184

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2005	4.633	4.055	0.60	13.40	1.777
Dissolved Oxygen	2006	5.180	4.800	0.23	14.70	1.956
Dissolved Oxygen	2007	4.963	4.800	0.50	13.00	1.967
Dissolved Oxygen	2008	5.381	5.000	0.73	14.70	2.010
Dissolved Oxygen	2009	4.541	4.330	0.20	14.10	1.401
Dissolved Oxygen	2010	4.942	4.720	1.40	13.10	1.475
Dissolved Oxygen	2011	4.861	4.600	1.20	16.00	1.816
Dissolved Oxygen	2012	5.217	5.140	0.60	15.20	1.480
Dissolved Oxygen	2013	5.180	4.800	1.90	11.20	1.632
Dissolved Oxygen	2014	5.260	4.950	1.20	12.80	1.598
Dissolved Oxygen	2015	5.450	5.000	1.61	20.20	1.956
Dissolved Oxygen	2016	5.179	4.800	2.26	15.30	1.477
Dissolved Oxygen	2017	5.825	5.400	1.20	12.50	1.988
Dissolved Oxygen	2018	5.660	5.500	0.40	15.20	2.039
Dissolved Oxygen	2019	5.328	5.200	1.70	15.20	1.636
Dissolved Oxygen	2020	4.576	4.500	0.60	8.70	1.333
Dissolved Oxygen	2021	4.711	4.600	0.30	15.18	1.391
Dissolved Oxygen	2022	4.287	4.200	1.01	10.70	1.084
Dissolved Oxygen	2023	3.945	3.905	1.55	6.48	0.923
Dissolved Oxygen	2024	4.325	3.815	2.27	6.89	1.182

Programs contributing WQ Data:

Table 175: Programs contributing WQ data for Dissolved Oxygen in Cockroach Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	1989	2022	8364
Dissolved Oxygen	95	2005	2013	4
Dissolved Oxygen	103	2021	2021	25
Dissolved Oxygen	118	2015	2015	2
Dissolved Oxygen	4067	1993	2022	4024
Dissolved Oxygen	5002	1999	2024	3960

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

4067 - Tampa Bay Benthic Monitoring

5002 - Florida STORET / WIN

Dissolved Oxygen Saturation

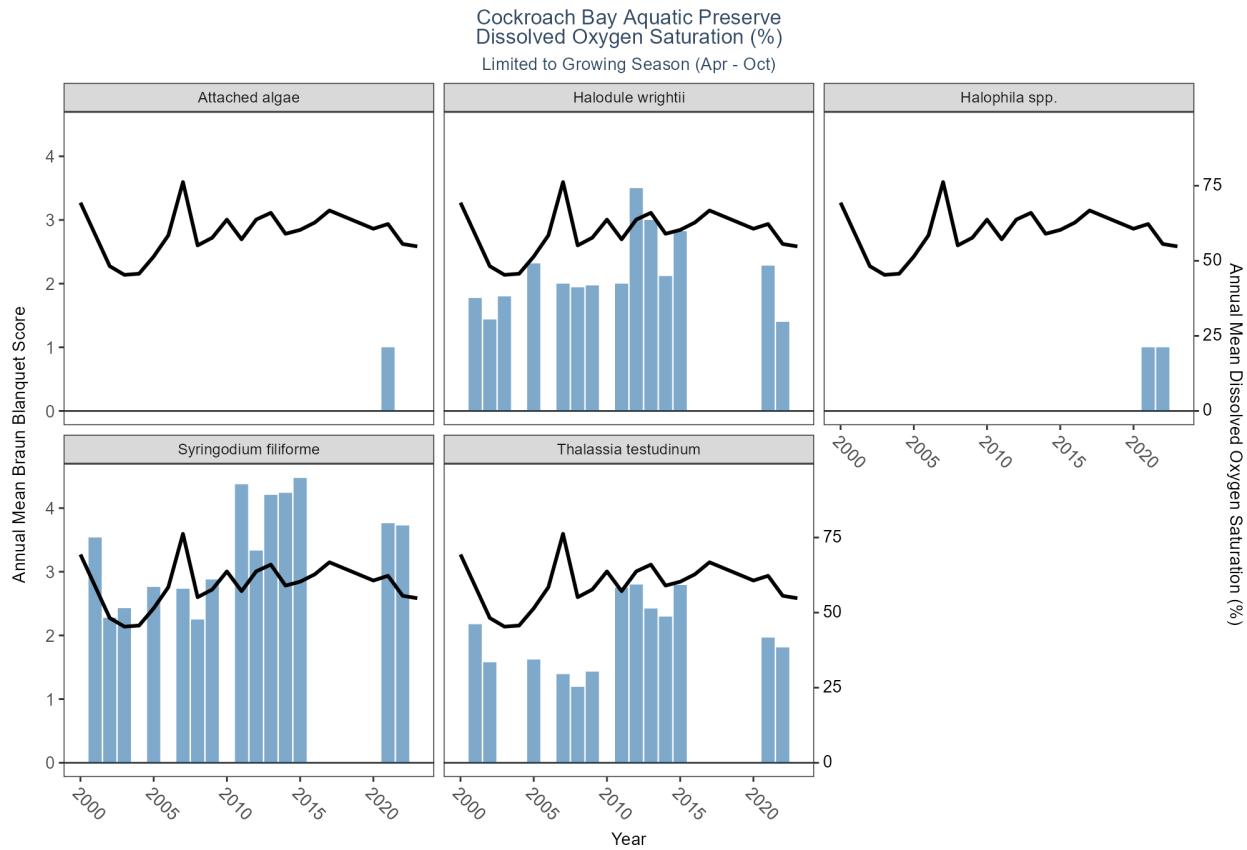


Table 176: WQ Summary for Dissolved Oxygen Saturation in Cockroach Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2000	69.360	65.20	36.7	134.2	21.110
Dissolved Oxygen Saturation	2001	58.788	55.10	11.3	131.2	26.915
Dissolved Oxygen Saturation	2002	48.209	44.60	0.8	137.2	29.160
Dissolved Oxygen Saturation	2003	45.328	45.80	14.6	83.1	15.036
Dissolved Oxygen Saturation	2004	45.691	45.70	11.6	112.0	7.422
Dissolved Oxygen Saturation	2005	51.421	51.50	13.2	84.2	9.285
Dissolved Oxygen Saturation	2006	58.472	55.00	3.2	109.6	16.723
Dissolved Oxygen Saturation	2007	76.232	71.25	8.0	149.6	30.134
Dissolved Oxygen Saturation	2008	55.129	52.95	10.3	104.0	15.930
Dissolved Oxygen Saturation	2009	57.697	55.05	20.2	110.8	15.173
Dissolved Oxygen Saturation	2010	63.712	62.15	31.8	116.6	13.528
Dissolved Oxygen Saturation	2011	57.143	57.90	6.0	89.9	12.258
Dissolved Oxygen Saturation	2012	63.731	64.20	12.6	98.2	12.862
Dissolved Oxygen Saturation	2013	65.982	60.45	33.9	127.3	21.556
Dissolved Oxygen Saturation	2014	58.997	57.55	18.1	105.5	11.299
Dissolved Oxygen Saturation	2015	60.288	58.30	19.2	117.8	11.171
Dissolved Oxygen Saturation	2016	62.747	59.45	33.5	133.5	12.827
Dissolved Oxygen Saturation	2017	66.759	66.40	22.8	91.8	13.961
Dissolved Oxygen Saturation	2020	60.678	64.60	19.0	108.5	13.663

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2021	62.252	59.20	29.4	217.6	20.474
Dissolved Oxygen Saturation	2022	55.595	54.90	15.7	86.0	11.640
Dissolved Oxygen Saturation	2023	54.795	53.10	22.8	91.1	12.044
Dissolved Oxygen Saturation	2024	60.426	55.95	35.7	91.4	14.311

Programs contributing WQ Data:

Table 177: Programs contributing WQ data for Dissolved Oxygen Saturation in Cockroach Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	4067	1993	2022	4107
Dissolved Oxygen Saturation	5002	2004	2024	3817

WQ Program names:

4067 - Tampa Bay Benthic Monitoring
 5002 - Florida STORET / WIN

pH

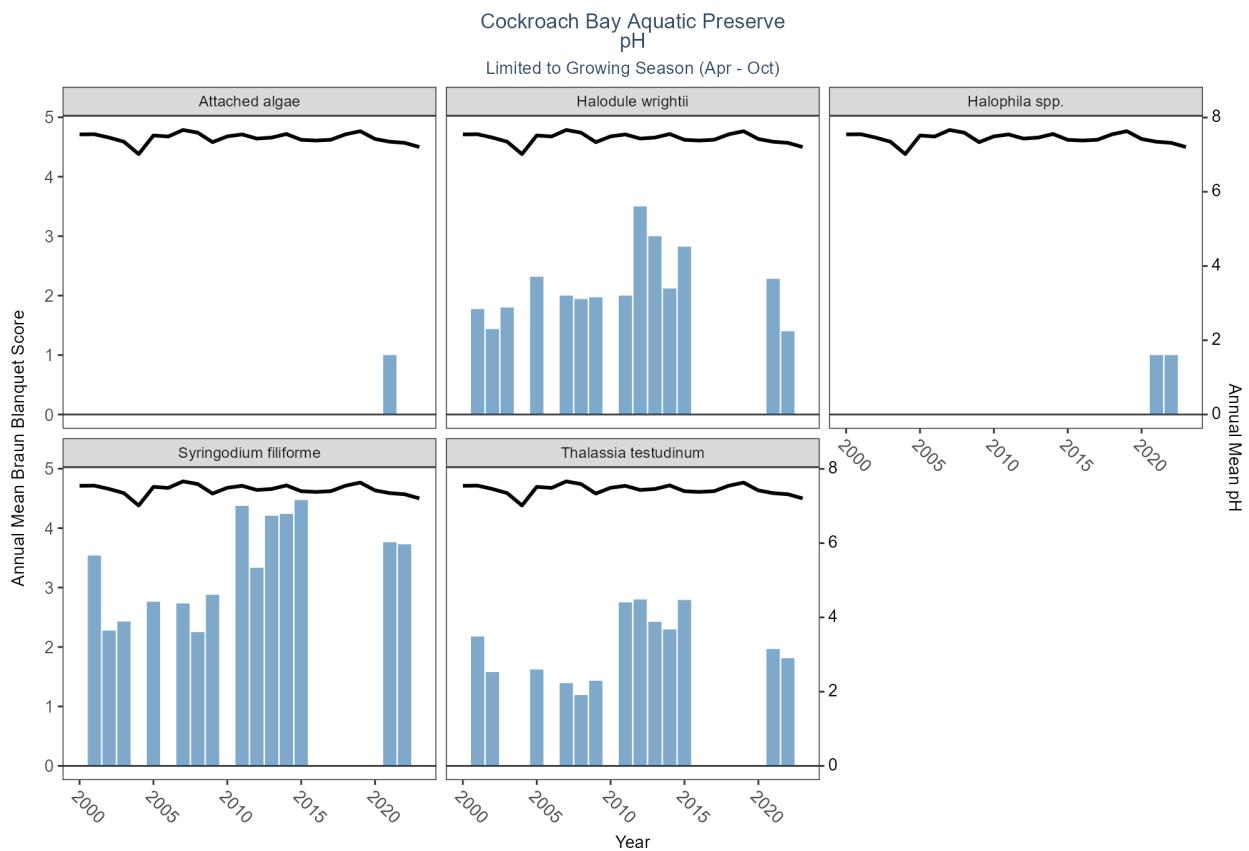


Table 178: WQ Summary for pH in Cockroach Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	2000	7.545	7.500	6.10	8.60	0.467
pH	2001	7.549	7.600	5.60	8.90	0.447
pH	2002	7.459	7.500	4.90	8.50	0.383
pH	2003	7.348	7.370	2.60	9.10	0.403
pH	2004	7.014	6.890	6.38	8.40	0.440
pH	2005	7.517	7.500	3.90	9.60	0.379
pH	2006	7.488	7.400	5.20	9.20	0.429
pH	2007	7.664	7.600	6.70	9.20	0.513
pH	2008	7.592	7.500	6.80	9.00	0.417
pH	2009	7.336	7.300	6.67	8.60	0.384
pH	2010	7.492	7.500	6.74	8.60	0.342
pH	2011	7.544	7.500	6.80	9.80	0.424
pH	2012	7.433	7.425	6.30	8.50	0.387
pH	2013	7.459	7.360	6.79	8.60	0.351
pH	2014	7.556	7.520	6.63	8.70	0.401
pH	2015	7.399	7.400	6.64	8.60	0.377
pH	2016	7.380	7.320	6.67	8.50	0.348
pH	2017	7.400	7.410	6.40	8.70	0.370
pH	2018	7.547	7.550	6.80	8.60	0.347
pH	2019	7.632	7.600	6.90	8.60	0.320
pH	2020	7.421	7.500	6.53	8.40	0.407
pH	2021	7.347	7.320	6.17	8.42	0.439
pH	2022	7.317	7.300	6.36	8.30	0.428
pH	2023	7.205	7.160	6.64	7.92	0.318
pH	2024	7.440	7.450	6.91	8.10	0.300

Programs contributing WQ Data:

Table 179: Programs contributing WQ data for pH in Cockroach Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	1989	2022	8365
pH	95	2011	2011	1
pH	103	2021	2021	25
pH	118	2015	2015	3
pH	4067	1993	2022	3068
pH	5002	1999	2024	4056

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

4067 - Tampa Bay Benthic Monitoring

5002 - Florida STORET / WIN

Salinity

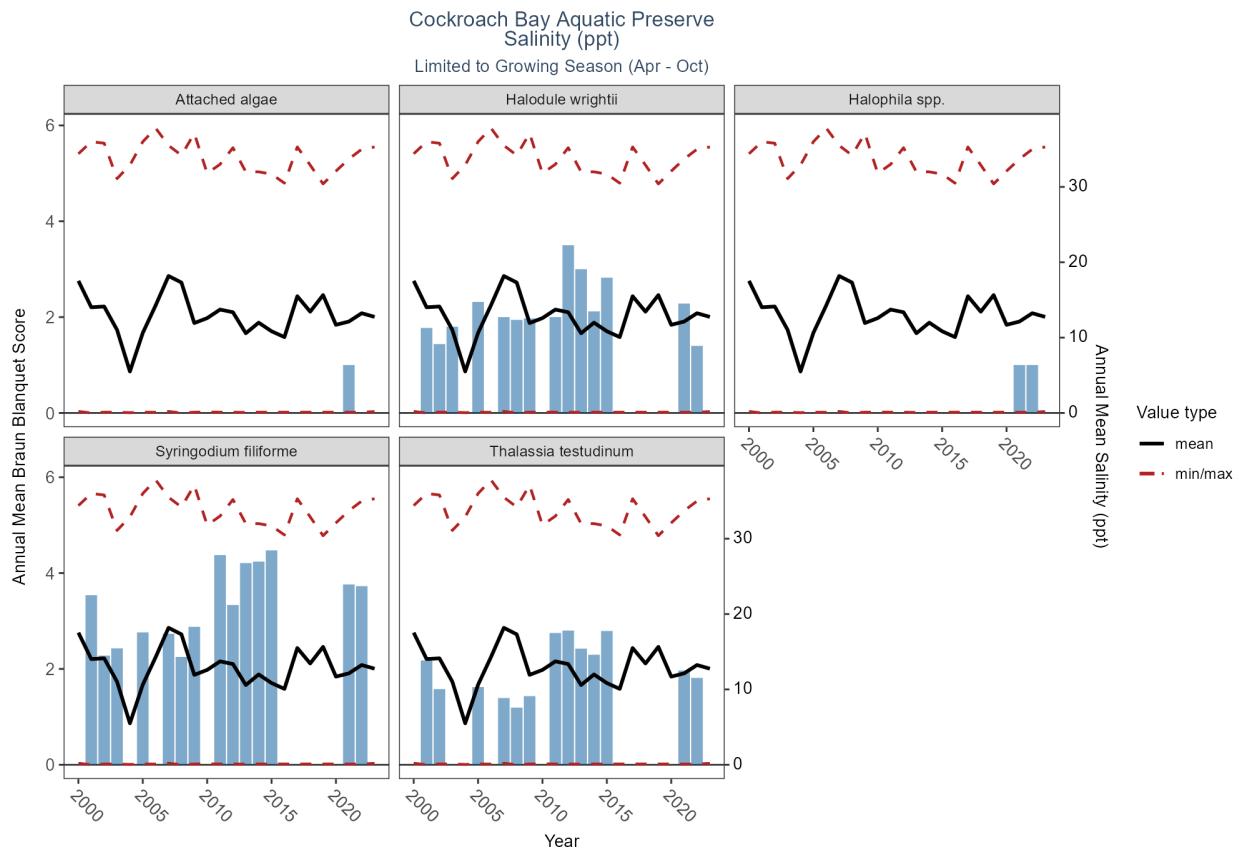


Table 180: WQ Summary for Salinity in Cockroach Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	2000	17.533	19.400	0.20	34.40	11.847
Salinity	2001	14.028	12.000	0.00	36.00	10.784
Salinity	2002	14.127	13.700	0.10	35.80	9.771
Salinity	2003	11.025	10.915	0.10	31.10	8.786
Salinity	2004	5.503	0.950	0.04	32.90	8.356
Salinity	2005	10.630	8.360	0.10	36.00	7.783
Salinity	2006	14.288	15.000	0.09	37.80	11.236
Salinity	2007	18.178	19.660	0.20	35.50	10.333
Salinity	2008	17.309	19.065	0.00	34.20	11.288
Salinity	2009	11.931	8.300	0.10	37.10	11.503
Salinity	2010	12.590	13.300	0.12	31.80	9.251
Salinity	2011	13.722	14.000	0.10	33.00	10.845
Salinity	2012	13.368	12.215	0.10	35.20	11.891
Salinity	2013	10.580	6.605	0.07	32.00	10.640
Salinity	2014	11.985	10.395	0.10	32.00	10.091
Salinity	2015	10.843	8.290	0.10	31.70	9.785
Salinity	2016	10.070	7.600	0.10	30.50	9.485
Salinity	2017	15.493	18.215	0.10	35.30	11.245
Salinity	2018	13.442	13.500	0.10	32.90	10.040
Salinity	2019	15.646	16.700	0.10	30.40	9.542

ParameterName	Year	mean	median	min	max	sd
Salinity	2020	11.698	10.905	0.10	32.10	10.326
Salinity	2021	12.130	11.565	0.09	33.70	10.598
Salinity	2022	13.237	12.920	0.10	35.00	10.047
Salinity	2023	12.751	11.030	0.18	35.30	9.808
Salinity	2024	19.785	21.075	0.87	34.79	8.075

Programs contributing WQ Data:

Table 181: Programs contributing WQ data for Salinity in Cockroach Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	1989	2022	8426
Salinity	95	1958	2013	18
Salinity	118	2015	2015	3
Salinity	4067	1993	2022	3742
Salinity	5002	1999	2024	4082

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

4067 - Tampa Bay Benthic Monitoring

5002 - Florida STORET / WIN

Secchi Depth

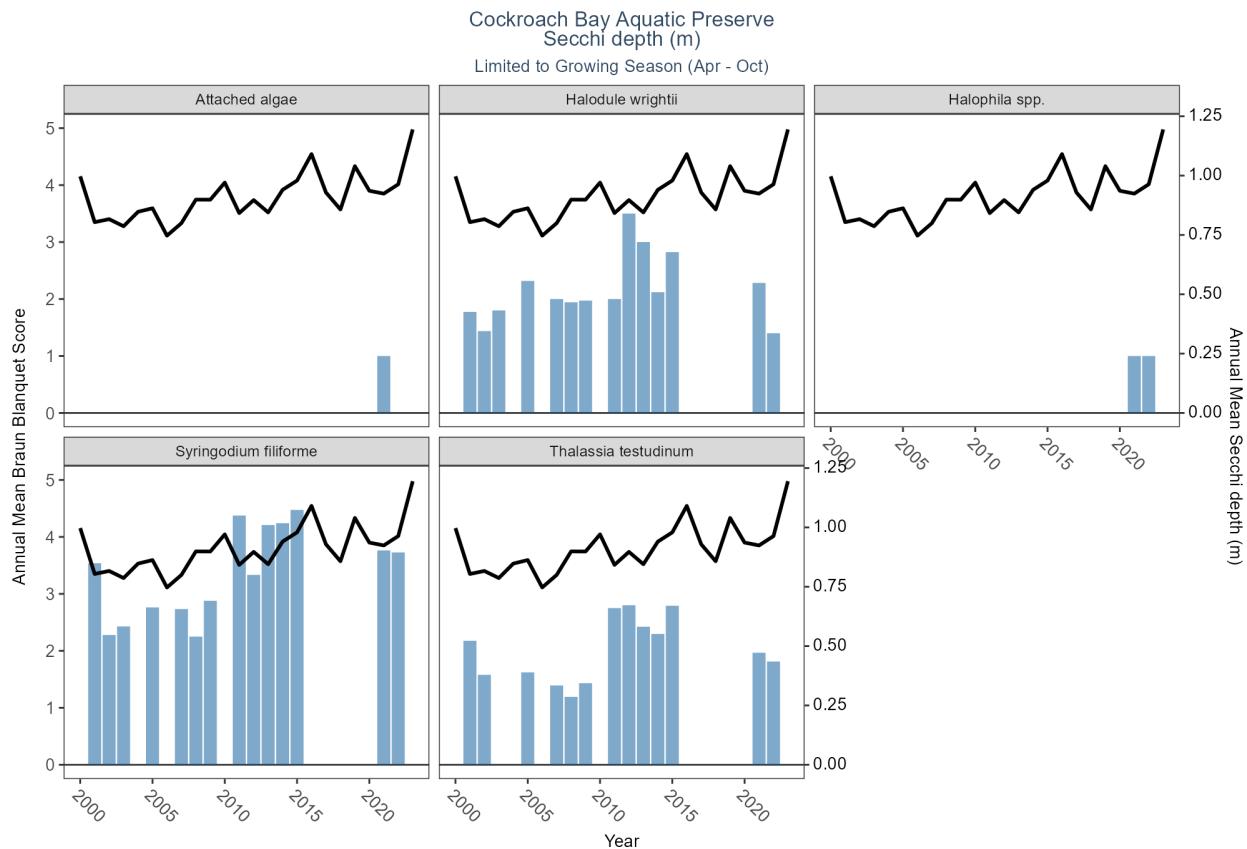


Table 182: WQ Summary for Secchi Depth in Cockroach Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2000	0.997	1.0	0.152	2.0	0.358
Secchi depth	2001	0.804	0.7	0.152	1.9	0.327
Secchi depth	2002	0.817	0.8	0.300	2.0	0.293
Secchi depth	2003	0.787	0.7	0.300	2.0	0.312
Secchi depth	2004	0.848	0.8	0.200	2.2	0.379
Secchi depth	2005	0.862	0.8	0.300	1.9	0.316
Secchi depth	2006	0.747	0.6	0.100	2.5	0.406
Secchi depth	2007	0.800	0.7	0.200	2.0	0.347
Secchi depth	2008	0.899	0.9	0.300	2.0	0.340
Secchi depth	2009	0.899	0.8	0.200	1.7	0.311
Secchi depth	2010	0.971	0.9	0.300	2.3	0.377
Secchi depth	2011	0.842	0.8	0.200	1.7	0.270
Secchi depth	2012	0.897	0.8	0.300	2.0	0.404
Secchi depth	2013	0.845	0.7	0.300	2.3	0.419
Secchi depth	2014	0.940	0.9	0.400	1.9	0.333
Secchi depth	2015	0.979	0.9	0.200	2.0	0.364
Secchi depth	2016	1.091	1.0	0.300	2.5	0.419
Secchi depth	2017	0.929	0.9	0.300	1.9	0.354
Secchi depth	2018	0.857	0.8	0.100	1.8	0.356

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2019	1.040	1.0	0.400	1.8	0.355
Secchi depth	2020	0.936	0.8	0.200	2.2	0.399
Secchi depth	2021	0.924	0.8	0.200	2.0	0.366
Secchi depth	2022	0.963	1.0	0.200	2.1	0.378
Secchi depth	2023	1.195	1.2	0.400	2.2	0.369
Secchi depth	2024	1.200	1.2	0.600	2.0	0.362

Programs contributing WQ Data:

Table 183: Programs contributing WQ data for Secchi Depth in Cockroach Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	1995	2022	7772
Secchi depth	103	2021	2021	14
Secchi depth	514	2001	2001	4
Secchi depth	5002	1999	2024	485

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

514 - Florida LAKEWATCH Program

5002 - Florida STORET / WIN

Total Nitrogen & Total Phosphorus

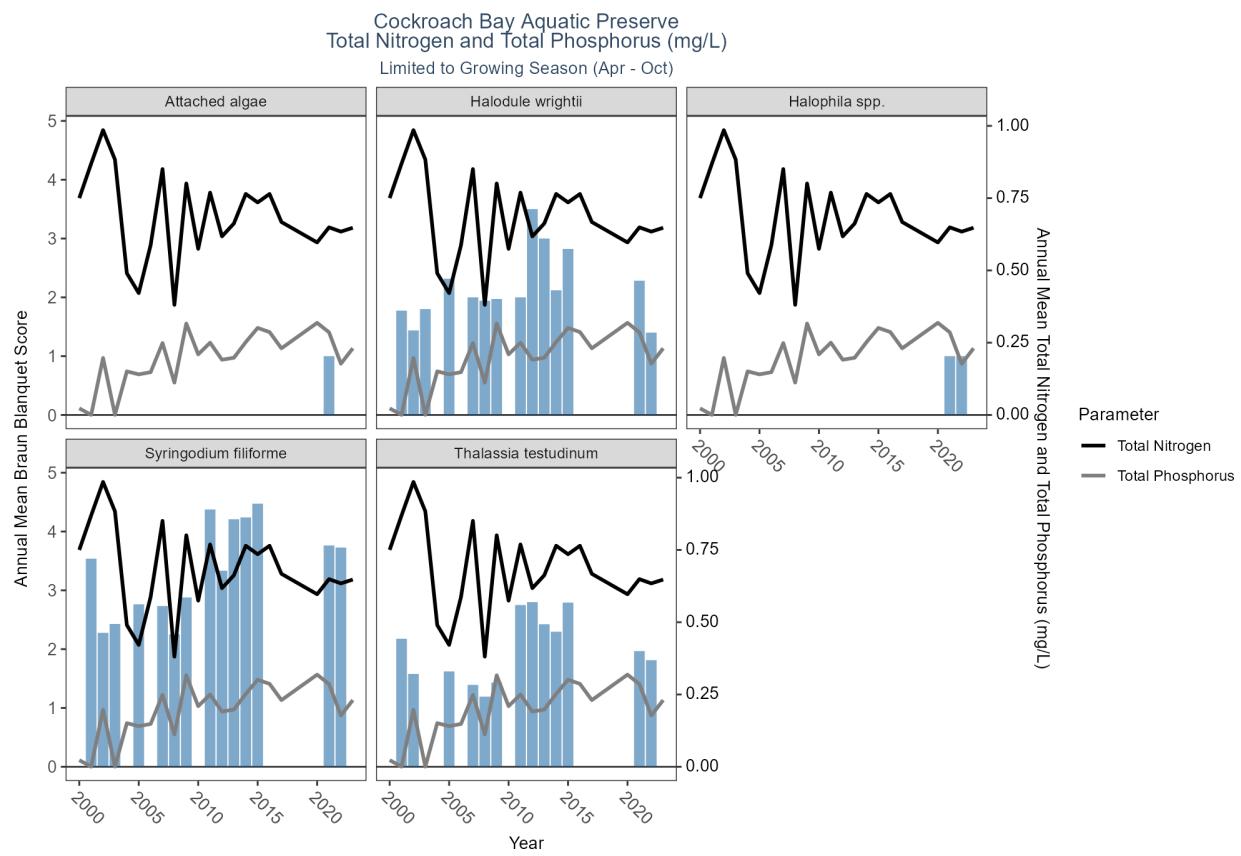


Table 184: WQ Summary for Total Nitrogen & Total Phosphorus in Cockroach Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2000	0.750	0.325	0.000	3.990	0.951
Total Nitrogen	2001	0.869	0.900	0.001	2.110	0.748
Total Nitrogen	2002	0.985	1.179	0.001	1.956	0.742
Total Nitrogen	2003	0.883	0.951	0.001	4.144	0.883
Total Nitrogen	2004	0.490	0.390	0.000	1.770	0.541
Total Nitrogen	2005	0.422	0.131	0.000	1.450	0.488
Total Nitrogen	2006	0.588	0.647	0.000	1.704	0.562
Total Nitrogen	2007	0.851	0.937	0.000	1.860	0.560
Total Nitrogen	2008	0.381	0.208	0.000	1.260	0.417
Total Nitrogen	2009	0.801	0.794	0.384	1.335	0.282
Total Nitrogen	2010	0.575	0.617	0.001	1.711	0.481
Total Nitrogen	2011	0.769	0.742	0.001	1.810	0.452
Total Nitrogen	2012	0.618	0.556	0.000	1.519	0.497
Total Nitrogen	2013	0.662	0.689	0.001	1.630	0.462
Total Nitrogen	2014	0.765	0.723	0.397	1.753	0.290
Total Nitrogen	2015	0.735	0.657	0.282	1.535	0.308
Total Nitrogen	2016	0.764	0.754	0.364	1.340	0.257
Total Nitrogen	2017	0.667	0.647	0.308	1.454	0.279
Total Nitrogen	2020	0.597	0.458	0.199	1.100	0.322

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2021	0.649	0.585	0.194	1.137	0.307
Total Nitrogen	2022	0.634	0.574	0.285	1.395	0.299
Total Nitrogen	2023	0.648	0.538	0.219	2.689	0.453
Total Nitrogen	2024	0.500	0.462	0.367	0.645	0.099
Total Phosphorus	2000	0.023	0.000	0.000	0.430	0.099
Total Phosphorus	2001	0.000	0.000	0.000	0.001	0.000
Total Phosphorus	2002	0.197	0.250	0.000	0.450	0.171
Total Phosphorus	2003	0.001	0.001	0.000	0.001	0.000
Total Phosphorus	2004	0.151	0.001	0.000	0.670	0.191
Total Phosphorus	2005	0.141	0.000	0.000	0.590	0.185
Total Phosphorus	2006	0.148	0.146	0.000	0.488	0.155
Total Phosphorus	2007	0.249	0.270	0.000	1.099	0.183
Total Phosphorus	2008	0.112	0.000	0.000	0.381	0.140
Total Phosphorus	2009	0.316	0.321	0.164	0.515	0.101
Total Phosphorus	2010	0.210	0.250	0.000	0.456	0.160
Total Phosphorus	2011	0.250	0.270	0.000	0.464	0.122
Total Phosphorus	2012	0.191	0.192	0.000	0.517	0.150
Total Phosphorus	2013	0.198	0.236	0.000	0.447	0.139
Total Phosphorus	2014	0.252	0.236	0.152	0.380	0.056
Total Phosphorus	2015	0.301	0.310	0.176	0.500	0.090
Total Phosphorus	2016	0.287	0.285	0.182	0.433	0.068
Total Phosphorus	2017	0.231	0.215	0.072	0.415	0.086
Total Phosphorus	2020	0.319	0.320	0.145	0.472	0.077
Total Phosphorus	2021	0.286	0.283	0.187	0.523	0.075
Total Phosphorus	2022	0.177	0.175	0.048	0.397	0.091
Total Phosphorus	2023	0.231	0.204	0.140	0.540	0.098
Total Phosphorus	2024	0.142	0.128	0.086	0.220	0.046

Programs contributing WQ Data:

Table 185: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Cockroach Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	514	2000	2013	193
Total Nitrogen	5002	1999	2024	680
Total Phosphorus	103	2021	2021	14
Total Phosphorus	514	2000	2013	192
Total Phosphorus	5002	2000	2024	563

WQ Program names:

514 - Florida LAKEWATCH Program

5002 - Florida STORET / WIN

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

Total Suspended Solids

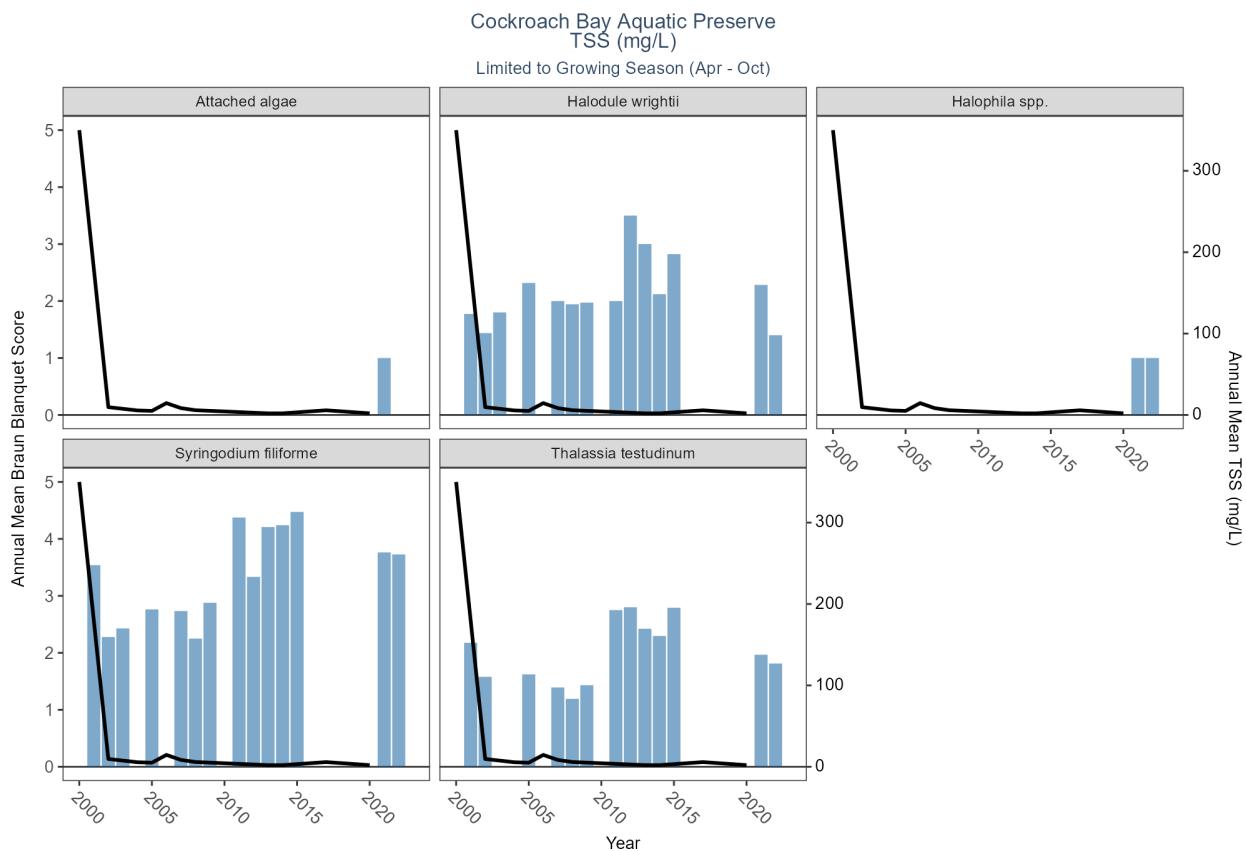


Table 186: WQ Summary for Total Suspended Solids in Cockroach Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	2000	350.000	350.0	350	350	NA
TSS	2002	9.571	10.0	5	14	3.359
TSS	2004	5.571	6.0	1	9	2.699
TSS	2005	5.000	5.0	3	8	1.528
TSS	2006	14.562	12.0	4	34	9.543
TSS	2007	8.400	7.0	4	21	4.319
TSS	2008	5.833	5.5	4	8	2.041
TSS	2013	2.000	2.0	2	2	NA
TSS	2014	2.000	2.0	2	2	NA
TSS	2017	5.750	5.0	3	10	3.096
TSS	2020	2.000	2.0	2	2	NA

Programs contributing WQ Data:

Table 187: Programs contributing WQ data for Total Suspended Solids in Cockroach Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	5002	2000	2020	106

WQ Program names:

5002 - Florida STORET / WIN

Turbidity



Table 188: WQ Summary for Turbidity in Cockroach Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	2000	3.686	3.50	1.6	6.0	1.762
Turbidity	2001	5.500	4.50	2.0	13.0	3.590
Turbidity	2002	3.357	3.50	2.0	7.0	1.499
Turbidity	2003	6.081	4.00	2.0	14.0	3.788
Turbidity	2004	4.364	4.70	2.0	8.1	1.790
Turbidity	2005	4.029	3.05	2.3	13.6	2.928
Turbidity	2006	5.278	4.90	1.7	10.0	2.767
Turbidity	2007	3.410	3.00	1.5	9.9	1.682
Turbidity	2008	3.779	3.10	2.2	7.8	1.666

ParameterName	Year	mean	median	min	max	sd
Turbidity	2009	4.120	3.50	1.8	10.8	2.140
Turbidity	2010	4.194	3.60	1.8	9.1	1.947
Turbidity	2011	5.271	4.80	2.6	10.1	2.058
Turbidity	2012	3.411	3.10	2.1	6.5	1.128
Turbidity	2013	3.381	3.25	1.1	6.7	1.481
Turbidity	2014	3.467	2.60	1.3	11.6	2.143
Turbidity	2015	3.394	2.75	1.1	8.6	1.876
Turbidity	2016	7.514	5.70	2.7	18.9	4.405
Turbidity	2017	4.311	3.90	1.5	11.8	2.601
Turbidity	2020	2.494	2.25	1.4	4.5	0.850
Turbidity	2021	3.200	3.00	1.3	6.0	1.453
Turbidity	2022	3.068	2.50	1.2	7.4	1.542
Turbidity	2023	3.085	2.60	1.4	7.7	1.361
Turbidity	2024	3.280	3.15	1.7	5.0	1.166

Programs contributing WQ Data:

Table 189: Programs contributing WQ data for Turbidity in Cockroach Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	103	2021	2021	14
Turbidity	5002	1999	2024	591

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

5002 - Florida STORET / WIN

Water Temperature

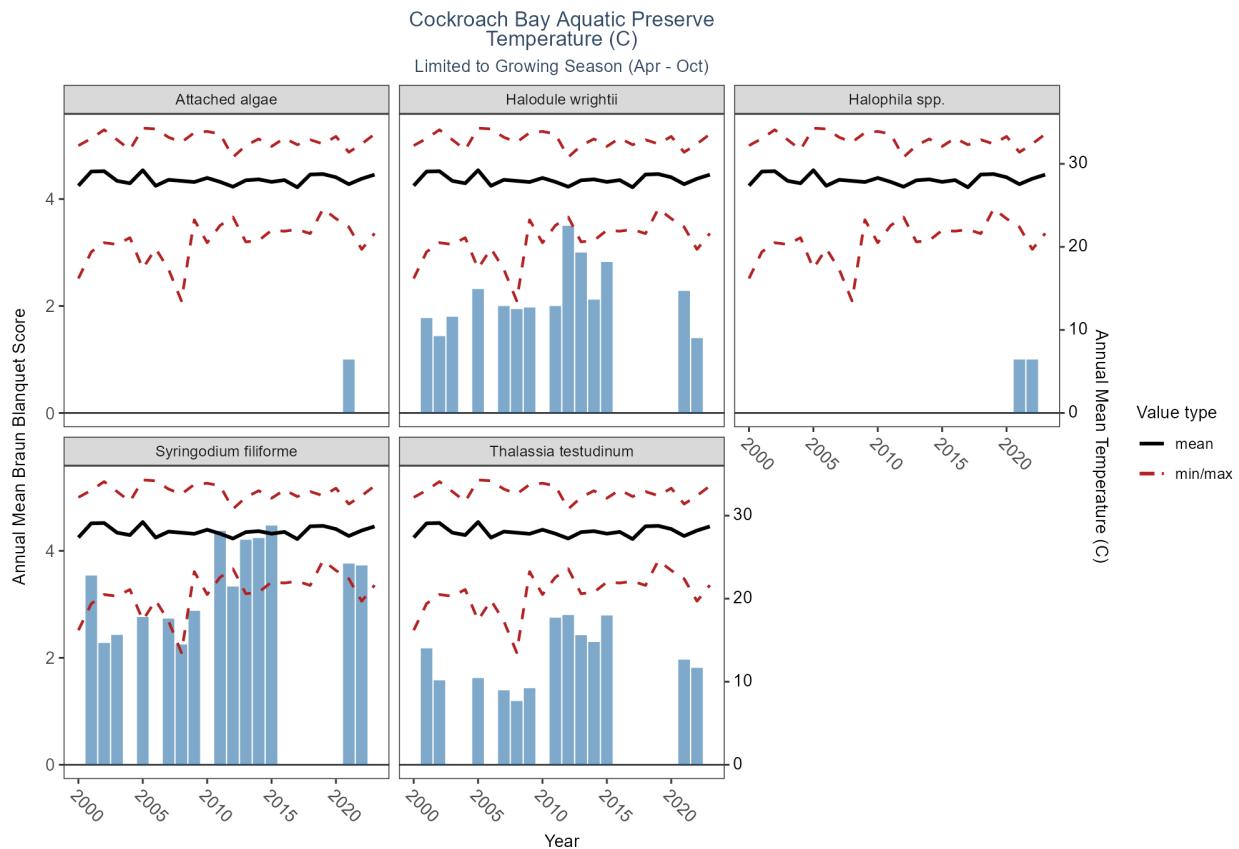


Table 190: WQ Summary for Water Temperature in Cockroach Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	2000	27.367	28.300	16.20	32.20	3.133
Temperature	2001	29.073	29.980	19.40	33.05	2.970
Temperature	2002	29.114	29.400	20.50	34.10	1.591
Temperature	2003	27.949	28.340	20.30	32.90	1.950
Temperature	2004	27.661	27.520	21.10	31.70	1.740
Temperature	2005	29.232	31.100	17.40	34.30	3.462
Temperature	2006	27.356	27.600	19.80	34.20	2.489
Temperature	2007	28.078	28.900	17.30	33.20	2.749
Temperature	2008	27.946	28.600	13.50	32.60	2.369
Temperature	2009	27.813	28.100	23.26	33.75	2.294
Temperature	2010	28.304	28.780	20.50	33.90	2.606
Temperature	2011	27.831	28.000	22.58	33.60	2.344
Temperature	2012	27.243	27.185	23.60	30.80	1.492
Temperature	2013	28.018	28.200	20.60	32.20	2.289
Temperature	2014	28.132	28.700	20.77	33.00	2.837
Temperature	2015	27.827	28.250	22.00	32.10	2.365
Temperature	2016	28.042	28.500	21.89	33.10	2.419
Temperature	2017	27.179	27.200	22.10	32.30	1.910
Temperature	2018	28.715	29.300	21.60	32.90	2.233

ParameterName	Year	mean	median	min	max	sd
Temperature	2019	28.769	29.100	24.60	32.40	2.163
Temperature	2020	28.385	28.000	23.40	33.30	2.092
Temperature	2021	27.549	27.600	22.40	31.40	1.981
Temperature	2022	28.209	28.580	19.70	32.40	2.214
Temperature	2023	28.699	29.380	21.63	33.58	2.933
Temperature	2024	26.875	28.405	22.25	29.35	2.104

Programs contributing WQ Data:

Table 191: Programs contributing WQ data for Water Temperature in Cockroach Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	1989	2022	8447
Temperature	95	1958	2013	17
Temperature	103	2021	2021	25
Temperature	118	2015	2015	1
Temperature	4067	1993	2022	3854
Temperature	5002	1999	2024	4116

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

4067 - Tampa Bay Benthic Monitoring

5002 - Florida STORET / WIN

Estero Bay Aquatic Preserve

Programs contributing SAV Data:

Table 192: Programs contributing SAV data in Estero Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Braun Blanquet Score	571	2002	2023	2582

SAV Program names:

571 - Estero Bay Seagrass Monitoring

Chlorophyll-a (corrected & uncorrected)

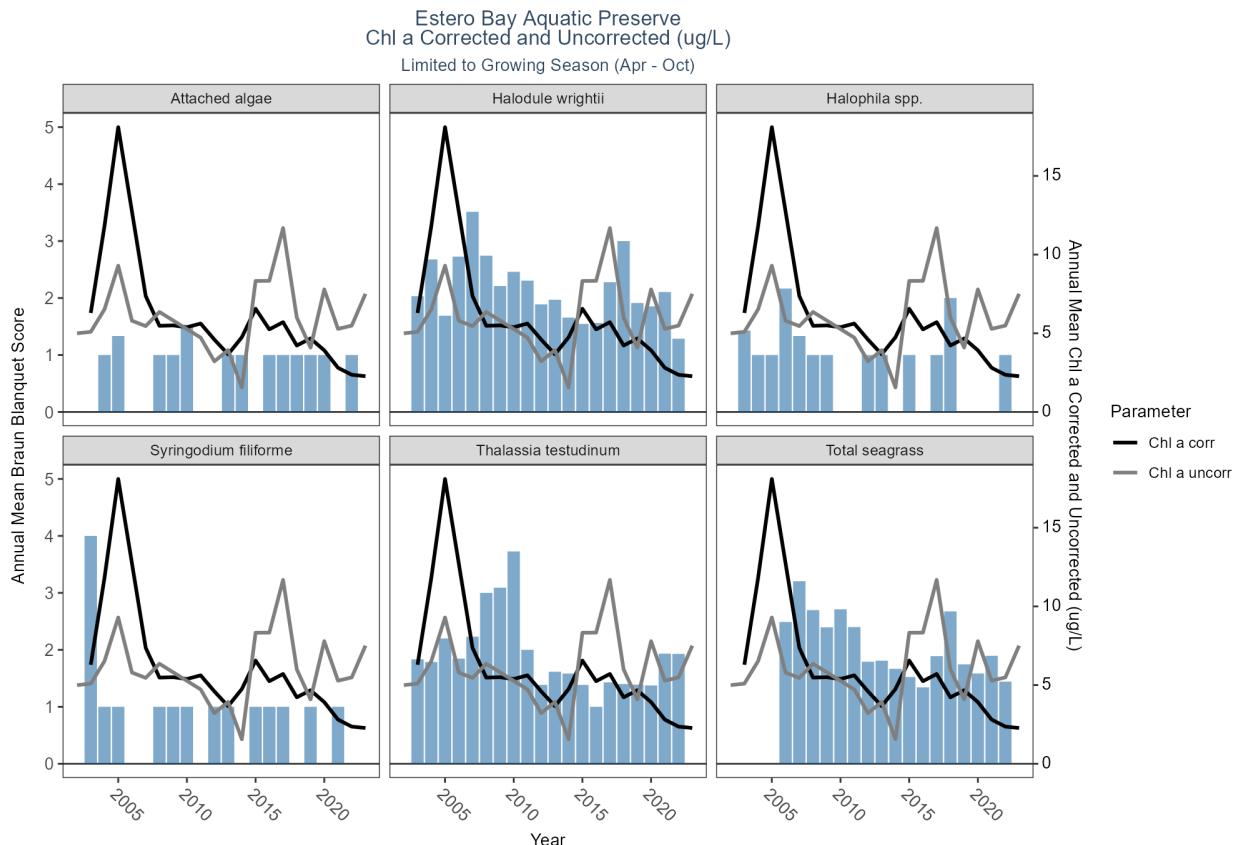


Table 193: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Estero Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2003	6.292	7.530	0.030	12.500	4.252
Chl a corr	2004	11.814	6.440	-0.200	127.300	26.740
Chl a corr	2005	18.100	4.400	0.500	192.000	48.789
Chl a corr	2007	7.367	7.060	0.850	21.200	5.122
Chl a corr	2008	5.476	4.000	1.700	13.000	3.309

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2009	5.500	4.150	2.400	15.000	3.189
Chl a corr	2010	5.387	3.900	0.690	18.000	4.445
Chl a corr	2011	5.619	6.150	2.000	10.000	2.265
Chl a corr	2012	4.600	4.200	2.100	9.600	1.983
Chl a corr	2013	3.663	3.400	0.000	10.000	2.531
Chl a corr	2014	4.750	3.900	0.000	18.000	3.925
Chl a corr	2015	6.560	5.150	0.000	19.000	5.571
Chl a corr	2016	5.248	4.300	1.300	13.000	2.934
Chl a corr	2017	5.706	3.700	1.400	20.000	4.664
Chl a corr	2018	4.223	3.065	0.820	30.370	4.275
Chl a corr	2019	4.671	3.680	0.500	25.580	3.715
Chl a corr	2020	3.917	3.325	0.500	19.470	2.776
Chl a corr	2021	2.808	2.170	0.500	43.360	3.095
Chl a corr	2022	2.361	2.035	0.500	11.000	1.809
Chl a corr	2023	2.273	1.225	0.500	13.030	2.550
Chl a corr	2024	1.522	0.560	0.500	13.000	2.196
Chl a uncorr	2002	4.996	3.873	2.225	11.069	2.219
Chl a uncorr	2003	5.092	4.072	1.302	26.665	4.074
Chl a uncorr	2004	6.523	4.700	1.450	30.700	5.659
Chl a uncorr	2005	9.296	4.618	1.160	114.000	20.802
Chl a uncorr	2006	5.796	5.090	1.160	20.307	3.931
Chl a uncorr	2007	5.457	4.000	0.941	21.300	4.761
Chl a uncorr	2008	6.356	5.404	1.373	14.816	4.148
Chl a uncorr	2011	4.725	4.100	3.000	7.700	2.178
Chl a uncorr	2012	3.217	3.050	1.000	6.200	1.694
Chl a uncorr	2013	3.930	3.000	2.000	9.000	2.334
Chl a uncorr	2014	1.556	1.000	1.000	4.000	1.130
Chl a uncorr	2015	8.327	6.900	1.000	22.000	6.367
Chl a uncorr	2016	8.333	9.000	5.000	11.000	3.055
Chl a uncorr	2017	11.688	12.000	4.000	20.000	6.375
Chl a uncorr	2018	6.000	4.350	1.100	18.000	4.405
Chl a uncorr	2019	4.092	4.100	1.400	8.700	2.118
Chl a uncorr	2020	7.791	4.700	2.400	40.500	9.129
Chl a uncorr	2021	5.279	4.200	1.400	26.300	3.894
Chl a uncorr	2022	5.487	4.530	2.000	15.000	2.863
Chl a uncorr	2023	7.507	6.575	1.150	25.800	5.308
Chl a uncorr	2024	5.471	4.300	1.500	15.000	4.606

Programs contributing WQ Data:

Table 194: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Estero Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	103	2021	2021	94
Chl a corr	476	2008	2024	354
Chl a corr	513	2003	2005	57
Chl a corr	4063	2018	2024	39
Chl a corr	5002	2007	2024	858
Chl a uncorr	103	2003	2021	55
Chl a uncorr	115	2003	2003	1

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a uncorr	476	1998	2024	327
Chl a uncorr	509	1999	2008	204
Chl a uncorr	514	2011	2018	55
Chl a uncorr	5002	2011	2023	53

WQ Program names:

- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 513 - Coastal Charlotte Harbor Monitoring Network
- 4063 - Estero Bay Tributary Monitoring
- 5002 - Florida STORET / WIN
- 115 - Environmental Monitoring Assessment Program
- 509 - SERC Water Quality Monitoring Network
- 514 - Florida LAKEWATCH Program

Colored Dissolved Organic Matter

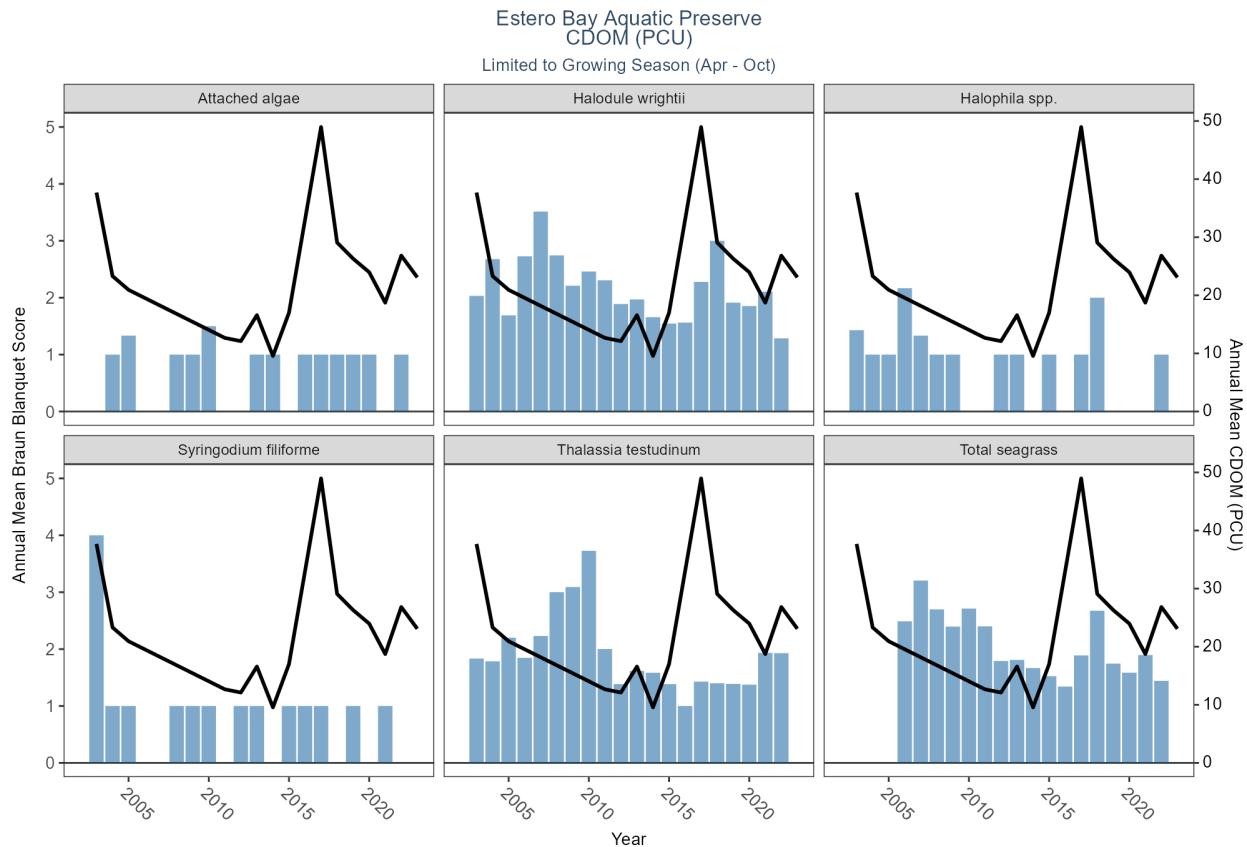


Table 195: WQ Summary for Colored Dissolved Organic Matter in Estero Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
CDOM	2003	37.686	47.60	1.82	61.6	24.859

ParameterName	Year	mean	median	min	max	sd
CDOM	2004	23.311	21.85	5.30	49.0	13.013
CDOM	2005	20.935	16.80	5.20	82.6	16.988
CDOM	2011	12.667	14.00	9.00	15.0	3.215
CDOM	2012	12.111	10.00	4.00	24.0	5.925
CDOM	2013	16.583	13.00	5.00	33.0	10.766
CDOM	2014	9.556	8.00	6.00	15.0	2.963
CDOM	2015	17.000	18.00	10.00	23.0	6.557
CDOM	2017	48.969	44.00	3.40	130.0	35.923
CDOM	2018	29.081	21.70	2.50	124.0	25.604
CDOM	2019	26.299	16.95	1.60	131.0	25.374
CDOM	2020	23.977	15.85	1.60	128.0	24.876
CDOM	2021	18.733	12.80	1.31	114.0	18.778
CDOM	2022	26.833	20.35	1.50	130.0	23.965
CDOM	2023	23.079	14.45	1.60	141.0	24.023
CDOM	2024	12.013	8.79	1.76	93.9	15.071

Programs contributing WQ Data:

Table 196: Programs contributing WQ data for Colored Dissolved Organic Matter in Estero Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
CDOM	103	2021	2021	121
CDOM	476	2017	2024	151
CDOM	513	2003	2005	45
CDOM	514	2011	2019	42
CDOM	4063	2018	2024	41
CDOM	5002	2018	2024	801

WQ Program names:

- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 513 - Coastal Charlotte Harbor Monitoring Network
- 514 - Florida LAKEWATCH Program
- 4063 - Estero Bay Tributary Monitoring
- 5002 - Florida STORET / WIN

Dissolved Oxygen

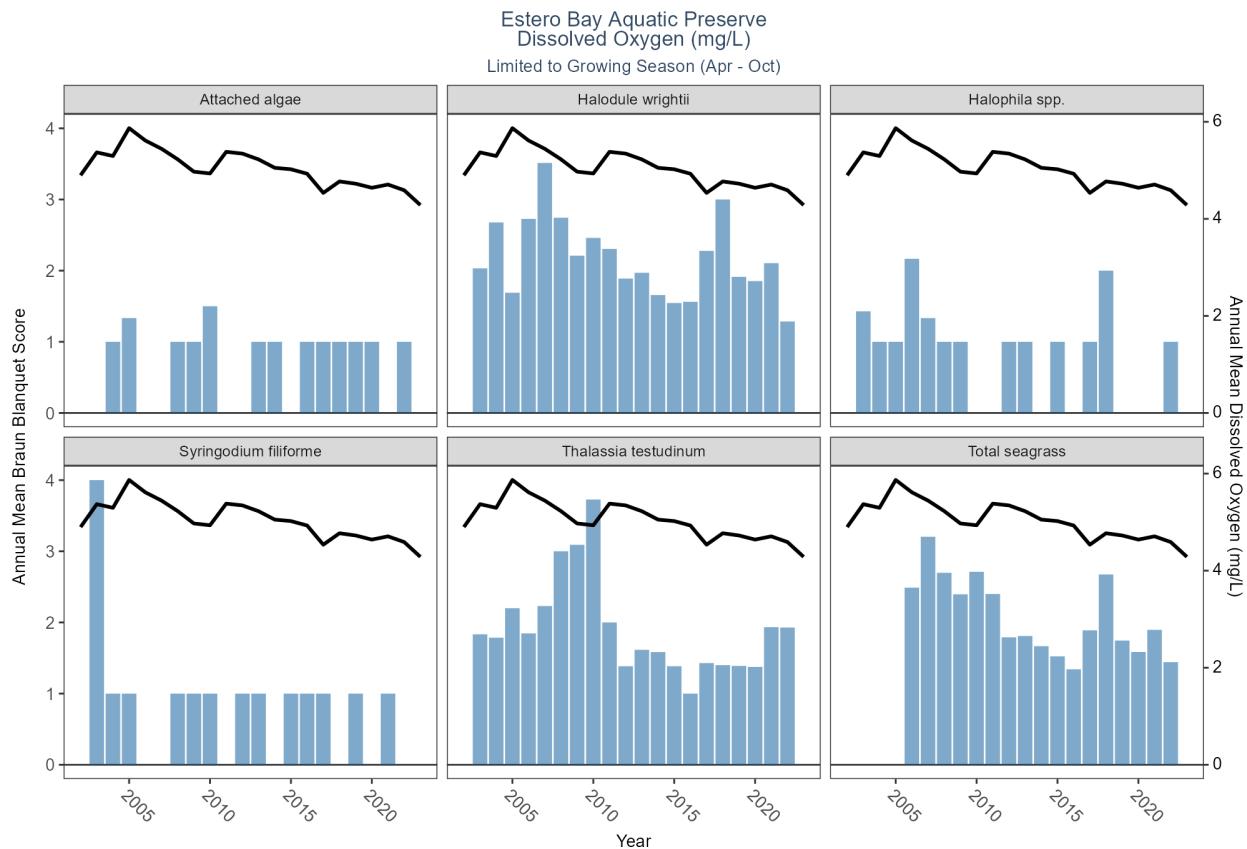


Table 197: WQ Summary for Dissolved Oxygen in Estero Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2002	4.898	5.000	1.1	7.600	1.344
Dissolved Oxygen	2003	5.370	5.135	2.0	9.280	1.437
Dissolved Oxygen	2004	5.295	5.285	1.5	10.000	1.491
Dissolved Oxygen	2005	5.870	5.780	1.9	11.600	1.700
Dissolved Oxygen	2006	5.615	5.400	0.5	12.900	1.668
Dissolved Oxygen	2007	5.444	5.300	0.8	12.800	1.866
Dissolved Oxygen	2008	5.228	5.200	1.2	8.100	1.143
Dissolved Oxygen	2009	4.972	5.000	1.7	7.400	1.206
Dissolved Oxygen	2010	4.936	5.100	0.1	7.240	1.356
Dissolved Oxygen	2011	5.381	5.500	1.0	8.115	1.162
Dissolved Oxygen	2012	5.345	5.470	0.6	10.660	1.221
Dissolved Oxygen	2013	5.225	5.300	2.0	10.300	1.243
Dissolved Oxygen	2014	5.052	5.200	0.4	11.300	1.271
Dissolved Oxygen	2015	5.022	5.200	0.7	7.900	1.383
Dissolved Oxygen	2016	4.930	5.100	0.4	7.900	1.407
Dissolved Oxygen	2017	4.535	4.640	0.3	7.700	1.416
Dissolved Oxygen	2018	4.771	4.990	0.3	14.170	1.491
Dissolved Oxygen	2019	4.725	4.900	0.6	7.400	1.418
Dissolved Oxygen	2020	4.640	4.750	0.3	6.700	1.276

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2021	4.707	4.900	0.2	7.100	1.157
Dissolved Oxygen	2022	4.590	4.700	0.5	6.700	1.244
Dissolved Oxygen	2023	4.284	4.500	0.6	6.500	1.142
Dissolved Oxygen	2024	5.177	5.500	0.5	6.800	1.358

Programs contributing WQ Data:

Table 198: Programs contributing WQ data for Dissolved Oxygen in Estero Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	2001	2007	1384
Dissolved Oxygen	95	1971	2018	270
Dissolved Oxygen	103	2003	2021	140
Dissolved Oxygen	115	2003	2003	3
Dissolved Oxygen	476	1998	2024	503
Dissolved Oxygen	509	1999	2008	408
Dissolved Oxygen	513	2003	2005	47
Dissolved Oxygen	4042	2016	2018	4
Dissolved Oxygen	4064	2011	2012	439
Dissolved Oxygen	5002	1991	2024	3630

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 509 - SERC Water Quality Monitoring Network
- 513 - Coastal Charlotte Harbor Monitoring Network
- 4042 - Estero Bay Oyster Monitoring
- 4064 - A spatial model to improve site selection for seagrass restoration in shallow boating environments
- 5002 - Florida STORET / WIN

Dissolved Oxygen Saturation

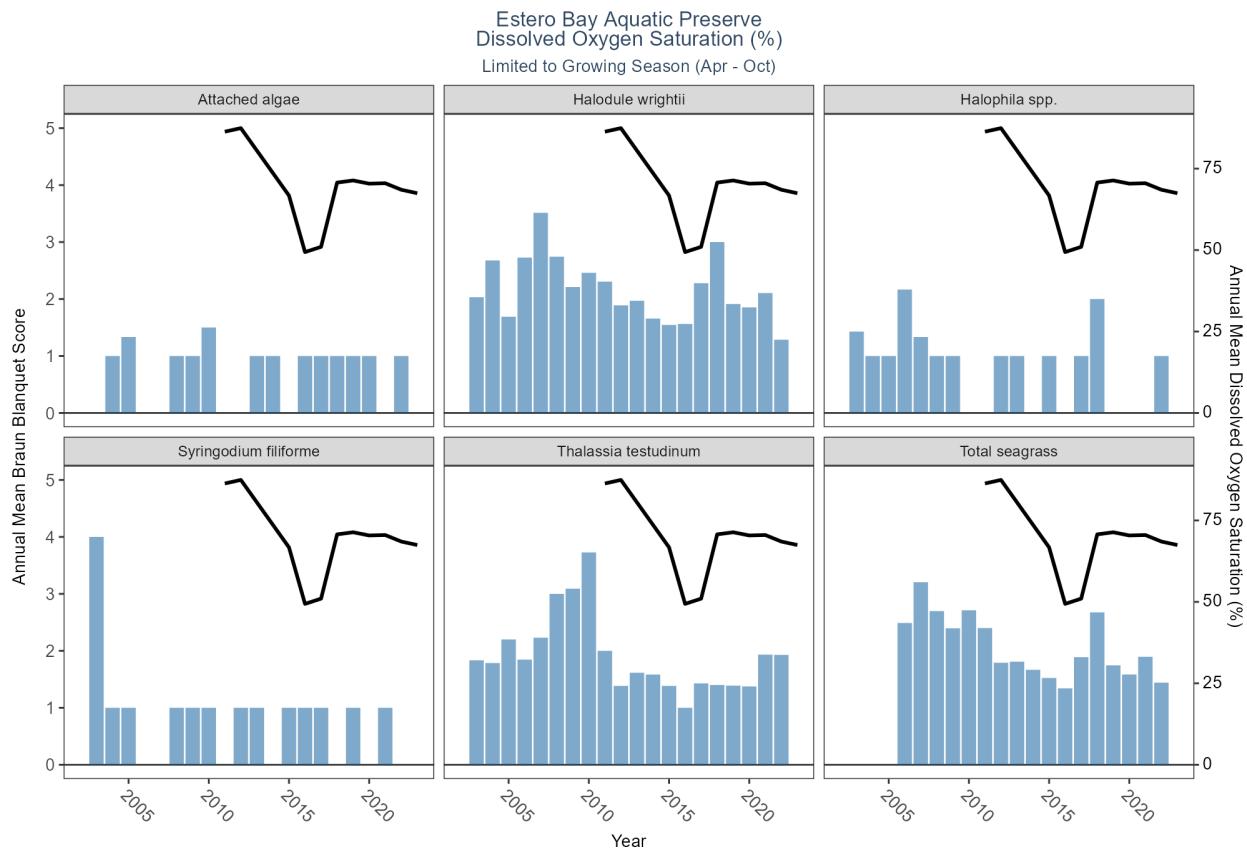


Table 199: WQ Summary for Dissolved Oxygen Saturation in Estero Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2011	86.341	87.70	48.90	121.3	15.085
Dissolved Oxygen Saturation	2012	87.432	87.35	31.40	173.3	16.695
Dissolved Oxygen Saturation	2015	66.733	77.20	41.00	82.0	22.415
Dissolved Oxygen Saturation	2016	49.384	43.35	2.31	109.2	25.182
Dissolved Oxygen Saturation	2017	50.991	50.90	4.20	79.2	16.018
Dissolved Oxygen Saturation	2018	70.719	73.80	1.20	143.2	22.217
Dissolved Oxygen Saturation	2019	71.368	75.05	1.40	116.1	22.442
Dissolved Oxygen Saturation	2020	70.391	71.45	3.80	102.9	19.525
Dissolved Oxygen Saturation	2021	70.521	75.45	2.90	113.2	19.361
Dissolved Oxygen Saturation	2022	68.523	71.15	5.90	102.1	19.083
Dissolved Oxygen Saturation	2023	67.450	70.20	8.90	103.0	18.436
Dissolved Oxygen Saturation	2024	78.362	83.80	7.10	99.6	19.318

Programs contributing WQ Data:

Table 200: Programs contributing WQ data for Dissolved Oxygen Saturation in Estero Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	95	2012	2018	80
Dissolved Oxygen Saturation	476	2018	2024	117
Dissolved Oxygen Saturation	4042	2016	2018	2
Dissolved Oxygen Saturation	4064	2011	2012	439
Dissolved Oxygen Saturation	5002	2015	2024	919

WQ Program names:

95 - Harmful Algal Bloom Marine Observation Network

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

4042 - Estero Bay Oyster Monitoring

4064 - A spatial model to improve site selection for seagrass restoration in shallow boating environments

5002 - Florida STORET / WIN

pH

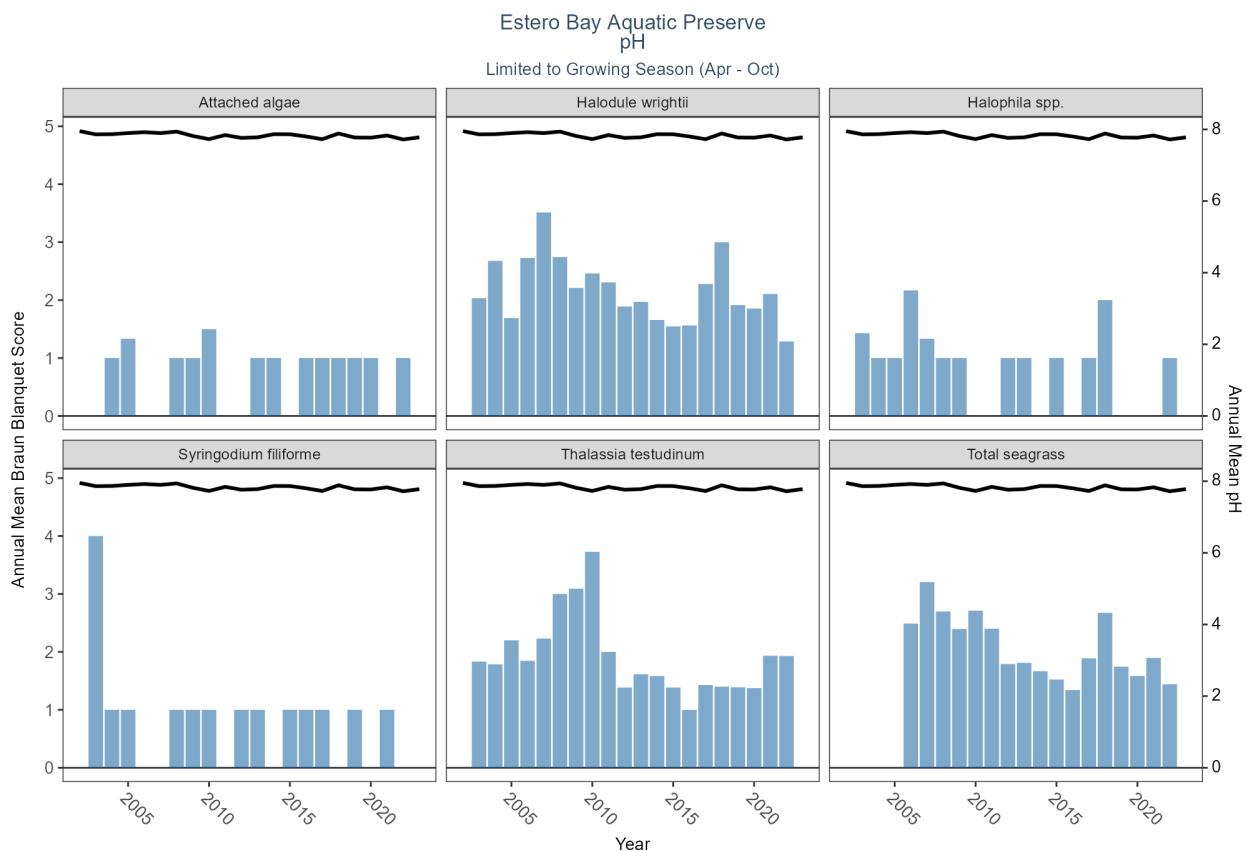


Table 201: WQ Summary for pH in Estero Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	2002	7.952	8.000	6.98	8.80	0.284
pH	2003	7.862	7.910	6.20	8.60	0.316

ParameterName	Year	mean	median	min	max	sd
pH	2004	7.867	7.900	5.37	8.60	0.290
pH	2005	7.897	7.900	6.75	8.80	0.265
pH	2006	7.922	8.000	7.11	8.70	0.266
pH	2007	7.897	7.900	7.10	8.80	0.273
pH	2008	7.938	8.000	7.10	8.90	0.278
pH	2009	7.816	7.900	6.94	8.30	0.288
pH	2010	7.728	7.900	6.63	8.10	0.334
pH	2011	7.842	7.900	6.49	8.50	0.285
pH	2012	7.763	7.800	6.90	8.44	0.267
pH	2013	7.778	7.900	5.30	8.80	0.401
pH	2014	7.867	7.900	5.30	8.46	0.295
pH	2015	7.865	7.900	7.00	8.37	0.261
pH	2016	7.803	7.900	5.84	8.29	0.276
pH	2017	7.727	7.800	6.50	9.58	0.301
pH	2018	7.886	7.980	7.10	8.35	0.246
pH	2019	7.773	7.885	7.00	8.12	0.233
pH	2020	7.769	7.800	6.90	8.10	0.220
pH	2021	7.830	7.900	7.10	8.21	0.197
pH	2022	7.719	7.800	7.00	8.10	0.220
pH	2023	7.779	7.800	7.00	8.16	0.207
pH	2024	7.824	7.900	7.10	8.10	0.189

Programs contributing WQ Data:

Table 202: Programs contributing WQ data for pH in Estero Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	2001	2007	1385
pH	95	2008	2018	266
pH	103	2003	2021	140
pH	115	2003	2003	3
pH	476	1998	2024	548
pH	509	2001	2008	165
pH	513	2003	2005	44
pH	4042	2016	2018	4
pH	5002	1991	2024	3837

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 509 - SERC Water Quality Monitoring Network
- 513 - Coastal Charlotte Harbor Monitoring Network
- 4042 - Estero Bay Oyster Monitoring
- 5002 - Florida STORET / WIN

Salinity

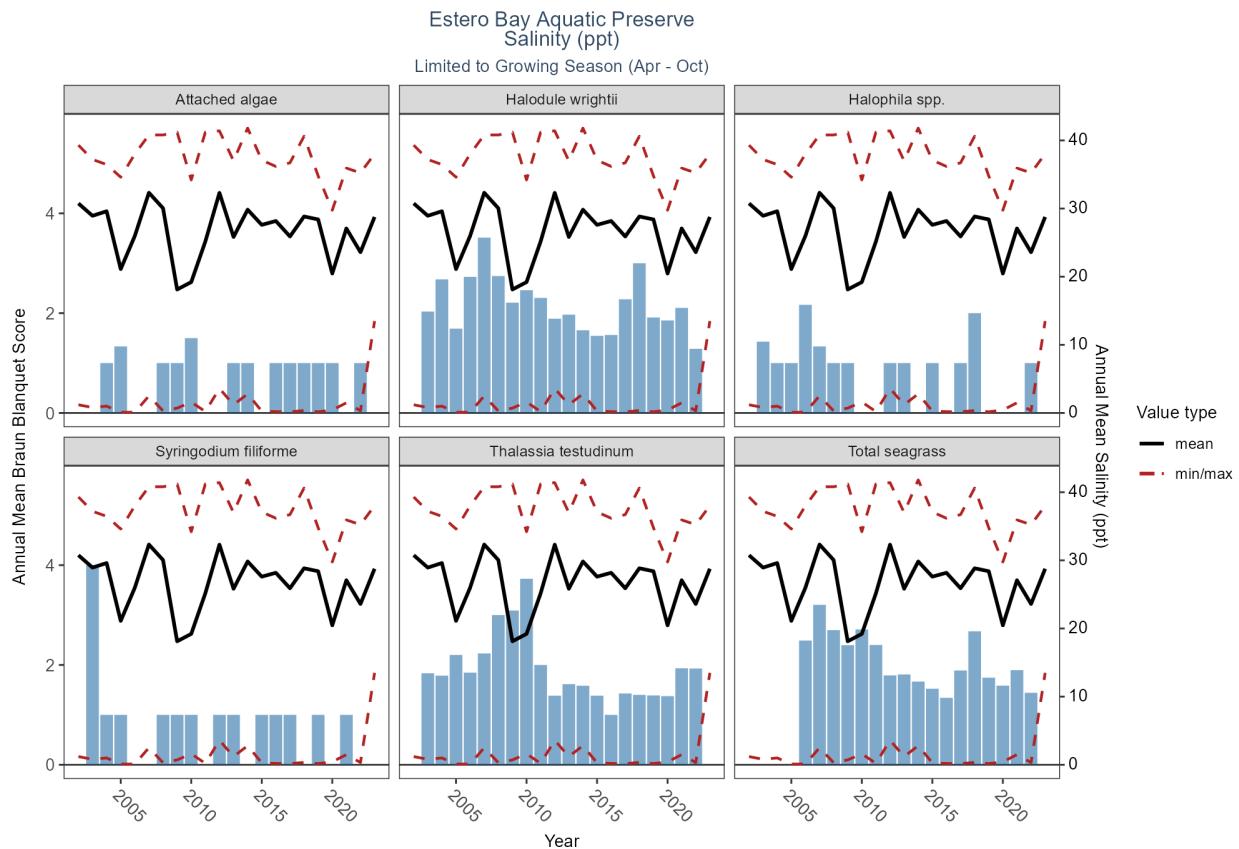


Table 203: WQ Summary for Salinity in Estero Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	2002	30.755	31.540	1.20	39.30	7.661
Salinity	2003	28.936	32.410	0.80	37.20	8.186
Salinity	2004	29.605	32.710	1.00	36.46	7.577
Salinity	2005	21.116	24.300	0.10	34.60	11.886
Salinity	2006	25.983	31.300	0.10	38.00	11.451
Salinity	2007	32.321	35.600	2.50	40.80	8.297
Salinity	2008	30.046	33.740	0.30	40.80	10.586
Salinity	2009	18.120	16.650	0.71	41.20	14.245
Salinity	2010	19.206	21.400	1.61	34.20	11.665
Salinity	2011	25.166	27.800	0.20	41.20	9.577
Salinity	2012	32.302	34.800	3.60	41.40	5.642
Salinity	2013	25.828	28.500	1.20	37.00	11.101
Salinity	2014	29.836	32.500	2.80	41.80	8.132
Salinity	2015	27.606	31.050	0.27	37.10	8.544
Salinity	2016	28.174	30.690	0.19	36.18	7.901
Salinity	2017	25.900	29.760	0.16	36.71	11.122
Salinity	2018	28.835	30.770	0.35	40.61	9.151
Salinity	2019	28.401	31.570	0.17	34.78	8.955
Salinity	2020	20.464	25.220	0.43	29.76	12.053
Salinity	2021	27.080	30.730	1.49	35.93	10.308

ParameterName	Year	mean	median	min	max	sd
Salinity	2022	23.597	28.175	0.33	35.24	12.273
Salinity	2023	28.770	29.370	13.49	38.02	8.078
Salinity	2024	30.293	31.750	18.81	34.46	5.383

Programs contributing WQ Data:

Table 204: Programs contributing WQ data for Salinity in Estero Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	2001	2007	1384
Salinity	95	1964	2018	300
Salinity	115	2003	2003	3
Salinity	476	1998	2024	573
Salinity	509	1999	2008	414
Salinity	513	2003	2005	39
Salinity	4042	2016	2018	4
Salinity	4064	2011	2012	439
Salinity	5002	2009	2023	69

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 115 - Environmental Monitoring Assessment Program
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 509 - SERC Water Quality Monitoring Network
- 513 - Coastal Charlotte Harbor Monitoring Network
- 4042 - Estero Bay Oyster Monitoring
- 4064 - A spatial model to improve site selection for seagrass restoration in shallow boating environments
- 5002 - Florida STORET / WIN

Secchi Depth



Table 205: WQ Summary for Secchi Depth in Estero Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2002	1.171	1.250	0.800	1.500	0.220
Secchi depth	2003	1.278	1.300	0.600	1.800	0.375
Secchi depth	2004	0.933	0.800	0.300	1.600	0.378
Secchi depth	2005	0.907	0.800	0.200	2.500	0.443
Secchi depth	2006	0.998	0.900	0.100	3.400	0.491
Secchi depth	2007	1.020	0.900	0.400	3.600	0.414
Secchi depth	2008	1.521	1.350	0.500	3.300	0.814
Secchi depth	2009	1.138	1.000	0.600	1.700	0.273
Secchi depth	2010	1.076	1.000	0.500	1.900	0.346
Secchi depth	2011	1.117	1.200	0.400	1.800	0.432
Secchi depth	2012	1.171	1.058	0.650	1.800	0.303
Secchi depth	2013	1.062	1.083	0.350	2.225	0.412
Secchi depth	2014	1.048	0.850	0.350	1.981	0.472
Secchi depth	2015	0.978	0.950	0.244	1.800	0.407
Secchi depth	2016	1.040	1.000	0.350	1.829	0.448
Secchi depth	2017	1.072	0.950	0.549	2.200	0.466
Secchi depth	2018	1.203	1.200	0.305	2.000	0.464
Secchi depth	2019	1.148	1.125	0.200	1.829	0.443
Secchi depth	2020	1.175	1.050	0.850	1.700	0.353
Secchi depth	2021	1.121	1.050	0.700	1.800	0.311

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2022	1.215	1.225	0.600	1.800	0.363
Secchi depth	2023	1.252	1.150	0.250	2.100	0.466
Secchi depth	2024	0.824	0.700	0.550	1.300	0.275

Programs contributing WQ Data:

Table 206: Programs contributing WQ data for Secchi Depth in Estero Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	2001	2007	1385
Secchi depth	103	2021	2021	28
Secchi depth	476	1998	2024	453
Secchi depth	513	2003	2005	28
Secchi depth	514	2011	2019	55
Secchi depth	5002	2007	2023	88

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

513 - Coastal Charlotte Harbor Monitoring Network

514 - Florida LAKEWATCH Program

5002 - Florida STORET / WIN

Total Nitrogen & Total Phosphorus

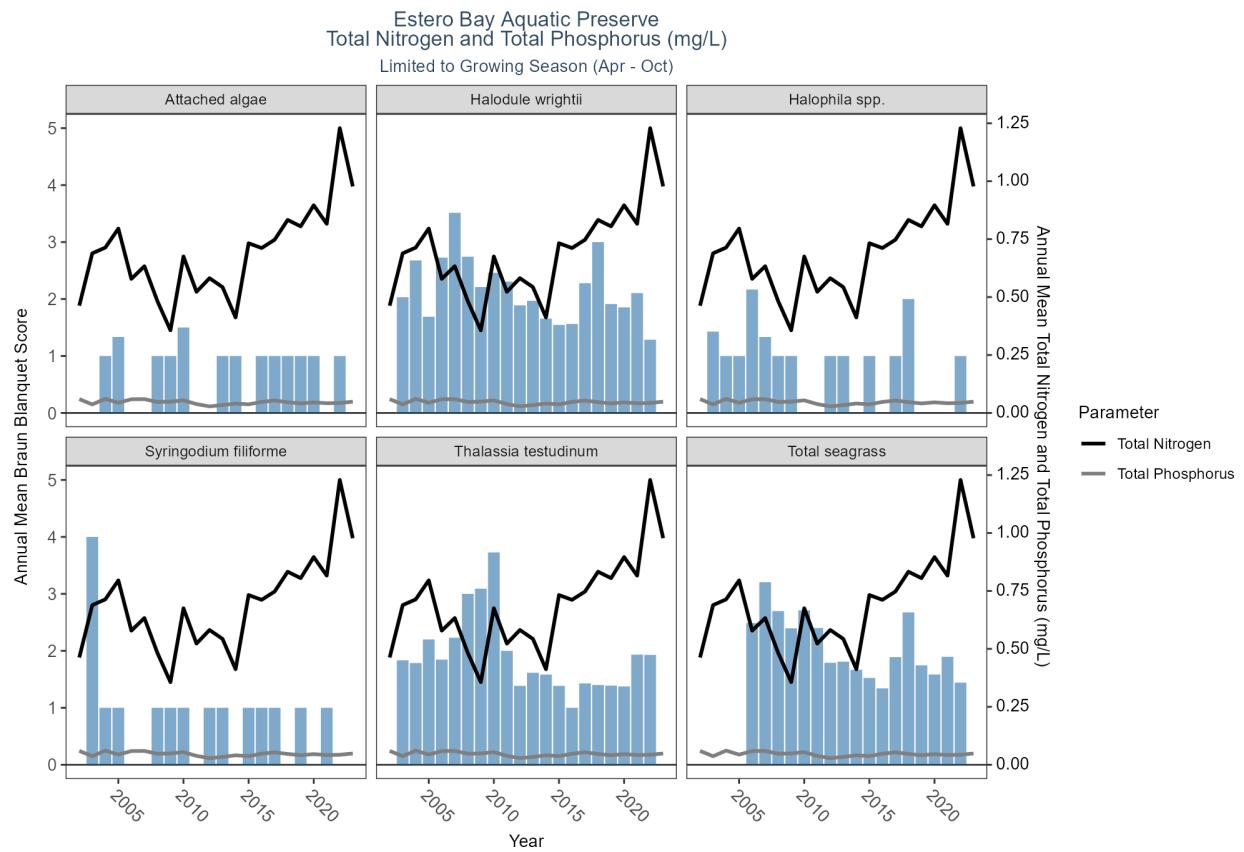


Table 207: WQ Summary for Total Nitrogen & Total Phosphorus in Estero Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2002	0.463	0.425	0.120	1.950	0.246
Total Nitrogen	2003	0.689	0.570	0.114	2.320	0.422
Total Nitrogen	2004	0.714	0.694	0.228	1.480	0.238
Total Nitrogen	2005	0.796	0.776	0.114	4.046	0.395
Total Nitrogen	2006	0.579	0.530	0.135	1.910	0.282
Total Nitrogen	2007	0.633	0.600	0.060	1.600	0.307
Total Nitrogen	2008	0.482	0.390	0.050	1.684	0.298
Total Nitrogen	2009	0.357	0.295	0.050	1.800	0.271
Total Nitrogen	2010	0.675	0.590	0.220	1.700	0.269
Total Nitrogen	2011	0.523	0.410	0.000	5.100	0.536
Total Nitrogen	2012	0.582	0.544	0.000	1.700	0.359
Total Nitrogen	2013	0.543	0.560	0.000	1.500	0.399
Total Nitrogen	2014	0.412	0.400	0.000	1.662	0.265
Total Nitrogen	2015	0.732	0.770	0.000	1.400	0.266
Total Nitrogen	2016	0.712	0.690	0.000	1.200	0.194
Total Nitrogen	2017	0.747	0.735	0.000	1.500	0.216
Total Nitrogen	2018	0.833	0.835	0.374	1.410	0.171
Total Nitrogen	2019	0.805	0.830	0.220	1.313	0.176
Total Nitrogen	2020	0.896	0.900	0.455	1.560	0.181

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2021	0.816	0.830	0.297	1.526	0.201
Total Nitrogen	2022	1.229	0.860	0.166	57.943	4.531
Total Nitrogen	2023	0.978	0.970	0.244	2.451	0.245
Total Nitrogen	2024	0.974	0.960	0.294	1.410	0.230
Total Phosphorus	2002	0.060	0.050	0.026	0.120	0.021
Total Phosphorus	2003	0.037	0.030	0.000	0.130	0.019
Total Phosphorus	2004	0.061	0.057	0.000	0.140	0.027
Total Phosphorus	2005	0.044	0.040	0.000	0.160	0.025
Total Phosphorus	2006	0.059	0.052	0.026	0.152	0.022
Total Phosphorus	2007	0.060	0.055	0.020	0.240	0.031
Total Phosphorus	2008	0.048	0.042	0.024	0.098	0.015
Total Phosphorus	2009	0.049	0.052	0.022	0.064	0.013
Total Phosphorus	2010	0.054	0.054	0.028	0.079	0.014
Total Phosphorus	2011	0.038	0.043	0.000	0.069	0.020
Total Phosphorus	2012	0.028	0.038	0.000	0.066	0.025
Total Phosphorus	2013	0.034	0.042	0.000	0.086	0.026
Total Phosphorus	2014	0.041	0.046	0.000	0.110	0.026
Total Phosphorus	2015	0.037	0.041	0.000	0.150	0.031
Total Phosphorus	2016	0.048	0.050	0.000	0.100	0.021
Total Phosphorus	2017	0.054	0.053	0.000	0.110	0.024
Total Phosphorus	2018	0.047	0.045	0.006	0.140	0.019
Total Phosphorus	2019	0.041	0.038	0.017	0.110	0.015
Total Phosphorus	2020	0.046	0.041	0.008	0.140	0.020
Total Phosphorus	2021	0.042	0.040	0.008	0.159	0.015
Total Phosphorus	2022	0.043	0.040	0.008	0.140	0.017
Total Phosphorus	2023	0.049	0.047	0.006	0.190	0.026
Total Phosphorus	2024	0.033	0.035	0.006	0.081	0.016

Programs contributing WQ Data:

Table 208: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Estero Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	103	2003	2003	7
Total Nitrogen	115	2003	2003	1
Total Nitrogen	303	2020	2020	4
Total Nitrogen	476	1998	2024	510
Total Nitrogen	509	1999	2008	207
Total Nitrogen	513	2003	2005	38
Total Nitrogen	514	2011	2019	57
Total Nitrogen	4063	2018	2024	36
Total Nitrogen	5002	1991	2024	3687
Total Phosphorus	103	2003	2021	124
Total Phosphorus	115	2003	2003	1
Total Phosphorus	303	2020	2020	4
Total Phosphorus	476	1998	2024	544
Total Phosphorus	509	1999	2008	207
Total Phosphorus	513	2003	2005	46
Total Phosphorus	514	2011	2019	57
Total Phosphorus	4063	2018	2024	41

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Phosphorus	5002	2007	2024	879

WQ Program names:

- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 303 - River, Estuary and Coastal Observing Network
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 509 - SERC Water Quality Monitoring Network
- 513 - Coastal Charlotte Harbor Monitoring Network
- 514 - Florida LAKEWATCH Program
- 4063 - Estero Bay Tributary Monitoring
- 5002 - Florida STORET / WIN

Total Susepended Solids

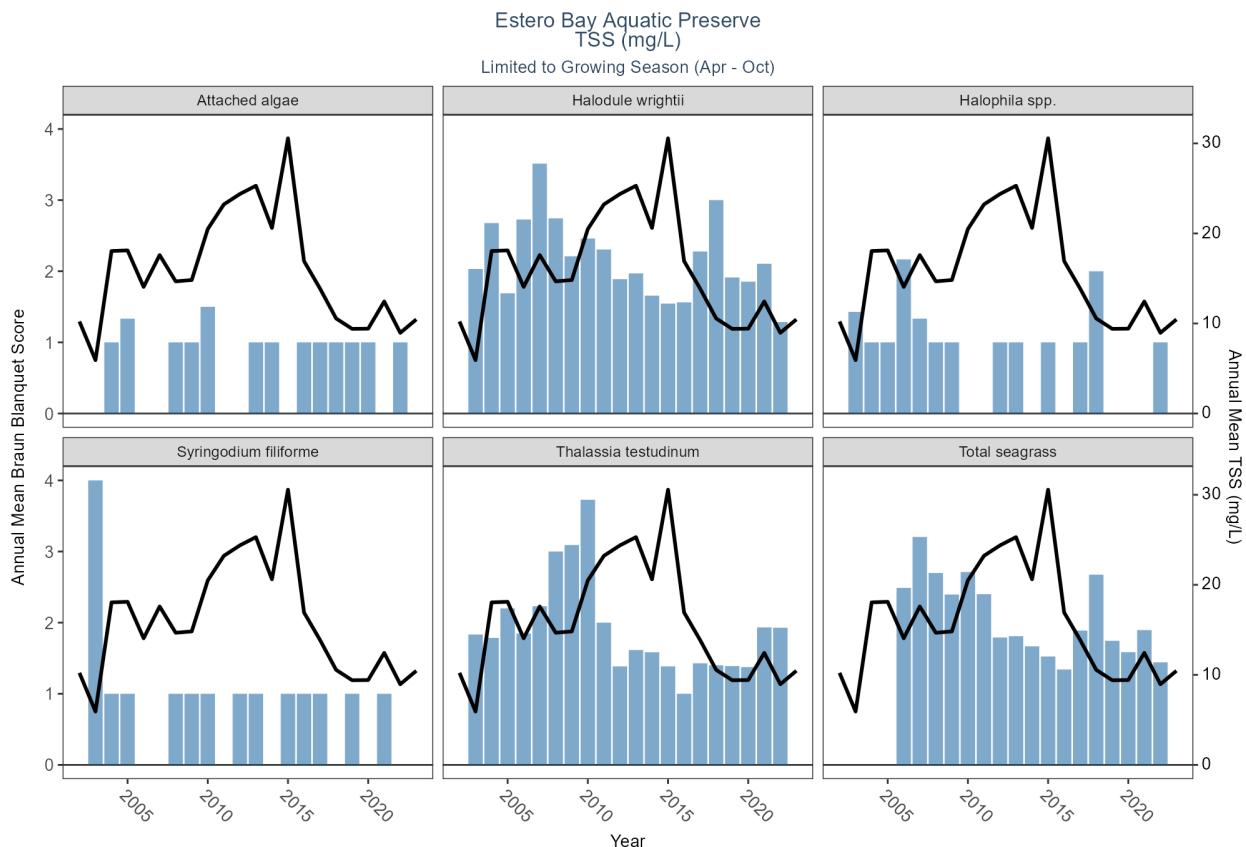


Table 209: WQ Summary for Total Susepended Solids in Estero Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	2002	10.222	4.000	2.000	31.0	10.060
TSS	2003	5.926	3.900	2.000	60.5	6.363
TSS	2004	18.050	12.000	2.400	173.8	22.822

ParameterName	Year	mean	median	min	max	sd
TSS	2005	18.115	18.100	1.500	66.0	11.617
TSS	2006	14.061	13.500	0.600	32.0	5.667
TSS	2007	17.596	14.800	1.500	175.0	16.311
TSS	2008	14.676	14.000	1.200	39.3	7.268
TSS	2009	14.824	13.550	0.600	44.9	8.181
TSS	2010	20.491	20.150	1.350	90.1	12.192
TSS	2011	23.220	23.200	1.000	70.0	14.584
TSS	2012	24.379	23.600	1.300	56.2	11.483
TSS	2013	25.298	23.900	1.600	80.9	15.628
TSS	2014	20.608	19.400	1.200	48.3	10.906
TSS	2015	30.569	30.450	0.600	73.6	17.429
TSS	2016	16.929	13.550	1.000	47.5	10.639
TSS	2017	13.866	9.015	0.825	66.5	12.588
TSS	2018	10.554	6.820	0.600	48.1	9.641
TSS	2019	9.403	6.900	0.600	42.6	7.980
TSS	2020	9.423	6.700	0.600	59.8	9.195
TSS	2021	12.440	9.950	0.600	47.2	8.440
TSS	2022	8.960	7.050	0.600	50.2	6.629
TSS	2023	10.452	8.400	3.000	50.6	7.061
TSS	2024	10.915	9.400	2.200	31.7	5.836

Programs contributing WQ Data:

Table 210: Programs contributing WQ data for Total Suspended Solids in Estero Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	103	2021	2021	94
TSS	513	2003	2005	46
TSS	4063	2018	2024	41
TSS	5002	1992	2024	3059

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

513 - Coastal Charlotte Harbor Monitoring Network

4063 - Estero Bay Tributary Monitoring

5002 - Florida STORET / WIN

Turbidity

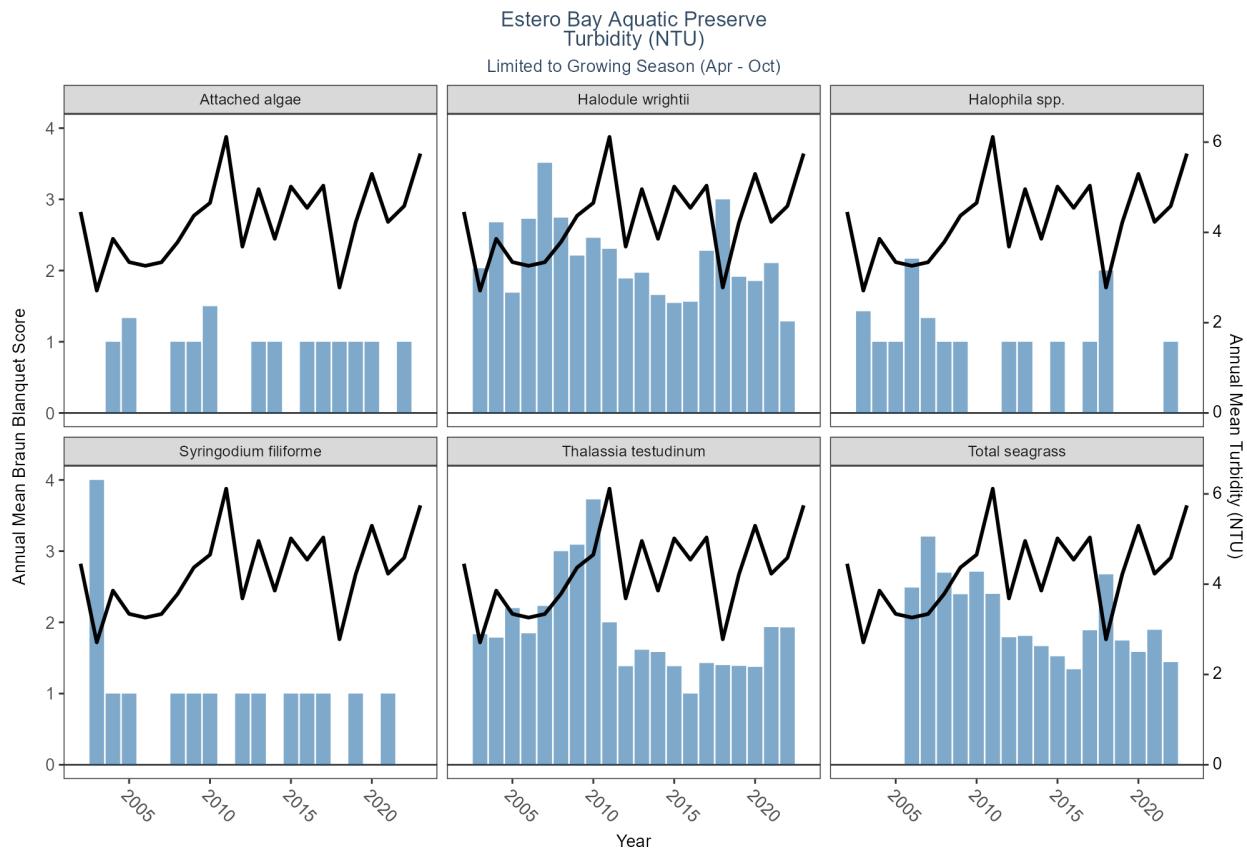


Table 211: WQ Summary for Turbidity in Estero Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	2002	4.453	3.300	0.130	33.0	4.299
Turbidity	2003	2.711	2.100	0.600	17.0	1.947
Turbidity	2004	3.858	2.850	0.780	26.0	3.093
Turbidity	2005	3.342	2.600	0.200	24.0	2.724
Turbidity	2006	3.260	2.500	0.200	63.9	4.538
Turbidity	2007	3.339	2.650	0.315	57.0	3.990
Turbidity	2008	3.786	3.320	1.350	17.4	2.167
Turbidity	2009	4.370	3.525	0.914	15.2	2.619
Turbidity	2010	4.654	3.810	0.958	20.4	3.169
Turbidity	2011	6.116	3.875	1.110	49.8	6.899
Turbidity	2012	3.685	3.090	1.080	12.0	2.113
Turbidity	2013	4.959	3.700	1.180	35.6	4.270
Turbidity	2014	3.858	3.405	1.010	12.8	2.189
Turbidity	2015	5.015	4.130	0.785	35.6	3.674
Turbidity	2016	4.543	3.520	0.200	35.0	4.583
Turbidity	2017	5.036	4.035	0.200	23.3	3.240
Turbidity	2018	2.779	1.990	0.200	19.0	3.003
Turbidity	2019	4.218	3.255	0.200	38.2	4.705
Turbidity	2020	5.295	3.520	0.830	62.9	7.702
Turbidity	2021	4.232	3.440	0.200	25.7	3.240

ParameterName	Year	mean	median	min	max	sd
Turbidity	2022	4.585	3.580	0.000	39.3	3.860
Turbidity	2023	5.746	4.340	0.200	30.9	4.823
Turbidity	2024	5.101	4.790	1.390	13.0	2.534

Programs contributing WQ Data:

Table 212: Programs contributing WQ data for Turbidity in Estero Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	103	2021	2021	121
Turbidity	476	1999	2024	577
Turbidity	509	1999	2008	207
Turbidity	513	2003	2005	46
Turbidity	4042	2016	2018	4
Turbidity	4063	2018	2024	34
Turbidity	5002	1991	2024	3711

WQ Program names:

- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 509 - SERC Water Quality Monitoring Network
- 513 - Coastal Charlotte Harbor Monitoring Network
- 4042 - Estero Bay Oyster Monitoring
- 4063 - Estero Bay Tributary Monitoring
- 5002 - Florida STORET / WIN

Water Temperature



Table 213: WQ Summary for Water Temperature in Estero Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	2002	28.499	28.600	23.90	32.60	2.118
Temperature	2003	28.691	29.005	24.00	32.00	1.716
Temperature	2004	27.006	27.300	18.10	32.00	3.341
Temperature	2005	28.010	28.400	15.50	33.40	2.854
Temperature	2006	28.706	29.300	18.00	34.80	2.717
Temperature	2007	28.571	29.200	19.00	36.87	2.842
Temperature	2008	27.885	28.400	20.00	32.80	2.641
Temperature	2009	28.524	29.500	19.40	32.40	2.682
Temperature	2010	27.971	28.500	20.00	32.80	2.778
Temperature	2011	27.843	27.800	22.34	32.20	2.315
Temperature	2012	29.004	29.550	22.50	36.40	2.434
Temperature	2013	27.290	27.800	20.50	31.50	2.564
Temperature	2014	27.959	28.300	19.60	32.82	2.555
Temperature	2015	28.218	28.600	21.20	32.00	2.247
Temperature	2016	28.055	28.900	22.00	32.90	2.799
Temperature	2017	28.427	28.700	21.20	32.70	2.378
Temperature	2018	28.827	29.200	20.98	32.60	2.270
Temperature	2019	28.718	29.300	22.90	31.70	2.097
Temperature	2020	28.494	28.700	23.80	32.00	2.209

ParameterName	Year	mean	median	min	max	sd
Temperature	2021	28.316	28.900	19.10	32.50	2.068
Temperature	2022	28.248	29.200	23.20	31.70	2.337
Temperature	2023	29.263	29.650	21.90	32.80	2.534
Temperature	2024	26.780	27.400	22.80	30.40	2.645

Programs contributing WQ Data:

Table 214: Programs contributing WQ data for Water Temperature in Estero Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	2001	2007	1385
Temperature	95	1964	2018	297
Temperature	103	2021	2021	140
Temperature	115	2003	2003	3
Temperature	476	1998	2024	579
Temperature	509	1999	2008	414
Temperature	513	2003	2005	86
Temperature	4042	2016	2018	4
Temperature	4064	2011	2012	439
Temperature	5002	1992	2024	3298

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 509 - SERC Water Quality Monitoring Network
- 513 - Coastal Charlotte Harbor Monitoring Network
- 4042 - Estero Bay Oyster Monitoring
- 4064 - A spatial model to improve site selection for seagrass restoration in shallow boating environments
- 5002 - Florida STORET / WIN

Florida Keys National Marine Sanctuary

Programs contributing SAV Data:

Table 215: Programs contributing SAV data in Florida Keys National Marine Sanctuary

ParameterName	ProgramID	YearMin	YearMax	N_Data
Braun Blanquet Score	296	1996	2021	4200
Braun Blanquet Score	965	2005	2011	65538
Braun Blanquet Score	4018	1999	2023	3925
Braun Blanquet Score	4049	2005	2023	99384
Percent Cover	4018	1999	2007	279

SAV Program names:

296 - Florida Keys National Marine Sanctuary Seagrass Monitoring Project

965 - South Florida Seagrass Fish and Invertebrate Assessment Network

4018 - Miami-Dade County DERM Benthic Habitat Monitoring Program

4018 - Miami-Dade County DERM Benthic Habitat Monitoring Program

4049 - The South Florida Fisheries Habitat Assessment Program (FHAP)

Chlorophyll-a (corrected & uncorrected)

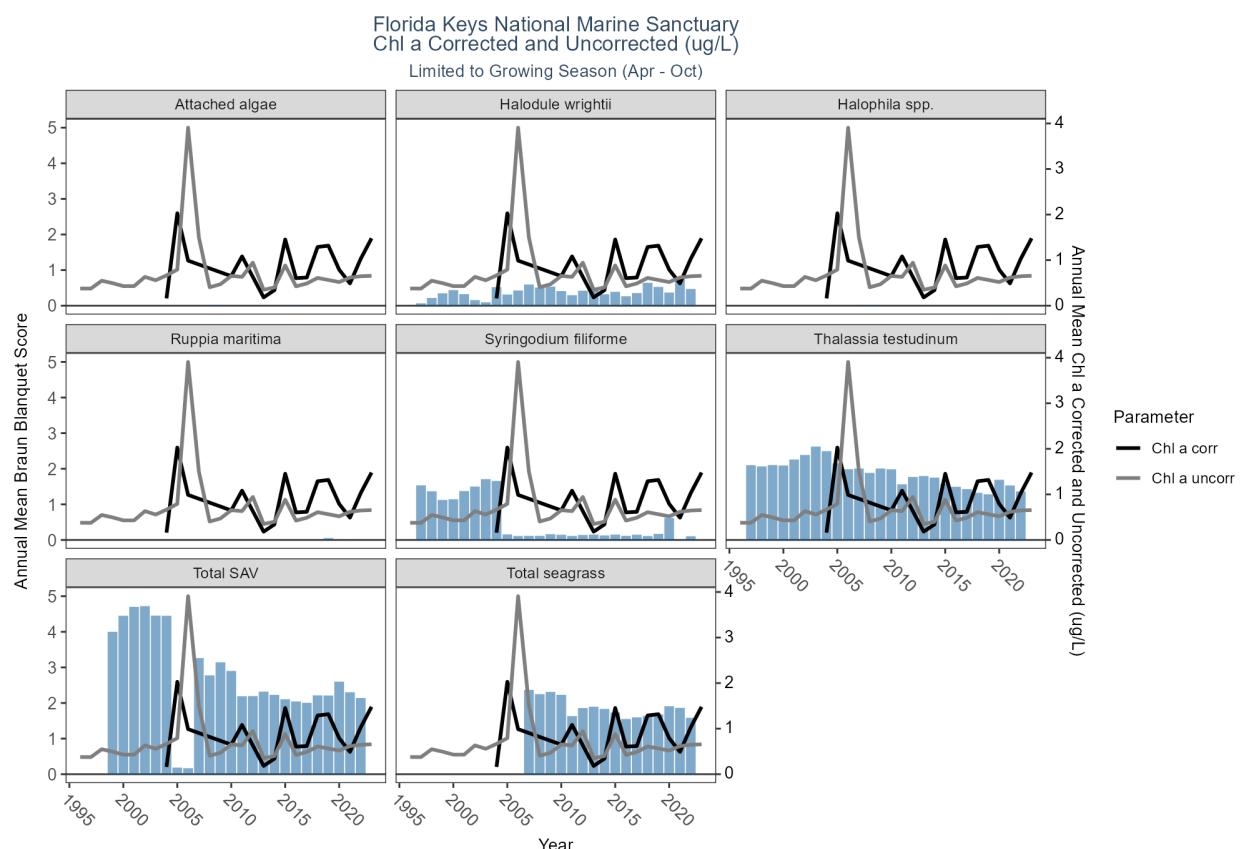


Table 216: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Florida Keys National Marine Sanctuary

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2004	0.160	0.160	0.160	0.160	0.000
Chl a corr	2005	2.029	0.850	0.850	23.000	3.117
Chl a corr	2006	0.989	0.850	0.850	2.100	0.417
Chl a corr	2010	0.649	0.550	0.550	4.600	0.284
Chl a corr	2011	1.082	1.050	0.230	1.680	0.348
Chl a corr	2013	0.182	0.000	0.000	2.000	0.446
Chl a corr	2014	0.341	0.000	0.000	3.000	0.608
Chl a corr	2015	1.454	0.680	0.000	9.400	1.863
Chl a corr	2016	0.605	0.610	0.000	4.000	0.508
Chl a corr	2017	0.618	0.550	0.550	1.700	0.148
Chl a corr	2018	1.289	1.300	0.550	2.000	0.162
Chl a corr	2019	1.317	1.000	0.820	7.000	1.100
Chl a corr	2020	0.791	0.505	0.136	9.710	1.035
Chl a corr	2021	0.490	0.310	0.136	6.200	0.677
Chl a corr	2022	1.030	0.960	0.820	3.200	0.332
Chl a corr	2023	1.479	0.960	0.820	14.000	2.067
Chl a corr	2024	0.974	0.930	0.930	1.200	0.096
Chl a uncorr	1996	0.377	0.280	0.061	3.409	0.254
Chl a uncorr	1997	0.376	0.336	0.010	2.767	0.231
Chl a uncorr	1998	0.548	0.382	0.000	10.194	0.710
Chl a uncorr	1999	0.495	0.317	0.000	4.869	0.580
Chl a uncorr	2000	0.430	0.318	0.000	3.817	0.385
Chl a uncorr	2001	0.430	0.230	0.000	16.000	0.935
Chl a uncorr	2002	0.632	0.391	0.000	10.000	0.779
Chl a uncorr	2003	0.558	0.479	0.000	39.000	1.052
Chl a uncorr	2004	0.665	0.542	0.000	20.000	0.801
Chl a uncorr	2005	0.792	0.478	0.000	7.000	0.793
Chl a uncorr	2006	3.908	3.808	0.000	24.100	3.226
Chl a uncorr	2007	1.500	0.864	0.000	7.883	1.759
Chl a uncorr	2008	0.404	0.322	0.000	6.020	0.333
Chl a uncorr	2009	0.471	0.286	0.000	2.554	0.451
Chl a uncorr	2010	0.654	0.410	0.000	5.376	0.750
Chl a uncorr	2011	0.632	0.413	0.000	49.930	1.835
Chl a uncorr	2012	0.943	0.631	0.000	3.000	0.808
Chl a uncorr	2013	0.350	0.223	0.000	5.126	0.529
Chl a uncorr	2014	0.400	0.301	0.000	5.000	0.462
Chl a uncorr	2015	0.884	0.469	0.000	10.000	1.599
Chl a uncorr	2016	0.425	0.369	0.000	5.000	0.425
Chl a uncorr	2017	0.488	0.400	0.000	3.815	0.382
Chl a uncorr	2018	0.609	0.404	0.000	6.000	0.663
Chl a uncorr	2019	0.564	0.370	0.000	8.590	0.828
Chl a uncorr	2020	0.519	0.341	0.066	15.000	0.872
Chl a uncorr	2021	0.617	0.351	0.000	7.720	0.835
Chl a uncorr	2022	0.646	0.422	0.100	34.572	1.787
Chl a uncorr	2023	0.656	0.439	0.100	15.000	1.242
Chl a uncorr	2024	0.738	0.680	0.680	1.100	0.137

Programs contributing WQ Data:

Table 217: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Florida Keys National Marine Sanctuary

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	514	2019	2023	91
Chl a corr	5002	2004	2024	3000
Chl a uncorr	3	1998	2023	5786
Chl a uncorr	60	1993	2016	339
Chl a uncorr	103	2000	2021	156
Chl a uncorr	115	2000	2004	44
Chl a uncorr	118	2010	2010	37
Chl a uncorr	297	1995	2023	9101
Chl a uncorr	509	1990	2008	11609
Chl a uncorr	514	1999	2023	1683
Chl a uncorr	5002	2001	2024	1990

WQ Program names:

514 - Florida LAKEWATCH Program

5002 - Florida STORET / WIN

3 - Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Synoptic Shipboard Surveys

60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

297 - Florida Keys National Marine Sanctuary Water Quality Monitoring Project

509 - SERC Water Quality Monitoring Network

Colored Dissolved Organic Matter

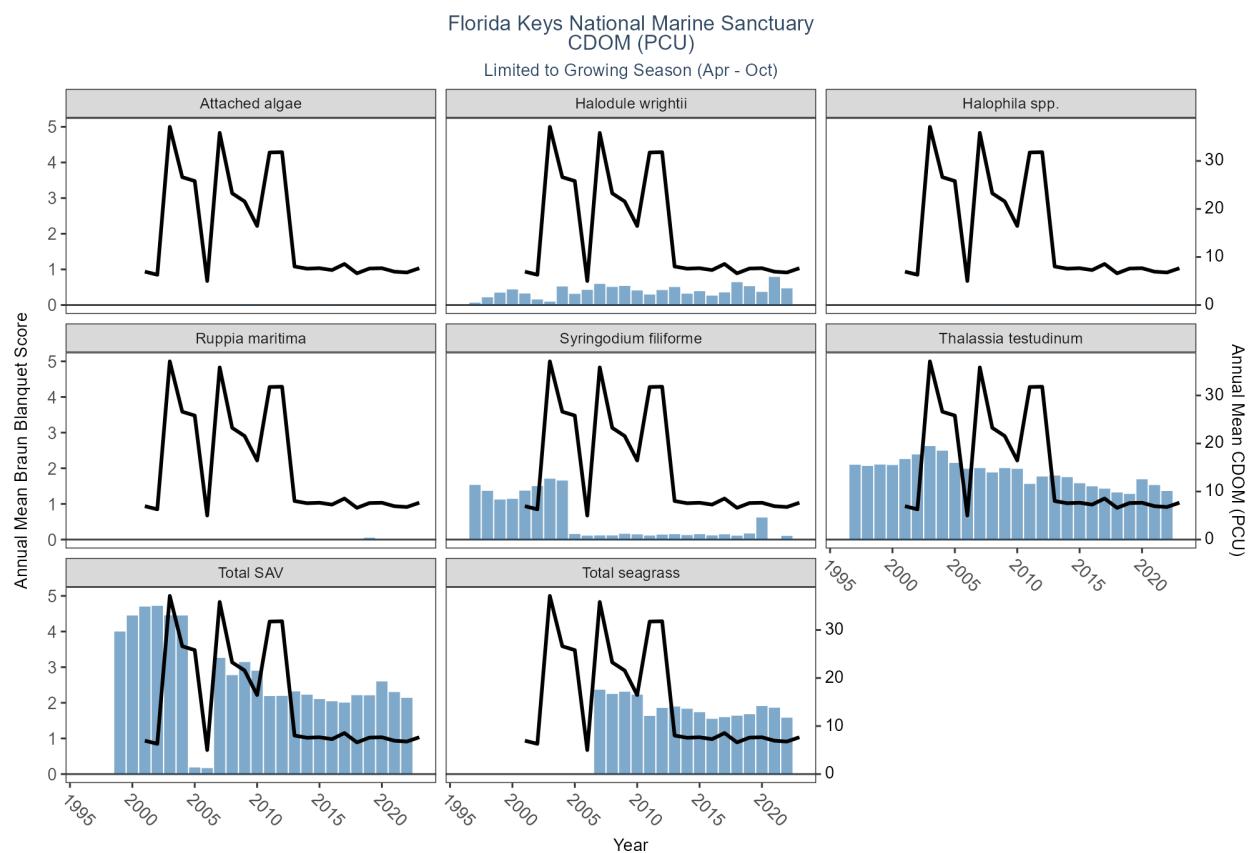


Table 218: WQ Summary for Colored Dissolved Organic Matter in Florida Keys National Marine Sanctuary

ParameterName	Year	mean	median	min	max	sd
CDOM	2001	6.955	6.000	0.000	20.000	3.955
CDOM	2002	6.301	5.000	0.000	16.790	3.809
CDOM	2003	37.103	43.277	1.000	56.690	18.712
CDOM	2004	26.616	24.614	0.000	56.146	16.772
CDOM	2005	25.817	26.361	0.000	47.569	13.206
CDOM	2006	5.000	5.000	5.000	5.000	NA
CDOM	2007	35.844	31.382	1.000	71.486	23.676
CDOM	2008	23.260	28.284	2.000	37.089	12.297
CDOM	2009	21.557	19.437	3.000	34.270	10.607
CDOM	2010	16.456	19.579	0.201	28.332	10.885
CDOM	2011	31.759	20.969	4.000	60.843	20.526
CDOM	2012	31.825	38.502	3.000	48.617	14.137
CDOM	2013	8.023	7.000	3.000	38.000	5.904
CDOM	2014	7.568	6.000	4.000	25.000	4.519
CDOM	2015	7.667	7.000	4.000	22.000	4.000
CDOM	2016	7.278	6.000	3.000	21.000	4.295
CDOM	2017	8.545	8.000	4.000	16.000	3.560
CDOM	2018	6.600	6.500	4.000	11.000	1.759
CDOM	2019	7.600	7.000	3.000	14.000	2.699

ParameterName	Year	mean	median	min	max	sd
CDOM	2020	7.667	7.500	6.000	9.000	1.211
CDOM	2021	6.947	7.000	6.000	10.000	0.970
CDOM	2022	6.778	7.000	6.000	8.000	0.667
CDOM	2023	7.667	8.000	5.000	9.000	1.633

Programs contributing WQ Data:

Table 219: Programs contributing WQ data for Colored Dissolved Organic Matter in Florida Keys National Marine Sanctuary

ParameterName	ProgramID	YearMin	YearMax	N_Data
CDOM	3	2001	2012	2757
CDOM	103	2021	2021	9
CDOM	514	2001	2023	698

WQ Program names:

- 3 - Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Synoptic Shipboard Surveys
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 514 - Florida LAKEWATCH Program

Dissolved Oxygen

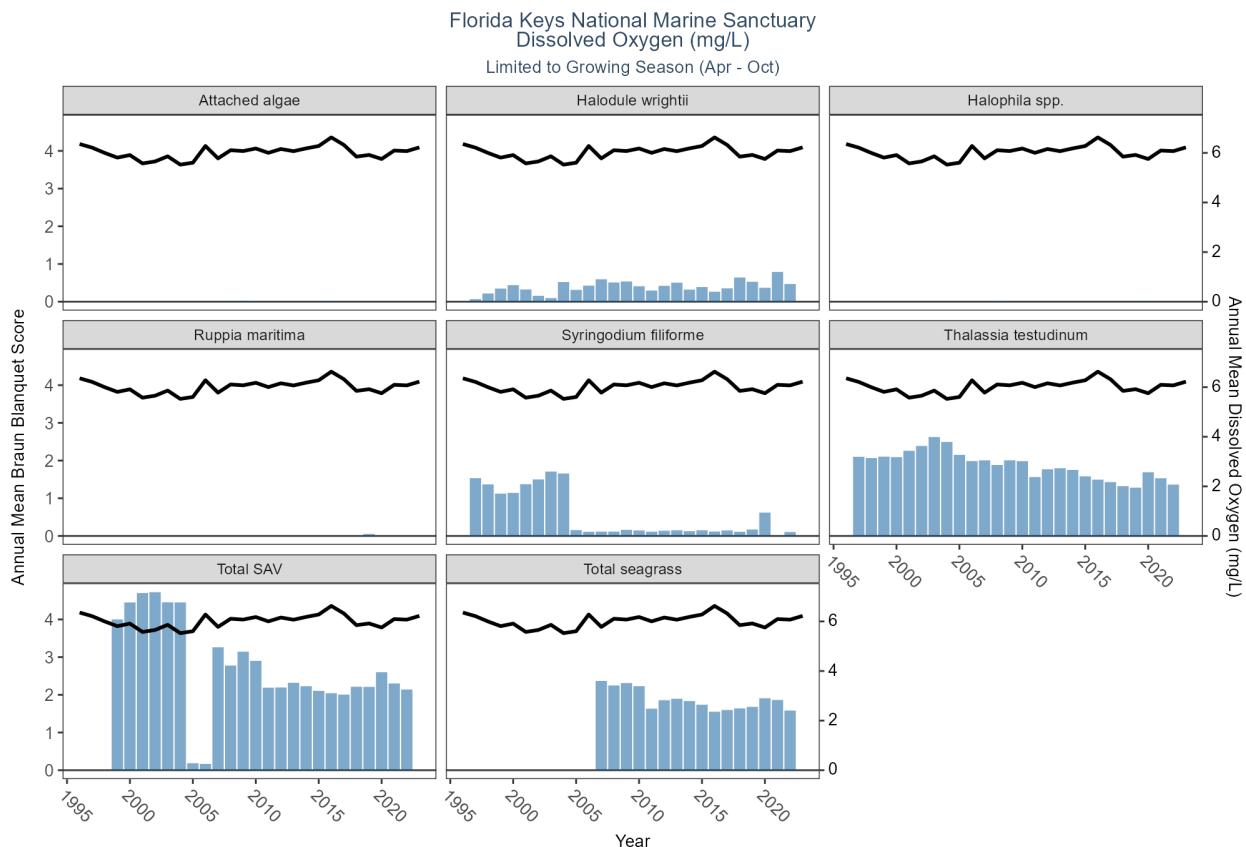


Table 220: WQ Summary for Dissolved Oxygen in Florida Keys National Marine Sanctuary

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	1996	6.357	6.500	3.000	10.900	0.918
Dissolved Oxygen	1997	6.211	6.200	2.600	9.500	0.728
Dissolved Oxygen	1998	5.997	5.900	2.800	10.400	0.977
Dissolved Oxygen	1999	5.809	5.910	1.400	9.700	1.007
Dissolved Oxygen	2000	5.912	6.000	2.100	12.800	0.971
Dissolved Oxygen	2001	5.575	5.500	2.700	12.200	1.195
Dissolved Oxygen	2002	5.655	5.570	2.550	10.780	0.696
Dissolved Oxygen	2003	5.862	5.830	2.646	9.010	0.846
Dissolved Oxygen	2004	5.526	5.610	1.480	9.320	0.966
Dissolved Oxygen	2005	5.604	5.560	0.160	14.532	1.097
Dissolved Oxygen	2006	6.278	6.260	1.100	13.813	0.988
Dissolved Oxygen	2007	5.778	6.100	2.069	10.500	1.221
Dissolved Oxygen	2008	6.107	6.165	2.180	10.300	1.047
Dissolved Oxygen	2009	6.074	6.084	3.090	9.290	0.849
Dissolved Oxygen	2010	6.176	6.334	2.580	10.070	0.880
Dissolved Oxygen	2011	6.002	6.070	3.580	11.020	0.832
Dissolved Oxygen	2012	6.156	6.060	1.510	8.610	0.782
Dissolved Oxygen	2013	6.069	6.178	2.960	8.990	0.912
Dissolved Oxygen	2014	6.181	6.240	1.230	9.180	0.823
Dissolved Oxygen	2015	6.277	6.300	0.200	9.300	0.895
Dissolved Oxygen	2016	6.624	6.670	0.650	12.100	0.999
Dissolved Oxygen	2017	6.321	6.381	1.550	8.900	1.139
Dissolved Oxygen	2018	5.848	6.050	0.290	7.460	0.750
Dissolved Oxygen	2019	5.917	6.010	3.830	7.460	0.606
Dissolved Oxygen	2020	5.754	5.960	0.040	9.380	0.925
Dissolved Oxygen	2021	6.094	6.230	0.040	9.170	0.614
Dissolved Oxygen	2022	6.071	6.120	3.410	9.740	0.759
Dissolved Oxygen	2023	6.222	6.250	4.210	7.530	0.500
Dissolved Oxygen	2024	6.797	6.630	5.910	7.640	0.439

Programs contributing WQ Data:

Table 221: Programs contributing WQ data for Dissolved Oxygen in Florida Keys National Marine Sanctuary

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	60	1993	2016	1548
Dissolved Oxygen	62	1993	2019	1120
Dissolved Oxygen	69	1997	2022	2097
Dissolved Oxygen	95	1994	2018	470
Dissolved Oxygen	102	1996	2000	42
Dissolved Oxygen	103	1970	2021	1433
Dissolved Oxygen	115	2000	2004	137
Dissolved Oxygen	118	2015	2021	321
Dissolved Oxygen	297	1995	2023	18629
Dissolved Oxygen	509	1989	2008	22926
Dissolved Oxygen	899	2014	2014	49
Dissolved Oxygen	3000	2015	2018	256

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	4049	2006	2023	28799
Dissolved Oxygen	4057	2016	2018	154
Dissolved Oxygen	5002	2003	2024	28721

WQ Program names:

- 60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey
 62 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Reef Fish Survey
 69 - Fisheries-Independent Monitoring (FIM) Program
 95 - Harmful Algal Bloom Marine Observation Network
 102 - National Status and Trends Mussel Watch
 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
 115 - Environmental Monitoring Assessment Program
 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
 297 - Florida Keys National Marine Sanctuary Water Quality Monitoring Project
 509 - SERC Water Quality Monitoring Network
 899 - USGS Coral Reef Ecosystem Studies (CREST) Project
 3000 - Florida Keys Water Watch
 4049 - The South Florida Fisheries Habitat Assessment Program (FHAP)
 4057 - Biscayne Bay Water Watch
 5002 - Florida STORET / WIN

Dissolved Oxygen Saturation

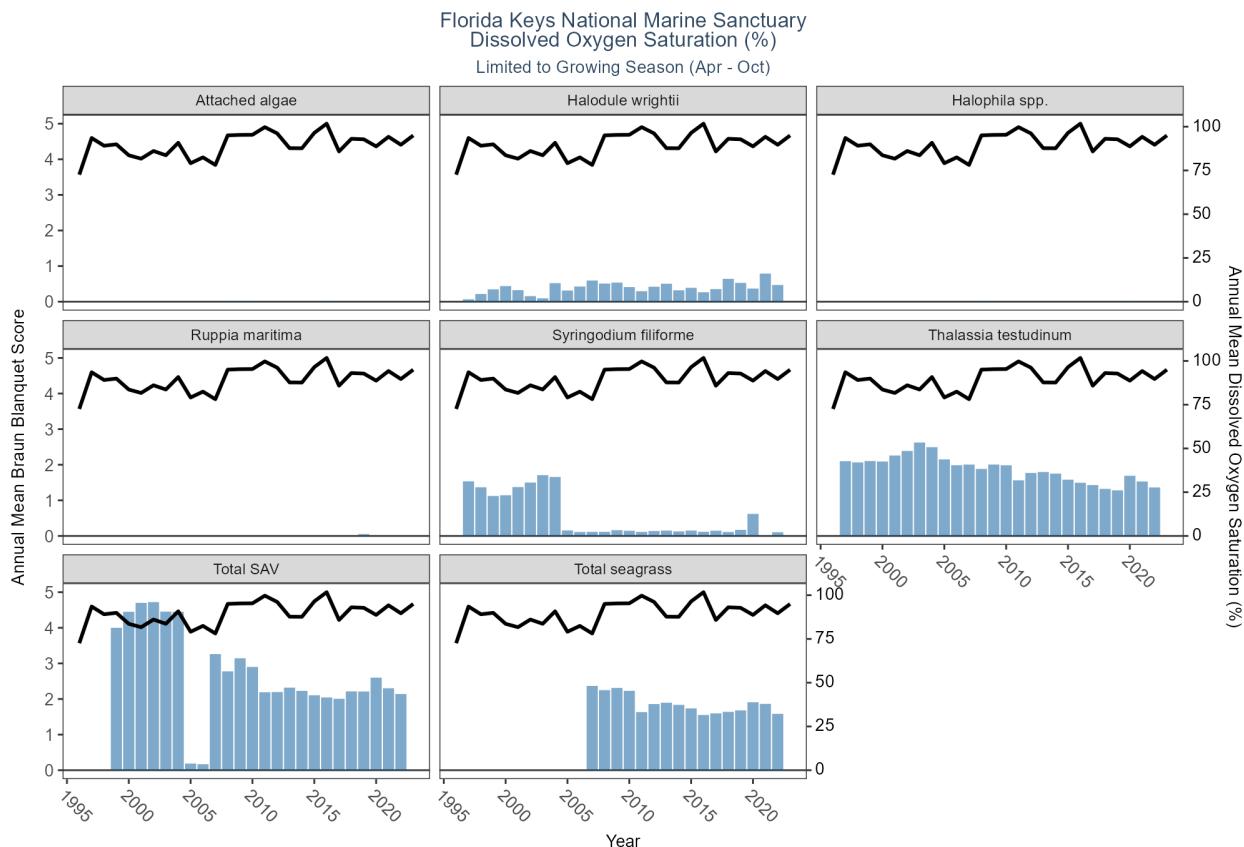


Table 222: WQ Summary for Dissolved Oxygen Saturation in Florida Keys National Marine Sanctuary

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	1996	72.568	85.737	5.100	171.438	36.085
Dissolved Oxygen Saturation	1997	93.538	91.676	46.935	138.543	10.434
Dissolved Oxygen Saturation	1998	89.117	89.465	43.526	150.029	12.288
Dissolved Oxygen Saturation	1999	89.913	91.060	38.130	121.391	9.389
Dissolved Oxygen Saturation	2000	83.652	79.716	32.443	198.675	17.772
Dissolved Oxygen Saturation	2001	81.718	81.978	41.419	152.242	11.596
Dissolved Oxygen Saturation	2002	86.098	84.506	38.091	161.057	12.946
Dissolved Oxygen Saturation	2003	83.669	83.248	40.830	137.241	15.081
Dissolved Oxygen Saturation	2004	90.801	90.714	22.698	133.031	10.355
Dissolved Oxygen Saturation	2005	79.120	78.249	34.176	226.213	11.547
Dissolved Oxygen Saturation	2006	82.464	82.267	34.587	210.966	20.433
Dissolved Oxygen Saturation	2007	78.138	81.443	32.096	115.758	17.301
Dissolved Oxygen Saturation	2008	95.043	96.433	33.876	109.241	9.811
Dissolved Oxygen Saturation	2009	95.299	95.321	66.400	135.430	9.591
Dissolved Oxygen Saturation	2010	95.360	96.488	63.682	110.357	4.917
Dissolved Oxygen Saturation	2011	99.738	98.119	83.673	171.277	7.609
Dissolved Oxygen Saturation	2012	96.162	95.751	73.116	127.734	5.291
Dissolved Oxygen Saturation	2013	87.727	90.800	29.500	134.426	12.083
Dissolved Oxygen Saturation	2014	87.667	88.800	14.900	142.800	13.584
Dissolved Oxygen Saturation	2015	96.464	95.102	48.000	158.500	18.820
Dissolved Oxygen Saturation	2016	101.718	98.000	24.000	184.000	12.958
Dissolved Oxygen Saturation	2017	85.853	90.000	26.100	140.000	14.505
Dissolved Oxygen Saturation	2018	93.083	95.612	59.000	123.000	9.032
Dissolved Oxygen Saturation	2019	92.794	95.395	63.500	110.966	7.809
Dissolved Oxygen Saturation	2020	88.741	91.732	0.600	156.000	15.741
Dissolved Oxygen Saturation	2021	94.228	96.300	0.400	153.800	11.492
Dissolved Oxygen Saturation	2022	89.671	89.500	14.300	154.500	10.745
Dissolved Oxygen Saturation	2023	94.994	96.100	59.300	130.800	7.013
Dissolved Oxygen Saturation	2024	98.386	98.900	89.200	111.600	2.882

Programs contributing WQ Data:

Table 223: Programs contributing WQ data for Dissolved Oxygen Saturation in Florida Keys National Marine Sanctuary

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	60	2006	2016	1191
Dissolved Oxygen Saturation	62	2003	2019	898
Dissolved Oxygen Saturation	102	1996	1996	102
Dissolved Oxygen Saturation	297	1995	2020	14956
Dissolved Oxygen Saturation	5002	2009	2024	15365

WQ Program names:

60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey

62 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Reef Fish Survey

102 - National Status and Trends Mussel Watch

297 - Florida Keys National Marine Sanctuary Water Quality Monitoring Project
 5002 - Florida STORET / WIN

pH

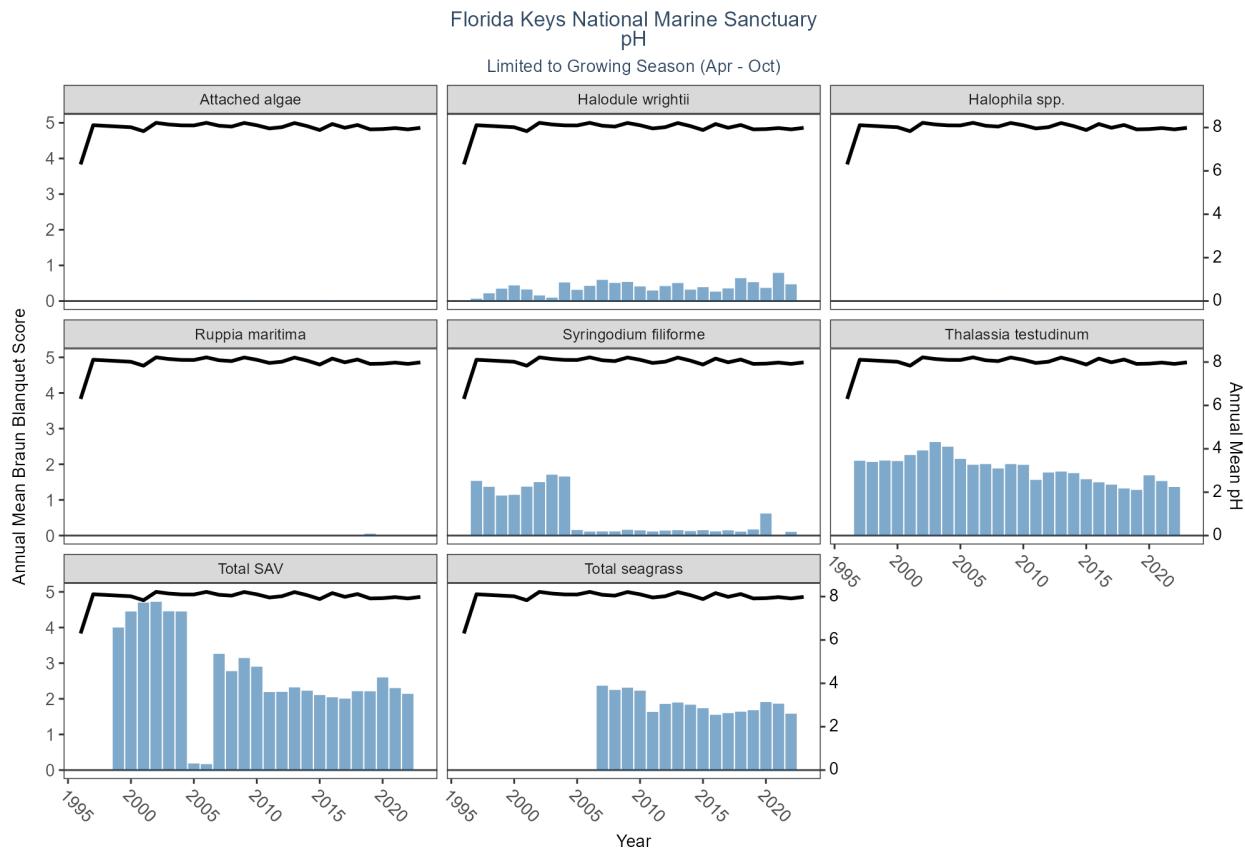


Table 224: WQ Summary for pH in Florida Keys National Marine Sanctuary

ParameterName	Year	mean	median	min	max	sd
pH	1996	6.300	6.300	6.300	6.300	0.000
pH	1997	8.107	8.100	7.800	9.000	0.210
pH	1999	8.045	8.000	7.000	8.600	0.160
pH	2000	8.013	8.000	7.400	8.600	0.211
pH	2001	7.831	7.900	7.300	8.000	0.227
pH	2002	8.217	8.195	7.920	8.715	0.160
pH	2003	8.141	8.140	7.800	8.615	0.128
pH	2004	8.099	8.150	7.125	8.535	0.184
pH	2005	8.095	8.090	7.000	8.420	0.193
pH	2006	8.217	8.240	7.395	8.520	0.119
pH	2007	8.082	8.100	7.060	8.400	0.118
pH	2008	8.043	8.050	7.660	8.430	0.137
pH	2009	8.210	8.140	7.710	9.080	0.319
pH	2010	8.104	8.130	7.380	8.570	0.181
pH	2011	7.957	7.950	7.640	8.395	0.102
pH	2012	8.017	8.020	5.820	8.280	0.179

ParameterName	Year	mean	median	min	max	sd
pH	2013	8.207	8.320	6.560	8.440	0.292
pH	2014	8.066	8.110	7.240	8.390	0.152
pH	2015	7.884	7.960	6.090	9.200	0.425
pH	2016	8.161	8.160	6.900	9.500	0.184
pH	2017	7.988	8.020	6.300	9.350	0.181
pH	2018	8.116	8.130	6.360	8.400	0.117
pH	2019	7.915	7.860	7.730	9.030	0.138
pH	2020	7.927	7.930	6.690	8.970	0.142
pH	2021	7.975	7.990	6.680	8.250	0.129
pH	2022	7.915	7.920	7.070	8.350	0.154
pH	2023	7.985	8.010	7.640	8.270	0.117
pH	2024	8.185	8.200	7.840	8.390	0.042

Programs contributing WQ Data:

Table 225: Programs contributing WQ data for pH in Florida Keys National Marine Sanctuary

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	3	2009	2012	14
pH	69	1997	2022	2097
pH	95	1994	2018	173
pH	103	1970	2021	185
pH	115	2000	2004	137
pH	118	2015	2021	265
pH	297	2003	2011	81
pH	509	2002	2008	4481
pH	899	2014	2014	47
pH	3000	2015	2018	224
pH	4049	2005	2023	31926
pH	4057	2016	2018	154
pH	5002	2003	2024	30422

WQ Program names:

- 3 - Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Synoptic Shipboard Surveys
- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 297 - Florida Keys National Marine Sanctuary Water Quality Monitoring Project
- 509 - SERC Water Quality Monitoring Network
- 899 - USGS Coral Reef Ecosystem Studies (CREST) Project
- 3000 - Florida Keys Water Watch
- 4049 - The South Florida Fisheries Habitat Assessment Program (FHAP)
- 4057 - Biscayne Bay Water Watch
- 5002 - Florida STORET / WIN

Salinity

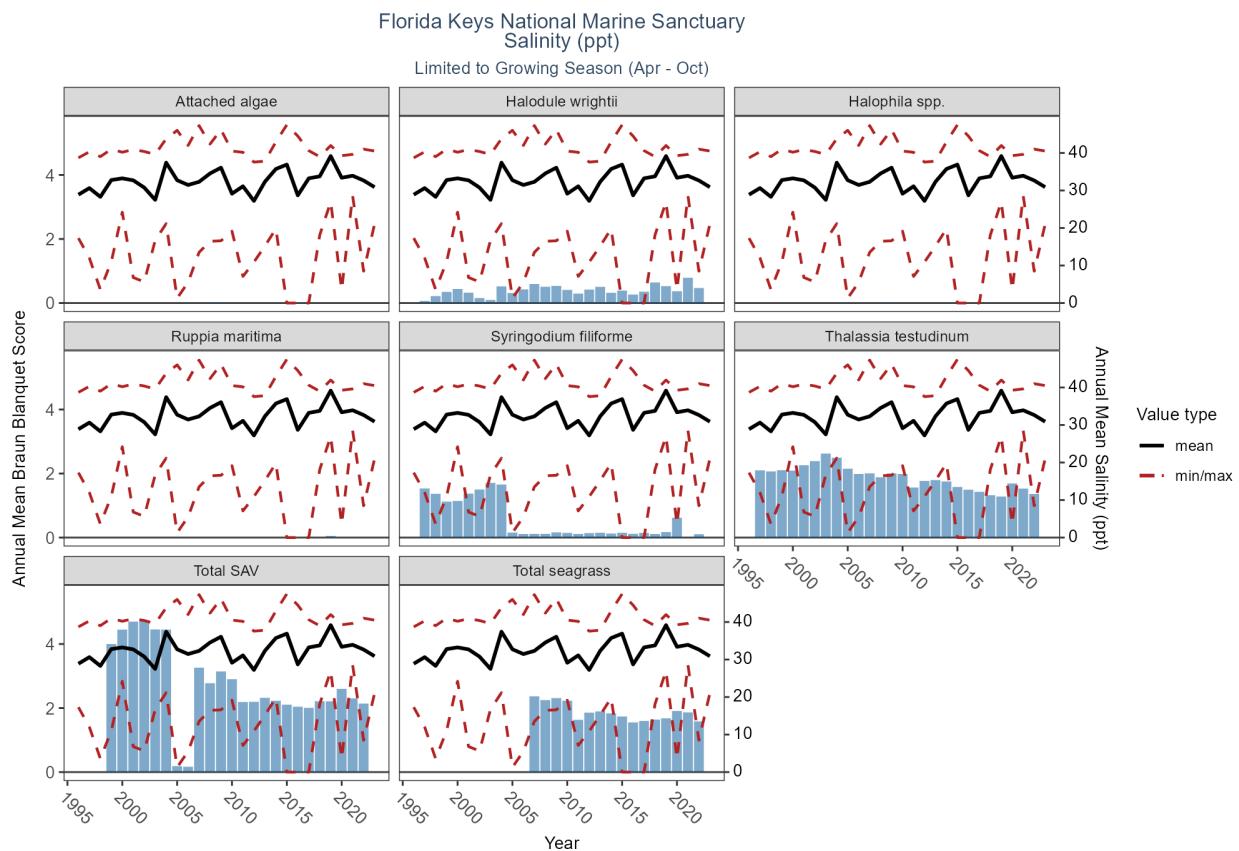


Table 226: WQ Summary for Salinity in Florida Keys National Marine Sanctuary

ParameterName	Year	mean	median	min	max	sd
Salinity	1996	28.878	28.900	17.300	38.700	5.983
Salinity	1997	30.634	33.800	12.000	40.300	7.042
Salinity	1998	28.302	30.900	3.600	39.019	8.786
Salinity	1999	32.781	35.100	11.000	41.000	5.960
Salinity	2000	33.229	35.700	24.200	40.200	4.393
Salinity	2001	32.706	35.453	6.800	40.900	6.400
Salinity	2002	30.773	35.130	5.645	40.390	7.562
Salinity	2003	27.499	26.400	16.700	39.590	4.129
Salinity	2004	37.418	36.400	21.165	43.800	3.071
Salinity	2005	32.736	37.600	1.283	46.021	7.728
Salinity	2006	31.467	31.300	5.530	42.000	4.021
Salinity	2007	32.300	34.760	13.510	47.289	5.035
Salinity	2008	34.540	35.200	16.460	42.369	3.002
Salinity	2009	36.081	38.900	16.590	46.200	5.773
Salinity	2010	29.140	28.400	19.150	40.498	3.661
Salinity	2011	31.117	31.800	7.100	40.173	5.286
Salinity	2012	27.222	26.300	10.923	37.564	5.794
Salinity	2013	32.319	32.530	15.180	37.810	3.724
Salinity	2014	35.726	35.580	19.770	42.930	2.868

ParameterName	Year	mean	median	min	max	sd
Salinity	2015	36.901	36.670	0.000	47.500	2.379
Salinity	2016	28.700	26.660	0.000	44.500	5.861
Salinity	2017	33.236	35.600	0.000	40.610	6.504
Salinity	2018	33.763	35.270	18.130	39.000	4.039
Salinity	2019	39.169	39.970	26.960	41.975	1.823
Salinity	2020	33.392	35.030	3.570	39.270	3.988
Salinity	2021	33.924	33.880	28.550	39.630	2.315
Salinity	2022	32.661	34.130	8.490	41.010	5.221
Salinity	2023	30.886	31.370	21.030	40.510	3.310
Salinity	2024	26.470	26.570	18.160	41.080	6.053

Programs contributing WQ Data:

Table 227: Programs contributing WQ data for Salinity in Florida Keys National Marine Sanctuary

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	3	1998	2023	6191
Salinity	60	1993	2016	1486
Salinity	62	1993	2019	1080
Salinity	69	1997	2022	2140
Salinity	95	1955	2018	761
Salinity	102	1996	2000	144
Salinity	115	2000	2004	137
Salinity	118	2015	2021	417
Salinity	297	1995	2023	18260
Salinity	509	1989	2008	22795
Salinity	899	2014	2014	42
Salinity	965	2005	2011	59266
Salinity	3000	2015	2018	266
Salinity	4049	2005	2023	33893
Salinity	4057	2016	2018	154
Salinity	5002	2003	2024	34496

WQ Program names:

3 - Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Synoptic Shipboard Surveys

60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey

62 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Reef Fish Survey

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

102 - National Status and Trends Mussel Watch

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

297 - Florida Keys National Marine Sanctuary Water Quality Monitoring Project

509 - SERC Water Quality Monitoring Network

899 - USGS Coral Reef Ecosystem Studies (CREST) Project

965 - South Florida Seagrass Fish and Invertebrate Assessment Network

3000 - Florida Keys Water Watch

4049 - The South Florida Fisheries Habitat Assessment Program (FHAP)

4057 - Biscayne Bay Water Watch

5002 - Florida STORET / WIN

Secchi Depth

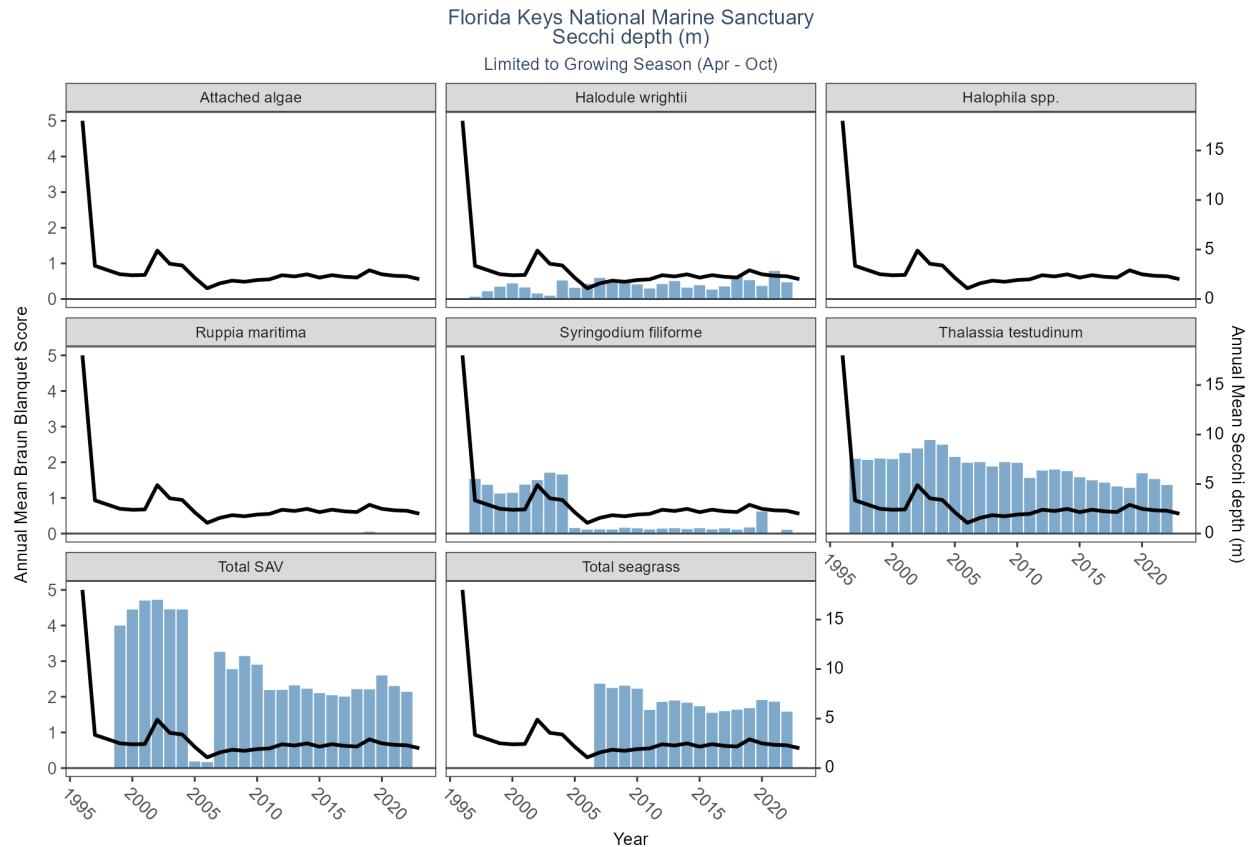


Table 228: WQ Summary for Secchi Depth in Florida Keys National Marine Sanctuary

ParameterName	Year	mean	median	min	max	sd
Secchi depth	1996	18.000	19.000	12.000	22.000	4.546
Secchi depth	1997	3.355	1.500	0.500	21.000	5.362
Secchi depth	1999	2.503	2.000	0.457	8.600	1.356
Secchi depth	2000	2.402	2.000	0.518	8.600	1.476
Secchi depth	2001	2.432	2.271	0.549	6.096	1.344
Secchi depth	2002	4.891	2.743	1.128	20.300	5.195
Secchi depth	2003	3.560	3.658	0.914	6.889	1.566
Secchi depth	2004	3.393	3.048	1.067	6.828	1.575
Secchi depth	2005	2.145	2.057	1.067	3.962	0.870
Secchi depth	2006	1.083	1.000	0.610	3.962	0.304
Secchi depth	2007	1.581	1.550	0.600	4.267	0.422
Secchi depth	2008	1.856	2.000	0.600	5.182	0.717
Secchi depth	2009	1.747	1.615	0.900	4.877	0.635
Secchi depth	2010	1.918	1.800	0.600	5.000	0.590
Secchi depth	2011	1.988	1.775	0.914	4.572	0.509

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2012	2.404	2.700	0.610	5.182	0.646
Secchi depth	2013	2.281	2.500	1.219	4.572	0.590
Secchi depth	2014	2.493	2.645	1.219	3.658	0.586
Secchi depth	2015	2.163	2.000	0.400	7.200	0.879
Secchi depth	2016	2.411	2.200	0.272	14.000	1.366
Secchi depth	2017	2.246	1.700	1.000	16.000	1.864
Secchi depth	2018	2.176	2.200	0.320	6.401	0.924
Secchi depth	2019	2.904	2.743	1.219	5.791	1.017
Secchi depth	2020	2.496	2.500	1.100	3.620	0.495
Secchi depth	2021	2.348	2.286	0.650	4.115	0.897
Secchi depth	2022	2.303	2.370	0.457	4.115	0.610
Secchi depth	2023	2.007	2.000	0.305	3.353	0.409

Programs contributing WQ Data:

Table 229: Programs contributing WQ data for Secchi Depth in Florida Keys National Marine Sanctuary

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	60	1993	2002	37
Secchi depth	69	1997	2022	2135
Secchi depth	115	2000	2004	37
Secchi depth	118	2015	2021	56
Secchi depth	514	1999	2023	1477
Secchi depth	3000	2015	2018	91
Secchi depth	4049	2005	2023	5351
Secchi depth	5002	2010	2022	1579

WQ Program names:

- 60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey
- 69 - Fisheries-Independent Monitoring (FIM) Program
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 514 - Florida LAKEWATCH Program
- 3000 - Florida Keys Water Watch
- 4049 - The South Florida Fisheries Habitat Assessment Program (FHAP)
- 5002 - Florida STORET / WIN

Total Nitrogen & Total Phosphorus

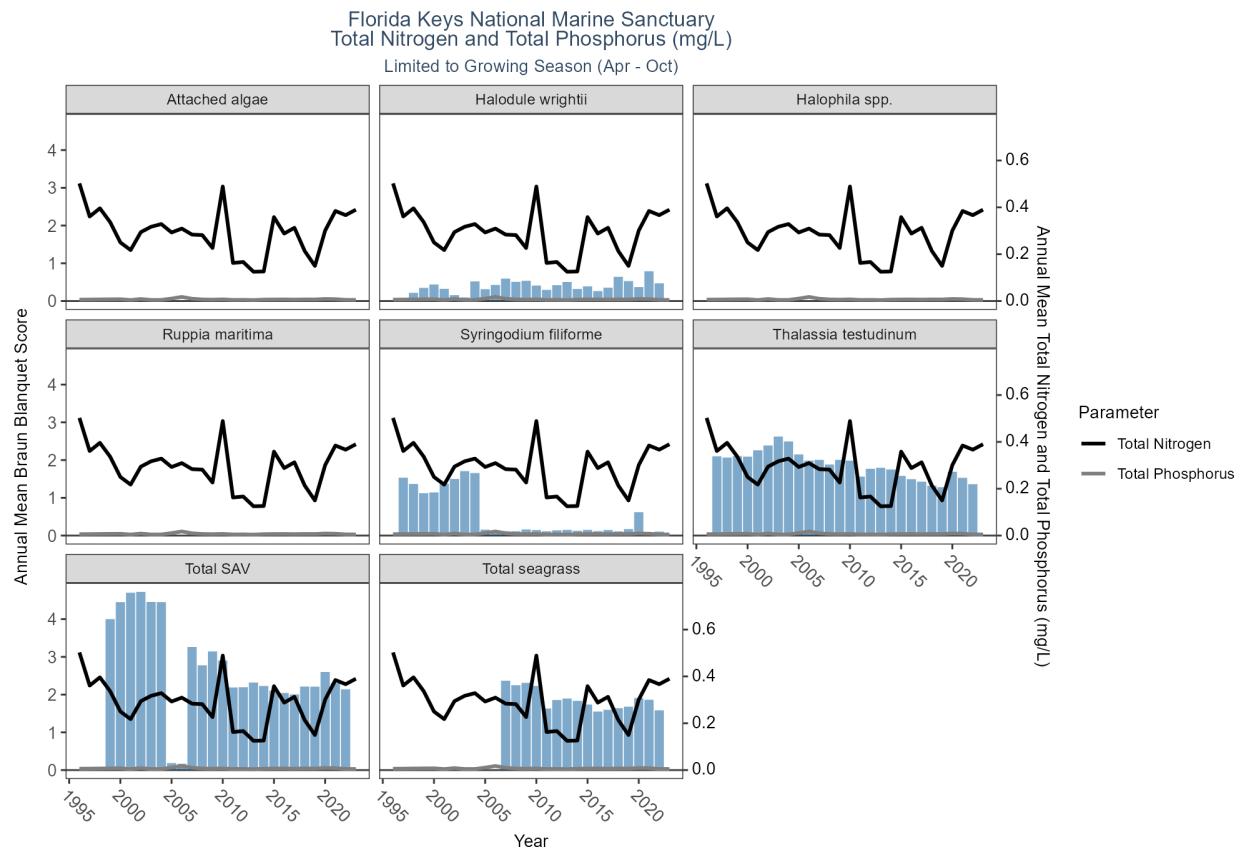


Table 230: WQ Summary for Total Nitrogen & Total Phosphorus in Florida Keys National Marine Sanctuary

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	1996	0.502	0.578	0.106	0.878	0.238
Total Nitrogen	1997	0.361	0.252	0.069	0.866	0.246
Total Nitrogen	1998	0.396	0.358	0.067	0.840	0.250
Total Nitrogen	1999	0.337	0.298	0.000	0.949	0.245
Total Nitrogen	2000	0.250	0.270	0.000	1.213	0.174
Total Nitrogen	2001	0.218	0.201	0.000	0.620	0.164
Total Nitrogen	2002	0.294	0.212	0.000	2.986	0.252
Total Nitrogen	2003	0.317	0.315	0.000	1.150	0.181
Total Nitrogen	2004	0.329	0.303	0.000	1.343	0.206
Total Nitrogen	2005	0.293	0.266	0.000	1.430	0.202
Total Nitrogen	2006	0.309	0.260	0.000	1.917	0.207
Total Nitrogen	2007	0.284	0.268	0.000	0.675	0.168
Total Nitrogen	2008	0.282	0.241	0.000	0.729	0.184
Total Nitrogen	2009	0.226	0.187	0.000	0.948	0.134
Total Nitrogen	2010	0.489	0.450	0.000	1.012	0.291
Total Nitrogen	2011	0.163	0.139	0.000	0.635	0.097
Total Nitrogen	2012	0.167	0.145	0.000	0.666	0.110
Total Nitrogen	2013	0.125	0.095	0.000	0.590	0.105
Total Nitrogen	2014	0.126	0.117	0.000	0.670	0.104

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2015	0.358	0.158	0.000	1.945	0.330
Total Nitrogen	2016	0.288	0.197	0.000	1.181	0.229
Total Nitrogen	2017	0.313	0.166	0.000	0.802	0.261
Total Nitrogen	2018	0.214	0.147	0.000	0.890	0.220
Total Nitrogen	2019	0.150	0.117	0.000	1.053	0.125
Total Nitrogen	2020	0.301	0.167	0.047	0.890	0.261
Total Nitrogen	2021	0.385	0.335	0.041	1.067	0.296
Total Nitrogen	2022	0.367	0.386	0.041	0.834	0.243
Total Nitrogen	2023	0.390	0.446	0.048	0.920	0.232
Total Nitrogen	2024	0.510	0.512	0.165	0.665	0.144
Total Phosphorus	1996	0.006	0.006	0.002	0.018	0.001
Total Phosphorus	1997	0.006	0.006	0.003	0.020	0.002
Total Phosphorus	1998	0.007	0.006	0.001	0.020	0.003
Total Phosphorus	1999	0.007	0.008	0.000	0.046	0.004
Total Phosphorus	2000	0.008	0.009	0.000	0.025	0.004
Total Phosphorus	2001	0.004	0.004	0.000	0.030	0.003
Total Phosphorus	2002	0.009	0.006	0.000	0.043	0.007
Total Phosphorus	2003	0.005	0.004	0.000	0.037	0.004
Total Phosphorus	2004	0.005	0.004	0.000	0.024	0.003
Total Phosphorus	2005	0.011	0.006	0.000	0.097	0.014
Total Phosphorus	2006	0.017	0.017	0.000	0.055	0.010
Total Phosphorus	2007	0.010	0.010	0.000	0.024	0.004
Total Phosphorus	2008	0.007	0.007	0.000	0.050	0.003
Total Phosphorus	2009	0.006	0.005	0.000	0.024	0.004
Total Phosphorus	2010	0.007	0.007	0.000	0.084	0.005
Total Phosphorus	2011	0.005	0.004	0.000	0.055	0.004
Total Phosphorus	2012	0.005	0.005	0.000	0.030	0.003
Total Phosphorus	2013	0.004	0.004	0.000	0.018	0.003
Total Phosphorus	2014	0.006	0.006	0.000	0.024	0.004
Total Phosphorus	2015	0.007	0.006	0.000	0.030	0.004
Total Phosphorus	2016	0.007	0.006	0.000	0.120	0.005
Total Phosphorus	2017	0.006	0.006	0.000	0.020	0.002
Total Phosphorus	2018	0.007	0.007	0.000	0.023	0.003
Total Phosphorus	2019	0.007	0.006	0.000	0.046	0.003
Total Phosphorus	2020	0.009	0.007	0.002	0.061	0.006
Total Phosphorus	2021	0.008	0.006	0.001	0.041	0.005
Total Phosphorus	2022	0.005	0.004	0.002	0.065	0.004
Total Phosphorus	2023	0.005	0.002	0.002	0.037	0.004
Total Phosphorus	2024	0.003	0.002	0.002	0.014	0.002

Programs contributing WQ Data:

Table 231: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Florida Keys National Marine Sanctuary

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	103	2000	2006	253
Total Nitrogen	115	2000	2004	44
Total Nitrogen	118	2010	2010	38
Total Nitrogen	297	1995	2023	14748
Total Nitrogen	509	1989	2008	11634

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	514	1999	2023	1726
Total Nitrogen	5002	1999	2024	6954
Total Phosphorus	103	1970	2021	463
Total Phosphorus	115	2000	2004	44
Total Phosphorus	118	2010	2010	15
Total Phosphorus	297	1995	2023	15082
Total Phosphorus	509	1989	2008	11640
Total Phosphorus	514	1999	2023	1704
Total Phosphorus	5002	2005	2024	5984

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

297 - Florida Keys National Marine Sanctuary Water Quality Monitoring Project

509 - SERC Water Quality Monitoring Network

514 - Florida LAKEWATCH Program

5002 - Florida STORET / WIN

Total Suspended Solids

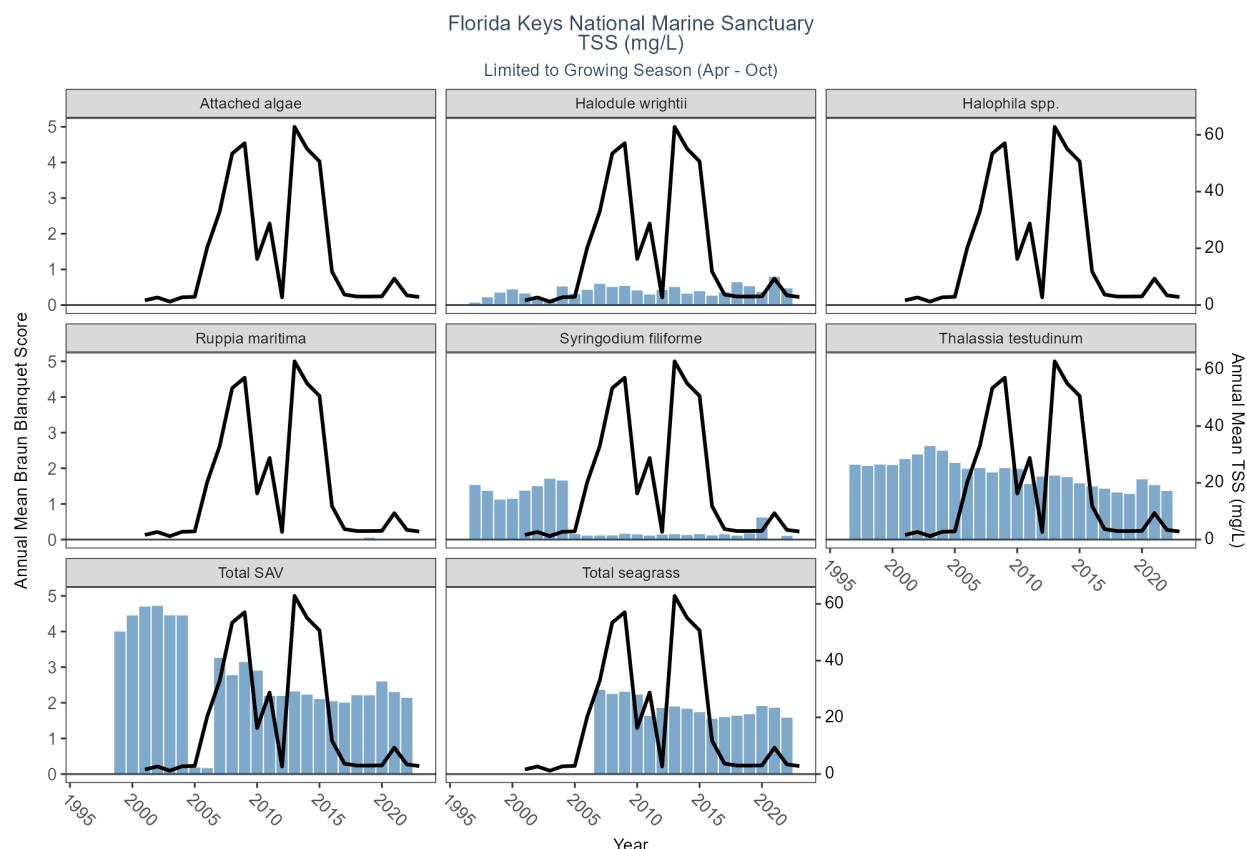


Table 232: WQ Summary for Total Suspended Solids in Florida Keys National Marine Sanctuary

ParameterName	Year	mean	median	min	max	sd
TSS	2001	1.630	1.43	1.06	2.40	0.692
TSS	2002	2.676	2.13	0.50	5.50	1.713
TSS	2003	1.208	1.04	0.36	2.96	0.589
TSS	2004	2.738	2.03	0.40	10.16	2.763
TSS	2005	2.891	2.80	0.40	8.66	1.943
TSS	2006	20.296	23.76	1.15	34.04	9.252
TSS	2007	32.957	34.00	0.73	201.00	28.223
TSS	2008	53.394	67.00	0.40	100.00	34.003
TSS	2009	57.048	63.00	0.60	141.00	42.885
TSS	2010	16.244	10.00	0.75	79.00	19.147
TSS	2011	28.757	4.00	0.55	96.00	33.075
TSS	2012	2.696	3.05	1.00	5.35	1.083
TSS	2013	62.831	58.00	44.00	89.00	17.498
TSS	2014	55.083	56.00	39.00	65.00	7.187
TSS	2015	50.636	8.00	3.00	211.00	69.925
TSS	2016	11.802	3.00	3.00	165.00	32.788
TSS	2017	3.683	3.00	3.00	30.00	1.886
TSS	2018	3.000	3.00	3.00	3.00	0.000
TSS	2019	3.000	3.00	3.00	3.00	0.000
TSS	2020	3.056	2.90	2.90	3.60	0.309
TSS	2021	9.306	4.40	2.80	15.80	5.932
TSS	2022	3.416	3.20	2.50	6.00	0.986
TSS	2023	2.827	2.50	2.50	3.20	0.361

Programs contributing WQ Data:

Table 233: Programs contributing WQ data for Total Suspended Solids in Florida Keys National Marine Sanctuary

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	3	2001	2012	3605
TSS	5002	2007	2023	3955

WQ Program names:

3 - Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Synoptic Shipboard Surveys
 5002 - Florida STORET / WIN

Turbidity

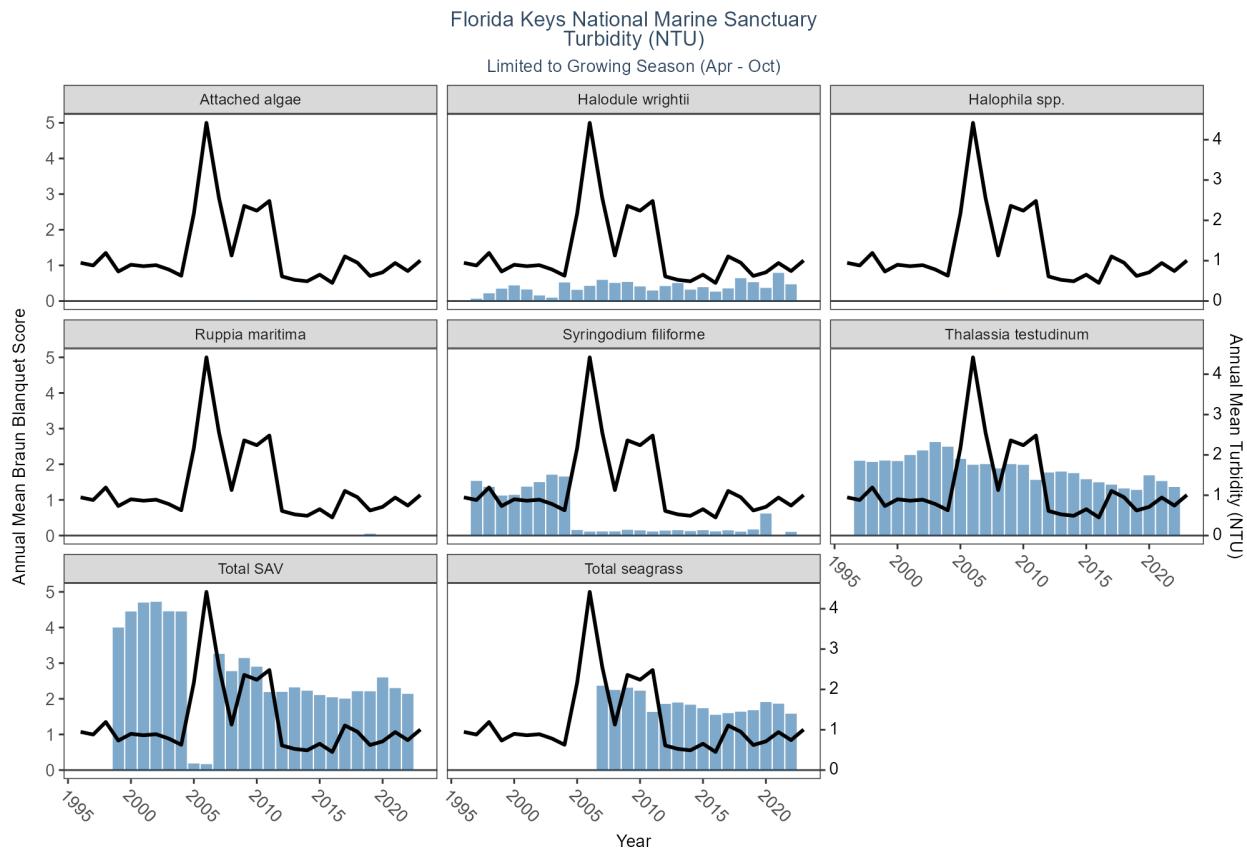


Table 234: WQ Summary for Turbidity in Florida Keys National Marine Sanctuary

ParameterName	Year	mean	median	min	max	sd
Turbidity	1996	0.947	0.645	0.000	65.500	2.011
Turbidity	1997	0.881	0.650	0.000	12.970	0.991
Turbidity	1998	1.192	0.825	0.000	18.800	1.407
Turbidity	1999	0.732	0.615	0.000	25.800	0.838
Turbidity	2000	0.899	0.685	0.000	16.825	1.050
Turbidity	2001	0.864	0.620	0.000	7.015	0.782
Turbidity	2002	0.889	0.775	0.000	18.860	0.915
Turbidity	2003	0.783	0.685	0.015	6.685	0.539
Turbidity	2004	0.628	0.500	0.010	6.105	0.498
Turbidity	2005	2.167	2.370	0.000	18.200	1.269
Turbidity	2006	4.419	3.400	0.145	40.100	3.772
Turbidity	2007	2.550	2.170	0.000	14.500	1.702
Turbidity	2008	1.128	0.900	0.000	19.400	0.834
Turbidity	2009	2.360	1.540	0.010	21.779	2.268
Turbidity	2010	2.240	1.720	0.000	17.432	2.025
Turbidity	2011	2.481	2.060	0.000	15.080	1.809
Turbidity	2012	0.610	0.445	0.000	6.300	0.603
Turbidity	2013	0.525	0.500	0.000	6.300	0.495
Turbidity	2014	0.490	0.500	0.000	6.090	0.466

ParameterName	Year	mean	median	min	max	sd
Turbidity	2015	0.653	0.400	0.000	3.400	0.721
Turbidity	2016	0.449	0.500	0.000	7.200	0.419
Turbidity	2017	1.106	0.650	0.000	28.520	2.332
Turbidity	2018	0.950	0.600	0.000	6.830	1.034
Turbidity	2019	0.621	0.540	0.000	3.500	0.565
Turbidity	2020	0.712	0.510	0.000	39.000	1.588
Turbidity	2021	0.942	0.700	0.000	19.600	1.712
Turbidity	2022	0.743	0.600	0.000	5.850	0.548
Turbidity	2023	1.005	0.900	0.000	4.000	0.672
Turbidity	2024	1.077	1.000	0.300	1.800	0.333

Programs contributing WQ Data:

Table 235: Programs contributing WQ data for Turbidity in Florida Keys National Marine Sanctuary

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	103	2005	2021	34
Turbidity	297	1995	2023	15329
Turbidity	509	1991	2008	11578
Turbidity	965	2005	2011	29593
Turbidity	3000	2015	2018	254
Turbidity	5002	1994	2024	17090

WQ Program names:

- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 297 - Florida Keys National Marine Sanctuary Water Quality Monitoring Project
- 509 - SERC Water Quality Monitoring Network
- 965 - South Florida Seagrass Fish and Invertebrate Assessment Network
- 3000 - Florida Keys Water Watch
- 5002 - Florida STORET / WIN

Water Temperature



Table 236: WQ Summary for Water Temperature in Florida Keys National Marine Sanctuary

ParameterName	Year	mean	median	min	max	sd
Temperature	1996	28.542	29.100	18.730	34.500	2.318
Temperature	1997	28.689	28.500	18.200	39.600	2.449
Temperature	1998	28.171	28.600	18.600	33.800	2.863
Temperature	1999	28.498	28.800	21.930	34.560	2.001
Temperature	2000	28.550	29.400	15.805	33.300	2.566
Temperature	2001	28.532	29.300	22.450	32.606	2.739
Temperature	2002	28.548	28.770	17.480	33.303	2.104
Temperature	2003	29.094	29.288	19.650	31.890	1.554
Temperature	2004	28.311	29.170	21.600	32.980	2.662
Temperature	2005	28.325	27.200	21.800	34.500	2.964
Temperature	2006	28.222	28.430	22.500	35.500	2.375
Temperature	2007	27.640	27.640	22.244	33.164	2.166
Temperature	2008	28.077	27.470	23.157	33.100	1.935
Temperature	2009	28.286	29.700	20.733	37.169	2.737
Temperature	2010	28.587	28.200	19.773	37.550	2.125
Temperature	2011	27.652	27.400	13.392	36.100	1.384
Temperature	2012	28.268	27.950	22.093	33.342	1.430
Temperature	2013	28.432	28.960	22.974	32.690	1.771
Temperature	2014	27.753	26.940	24.497	33.790	1.921

ParameterName	Year	mean	median	min	max	sd
Temperature	2015	28.077	27.530	20.270	35.000	1.850
Temperature	2016	29.054	29.150	20.470	35.500	1.617
Temperature	2017	28.218	27.740	22.100	35.000	1.766
Temperature	2018	28.275	28.020	22.025	34.000	1.747
Temperature	2019	29.275	29.586	23.889	32.670	1.386
Temperature	2020	30.083	30.000	21.111	35.600	1.600
Temperature	2021	28.951	28.900	24.444	33.100	0.936
Temperature	2022	29.522	30.000	22.900	33.300	1.745
Temperature	2023	29.686	30.000	23.944	36.111	2.158
Temperature	2024	26.873	26.854	24.700	33.100	1.215

Programs contributing WQ Data:

Table 237: Programs contributing WQ data for Water Temperature in Florida Keys National Marine Sanctuary

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	3	1998	2012	3879
Temperature	60	1993	2016	1540
Temperature	62	1993	2019	1120
Temperature	69	1997	2022	2149
Temperature	95	1955	2018	781
Temperature	102	1996	2000	127
Temperature	103	1970	2021	2044
Temperature	115	2000	2004	137
Temperature	118	2015	2021	236
Temperature	297	1995	2023	18237
Temperature	509	1989	2008	22842
Temperature	899	2014	2014	45
Temperature	965	2005	2011	59266
Temperature	982	2014	2023	1129
Temperature	3000	2015	2018	260
Temperature	4049	2005	2023	33893
Temperature	4057	2016	2018	154
Temperature	5002	2003	2024	35684

WQ Program names:

3 - Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Synoptic Shipboard Surveys

60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey

62 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Reef Fish Survey

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

102 - National Status and Trends Mussel Watch

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

297 - Florida Keys National Marine Sanctuary Water Quality Monitoring Project

509 - SERC Water Quality Monitoring Network

899 - USGS Coral Reef Ecosystem Studies (CREST) Project
965 - South Florida Seagrass Fish and Invertebrate Assessment Network
982 - Florida Keys Bleach Watch
3000 - Florida Keys Water Watch
4049 - The South Florida Fisheries Habitat Assessment Program (FHAP)
4057 - Biscayne Bay Water Watch
5002 - Florida STORET / WIN

Fort Pickens State Park Aquatic Preserve

Programs contributing SAV Data:

Table 238: Programs contributing SAV data in Fort Pickens State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Braun Blanquet Score	4065	2016	2024	4434

SAV Program names:

4065 - Northwest Florida Aquatic Preserve Seagrass Survey

Chlorophyll-a (corrected & uncorrected)

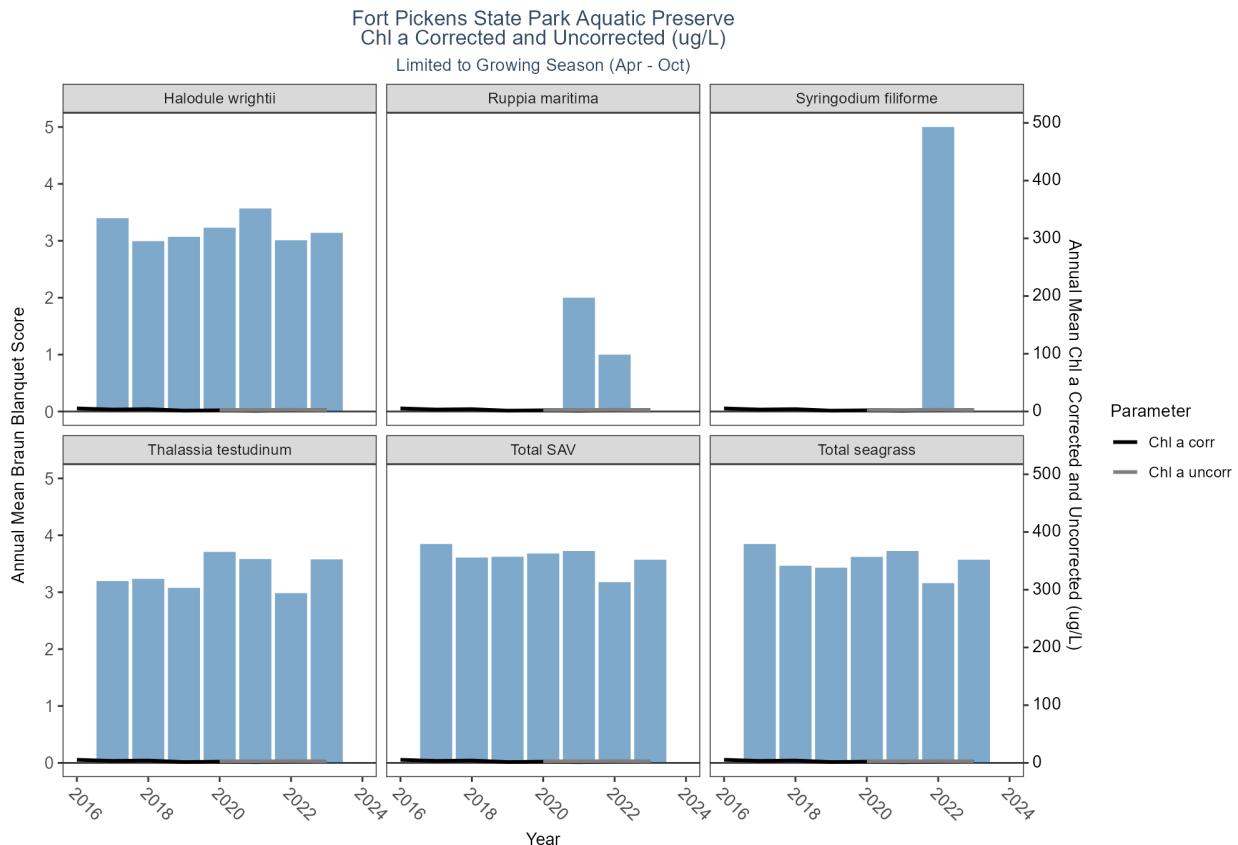


Table 239: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Fort Pickens State Park Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2016	5.365	5.365	4.41	6.32	1.351
Chl a corr	2017	3.413	2.250	0.80	7.90	2.600
Chl a corr	2018	4.079	1.800	0.95	12.00	4.046
Chl a corr	2019	1.439	1.100	0.62	2.90	0.794
Chl a corr	2020	2.050	2.200	1.00	3.00	0.930

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2021	1.333	1.000	1.00	2.00	0.577
Chl a corr	2022	2.165	1.900	1.00	5.00	1.427
Chl a corr	2023	2.398	2.470	1.84	3.00	0.408
Chl a uncorr	2020	2.833	3.000	1.00	4.00	1.329
Chl a uncorr	2021	2.609	3.000	0.00	4.00	1.469
Chl a uncorr	2022	3.000	2.000	1.00	6.00	1.604
Chl a uncorr	2023	2.667	3.000	2.00	3.00	0.577

Programs contributing WQ Data:

Table 240: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Fort Pickens State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	103	1994	2023	107
Chl a corr	505	2002	2016	68
Chl a corr	514	2020	2023	27
Chl a corr	5002	1998	2012	125
Chl a uncorr	103	2021	2021	11
Chl a uncorr	514	2020	2023	36
Chl a uncorr	5002	1998	2012	150

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

505 - Pensacola Bay Water Quality Monitoring Program

514 - Florida LAKEWATCH Program

5002 - Florida STORET / WIN

Dissolved Oxygen

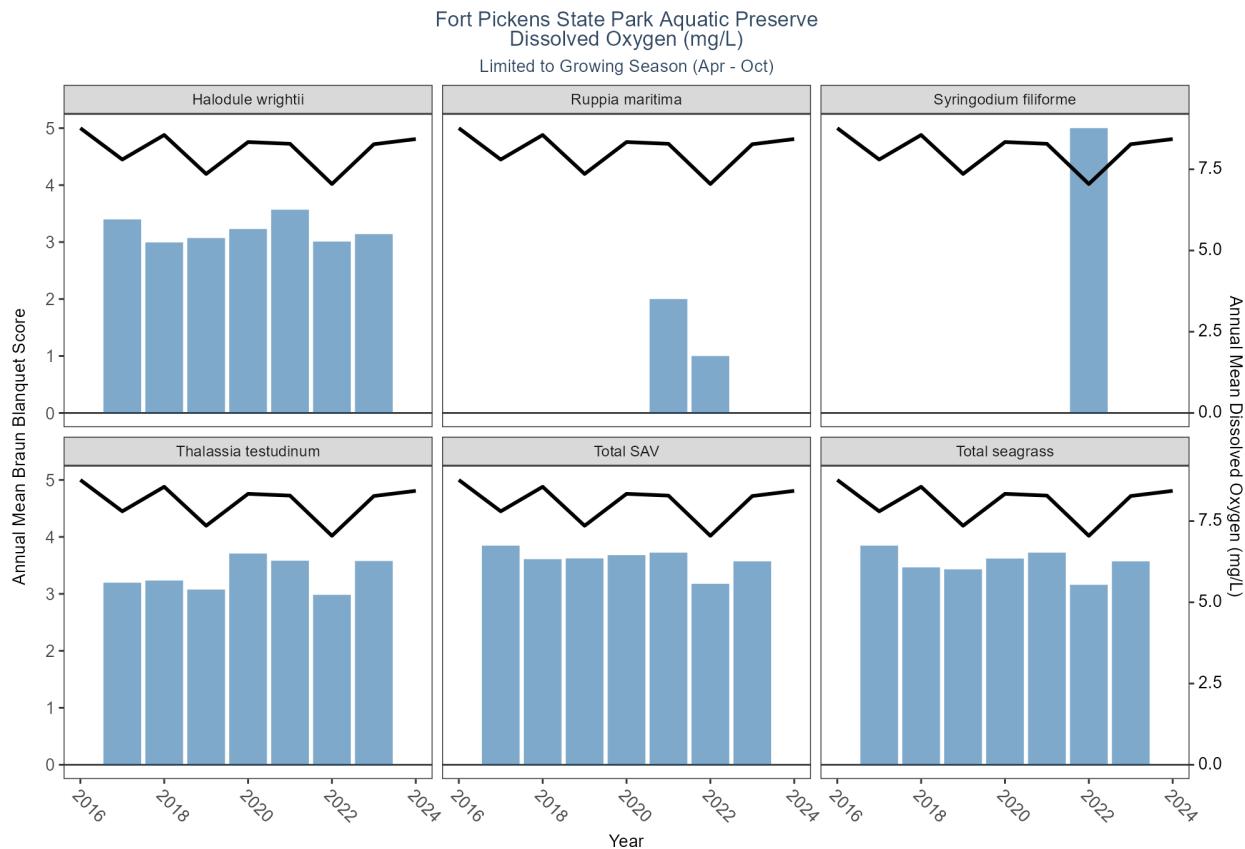


Table 241: WQ Summary for Dissolved Oxygen in Fort Pickens State Park Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2016	8.766	8.550	5.38	11.07	1.426
Dissolved Oxygen	2017	7.801	7.840	5.83	9.56	0.937
Dissolved Oxygen	2018	8.556	8.410	5.78	11.60	1.641
Dissolved Oxygen	2019	7.357	7.290	4.30	10.19	1.084
Dissolved Oxygen	2020	8.338	8.110	6.56	11.00	1.238
Dissolved Oxygen	2021	8.284	7.810	5.96	12.76	1.709
Dissolved Oxygen	2022	7.047	6.985	4.16	9.75	1.262
Dissolved Oxygen	2023	8.271	7.650	5.81	13.12	2.022
Dissolved Oxygen	2024	8.430	8.200	6.20	11.20	1.704

Programs contributing WQ Data:

Table 242: Programs contributing WQ data for Dissolved Oxygen in Fort Pickens State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	1994	2019	102
Dissolved Oxygen	95	1996	2018	40

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	103	1993	2014	128
Dissolved Oxygen	115	1991	1992	10
Dissolved Oxygen	118	2021	2021	9
Dissolved Oxygen	505	2002	2016	81
Dissolved Oxygen	4065	2016	2024	666
Dissolved Oxygen	5002	1997	2023	367

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 505 - Pensacola Bay Water Quality Monitoring Program
- 4065 - Northwest Florida Aquatic Preserve Seagrass Survey
- 5002 - Florida STORET / WIN

Dissolved Oxygen Saturation

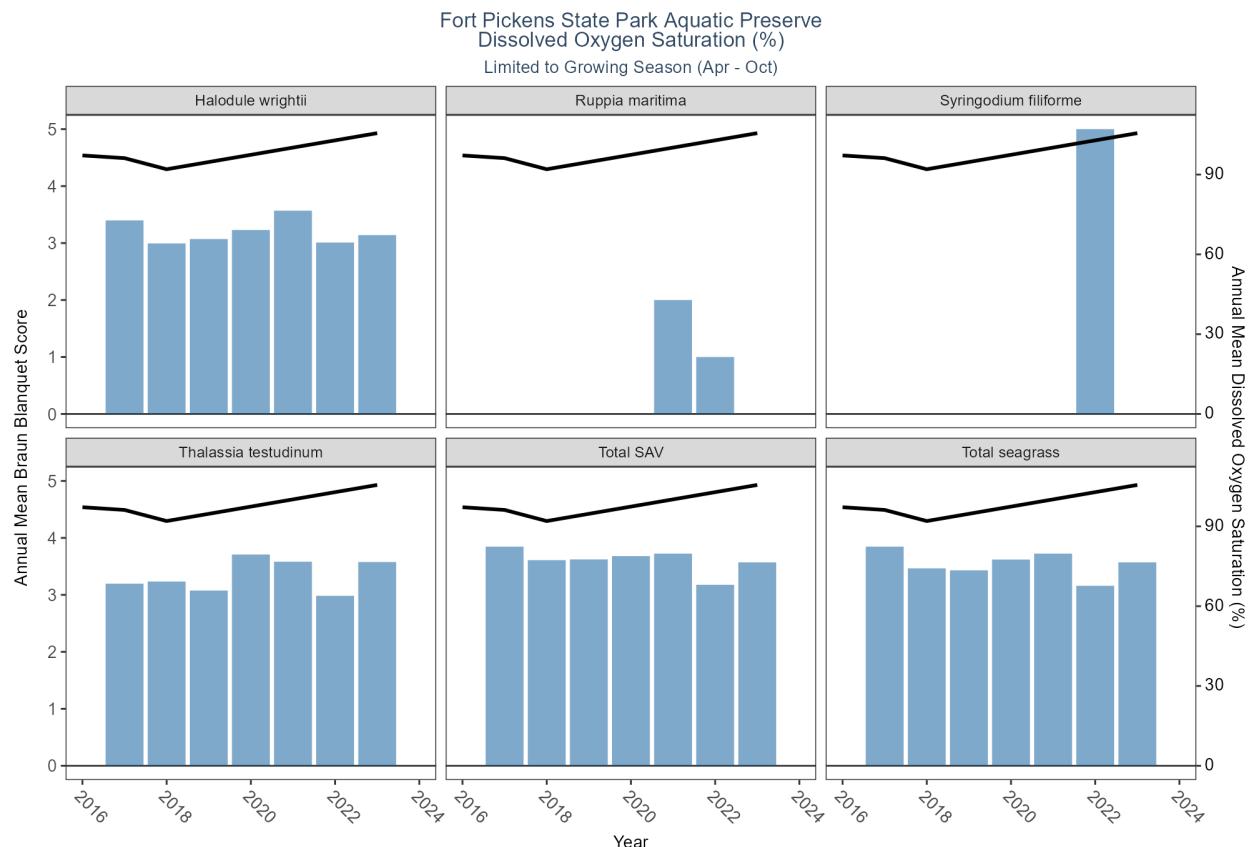


Table 243: WQ Summary for Dissolved Oxygen Saturation in Fort Pickens State Park Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2016	97.188	100.50	85.70	107.00	7.648
Dissolved Oxygen Saturation	2017	96.171	96.80	86.70	105.10	5.300
Dissolved Oxygen Saturation	2018	92.000	92.00	92.00	92.00	0.000
Dissolved Oxygen Saturation	2023	105.568	98.41	94.24	120.92	12.497

Programs contributing WQ Data:

Table 244: Programs contributing WQ data for Dissolved Oxygen Saturation in Fort Pickens State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	95	2016	2018	26
Dissolved Oxygen Saturation	505	2002	2016	77
Dissolved Oxygen Saturation	5002	1999	2023	88

WQ Program names:

95 - Harmful Algal Bloom Marine Observation Network

505 - Pensacola Bay Water Quality Monitoring Program

5002 - Florida STORET / WIN

pH

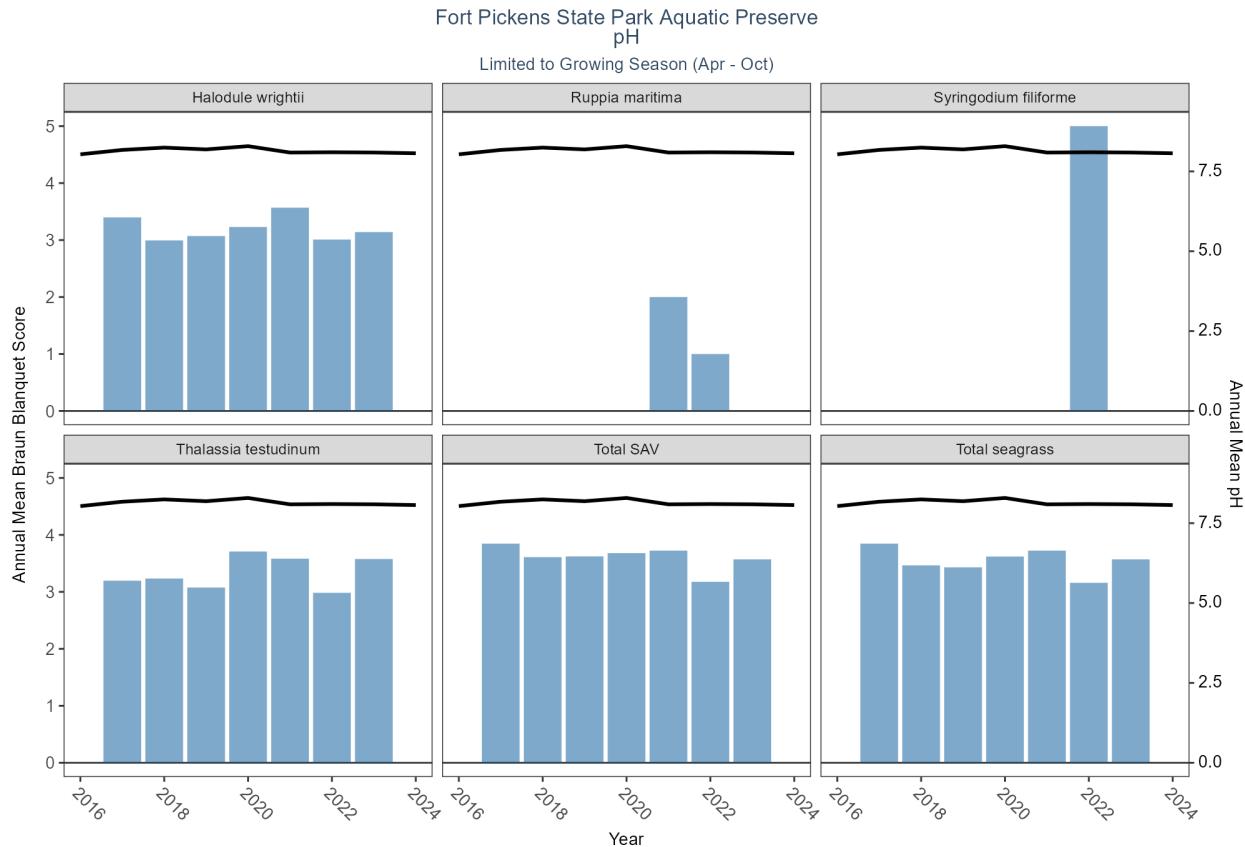


Table 245: WQ Summary for pH in Fort Pickens State Park Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	2016	8.034	8.05	7.63	8.50	0.205
pH	2017	8.171	8.20	7.87	8.50	0.162
pH	2018	8.244	8.20	7.75	9.50	0.270
pH	2019	8.187	8.20	7.90	8.46	0.102
pH	2020	8.289	8.31	8.07	8.46	0.113
pH	2021	8.090	8.06	7.86	8.39	0.130
pH	2022	8.098	8.11	7.61	8.35	0.161
pH	2023	8.090	8.10	7.68	8.55	0.194
pH	2024	8.067	8.00	7.80	8.30	0.167

Programs contributing WQ Data:

Table 246: Programs contributing WQ data for pH in Fort Pickens State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	1994	2019	92
pH	95	1996	2018	33

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	103	1993	2014	131
pH	115	1991	1992	10
pH	118	2021	2021	6
pH	4065	2016	2024	656
pH	5002	1997	2023	392

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 4065 - Northwest Florida Aquatic Preserve Seagrass Survey
- 5002 - Florida STORET / WIN

Salinity

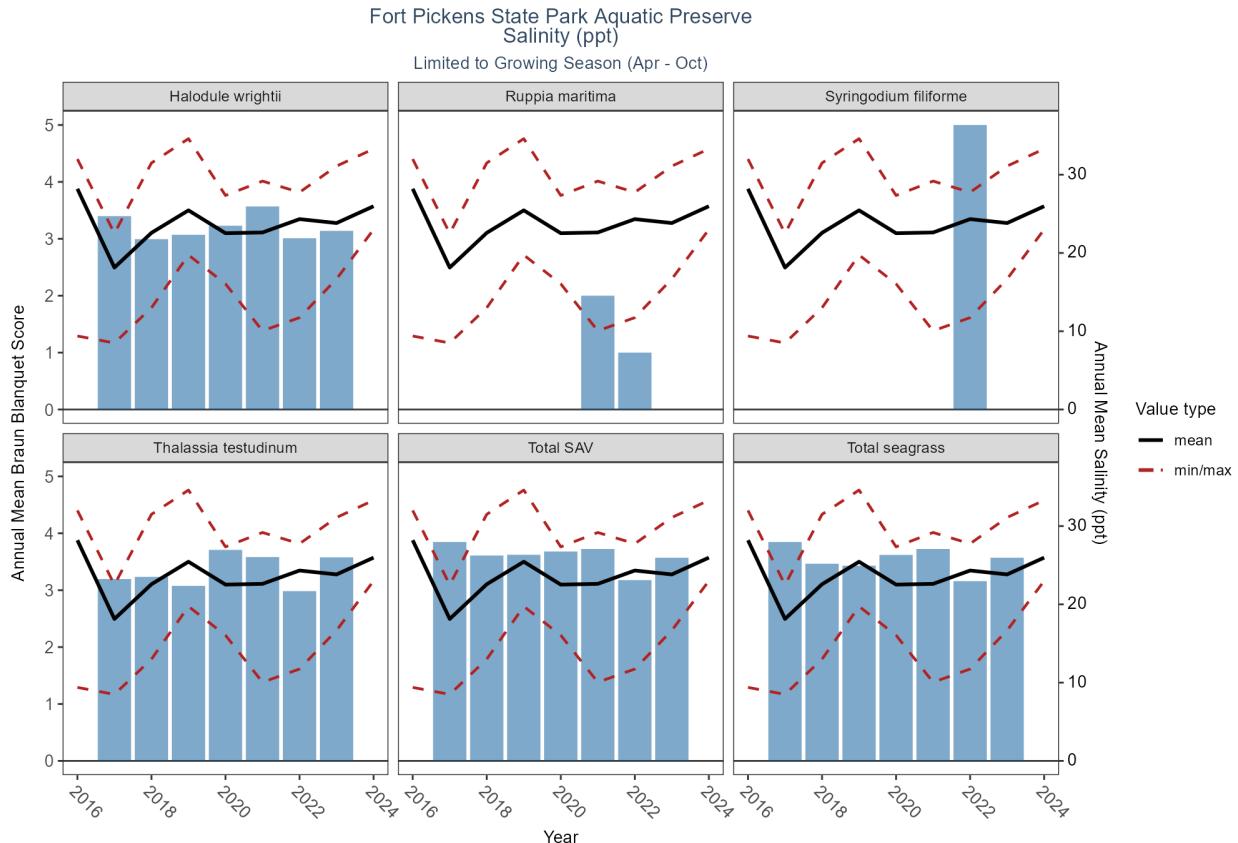


Table 247: WQ Summary for Salinity in Fort Pickens State Park Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	2016	28.196	28.760	9.389	32.00	4.075

ParameterName	Year	mean	median	min	max	sd
Salinity	2017	18.136	19.400	8.500	22.50	3.147
Salinity	2018	22.572	21.900	13.000	31.50	4.360
Salinity	2019	25.446	25.050	19.740	34.60	3.277
Salinity	2020	22.524	23.360	16.050	27.35	2.578
Salinity	2021	22.620	22.385	10.050	29.18	4.355
Salinity	2022	24.324	25.140	11.740	27.75	3.032
Salinity	2023	23.823	26.300	16.680	31.10	5.400
Salinity	2024	25.971	25.500	23.000	33.30	2.033

Programs contributing WQ Data:

Table 248: Programs contributing WQ data for Salinity in Fort Pickens State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	1994	2019	102
Salinity	95	1982	2018	62
Salinity	115	1991	1992	10
Salinity	118	2021	2021	6
Salinity	505	2002	2016	82
Salinity	4065	2016	2024	668
Salinity	5002	1997	2023	334

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

505 - Pensacola Bay Water Quality Monitoring Program

4065 - Northwest Florida Aquatic Preserve Seagrass Survey

5002 - Florida STORET / WIN

Secchi Depth

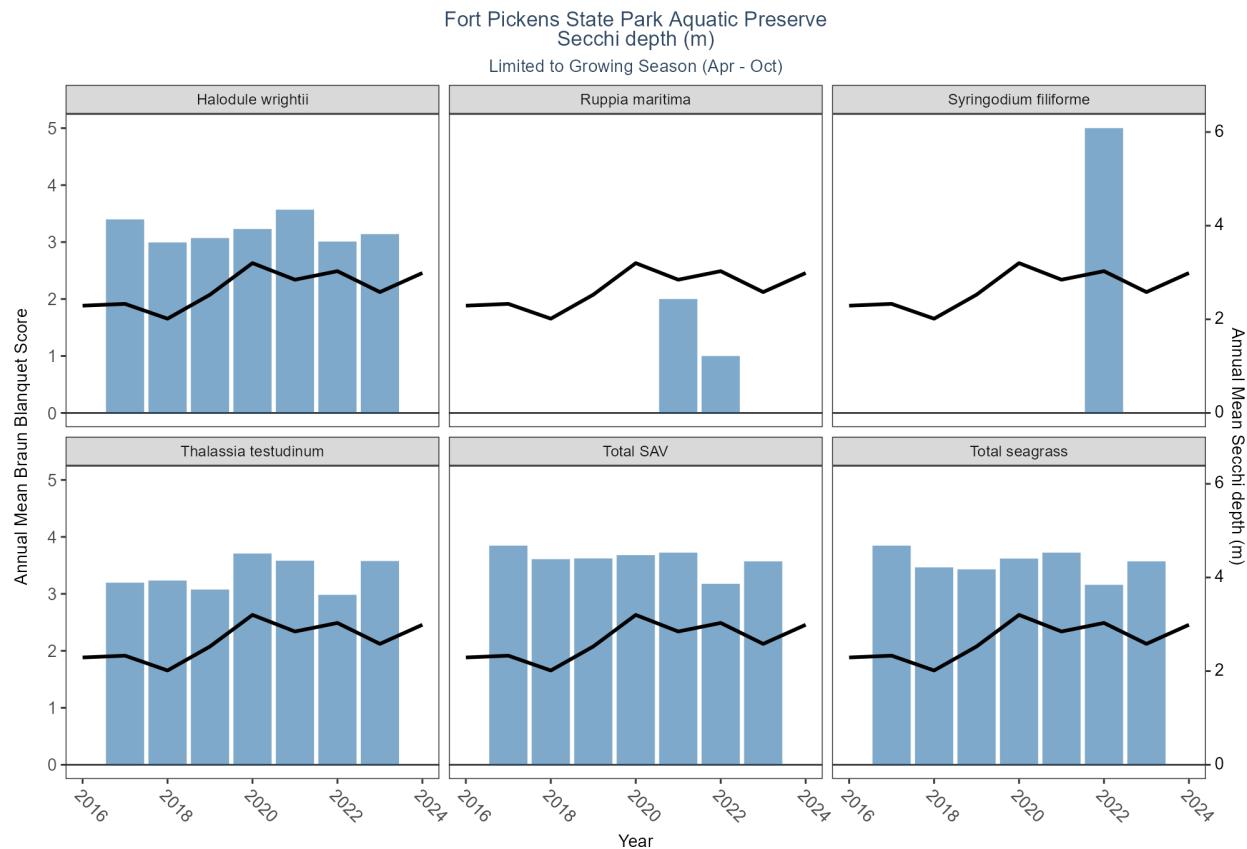


Table 249: WQ Summary for Secchi Depth in Fort Pickens State Park Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2016	2.292	2.25	1.0	6.1	0.969
Secchi depth	2017	2.330	2.50	0.4	5.5	1.258
Secchi depth	2018	2.013	2.00	0.5	6.0	1.066
Secchi depth	2019	2.526	2.50	0.4	6.5	1.422
Secchi depth	2020	3.201	2.50	1.5	10.0	1.653
Secchi depth	2021	2.846	2.50	1.5	7.0	1.161
Secchi depth	2022	3.029	3.00	2.0	6.0	0.755
Secchi depth	2023	2.582	2.00	1.0	7.0	1.246
Secchi depth	2024	2.990	2.50	1.5	7.0	1.438

Programs contributing WQ Data:

Table 250: Programs contributing WQ data for Secchi Depth in Fort Pickens State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	1996	2019	100
Secchi depth	103	1987	1988	15

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	115	1991	1992	5
Secchi depth	118	2021	2021	3
Secchi depth	514	2020	2023	39
Secchi depth	4065	2016	2024	678
Secchi depth	5002	1999	2023	38

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 514 - Florida LAKEWATCH Program
- 4065 - Northwest Florida Aquatic Preserve Seagrass Survey
- 5002 - Florida STORET / WIN

Total Nitrogen & Total Phosphorus

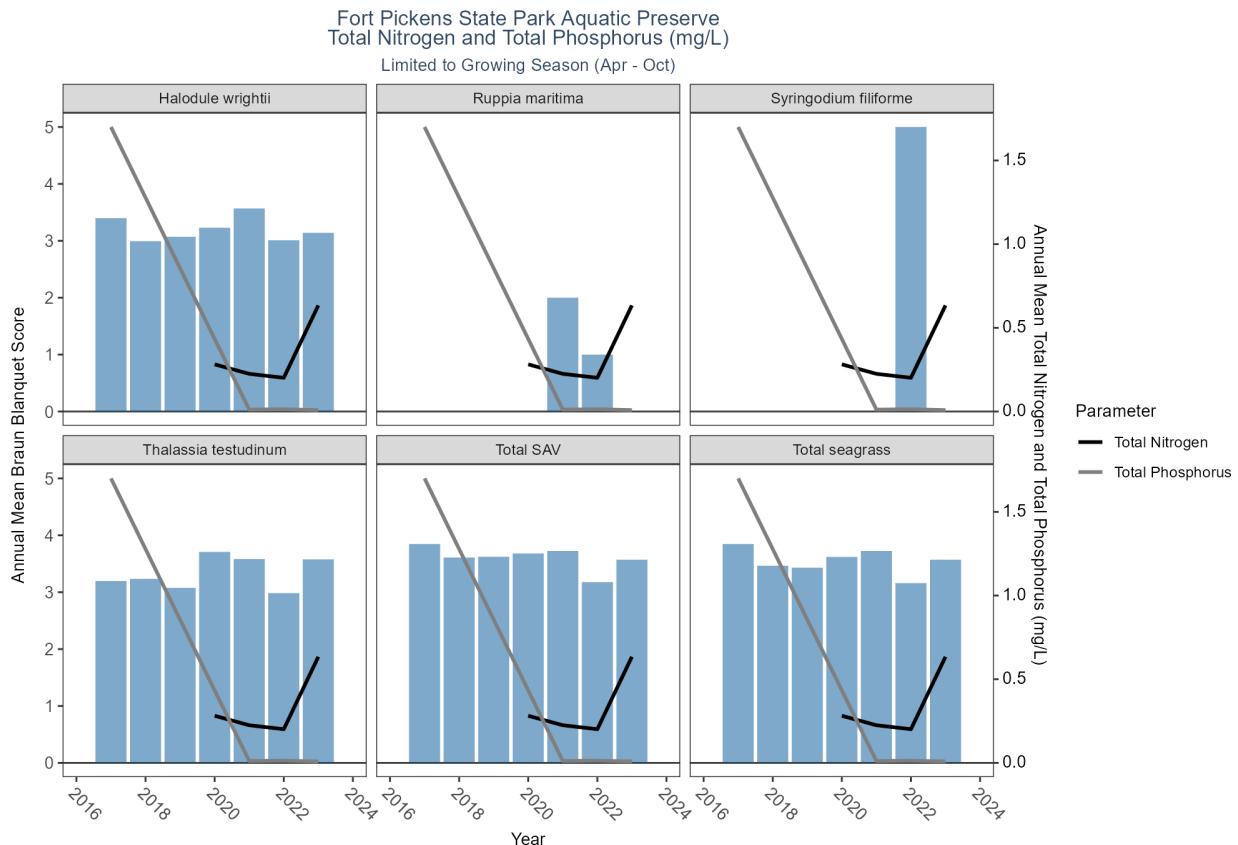


Table 251: WQ Summary for Total Nitrogen & Total Phosphorus in Fort Pickens State Park Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2020	0.282	0.285	0.240	0.320	0.039

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2021	0.225	0.240	0.110	0.300	0.056
Total Nitrogen	2022	0.201	0.180	0.150	0.290	0.054
Total Nitrogen	2023	0.634	0.742	0.120	1.212	0.402
Total Phosphorus	2017	1.700	1.700	1.700	1.700	0.000
Total Phosphorus	2021	0.011	0.013	0.004	0.016	0.004
Total Phosphorus	2022	0.014	0.013	0.010	0.018	0.003
Total Phosphorus	2023	0.008	0.007	0.005	0.015	0.004

Programs contributing WQ Data:

Table 252: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Fort Pickens State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	505	2002	2002	13
Total Nitrogen	514	2020	2023	39
Total Nitrogen	5002	1999	2023	64
Total Phosphorus	103	2011	2021	22
Total Phosphorus	505	2002	2002	13
Total Phosphorus	514	2021	2023	33
Total Phosphorus	5002	1999	2023	66

WQ Program names:

505 - Pensacola Bay Water Quality Monitoring Program

514 - Florida LAKEWATCH Program

5002 - Florida STORET / WIN

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

Total Susepended Solids

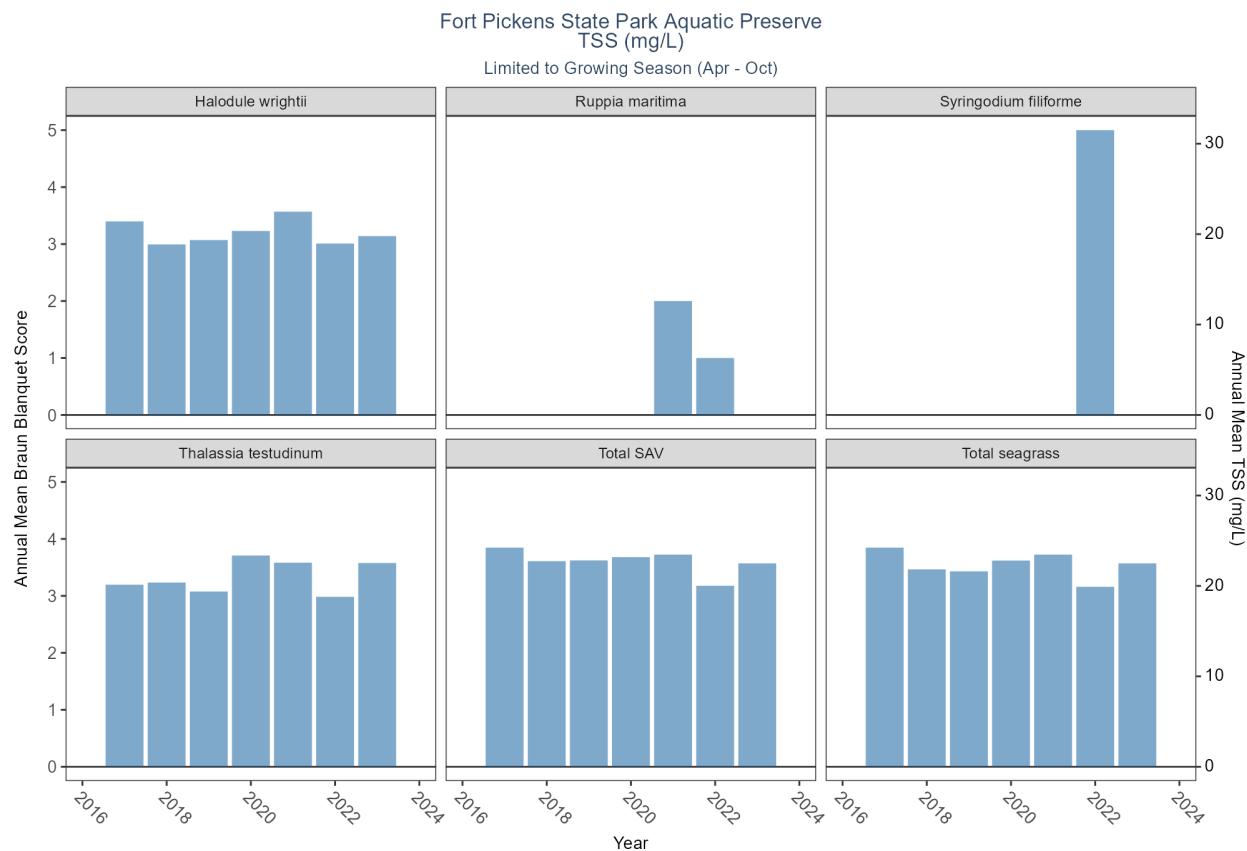


Table 253: WQ Summary for Total Susepended Solids in Fort Pickens State Park Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd

Programs contributing WQ Data:

Table 254: Programs contributing WQ data for Total Susepended Solids in Fort Pickens State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	505	2002	2012	41
TSS	5002	1997	2012	151

WQ Program names:

505 - Pensacola Bay Water Quality Monitoring Program
5002 - Florida STORET / WIN

Turbidity

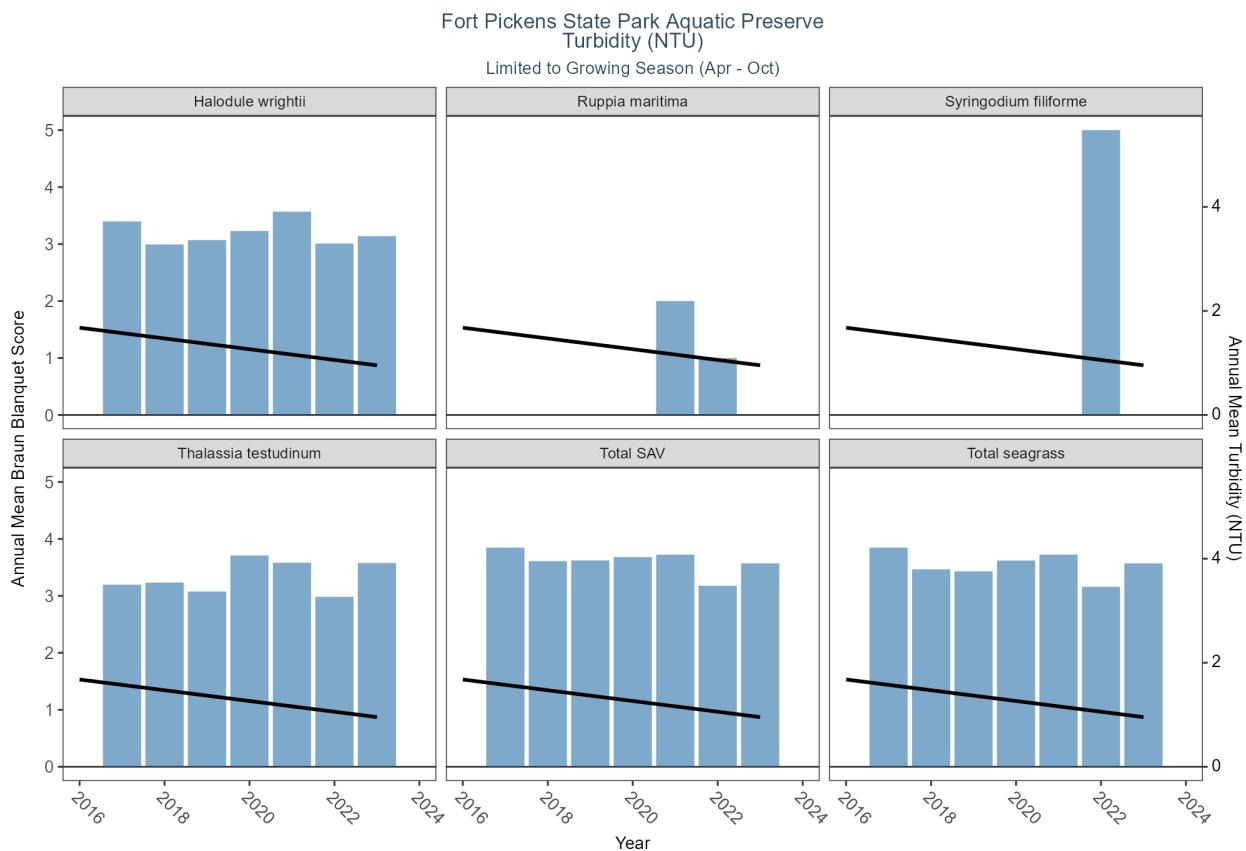


Table 255: WQ Summary for Turbidity in Fort Pickens State Park Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	2016	1.677	1.677	1.677	1.677	NA
Turbidity	2023	0.955	0.450	0.440	1.790	0.666

Programs contributing WQ Data:

Table 256: Programs contributing WQ data for Turbidity in Fort Pickens State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	103	2011	2014	32
Turbidity	505	2009	2016	41
Turbidity	5002	1997	2023	201

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

505 - Pensacola Bay Water Quality Monitoring Program

5002 - Florida STORET / WIN

Water Temperature



Table 257: WQ Summary for Water Temperature in Fort Pickens State Park Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	2016	24.134	23.870	21.50	29.70	1.805
Temperature	2017	27.295	28.250	18.68	31.20	2.422
Temperature	2018	28.682	28.860	23.00	30.46	1.696
Temperature	2019	28.732	29.435	21.10	32.94	2.474
Temperature	2020	29.670	29.610	27.70	30.90	0.839
Temperature	2021	28.194	28.290	25.80	30.93	1.446
Temperature	2022	29.180	29.100	27.60	30.70	0.788
Temperature	2023	29.491	29.110	25.76	32.90	1.889
Temperature	2024	31.106	30.850	29.10	32.70	0.900

Programs contributing WQ Data:

Table 258: Programs contributing WQ data for Water Temperature in Fort Pickens State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	1994	2019	102
Temperature	95	1996	2018	48

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	103	1986	2014	152
Temperature	115	1991	1992	10
Temperature	118	2021	2021	6
Temperature	505	2002	2016	82
Temperature	4065	2016	2024	668
Temperature	5002	1997	2023	376

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 505 - Pensacola Bay Water Quality Monitoring Program
- 4065 - Northwest Florida Aquatic Preserve Seagrass Survey
- 5002 - Florida STORET / WIN

Gasparilla Sound-Charlotte Harbor Aquatic Preserve

Programs contributing SAV Data:

Table 259: Programs contributing SAV data in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Braun Blanquet Score	570	1998	2023	8237

SAV Program names:

570 - Charlotte Harbor Seagrass Monitoring

Chlorophyll-a (corrected & uncorrected)

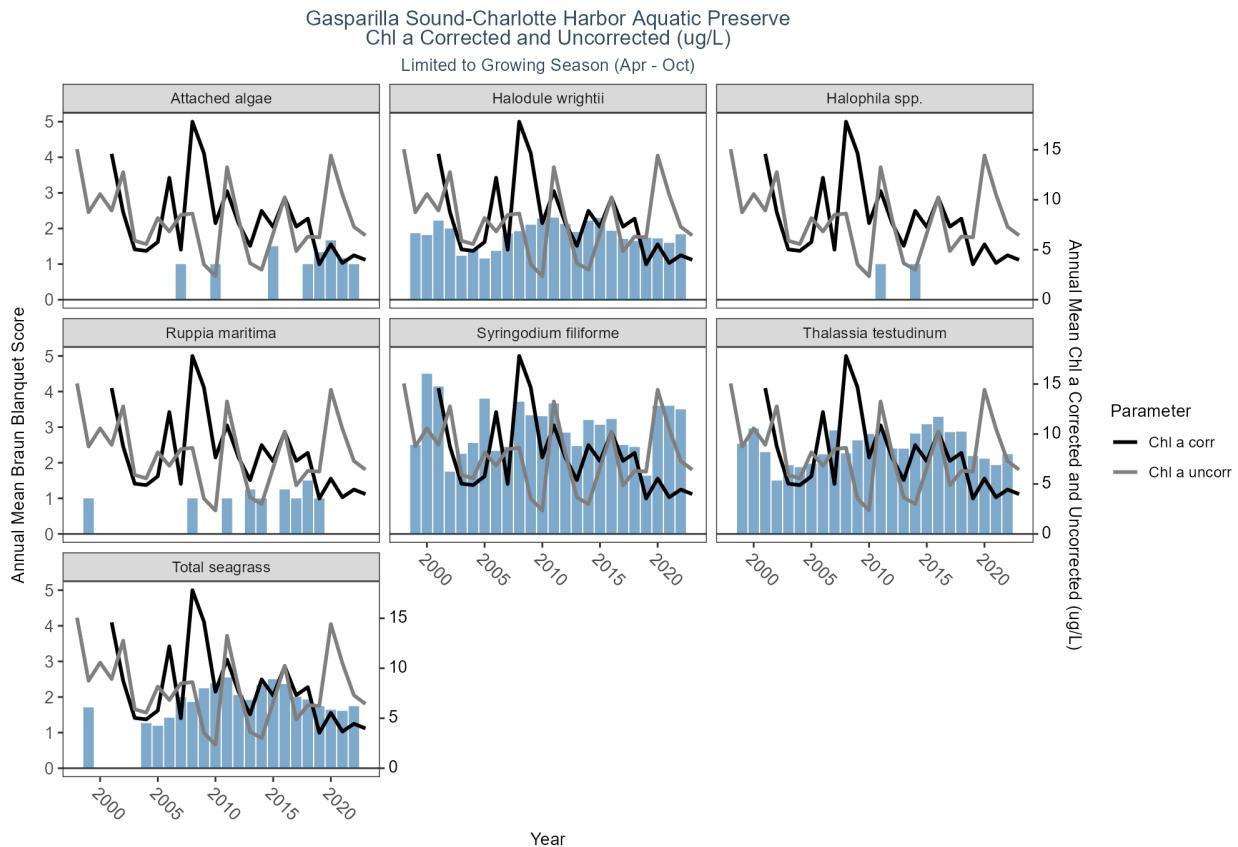


Table 260: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2001	14.594	11.000	1.000	60.000	12.218
Chl a corr	2002	8.750	5.000	1.000	48.000	8.826
Chl a corr	2003	5.030	3.090	1.000	20.900	4.655
Chl a corr	2004	4.886	3.500	1.000	48.900	5.783
Chl a corr	2005	5.771	4.195	1.000	38.900	5.809

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2006	12.199	6.000	1.000	168.000	21.123
Chl a corr	2007	5.004	4.300	0.850	19.000	3.652
Chl a corr	2008	17.812	6.000	0.670	743.000	66.309
Chl a corr	2009	14.658	6.530	0.864	128.000	23.424
Chl a corr	2010	7.656	5.690	0.690	110.000	13.281
Chl a corr	2011	10.867	6.200	1.700	52.000	11.324
Chl a corr	2012	7.644	4.450	1.000	35.000	7.822
Chl a corr	2013	5.385	5.300	0.830	18.000	3.935
Chl a corr	2014	8.890	4.800	0.970	65.000	13.884
Chl a corr	2015	7.274	5.200	0.920	29.000	7.310
Chl a corr	2016	10.189	5.000	0.503	150.000	16.394
Chl a corr	2017	7.309	4.550	0.776	42.800	7.308
Chl a corr	2018	8.110	5.525	0.500	75.100	9.082
Chl a corr	2019	3.544	2.870	0.250	29.000	3.257
Chl a corr	2020	5.539	4.150	0.900	20.000	4.662
Chl a corr	2021	3.669	2.560	0.500	36.000	4.293
Chl a corr	2022	4.443	1.850	0.500	53.000	6.828
Chl a corr	2023	3.985	1.700	0.500	61.000	7.164
Chl a corr	2024	1.794	0.940	0.500	5.900	1.600
Chl a uncorr	1998	15.062	9.110	1.000	119.800	21.428
Chl a uncorr	1999	8.747	6.895	1.000	47.800	8.813
Chl a uncorr	2000	10.566	6.000	1.000	59.000	11.778
Chl a uncorr	2001	8.920	5.300	1.000	52.000	9.791
Chl a uncorr	2002	12.768	12.110	2.000	35.300	7.575
Chl a uncorr	2003	5.897	3.960	0.015	27.098	6.553
Chl a uncorr	2004	5.563	5.065	0.606	14.400	3.404
Chl a uncorr	2005	8.171	4.325	1.160	47.000	8.925
Chl a uncorr	2006	6.824	4.720	1.160	27.200	5.989
Chl a uncorr	2007	8.488	7.980	1.160	30.500	6.165
Chl a uncorr	2008	8.618	4.500	0.847	38.000	10.723
Chl a uncorr	2009	3.534	2.000	0.599	8.010	3.286
Chl a uncorr	2010	2.345	2.649	0.080	5.390	1.889
Chl a uncorr	2011	13.262	6.950	3.300	55.000	17.172
Chl a uncorr	2012	8.050	3.300	1.900	36.000	10.341
Chl a uncorr	2013	3.650	2.400	1.300	11.000	3.696
Chl a uncorr	2014	3.000	3.000	3.000	3.000	NA
Chl a uncorr	2016	10.250	10.250	1.500	19.000	12.374
Chl a uncorr	2017	4.862	4.185	1.160	14.900	3.041
Chl a uncorr	2018	6.316	6.800	0.450	15.000	4.309
Chl a uncorr	2019	6.238	4.650	1.100	31.000	6.026
Chl a uncorr	2020	14.428	10.800	3.460	53.200	12.725
Chl a uncorr	2021	10.521	5.330	0.594	128.000	14.583
Chl a uncorr	2022	7.295	4.730	0.627	89.600	8.637
Chl a uncorr	2023	6.431	4.170	0.412	64.000	7.223
Chl a uncorr	2024	3.857	3.600	1.700	7.000	1.915

Programs contributing WQ Data:

Table 261: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	103	2021	2021	49
Chl a corr	476	2008	2024	360
Chl a corr	513	2001	2024	1509
Chl a corr	5002	2001	2024	733
Chl a corr	5028	2024	2024	1
Chl a uncorr	3	2001	2021	27
Chl a uncorr	95	2003	2010	7
Chl a uncorr	103	2000	2021	76
Chl a uncorr	115	2000	2004	6
Chl a uncorr	118	2010	2010	2
Chl a uncorr	476	1998	2024	362
Chl a uncorr	479	2002	2002	2
Chl a uncorr	514	2000	2009	100
Chl a uncorr	5002	1997	2024	932
Chl a uncorr	5028	2024	2024	1

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

3 - Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Synoptic Shipboard Surveys

95 - Harmful Algal Bloom Marine Observation Network

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

479 - Southwest Florida Water Management District - Water Quality Monitoring

514 - Florida LAKEWATCH Program

Colored Dissolved Organic Matter

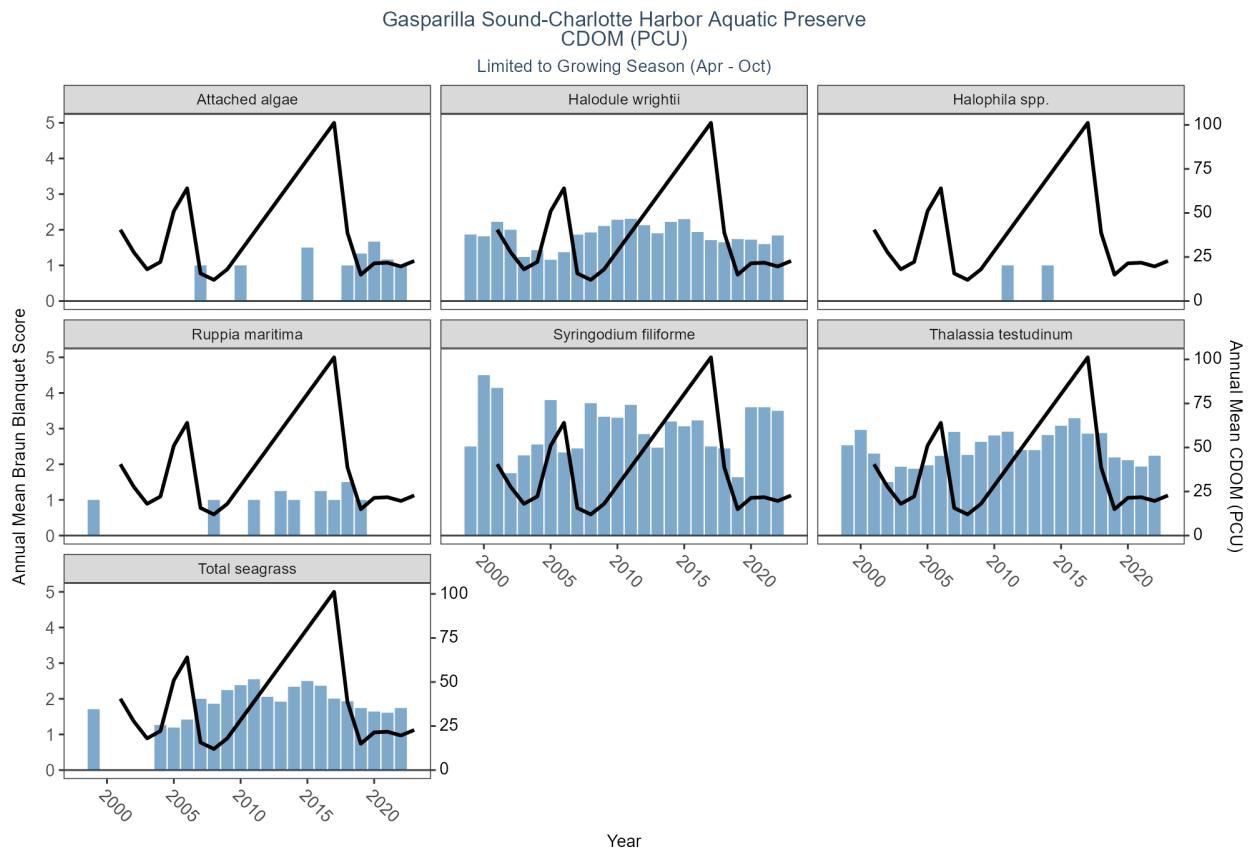


Table 262: WQ Summary for Colored Dissolved Organic Matter in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
CDOM	2001	40.500	39.00	16.00	68	25.878
CDOM	2002	27.750	20.50	5.00	59	20.617
CDOM	2003	18.000	18.00	16.00	20	2.828
CDOM	2004	22.200	19.00	16.00	31	6.140
CDOM	2005	51.000	49.50	37.00	74	14.241
CDOM	2006	64.013	40.00	12.00	250	56.471
CDOM	2007	15.667	16.00	12.00	19	3.512
CDOM	2008	12.000	11.00	10.00	15	2.646
CDOM	2009	18.000	18.00	17.00	19	1.414
CDOM	2017	101.170	111.00	2.50	270	80.953
CDOM	2018	38.702	27.50	1.60	250	46.298
CDOM	2019	14.952	9.83	1.60	130	17.147
CDOM	2020	21.410	8.10	2.35	170	33.972
CDOM	2021	21.760	12.00	1.59	150	28.787
CDOM	2022	19.640	7.50	1.31	150	31.504
CDOM	2023	22.759	7.68	1.25	290	41.126
CDOM	2024	10.126	6.42	1.48	40	10.740

Programs contributing WQ Data:

Table 263: Programs contributing WQ data for Colored Dissolved Organic Matter in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
CDOM	103	2021	2021	73
CDOM	476	2017	2024	155
CDOM	479	2002	2002	2
CDOM	513	2006	2024	401
CDOM	514	2001	2009	31
CDOM	5002	2018	2024	97

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

479 - Southwest Florida Water Management District - Water Quality Monitoring

513 - Coastal Charlotte Harbor Monitoring Network

514 - Florida LAKEWATCH Program

5002 - Florida STORET / WIN

Dissolved Oxygen

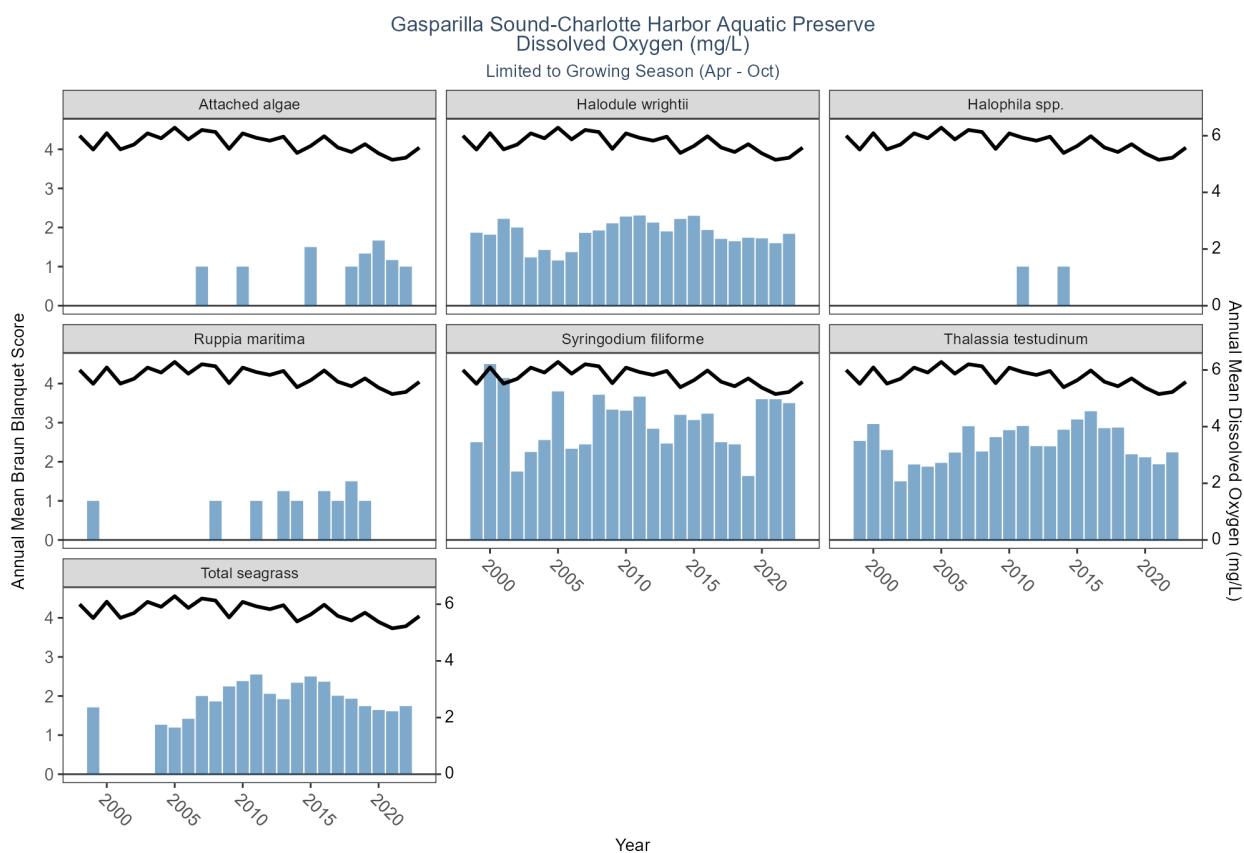


Table 264: WQ Summary for Dissolved Oxygen in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	1998	5.999	6.000	1.20	12.80	1.666
Dissolved Oxygen	1999	5.511	5.700	0.20	13.20	1.704
Dissolved Oxygen	2000	6.090	6.200	1.50	16.20	1.406
Dissolved Oxygen	2001	5.518	5.800	0.01	15.20	2.094
Dissolved Oxygen	2002	5.688	5.800	0.03	13.60	1.858
Dissolved Oxygen	2003	6.084	6.230	0.23	12.70	1.859
Dissolved Oxygen	2004	5.908	6.165	0.09	12.60	1.810
Dissolved Oxygen	2005	6.284	6.400	0.09	15.85	1.781
Dissolved Oxygen	2006	5.869	6.100	0.03	14.50	1.763
Dissolved Oxygen	2007	6.202	6.310	1.09	16.50	1.306
Dissolved Oxygen	2008	6.131	6.200	0.35	18.30	1.641
Dissolved Oxygen	2009	5.534	5.900	0.08	11.60	1.821
Dissolved Oxygen	2010	6.082	6.200	0.17	14.70	1.827
Dissolved Oxygen	2011	5.926	6.200	0.38	14.00	1.850
Dissolved Oxygen	2012	5.825	6.000	0.35	15.20	1.627
Dissolved Oxygen	2013	5.966	6.200	0.20	15.60	1.884
Dissolved Oxygen	2014	5.391	5.630	0.24	14.80	1.963
Dissolved Oxygen	2015	5.637	5.900	0.23	13.50	1.920
Dissolved Oxygen	2016	5.982	6.300	0.20	13.90	1.938
Dissolved Oxygen	2017	5.584	5.800	0.07	15.30	1.894
Dissolved Oxygen	2018	5.425	5.820	0.20	12.80	1.984
Dissolved Oxygen	2019	5.701	5.915	0.10	13.90	1.727
Dissolved Oxygen	2020	5.376	5.680	0.01	12.20	1.821
Dissolved Oxygen	2021	5.150	5.500	0.03	17.60	2.142
Dissolved Oxygen	2022	5.222	5.730	0.01	16.60	2.179
Dissolved Oxygen	2023	5.580	6.000	0.23	8.53	1.435
Dissolved Oxygen	2024	6.145	6.300	2.36	8.15	1.238

Programs contributing WQ Data:

Table 265: Programs contributing WQ data for Dissolved Oxygen in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	1989	2022	22300
Dissolved Oxygen	95	1971	2018	224
Dissolved Oxygen	103	2003	2021	45
Dissolved Oxygen	115	2000	2004	27
Dissolved Oxygen	118	2015	2020	29
Dissolved Oxygen	476	1997	2024	577
Dissolved Oxygen	479	2001	2015	7118
Dissolved Oxygen	513	2001	2024	3105
Dissolved Oxygen	5002	1993	2024	12171
Dissolved Oxygen	5028	2024	2024	1

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

- 95 - Harmful Algal Bloom Marine Observation Network
 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
 115 - Environmental Monitoring Assessment Program
 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
 479 - Southwest Florida Water Management District - Water Quality Monitoring
 513 - Coastal Charlotte Harbor Monitoring Network
 5002 - Florida STORET / WIN
 5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

Dissolved Oxygen Saturation

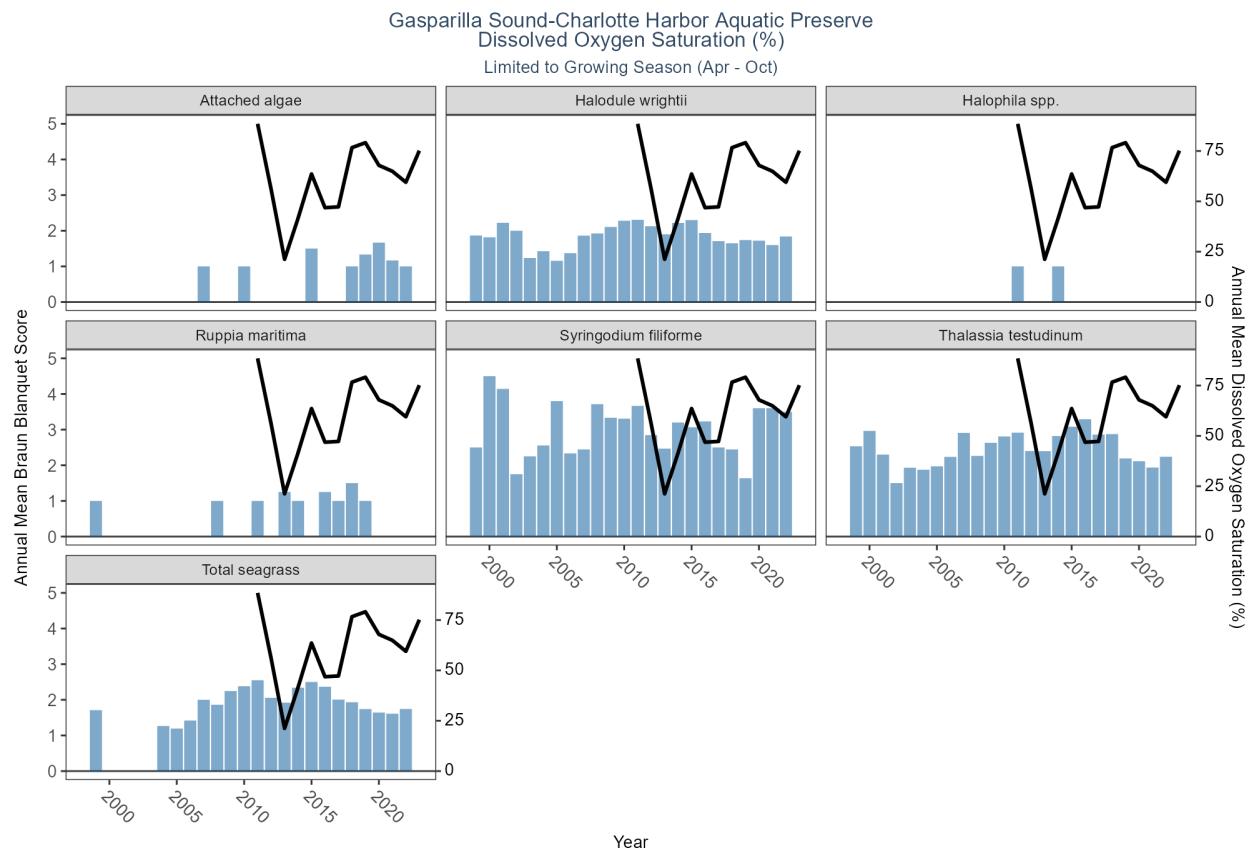


Table 266: WQ Summary for Dissolved Oxygen Saturation in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2011	88.500	88.50	88.5	88.5	NA
Dissolved Oxygen Saturation	2012	56.060	52.30	18.4	89.6	28.540
Dissolved Oxygen Saturation	2013	21.217	10.30	4.1	53.3	21.280
Dissolved Oxygen Saturation	2014	41.550	41.55	27.8	55.3	19.445
Dissolved Oxygen Saturation	2015	63.583	64.25	58.0	69.5	4.760
Dissolved Oxygen Saturation	2016	46.850	46.95	28.0	60.0	11.528
Dissolved Oxygen Saturation	2017	47.243	38.30	12.4	76.4	23.957
Dissolved Oxygen Saturation	2018	76.666	78.60	37.9	108.6	18.471
Dissolved Oxygen Saturation	2019	79.125	83.05	40.1	98.6	15.582

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2020	67.884	66.50	26.7	104.1	20.006
Dissolved Oxygen Saturation	2021	64.932	67.30	10.4	102.0	24.103
Dissolved Oxygen Saturation	2022	59.481	54.20	9.6	102.5	21.854
Dissolved Oxygen Saturation	2023	75.171	87.40	4.3	101.2	24.507
Dissolved Oxygen Saturation	2024	88.254	95.50	37.1	109.3	18.700

Programs contributing WQ Data:

Table 267: Programs contributing WQ data for Dissolved Oxygen Saturation in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	95	2011	2018	25
Dissolved Oxygen Saturation	102	1992	1992	6
Dissolved Oxygen Saturation	476	2016	2024	105
Dissolved Oxygen Saturation	513	2023	2024	78
Dissolved Oxygen Saturation	5002	2012	2024	197
Dissolved Oxygen Saturation	5028	2024	2024	1

WQ Program names:

95 - Harmful Algal Bloom Marine Observation Network

102 - National Status and Trends Mussel Watch

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

pH

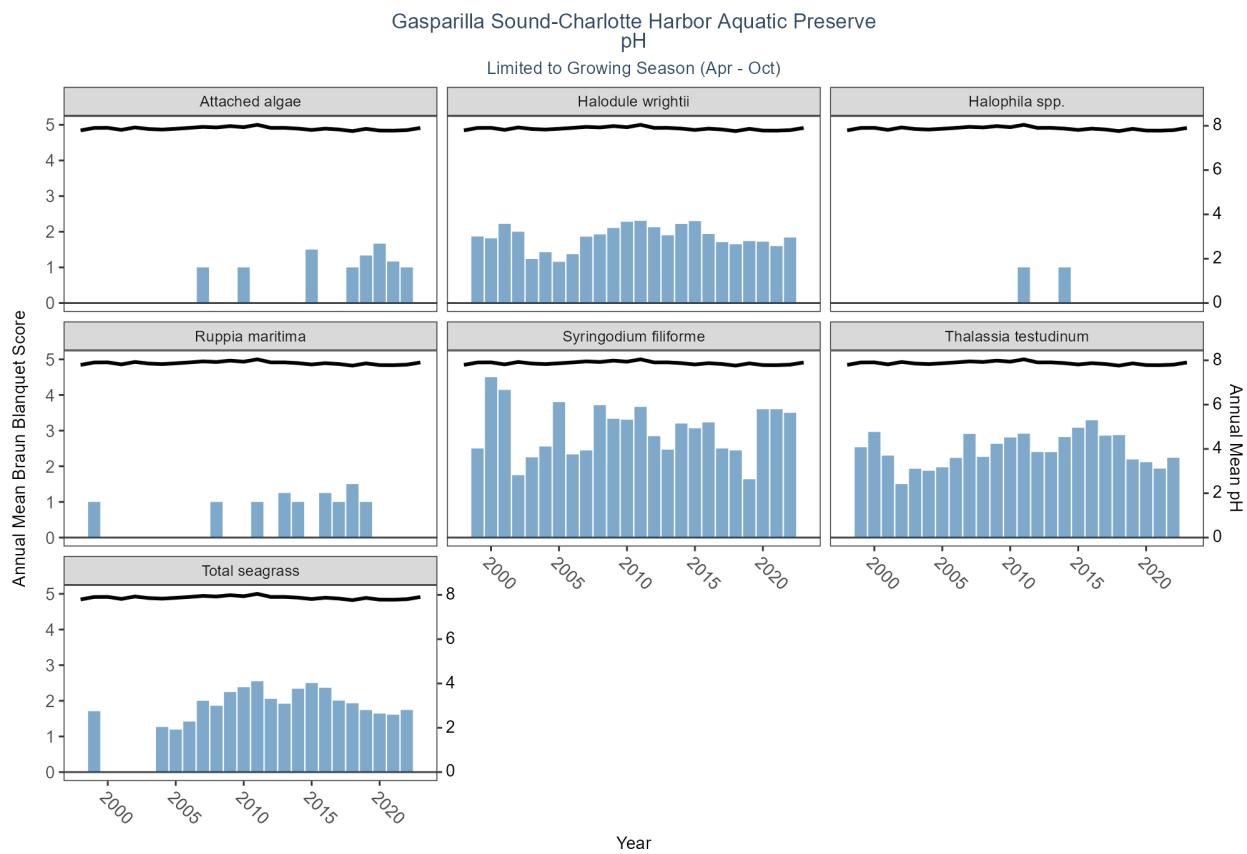


Table 268: WQ Summary for pH in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	1998	7.792	7.80	6.89	8.90	0.359
pH	1999	7.903	7.90	7.10	8.70	0.289
pH	2000	7.907	7.90	6.50	8.90	0.244
pH	2001	7.816	7.88	6.70	9.25	0.326
pH	2002	7.925	7.94	6.65	9.97	0.251
pH	2003	7.854	7.90	6.47	9.32	0.293
pH	2004	7.829	7.90	6.47	8.94	0.323
pH	2005	7.865	7.90	4.04	10.33	0.323
pH	2006	7.905	7.97	4.04	9.97	0.347
pH	2007	7.951	7.96	6.60	9.10	0.191
pH	2008	7.925	7.95	4.56	8.90	0.263
pH	2009	7.986	8.00	7.00	9.53	0.272
pH	2010	7.938	7.97	7.10	8.70	0.217
pH	2011	8.044	8.10	6.86	8.70	0.207
pH	2012	7.905	7.96	5.58	8.60	0.262
pH	2013	7.907	8.00	4.64	8.80	0.329
pH	2014	7.872	7.96	4.40	8.70	0.346
pH	2015	7.812	7.90	6.82	8.90	0.288
pH	2016	7.871	7.93	5.80	9.06	0.328

ParameterName	Year	mean	median	min	max	sd
pH	2017	7.832	7.90	6.52	10.30	0.343
pH	2018	7.761	7.80	6.50	11.90	0.334
pH	2019	7.862	7.90	6.80	9.60	0.353
pH	2020	7.785	7.85	6.01	8.39	0.294
pH	2021	7.781	7.87	6.54	8.52	0.316
pH	2022	7.803	7.91	6.66	8.60	0.361
pH	2023	7.902	7.93	6.24	8.91	0.247
pH	2024	7.935	8.00	7.46	8.66	0.206

Programs contributing WQ Data:

Table 269: Programs contributing WQ data for pH in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	1989	2022	22030
pH	95	1955	2018	207
pH	103	2003	2021	44
pH	115	2000	2004	27
pH	118	2015	2020	27
pH	476	1997	2024	637
pH	479	2001	2015	7033
pH	513	2001	2024	3093
pH	5002	1993	2024	10868
pH	5028	2024	2024	1

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 479 - Southwest Florida Water Management District - Water Quality Monitoring
- 513 - Coastal Charlotte Harbor Monitoring Network
- 5002 - Florida STORET / WIN
- 5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

Salinity

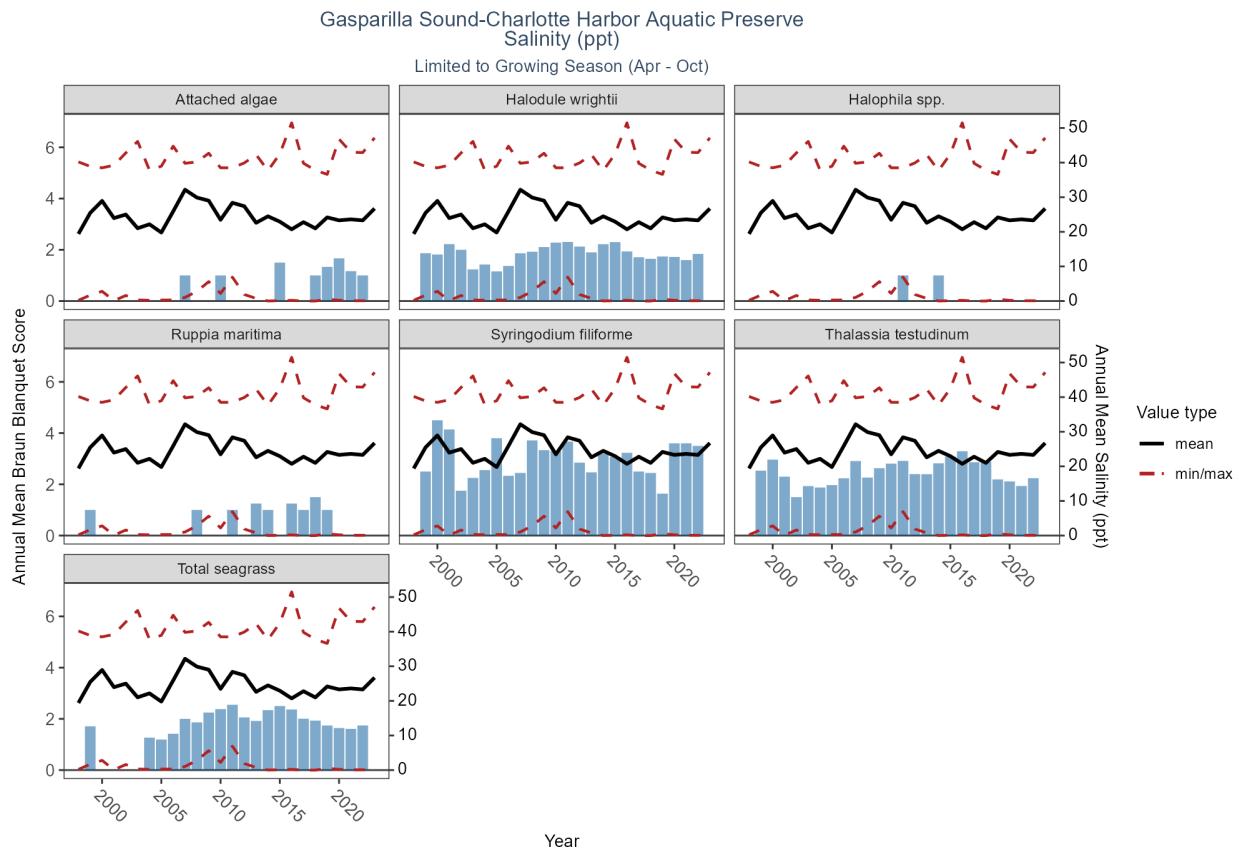


Table 270: WQ Summary for Salinity in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	1998	19.395	19.350	0.20	40.20	8.704
Salinity	1999	25.480	27.500	1.70	38.90	8.017
Salinity	2000	28.935	30.500	2.80	38.50	6.189
Salinity	2001	23.963	24.800	0.10	39.22	10.228
Salinity	2002	24.996	26.000	1.60	42.80	8.211
Salinity	2003	21.031	22.200	0.31	46.12	8.690
Salinity	2004	22.173	23.845	0.21	37.80	8.914
Salinity	2005	19.800	20.480	0.29	38.95	8.295
Salinity	2006	25.905	27.450	0.29	44.75	7.775
Salinity	2007	32.167	33.000	1.04	39.80	4.587
Salinity	2008	29.904	31.600	2.80	40.20	6.694
Salinity	2009	29.011	31.600	5.60	42.70	7.993
Salinity	2010	23.476	23.170	2.20	38.50	6.610
Salinity	2011	28.390	29.405	6.90	38.50	5.723
Salinity	2012	27.403	30.550	1.90	39.90	8.265
Salinity	2013	22.609	24.100	0.75	42.30	9.802
Salinity	2014	24.481	25.400	0.02	37.70	7.661
Salinity	2015	22.938	24.600	0.10	42.50	8.375
Salinity	2016	20.722	20.825	0.20	51.50	8.226

ParameterName	Year	mean	median	min	max	sd
Salinity	2017	22.793	25.300	0.00	39.80	9.667
Salinity	2018	21.001	21.700	0.00	37.80	9.335
Salinity	2019	24.172	24.550	0.50	36.60	7.130
Salinity	2020	23.317	24.200	0.20	46.80	7.798
Salinity	2021	23.601	24.900	0.09	43.00	8.359
Salinity	2022	23.306	24.790	0.08	42.90	9.451
Salinity	2023	26.728	28.240	0.08	47.15	6.712
Salinity	2024	17.279	20.830	0.31	36.69	12.877

Programs contributing WQ Data:

Table 271: Programs contributing WQ data for Salinity in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	3	2001	2021	30
Salinity	69	1989	2022	22455
Salinity	95	1954	2018	449
Salinity	102	1992	1992	6
Salinity	103	2003	2004	5
Salinity	115	2000	2004	27
Salinity	118	2015	2020	26
Salinity	476	1997	2024	643
Salinity	479	2001	2015	7113
Salinity	513	2001	2024	3029
Salinity	5002	1995	2024	10951
Salinity	5028	2024	2024	1

WQ Program names:

3 - Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Synoptic Shipboard Surveys

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

102 - National Status and Trends Mussel Watch

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

479 - Southwest Florida Water Management District - Water Quality Monitoring

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

Secchi Depth

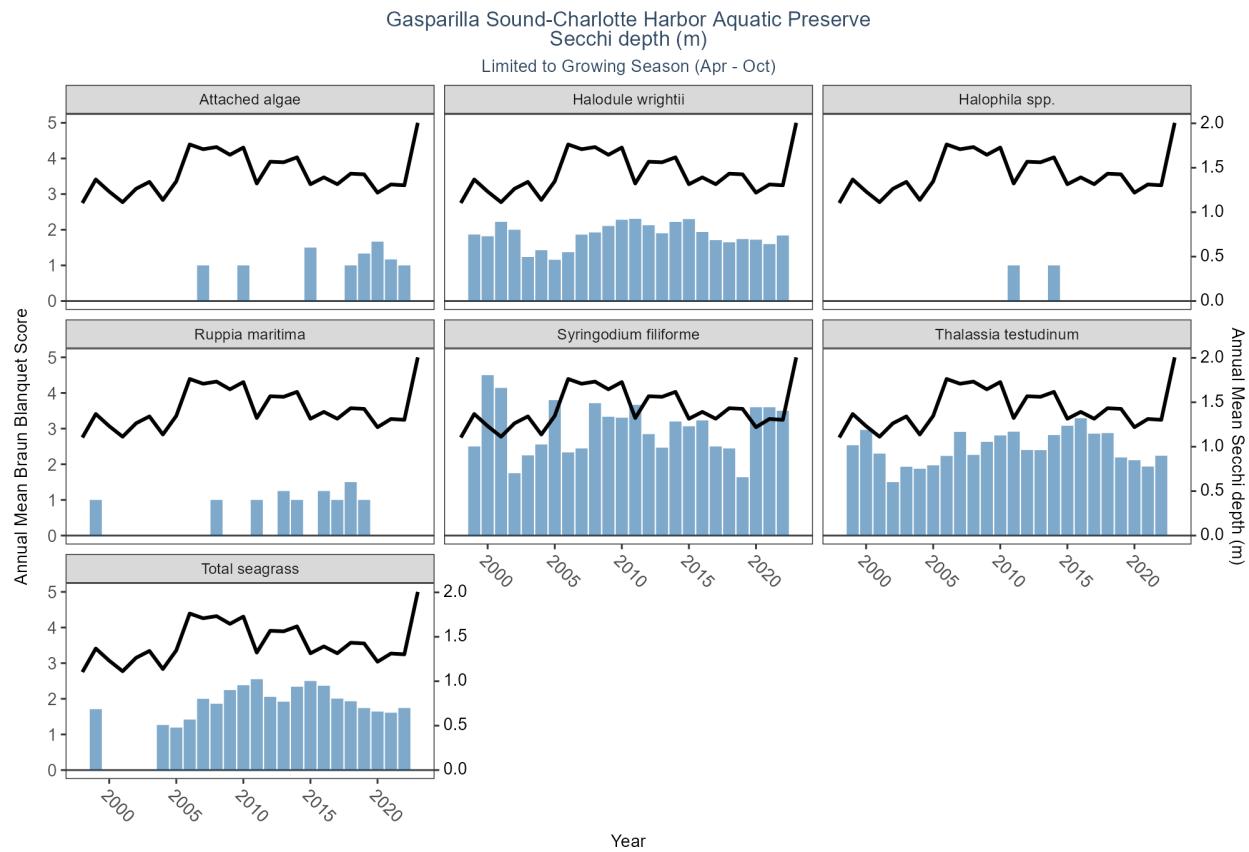


Table 272: WQ Summary for Secchi Depth in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	1998	1.103	1.00	0.20	2.5	0.550
Secchi depth	1999	1.368	1.20	0.30	3.1	0.613
Secchi depth	2000	1.232	1.10	0.20	3.3	0.642
Secchi depth	2001	1.112	0.90	0.30	4.0	0.626
Secchi depth	2002	1.263	1.10	0.20	4.5	0.637
Secchi depth	2003	1.341	1.10	0.30	4.5	0.811
Secchi depth	2004	1.137	1.00	0.07	4.5	0.703
Secchi depth	2005	1.347	1.10	0.30	4.5	0.764
Secchi depth	2006	1.762	1.40	0.30	5.3	1.121
Secchi depth	2007	1.709	1.50	0.30	4.8	0.948
Secchi depth	2008	1.733	1.50	0.30	4.5	0.931
Secchi depth	2009	1.646	1.40	0.30	4.0	0.927
Secchi depth	2010	1.728	1.50	0.30	4.5	0.991
Secchi depth	2011	1.323	1.10	0.30	4.0	0.730
Secchi depth	2012	1.568	1.30	0.30	4.3	0.904
Secchi depth	2013	1.562	1.20	0.20	4.9	0.981
Secchi depth	2014	1.617	1.40	0.10	5.3	1.013
Secchi depth	2015	1.314	1.00	0.20	5.2	0.902
Secchi depth	2016	1.392	1.10	0.30	4.4	0.802

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2017	1.315	1.00	0.20	4.0	0.838
Secchi depth	2018	1.433	1.10	0.20	5.5	0.970
Secchi depth	2019	1.426	1.20	0.10	5.2	0.842
Secchi depth	2020	1.220	1.00	0.30	4.5	0.704
Secchi depth	2021	1.312	1.00	0.20	5.1	0.870
Secchi depth	2022	1.303	1.00	0.10	4.1	0.813
Secchi depth	2023	2.006	1.80	0.20	6.3	1.163
Secchi depth	2024	1.484	1.31	1.00	2.2	0.455

Programs contributing WQ Data:

Table 273: Programs contributing WQ data for Secchi Depth in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	1994	2022	20073
Secchi depth	103	2021	2021	30
Secchi depth	115	2000	2004	5
Secchi depth	118	2015	2020	4
Secchi depth	476	1997	2024	549
Secchi depth	479	2001	2015	3154
Secchi depth	513	2001	2024	662
Secchi depth	514	2000	2009	94
Secchi depth	5002	2001	2024	2035
Secchi depth	5028	2024	2024	1

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 479 - Southwest Florida Water Management District - Water Quality Monitoring
- 513 - Coastal Charlotte Harbor Monitoring Network
- 514 - Florida LAKEWATCH Program
- 5002 - Florida STORET / WIN
- 5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

Total Nitrogen & Total Phosphorus

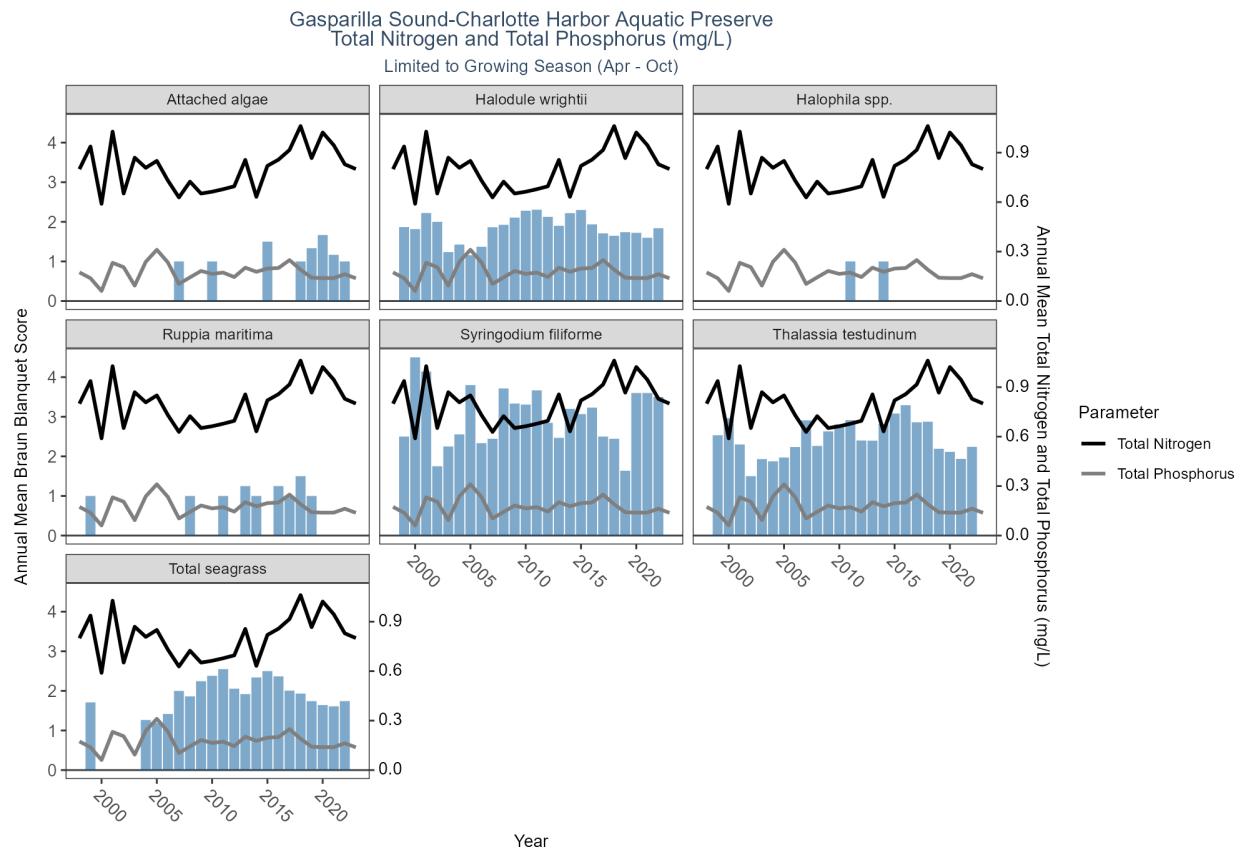


Table 274: WQ Summary for Total Nitrogen & Total Phosphorus in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	1998	0.800	0.752	0.010	1.880	0.381
Total Nitrogen	1999	0.937	0.895	0.030	1.980	0.428
Total Nitrogen	2000	0.590	0.610	0.000	1.716	0.406
Total Nitrogen	2001	1.027	0.840	0.000	3.470	0.814
Total Nitrogen	2002	0.652	0.640	0.000	1.570	0.345
Total Nitrogen	2003	0.869	0.745	0.000	5.525	0.630
Total Nitrogen	2004	0.808	0.733	0.000	2.350	0.468
Total Nitrogen	2005	0.850	0.794	0.000	10.100	0.773
Total Nitrogen	2006	0.731	0.680	0.130	2.320	0.361
Total Nitrogen	2007	0.628	0.610	0.000	1.530	0.290
Total Nitrogen	2008	0.724	0.640	0.000	4.440	0.494
Total Nitrogen	2009	0.652	0.561	0.000	2.120	0.335
Total Nitrogen	2010	0.663	0.575	0.240	2.380	0.300
Total Nitrogen	2011	0.678	0.657	0.075	1.612	0.241
Total Nitrogen	2012	0.696	0.643	0.050	1.960	0.321
Total Nitrogen	2013	0.856	0.719	0.100	2.700	0.412
Total Nitrogen	2014	0.632	0.583	0.050	2.330	0.348
Total Nitrogen	2015	0.820	0.721	0.284	1.640	0.312
Total Nitrogen	2016	0.857	0.763	0.063	4.090	0.421

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2017	0.916	0.806	0.430	3.400	0.360
Total Nitrogen	2018	1.061	0.925	0.084	2.880	0.424
Total Nitrogen	2019	0.867	0.786	0.270	2.250	0.323
Total Nitrogen	2020	1.022	0.962	0.105	2.400	0.391
Total Nitrogen	2021	0.945	0.809	0.296	3.750	0.484
Total Nitrogen	2022	0.829	0.790	0.080	2.380	0.303
Total Nitrogen	2023	0.800	0.790	0.050	2.210	0.232
Total Nitrogen	2024	0.827	0.870	0.344	1.010	0.158
Total Phosphorus	1998	0.174	0.145	0.050	0.330	0.126
Total Phosphorus	1999	0.138	0.075	0.040	0.490	0.114
Total Phosphorus	2000	0.061	0.050	0.000	0.230	0.066
Total Phosphorus	2001	0.232	0.198	0.000	0.667	0.179
Total Phosphorus	2002	0.205	0.151	0.000	0.810	0.165
Total Phosphorus	2003	0.094	0.058	0.000	0.750	0.118
Total Phosphorus	2004	0.238	0.184	0.000	0.830	0.193
Total Phosphorus	2005	0.311	0.292	0.000	3.710	0.292
Total Phosphorus	2006	0.234	0.194	0.016	0.841	0.148
Total Phosphorus	2007	0.104	0.085	0.000	0.580	0.076
Total Phosphorus	2008	0.144	0.112	0.000	0.592	0.107
Total Phosphorus	2009	0.182	0.168	0.000	0.623	0.138
Total Phosphorus	2010	0.165	0.133	0.020	0.527	0.110
Total Phosphorus	2011	0.172	0.164	0.013	0.494	0.096
Total Phosphorus	2012	0.145	0.104	0.008	0.620	0.111
Total Phosphorus	2013	0.202	0.184	0.012	0.610	0.136
Total Phosphorus	2014	0.177	0.162	0.008	0.599	0.111
Total Phosphorus	2015	0.197	0.144	0.008	0.639	0.145
Total Phosphorus	2016	0.200	0.194	0.008	0.487	0.098
Total Phosphorus	2017	0.248	0.201	0.008	0.745	0.180
Total Phosphorus	2018	0.190	0.168	0.002	0.603	0.128
Total Phosphorus	2019	0.141	0.112	0.008	0.654	0.114
Total Phosphorus	2020	0.139	0.111	0.015	0.472	0.101
Total Phosphorus	2021	0.139	0.110	0.019	0.698	0.110
Total Phosphorus	2022	0.163	0.115	0.008	0.784	0.148
Total Phosphorus	2023	0.138	0.124	0.013	0.490	0.088
Total Phosphorus	2024	0.065	0.054	0.007	0.240	0.055

Programs contributing WQ Data:

Table 275: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	103	2000	2006	43
Total Nitrogen	115	2000	2003	4
Total Nitrogen	118	2010	2010	2
Total Nitrogen	476	1998	2024	552
Total Nitrogen	479	2002	2015	1241
Total Nitrogen	513	2001	2024	1491
Total Nitrogen	514	2000	2009	102
Total Nitrogen	5002	1993	2024	2893

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	5028	2024	2024	1
Total Phosphorus	103	2000	2021	105
Total Phosphorus	115	2000	2003	4
Total Phosphorus	118	2010	2010	1
Total Phosphorus	476	1998	2024	586
Total Phosphorus	479	2002	2015	1231
Total Phosphorus	513	2001	2024	1522
Total Phosphorus	514	2000	2009	102
Total Phosphorus	5002	2001	2024	1584
Total Phosphorus	5028	2024	2024	1

WQ Program names:

- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 479 - Southwest Florida Water Management District - Water Quality Monitoring
- 513 - Coastal Charlotte Harbor Monitoring Network
- 514 - Florida LAKEWATCH Program
- 5002 - Florida STORET / WIN
- 5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

Total Suspended Solids

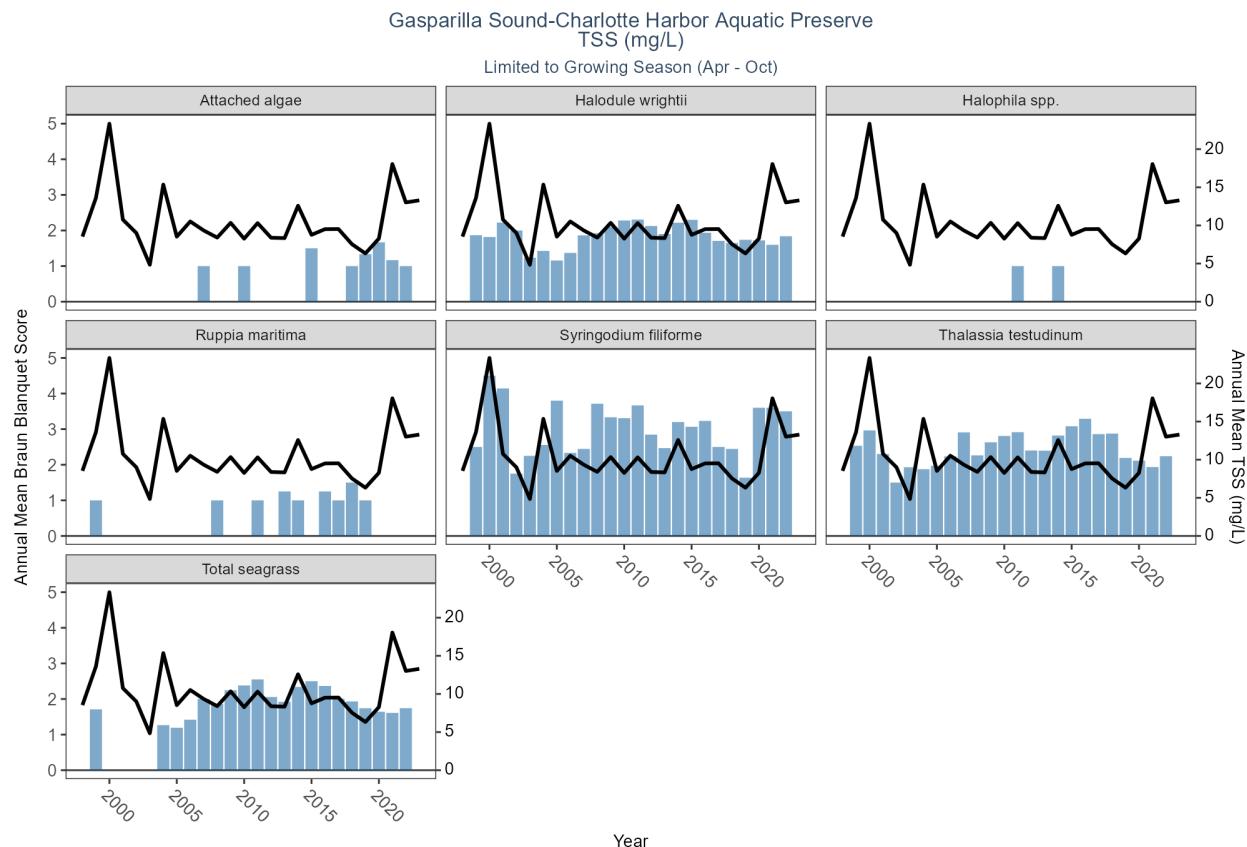


Table 276: WQ Summary for Total Susepended Solids in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	1998	8.536	8.000	4.000	22.0	3.697
TSS	1999	13.607	14.500	2.000	23.0	5.287
TSS	2000	23.340	17.750	10.000	59.0	15.731
TSS	2001	10.763	8.050	1.300	54.3	9.350
TSS	2002	9.002	7.500	0.600	51.4	6.286
TSS	2003	4.838	2.060	1.630	61.0	6.183
TSS	2004	15.357	8.200	2.000	212.0	29.448
TSS	2005	8.526	5.467	1.000	115.0	11.359
TSS	2006	10.520	7.350	2.330	79.0	9.793
TSS	2007	9.338	8.200	1.600	31.2	5.384
TSS	2008	8.405	6.100	2.400	103.0	10.280
TSS	2009	10.340	7.690	2.000	80.3	8.749
TSS	2010	8.260	6.515	1.400	46.8	6.240
TSS	2011	10.305	7.600	0.570	53.5	8.079
TSS	2012	8.386	5.590	0.570	92.0	9.499
TSS	2013	8.334	5.925	2.000	48.0	7.025
TSS	2014	12.578	8.500	2.000	135.0	11.971
TSS	2015	8.764	7.160	0.570	49.8	6.323
TSS	2016	9.510	6.470	0.570	78.7	10.145
TSS	2017	9.526	6.200	0.570	59.7	9.300
TSS	2018	7.541	4.675	0.600	105.0	10.026
TSS	2019	6.325	4.800	0.600	43.8	6.427
TSS	2020	8.276	6.400	0.570	42.8	6.721
TSS	2021	18.050	14.450	0.800	132.0	13.512
TSS	2022	13.015	9.185	0.570	48.0	9.783
TSS	2023	13.286	12.250	0.941	47.3	8.295
TSS	2024	6.758	5.225	0.570	37.0	6.704

Programs contributing WQ Data:

Table 277: Programs contributing WQ data for Total Susepended Solids in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	103	2021	2021	53
TSS	476	2016	2016	7
TSS	479	2002	2015	1242
TSS	513	2001	2024	1460
TSS	5002	1996	2024	2478

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

479 - Southwest Florida Water Management District - Water Quality Monitoring

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

Turbidity

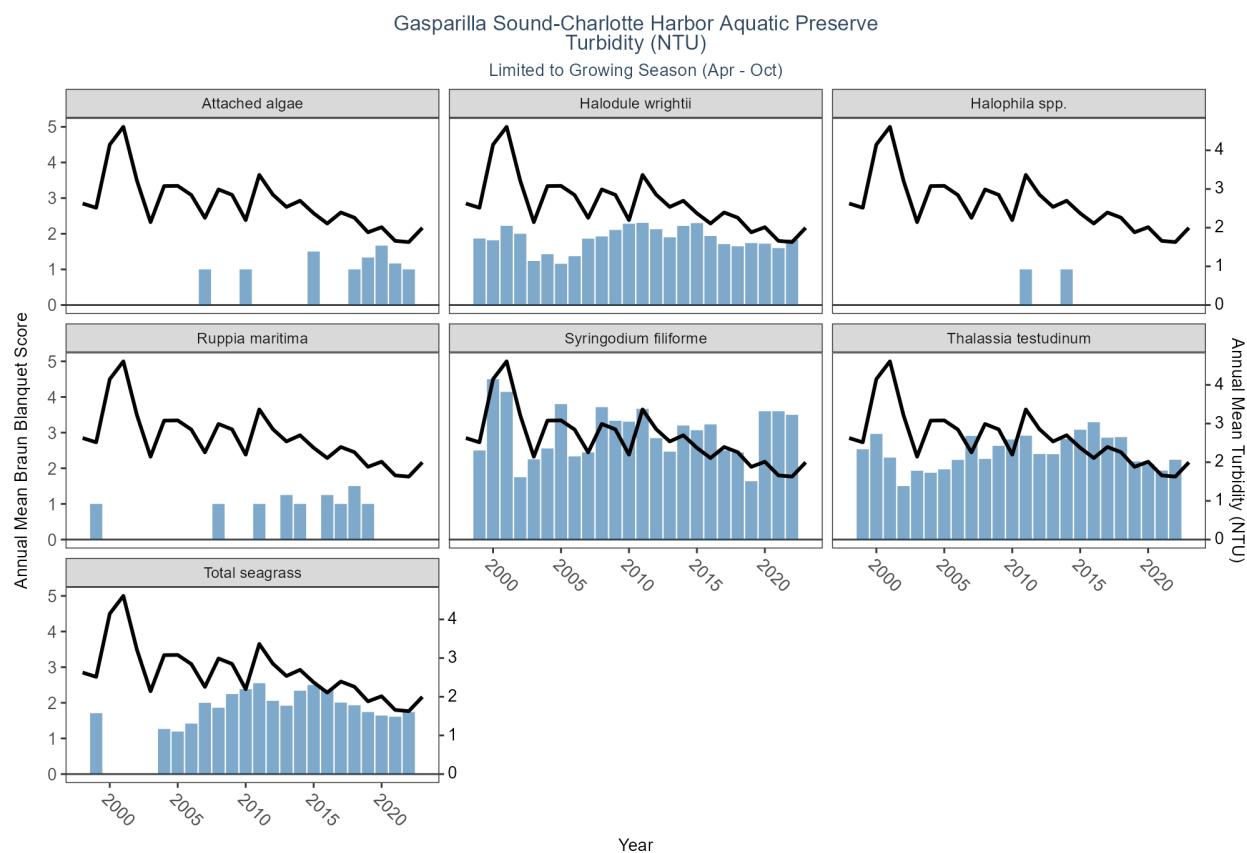


Table 278: WQ Summary for Turbidity in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	1998	2.625	2.200	0.190	13.00	1.694
Turbidity	1999	2.515	2.400	0.130	25.00	2.429
Turbidity	2000	4.148	2.900	0.300	27.00	4.359
Turbidity	2001	4.608	3.500	0.070	34.20	4.079
Turbidity	2002	3.216	2.500	0.230	21.00	2.501
Turbidity	2003	2.142	1.695	0.082	20.00	1.980
Turbidity	2004	3.076	2.300	0.220	38.00	3.177
Turbidity	2005	3.081	2.340	0.240	64.90	4.950
Turbidity	2006	2.845	1.900	0.300	27.20	3.026
Turbidity	2007	2.254	1.700	0.300	29.00	2.372
Turbidity	2008	2.989	2.100	0.300	68.00	5.275
Turbidity	2009	2.849	2.200	0.300	31.00	3.109
Turbidity	2010	2.196	1.700	0.200	20.00	1.925
Turbidity	2011	3.365	3.000	0.600	17.00	2.010
Turbidity	2012	2.855	2.300	0.564	17.00	2.138
Turbidity	2013	2.537	2.000	0.306	17.00	2.324
Turbidity	2014	2.697	1.900	0.338	28.00	2.737
Turbidity	2015	2.372	2.100	0.400	7.80	1.440
Turbidity	2016	2.108	1.600	0.200	19.00	2.205

ParameterName	Year	mean	median	min	max	sd
Turbidity	2017	2.394	1.900	0.300	26.00	2.210
Turbidity	2018	2.259	1.800	0.100	21.00	2.388
Turbidity	2019	1.881	1.340	0.200	30.23	2.509
Turbidity	2020	2.013	1.600	0.200	38.70	2.729
Turbidity	2021	1.659	1.210	0.240	12.00	1.440
Turbidity	2022	1.628	1.400	0.110	22.00	1.601
Turbidity	2023	1.997	1.500	0.200	11.60	1.664
Turbidity	2024	1.321	1.190	0.242	2.91	0.666

Programs contributing WQ Data:

Table 279: Programs contributing WQ data for Turbidity in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	95	2003	2003	6
Turbidity	103	2006	2021	78
Turbidity	476	1999	2024	610
Turbidity	479	2001	2015	2001
Turbidity	513	2001	2024	1521
Turbidity	5002	1995	2024	4992

WQ Program names:

95 - Harmful Algal Bloom Marine Observation Network

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

479 - Southwest Florida Water Management District - Water Quality Monitoring

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

Water Temperature

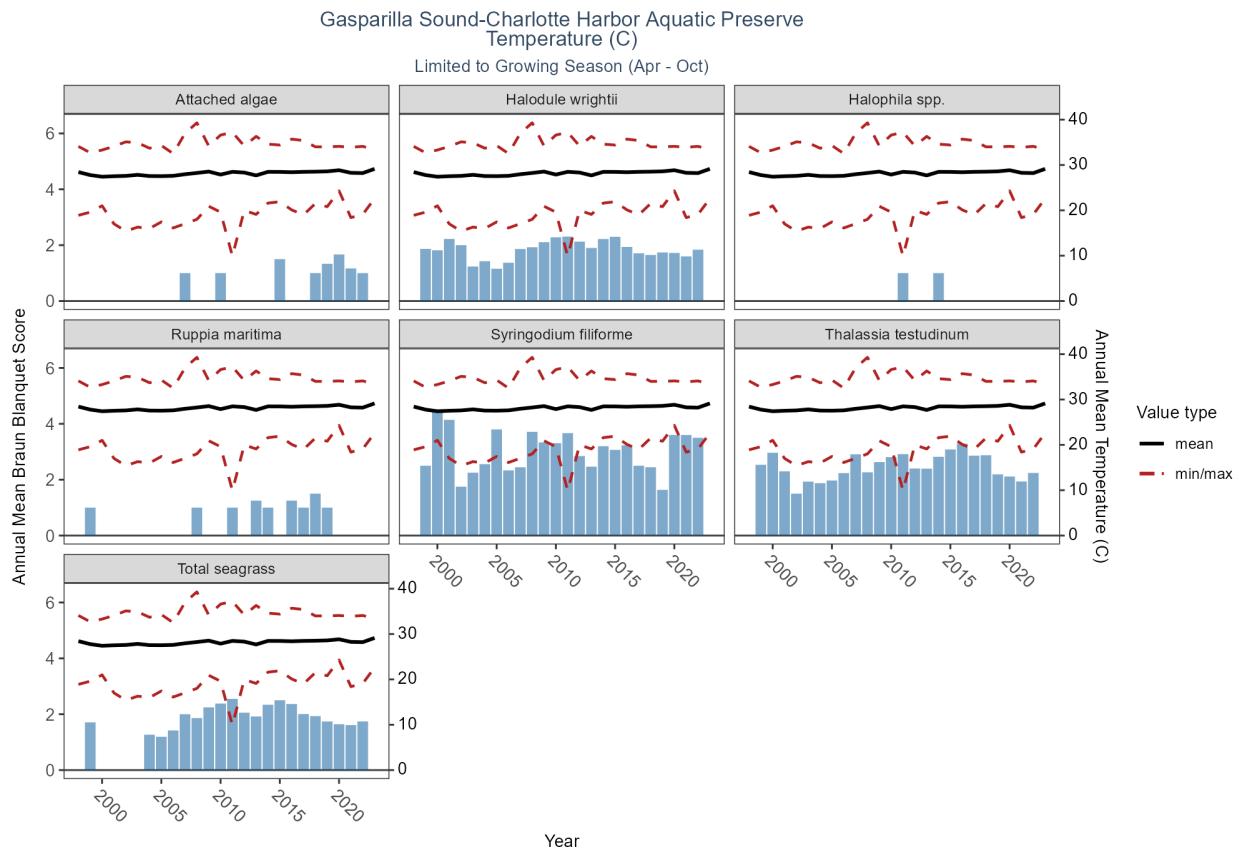


Table 280: WQ Summary for Water Temperature in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	1998	28.435	29.100	18.90	34.10	2.779
Temperature	1999	27.775	27.900	19.60	32.70	2.327
Temperature	2000	27.413	28.000	21.00	33.30	2.688
Temperature	2001	27.523	28.100	17.02	34.10	2.791
Temperature	2002	27.594	28.500	15.40	35.10	3.282
Temperature	2003	27.827	28.820	16.30	34.90	3.064
Temperature	2004	27.558	28.240	16.00	33.70	3.055
Temperature	2005	27.538	28.350	17.44	34.30	3.278
Temperature	2006	27.610	28.500	16.11	32.51	2.813
Temperature	2007	27.961	28.300	17.05	36.98	2.876
Temperature	2008	28.241	29.055	18.01	39.30	2.455
Temperature	2009	28.547	29.500	20.90	34.20	2.474
Temperature	2010	27.882	28.600	19.60	36.60	3.047
Temperature	2011	28.493	28.840	9.90	37.20	2.546
Temperature	2012	28.330	28.500	20.00	34.20	2.126
Temperature	2013	27.701	28.155	19.10	36.30	2.423
Temperature	2014	28.485	29.200	21.60	34.60	2.744
Temperature	2015	28.476	28.800	21.90	34.40	2.221
Temperature	2016	28.405	28.900	20.10	35.70	2.715

ParameterName	Year	mean	median	min	max	sd
Temperature	2017	28.488	28.600	19.00	35.40	2.401
Temperature	2018	28.526	29.000	21.50	34.00	2.309
Temperature	2019	28.593	28.900	20.80	34.00	1.984
Temperature	2020	28.844	28.800	24.30	34.10	1.957
Temperature	2021	28.273	28.700	18.40	33.90	2.238
Temperature	2022	28.213	28.900	19.10	34.10	2.844
Temperature	2023	29.141	29.600	22.60	33.40	2.707
Temperature	2024	25.861	25.400	23.20	29.24	2.235

Programs contributing WQ Data:

Table 281: Programs contributing WQ data for Water Temperature in Gasparilla Sound-Charlotte Harbor Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	1989	2022	22460
Temperature	95	1955	2018	411
Temperature	102	1992	1992	6
Temperature	103	2003	2021	44
Temperature	115	2000	2004	27
Temperature	118	2015	2020	24
Temperature	476	1997	2024	650
Temperature	479	2001	2015	7117
Temperature	513	2001	2024	3104
Temperature	5002	1993	2024	12440
Temperature	5028	2024	2024	1

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 102 - National Status and Trends Mussel Watch
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 479 - Southwest Florida Water Management District - Water Quality Monitoring
- 513 - Coastal Charlotte Harbor Monitoring Network
- 5002 - Florida STORET / WIN
- 5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

Indian River-Malabar to Vero Beach Aquatic Preserve

Programs contributing SAV Data:

Table 282: Programs contributing SAV data in Indian River-Malabar to Vero Beach Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Percent Cover	3013	1994	2023	123999
Percent Occurrence	3013	1994	2023	146527

SAV Program names:

3013 - Seagrass (SJRWMMD)

3013 - Seagrass (SJRWMMD)

Chlorophyll-a (corrected & uncorrected)

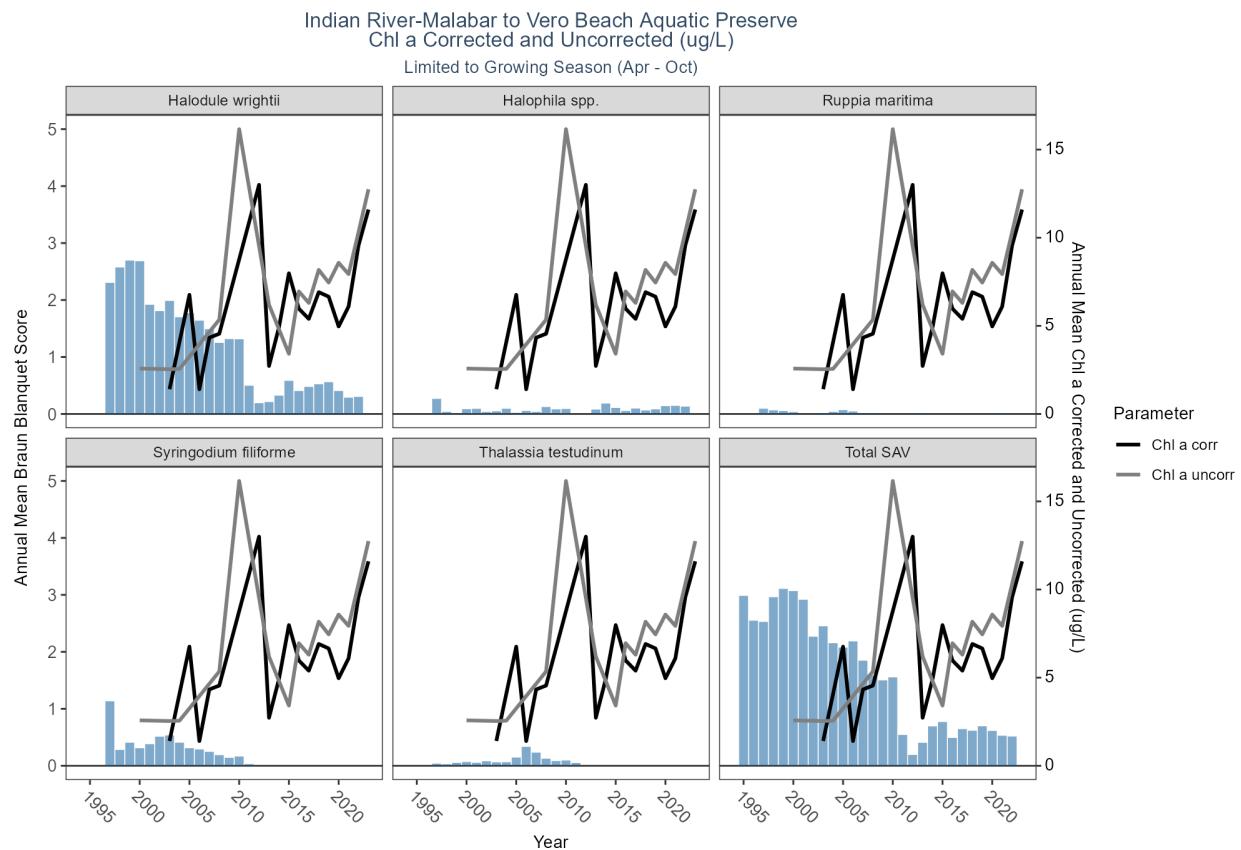


Table 283: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Indian River-Malabar to Vero Beach Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2003	1.406	1.310	0.640	2.610	0.744
Chl a corr	2005	6.760	5.120	2.850	13.800	3.905
Chl a corr	2006	1.400	1.400	1.400	1.400	NA

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2007	4.330	4.330	3.850	4.810	0.679
Chl a corr	2008	4.550	4.550	1.800	7.300	3.889
Chl a corr	2012	13.000	13.000	13.000	13.000	NA
Chl a corr	2013	2.723	2.700	0.940	5.300	1.178
Chl a corr	2014	4.917	2.500	0.550	23.000	5.441
Chl a corr	2015	7.982	5.600	1.500	32.000	7.582
Chl a corr	2016	5.974	6.000	1.700	14.000	2.998
Chl a corr	2017	5.396	4.400	1.200	15.000	3.992
Chl a corr	2018	6.911	5.650	1.800	17.000	3.817
Chl a corr	2019	6.655	6.350	3.400	12.000	2.685
Chl a corr	2020	4.965	3.725	1.388	14.000	3.251
Chl a corr	2021	6.096	4.085	1.175	43.000	5.811
Chl a corr	2022	9.570	6.381	1.148	54.000	9.411
Chl a corr	2023	11.600	4.806	1.300	152.671	25.087
Chl a corr	2024	5.550	5.550	1.800	9.300	5.303
Chl a uncorr	2000	2.576	2.576	2.576	2.576	NA
Chl a uncorr	2003	2.538	2.800	0.970	3.610	1.172
Chl a uncorr	2004	2.558	2.558	2.558	2.558	NA
Chl a uncorr	2008	5.350	5.350	2.500	8.200	4.031
Chl a uncorr	2010	16.160	16.160	16.160	16.160	NA
Chl a uncorr	2013	6.200	6.200	6.200	6.200	NA
Chl a uncorr	2015	3.414	3.400	2.700	4.100	0.567
Chl a uncorr	2016	6.955	6.750	2.000	17.000	3.762
Chl a uncorr	2017	6.300	5.350	1.300	17.000	4.565
Chl a uncorr	2018	8.175	6.950	2.000	20.000	4.637
Chl a uncorr	2019	7.455	7.150	3.700	13.000	2.943
Chl a uncorr	2020	8.579	5.940	2.002	57.889	8.819
Chl a uncorr	2021	7.934	6.891	1.535	44.000	6.372
Chl a uncorr	2022	10.322	7.154	1.119	56.000	9.734
Chl a uncorr	2023	12.748	5.444	1.300	157.040	25.964
Chl a uncorr	2024	6.000	6.000	2.000	10.000	5.657

Programs contributing WQ Data:

Table 284: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Indian River-Malabar to Vero Beach Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	103	2021	2021	15
Chl a corr	540	2016	2019	88
Chl a corr	5002	2003	2024	389
Chl a uncorr	103	2000	2021	8
Chl a uncorr	118	2010	2010	1
Chl a uncorr	540	2016	2019	90
Chl a uncorr	5002	2003	2024	292

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

540 - Shellfish Harvest Area Classification Program

Dissolved Oxygen

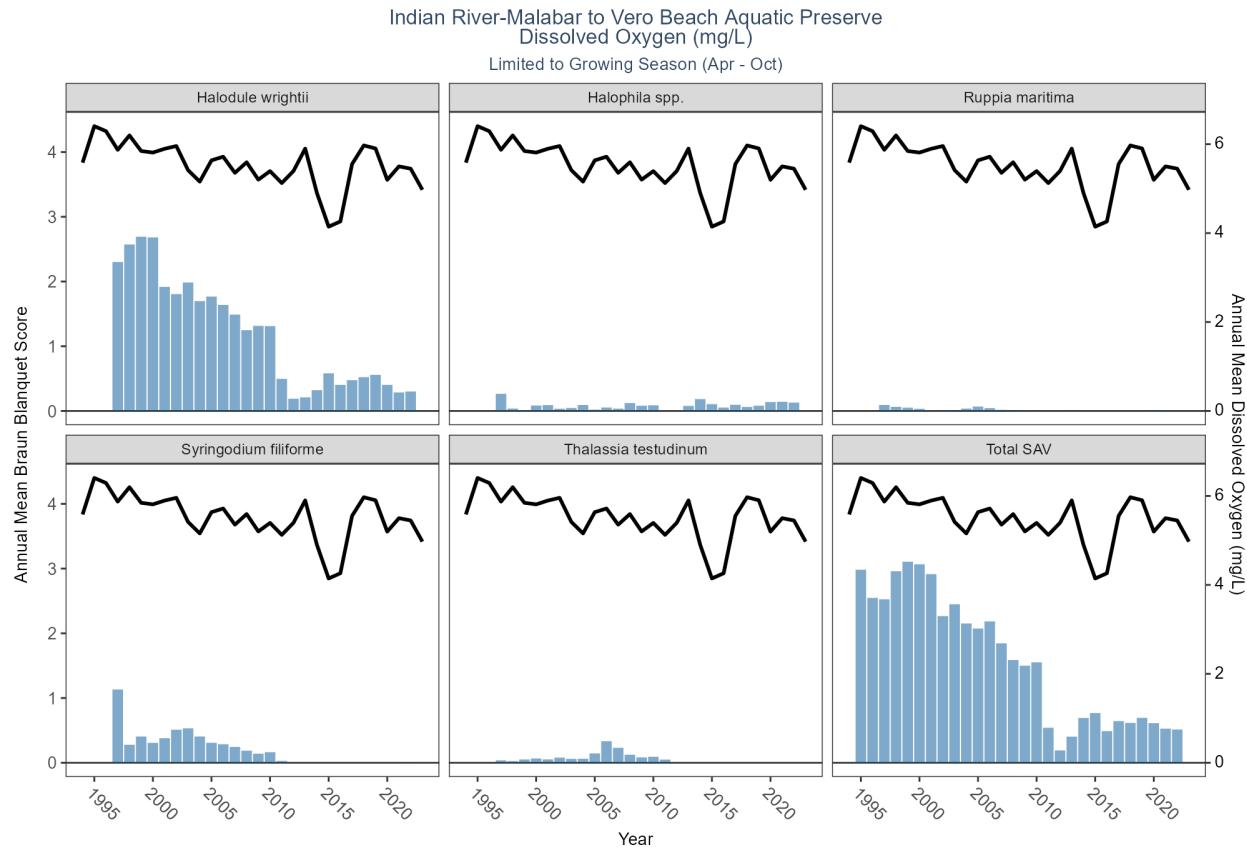


Table 285: WQ Summary for Dissolved Oxygen in Indian River-Malabar to Vero Beach Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	1994	5.584	5.700	0.50	9.90	1.901
Dissolved Oxygen	1995	6.405	6.200	2.20	12.00	1.985
Dissolved Oxygen	1996	6.292	6.400	1.50	10.30	1.342
Dissolved Oxygen	1997	5.873	6.000	1.80	14.00	1.600
Dissolved Oxygen	1998	6.197	6.020	0.90	17.50	1.628
Dissolved Oxygen	1999	5.846	5.900	0.30	14.70	1.446
Dissolved Oxygen	2000	5.811	5.900	0.90	11.70	1.370
Dissolved Oxygen	2001	5.896	5.900	1.20	15.30	1.743
Dissolved Oxygen	2002	5.958	5.800	1.00	13.40	1.560
Dissolved Oxygen	2003	5.417	5.400	0.10	11.50	1.609
Dissolved Oxygen	2004	5.157	5.200	0.11	13.20	1.913
Dissolved Oxygen	2005	5.636	5.640	0.13	13.20	1.515
Dissolved Oxygen	2006	5.718	5.790	0.09	12.40	1.639
Dissolved Oxygen	2007	5.355	5.400	0.09	12.90	1.716
Dissolved Oxygen	2008	5.593	5.500	0.10	11.90	1.887
Dissolved Oxygen	2009	5.202	5.200	0.06	11.60	1.671

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2010	5.394	5.500	0.07	13.90	1.896
Dissolved Oxygen	2011	5.125	5.140	0.03	12.70	1.650
Dissolved Oxygen	2012	5.397	5.600	0.90	10.60	1.722
Dissolved Oxygen	2013	5.900	5.800	0.20	12.30	1.465
Dissolved Oxygen	2014	4.901	5.500	0.11	10.70	2.560
Dissolved Oxygen	2015	4.144	4.950	0.15	12.30	2.866
Dissolved Oxygen	2016	4.262	5.015	0.04	11.40	2.756
Dissolved Oxygen	2017	5.553	5.700	0.48	11.30	2.313
Dissolved Oxygen	2018	5.971	6.000	0.30	13.30	1.579
Dissolved Oxygen	2019	5.903	5.800	0.60	19.20	1.817
Dissolved Oxygen	2020	5.198	5.400	0.20	11.80	1.716
Dissolved Oxygen	2021	5.500	5.690	0.20	12.90	1.973
Dissolved Oxygen	2022	5.449	5.600	0.45	11.70	1.713
Dissolved Oxygen	2023	4.974	5.060	0.47	10.00	1.549
Dissolved Oxygen	2024	6.068	6.120	4.11	7.92	2.017

Programs contributing WQ Data:

Table 286: Programs contributing WQ data for Dissolved Oxygen in Indian River-Malabar to Vero Beach Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	1991	2022	12339
Dissolved Oxygen	95	1996	2018	356
Dissolved Oxygen	103	2004	2021	31
Dissolved Oxygen	115	1994	1995	28
Dissolved Oxygen	118	2015	2021	11
Dissolved Oxygen	540	2016	2019	84
Dissolved Oxygen	3001	1992	2023	4456
Dissolved Oxygen	5002	1991	2024	21819

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 540 - Shellfish Harvest Area Classification Program
- 3001 - Lagoon Watch (Formerly Marine Discovery Center)
- 5002 - Florida STORET / WIN

Dissolved Oxygen Saturation

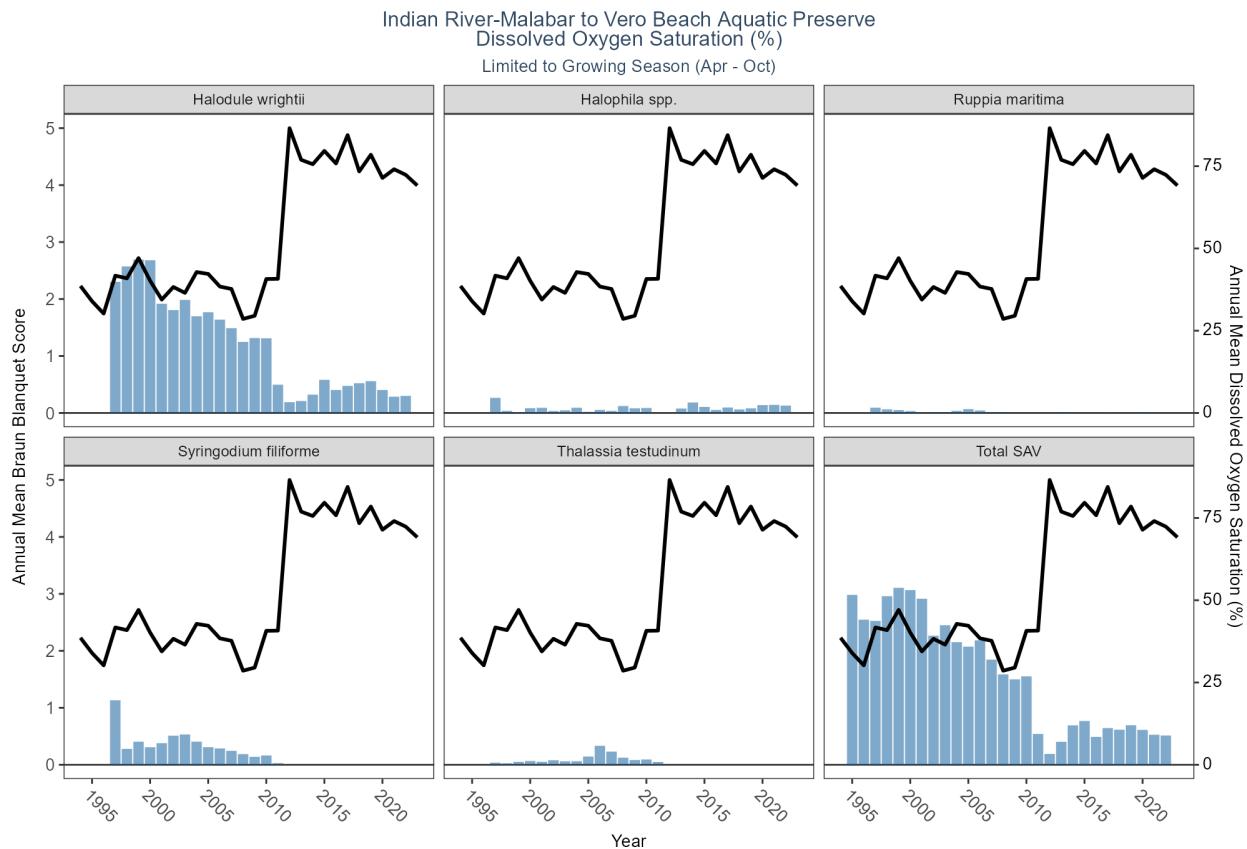


Table 287: WQ Summary for Dissolved Oxygen Saturation in Indian River-Malabar to Vero Beach Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	1994	38.596	1.375	0.075	153.000	43.929
Dissolved Oxygen Saturation	1995	33.952	0.983	0.309	133.000	42.556
Dissolved Oxygen Saturation	1996	30.210	0.932	0.201	144.000	39.894
Dissolved Oxygen Saturation	1997	41.731	38.000	0.258	148.000	42.396
Dissolved Oxygen Saturation	1998	40.919	43.500	0.376	130.000	39.119
Dissolved Oxygen Saturation	1999	47.065	55.000	0.325	118.000	43.430
Dissolved Oxygen Saturation	2000	40.170	50.000	0.367	115.000	36.752
Dissolved Oxygen Saturation	2001	34.453	1.031	0.228	184.000	41.875
Dissolved Oxygen Saturation	2002	38.282	1.174	0.368	203.000	44.883
Dissolved Oxygen Saturation	2003	36.501	1.098	0.283	141.000	40.218
Dissolved Oxygen Saturation	2004	42.819	47.000	0.296	140.000	36.805
Dissolved Oxygen Saturation	2005	42.256	44.950	0.257	146.300	42.518
Dissolved Oxygen Saturation	2006	38.422	12.900	0.105	125.700	39.526
Dissolved Oxygen Saturation	2007	37.686	1.126	0.408	124.580	45.106
Dissolved Oxygen Saturation	2008	28.581	0.847	0.248	108.262	37.293
Dissolved Oxygen Saturation	2009	29.534	0.877	0.464	119.934	37.434
Dissolved Oxygen Saturation	2010	40.711	1.359	0.381	173.046	44.682
Dissolved Oxygen Saturation	2011	40.766	1.257	0.313	152.887	47.367
Dissolved Oxygen Saturation	2012	86.563	85.225	21.700	140.980	23.124

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2013	76.937	79.000	4.300	153.650	24.266
Dissolved Oxygen Saturation	2014	75.605	78.000	1.500	130.800	31.072
Dissolved Oxygen Saturation	2015	79.645	81.400	2.800	136.300	25.438
Dissolved Oxygen Saturation	2016	75.829	79.750	3.000	151.300	22.515
Dissolved Oxygen Saturation	2017	84.441	84.000	12.000	176.370	28.770
Dissolved Oxygen Saturation	2018	73.403	74.670	32.390	108.300	14.027
Dissolved Oxygen Saturation	2019	78.480	72.960	16.300	226.410	28.915
Dissolved Oxygen Saturation	2020	71.427	75.350	5.800	123.700	22.424
Dissolved Oxygen Saturation	2021	74.068	75.800	5.400	157.700	28.435
Dissolved Oxygen Saturation	2022	72.376	76.000	6.400	147.000	25.062
Dissolved Oxygen Saturation	2023	69.128	71.000	7.000	158.700	22.772
Dissolved Oxygen Saturation	2024	77.125	76.600	63.100	92.200	15.834

Programs contributing WQ Data:

Table 288: Programs contributing WQ data for Dissolved Oxygen Saturation in Indian River-Malabar to Vero Beach Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	95	2017	2017	1
Dissolved Oxygen Saturation	3001	1991	2023	4434
Dissolved Oxygen Saturation	5002	1991	2024	4280

WQ Program names:

95 - Harmful Algal Bloom Marine Observation Network

3001 - Lagoon Watch (Formerly Marine Discovery Center)

5002 - Florida STORET / WIN

pH

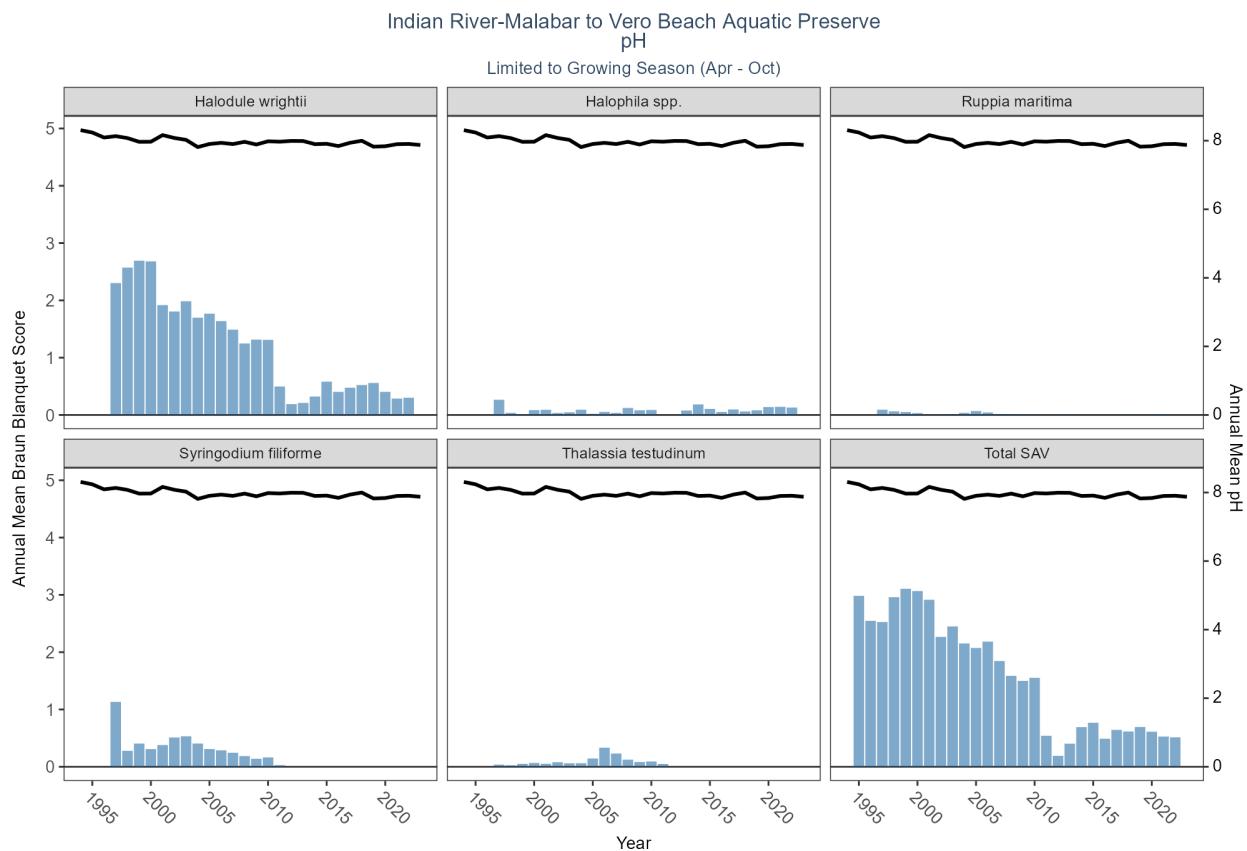


Table 289: WQ Summary for pH in Indian River-Malabar to Vero Beach Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	1994	8.308	8.400	7.60	8.700	0.256
pH	1995	8.239	8.300	6.70	8.800	0.300
pH	1996	8.092	8.100	5.10	8.600	0.254
pH	1997	8.133	8.200	5.60	9.000	0.287
pH	1998	8.077	8.100	3.60	8.600	0.338
pH	1999	7.968	8.000	6.70	8.800	0.276
pH	2000	7.970	7.900	6.80	8.800	0.363
pH	2001	8.164	8.200	4.91	9.160	0.362
pH	2002	8.080	8.000	6.94	9.590	0.363
pH	2003	8.025	8.000	7.10	9.560	0.359
pH	2004	7.814	7.900	6.60	9.390	0.491
pH	2005	7.904	8.000	6.50	9.000	0.378
pH	2006	7.938	8.000	6.50	9.000	0.286
pH	2007	7.903	7.960	6.70	8.600	0.343
pH	2008	7.968	8.020	6.50	8.800	0.345
pH	2009	7.889	7.915	4.60	8.900	0.332
pH	2010	7.984	8.000	6.00	8.700	0.295
pH	2011	7.972	8.000	6.70	8.700	0.285
pH	2012	7.994	8.021	6.90	8.600	0.253

ParameterName	Year	mean	median	min	max	sd
pH	2013	7.991	8.100	6.90	8.600	0.264
pH	2014	7.900	7.987	7.00	8.800	0.289
pH	2015	7.910	8.000	6.70	8.600	0.279
pH	2016	7.844	7.900	6.50	8.616	0.308
pH	2017	7.940	8.000	6.90	8.700	0.307
pH	2018	7.999	8.000	7.00	8.790	0.260
pH	2019	7.826	7.900	6.90	8.400	0.254
pH	2020	7.839	7.900	6.80	8.500	0.329
pH	2021	7.899	7.970	6.90	8.640	0.283
pH	2022	7.906	8.000	6.60	8.640	0.345
pH	2023	7.875	7.910	6.60	9.000	0.379
pH	2024	7.545	7.705	6.95	7.820	0.405

Programs contributing WQ Data:

Table 290: Programs contributing WQ data for pH in Indian River-Malabar to Vero Beach Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	1991	2022	12341
pH	95	2007	2018	330
pH	103	2004	2021	30
pH	115	1994	1995	22
pH	118	2015	2021	6
pH	540	2016	2019	89
pH	3001	1992	2023	4181
pH	5002	1995	2024	16064

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 540 - Shellfish Harvest Area Classification Program
- 3001 - Lagoon Watch (Formerly Marine Discovery Center)
- 5002 - Florida STORET / WIN

Salinity

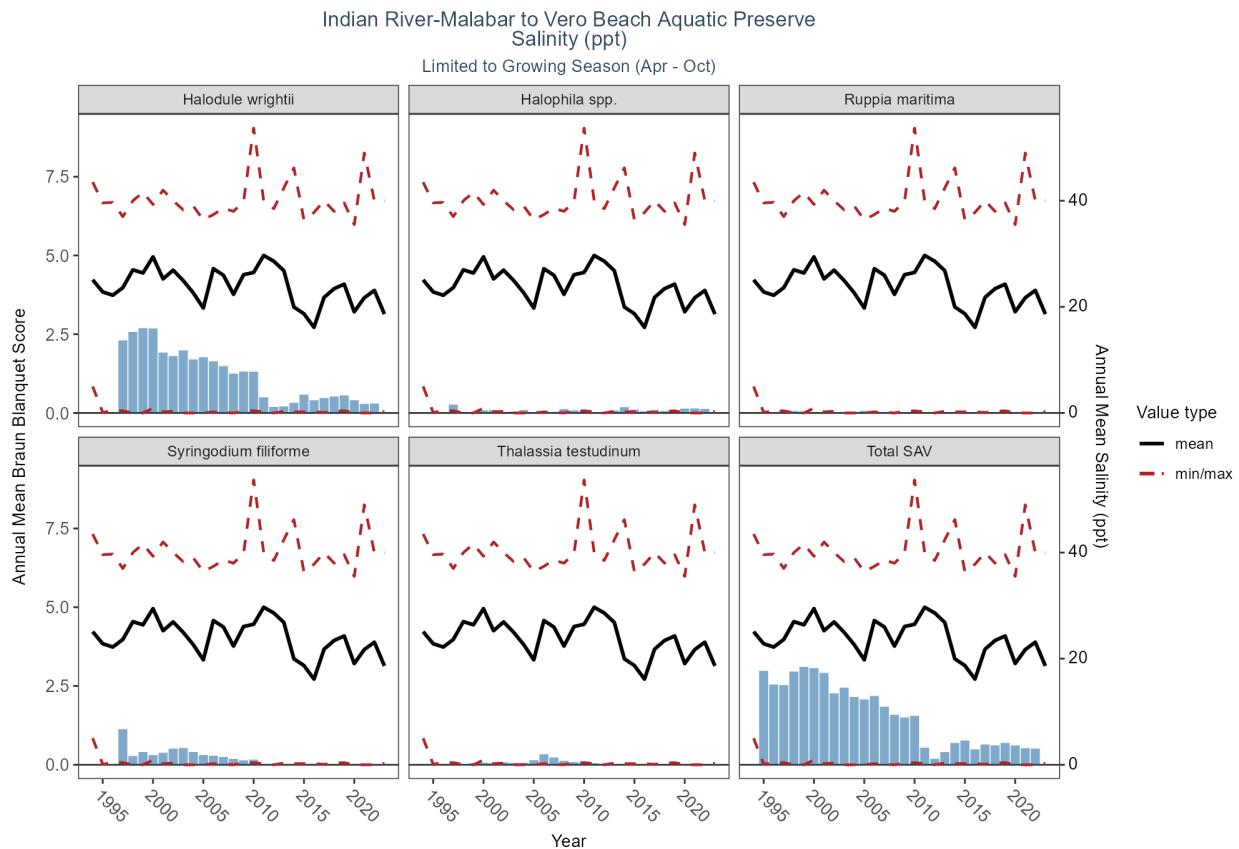


Table 291: WQ Summary for Salinity in Indian River-Malabar to Vero Beach Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	1994	25.097	23.300	5.00	43.50	8.661
Salinity	1995	22.814	23.100	0.10	39.60	11.828
Salinity	1996	22.190	22.200	0.40	39.70	8.405
Salinity	1997	23.621	25.100	0.40	37.00	7.833
Salinity	1998	26.981	29.000	0.00	40.00	7.402
Salinity	1999	26.384	29.000	0.00	41.60	8.649
Salinity	2000	29.426	31.100	0.90	39.30	6.048
Salinity	2001	25.270	27.905	0.20	42.00	9.255
Salinity	2002	26.924	29.200	0.30	40.00	8.724
Salinity	2003	24.960	27.000	0.00	38.30	8.387
Salinity	2004	22.640	25.800	0.00	39.00	11.609
Salinity	2005	19.782	21.710	0.00	36.40	9.833
Salinity	2006	27.193	30.000	0.20	37.40	8.519
Salinity	2007	25.959	29.700	0.10	38.60	10.545
Salinity	2008	22.365	27.200	0.00	38.00	11.885
Salinity	2009	26.055	28.660	0.30	39.88	9.752
Salinity	2010	26.487	30.350	0.40	53.69	9.286
Salinity	2011	29.694	32.100	0.20	40.00	8.480
Salinity	2012	28.611	30.910	0.00	38.50	8.057

ParameterName	Year	mean	median	min	max	sd
Salinity	2013	26.835	29.600	0.30	42.40	8.753
Salinity	2014	19.970	24.400	0.20	46.20	12.983
Salinity	2015	18.699	22.600	0.20	36.40	13.002
Salinity	2016	16.143	17.600	0.20	37.80	12.454
Salinity	2017	21.781	24.600	0.08	40.00	11.426
Salinity	2018	23.429	25.900	0.30	38.00	9.893
Salinity	2019	24.278	28.100	0.40	39.60	9.850
Salinity	2020	19.076	22.400	0.00	35.50	11.152
Salinity	2021	21.719	25.200	0.00	49.00	11.228
Salinity	2022	23.102	26.800	0.00	40.00	11.828
Salinity	2023	18.633	20.890	0.27	40.00	11.486
Salinity	2024	9.520	4.420	0.85	28.39	13.006

Programs contributing WQ Data:

Table 292: Programs contributing WQ data for Salinity in Indian River-Malabar to Vero Beach Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	1991	2022	12383
Salinity	95	1996	2018	377
Salinity	103	2004	2004	2
Salinity	115	1994	1995	25
Salinity	118	2015	2021	10
Salinity	540	2016	2019	92
Salinity	3001	1992	2023	4432
Salinity	5002	1991	2024	23671

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrievAl Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 540 - Shellfish Harvest Area Classification Program
- 3001 - Lagoon Watch (Formerly Marine Discovery Center)
- 5002 - Florida STORET / WIN

Secchi Depth

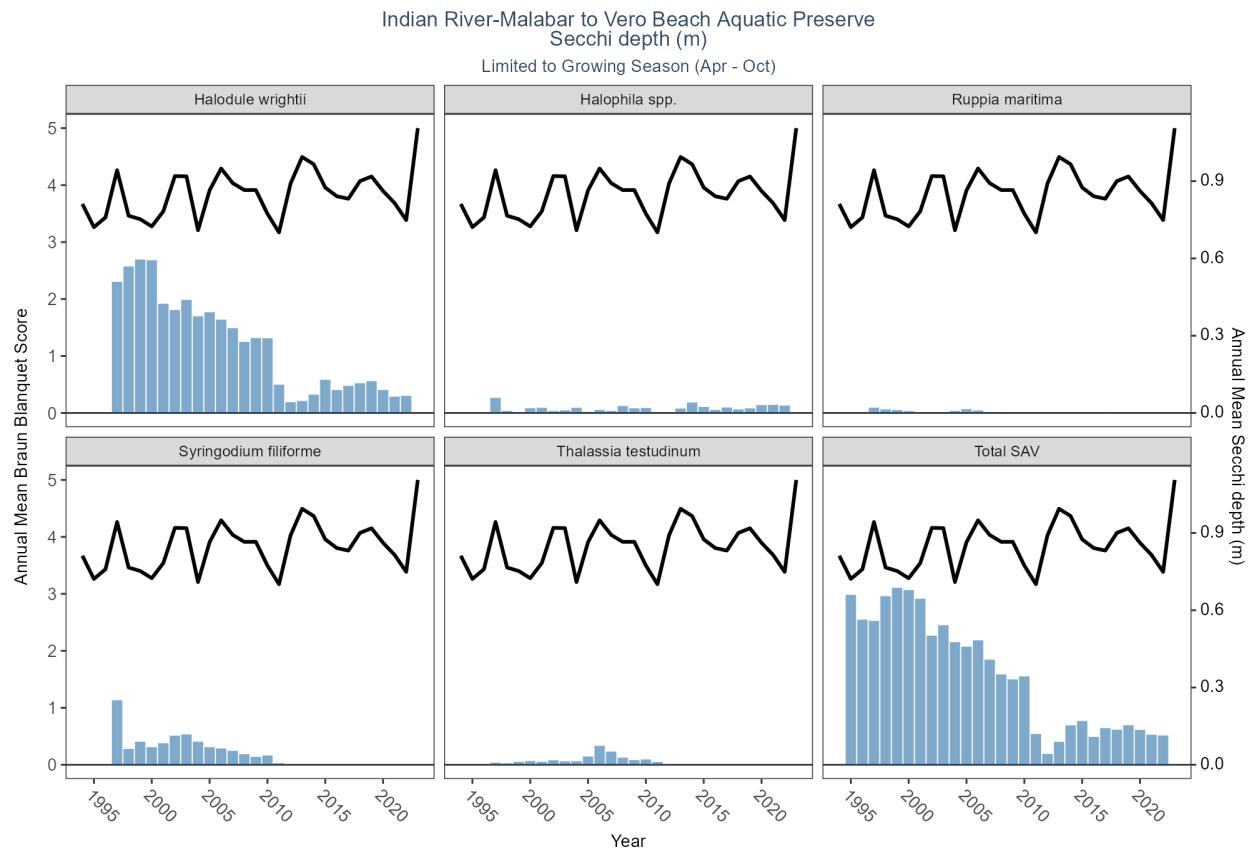


Table 293: WQ Summary for Secchi Depth in Indian River-Malabar to Vero Beach Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	1994	0.812	0.80	0.400	1.40	0.205
Secchi depth	1995	0.722	0.70	0.200	1.50	0.245
Secchi depth	1996	0.759	0.70	0.100	1.90	0.290
Secchi depth	1997	0.943	0.90	0.050	1.80	0.312
Secchi depth	1998	0.766	0.80	0.200	1.70	0.300
Secchi depth	1999	0.752	0.70	0.200	1.80	0.364
Secchi depth	2000	0.724	0.70	0.200	2.00	0.290
Secchi depth	2001	0.783	0.70	0.080	6.00	0.447
Secchi depth	2002	0.920	0.90	0.100	2.30	0.420
Secchi depth	2003	0.919	0.90	0.200	2.30	0.426
Secchi depth	2004	0.710	0.60	0.100	2.10	0.383
Secchi depth	2005	0.865	0.80	0.200	2.10	0.375
Secchi depth	2006	0.949	0.90	0.200	2.30	0.427
Secchi depth	2007	0.893	0.80	0.100	2.60	0.419
Secchi depth	2008	0.866	0.70	0.100	2.40	0.470
Secchi depth	2009	0.866	0.80	0.100	2.70	0.404
Secchi depth	2010	0.774	0.70	0.100	2.30	0.321
Secchi depth	2011	0.701	0.60	0.200	1.70	0.275
Secchi depth	2012	0.891	0.80	0.200	2.40	0.400

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2013	0.994	0.90	0.100	2.40	0.442
Secchi depth	2014	0.966	0.90	0.200	2.30	0.461
Secchi depth	2015	0.875	0.80	0.200	2.20	0.428
Secchi depth	2016	0.841	0.80	0.008	2.10	0.404
Secchi depth	2017	0.832	0.80	0.040	2.00	0.375
Secchi depth	2018	0.900	0.90	0.030	2.40	0.387
Secchi depth	2019	0.918	0.90	0.100	5.00	0.424
Secchi depth	2020	0.862	0.80	0.100	2.70	0.367
Secchi depth	2021	0.815	0.80	0.050	3.00	0.307
Secchi depth	2022	0.749	0.70	0.200	2.01	0.298
Secchi depth	2023	1.106	1.00	0.200	7.00	0.628
Secchi depth	2024	0.650	0.75	0.400	0.80	0.218

Programs contributing WQ Data:

Table 294: Programs contributing WQ data for Secchi Depth in Indian River-Malabar to Vero Beach Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	1995	2022	12293
Secchi depth	103	2021	2021	66
Secchi depth	118	2015	2021	2
Secchi depth	3001	1992	2023	2944
Secchi depth	5002	2005	2024	1708

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

3001 - Lagoon Watch (Formerly Marine Discovery Center)

5002 - Florida STORET / WIN

Total Nitrogen & Total Phosphorus

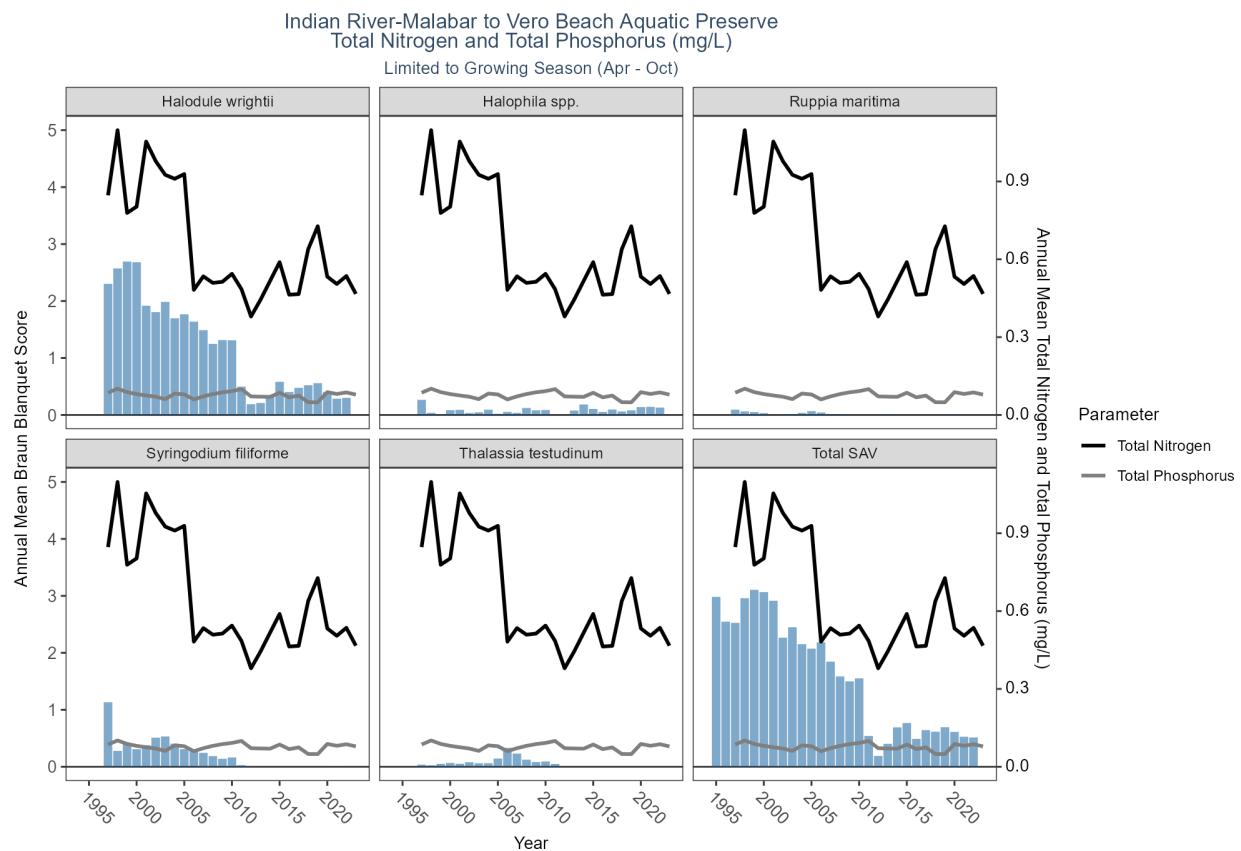


Table 295: WQ Summary for Total Nitrogen & Total Phosphorus in Indian River-Malabar to Vero Beach Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	1997	0.847	0.832	0.549	1.121	0.172
Total Nitrogen	1998	1.098	0.993	-0.010	2.770	0.408
Total Nitrogen	1999	0.779	0.741	0.423	1.680	0.234
Total Nitrogen	2000	0.803	0.728	0.058	1.813	0.309
Total Nitrogen	2001	1.054	0.942	0.342	2.110	0.377
Total Nitrogen	2002	0.978	0.941	0.428	1.494	0.211
Total Nitrogen	2003	0.926	0.901	0.398	1.710	0.213
Total Nitrogen	2004	0.910	0.768	0.074	2.290	0.417
Total Nitrogen	2005	0.929	0.925	0.273	1.872	0.332
Total Nitrogen	2006	0.482	0.469	0.059	1.581	0.256
Total Nitrogen	2007	0.534	0.420	0.185	1.555	0.337
Total Nitrogen	2008	0.509	0.452	0.115	1.634	0.302
Total Nitrogen	2009	0.513	0.460	0.169	1.127	0.272
Total Nitrogen	2010	0.544	0.505	0.177	1.258	0.206
Total Nitrogen	2011	0.485	0.433	0.118	1.627	0.246
Total Nitrogen	2012	0.380	0.362	0.136	0.781	0.162
Total Nitrogen	2013	0.444	0.416	0.087	1.269	0.194
Total Nitrogen	2014	0.517	0.454	0.128	1.563	0.294
Total Nitrogen	2015	0.589	0.604	0.146	1.440	0.220

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2016	0.463	0.434	0.033	1.022	0.233
Total Nitrogen	2017	0.466	0.401	0.200	0.944	0.188
Total Nitrogen	2018	0.639	0.594	0.324	1.106	0.206
Total Nitrogen	2019	0.727	0.742	0.334	1.207	0.231
Total Nitrogen	2020	0.533	0.491	0.156	1.139	0.219
Total Nitrogen	2021	0.505	0.417	0.158	1.561	0.246
Total Nitrogen	2022	0.536	0.463	0.176	1.510	0.285
Total Nitrogen	2023	0.467	0.396	0.078	1.053	0.216
Total Nitrogen	2024	0.707	0.707	0.657	0.756	0.070
Total Phosphorus	1997	0.086	0.083	-0.005	0.152	0.035
Total Phosphorus	1998	0.101	0.091	0.001	0.308	0.056
Total Phosphorus	1999	0.088	0.086	0.011	0.246	0.043
Total Phosphorus	2000	0.081	0.078	0.002	0.201	0.041
Total Phosphorus	2001	0.075	0.065	0.009	0.334	0.051
Total Phosphorus	2002	0.070	0.057	0.002	0.315	0.054
Total Phosphorus	2003	0.061	0.054	0.003	0.208	0.044
Total Phosphorus	2004	0.082	0.060	0.006	0.731	0.079
Total Phosphorus	2005	0.079	0.062	0.007	0.330	0.057
Total Phosphorus	2006	0.060	0.048	0.004	0.232	0.042
Total Phosphorus	2007	0.072	0.042	0.004	0.414	0.077
Total Phosphorus	2008	0.081	0.059	0.005	0.432	0.077
Total Phosphorus	2009	0.087	0.060	0.007	0.504	0.082
Total Phosphorus	2010	0.092	0.089	0.003	0.234	0.043
Total Phosphorus	2011	0.100	0.087	0.013	0.642	0.076
Total Phosphorus	2012	0.072	0.062	0.017	0.191	0.035
Total Phosphorus	2013	0.071	0.067	0.017	0.380	0.041
Total Phosphorus	2014	0.070	0.052	0.006	0.365	0.057
Total Phosphorus	2015	0.086	0.068	0.020	0.870	0.073
Total Phosphorus	2016	0.068	0.062	0.012	0.250	0.033
Total Phosphorus	2017	0.075	0.072	0.011	0.152	0.032
Total Phosphorus	2018	0.049	0.046	0.018	0.100	0.018
Total Phosphorus	2019	0.049	0.046	0.026	0.081	0.013
Total Phosphorus	2020	0.088	0.073	0.010	0.310	0.060
Total Phosphorus	2021	0.081	0.068	0.010	0.450	0.060
Total Phosphorus	2022	0.087	0.075	0.010	0.330	0.059
Total Phosphorus	2023	0.079	0.069	0.012	0.220	0.044
Total Phosphorus	2024	0.056	0.056	0.040	0.072	0.023

Programs contributing WQ Data:

Table 296: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Indian River-Malabar to Vero Beach Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	103	2000	2004	4
Total Nitrogen	118	2010	2010	1
Total Nitrogen	540	2016	2019	89
Total Nitrogen	5002	1997	2024	1942
Total Phosphorus	103	2021	2021	33
Total Phosphorus	118	2010	2010	1

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Phosphorus	540	2016	2019	83
Total Phosphorus	5002	1997	2024	3955

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

540 - Shellfish Harvest Area Classification Program

5002 - Florida STORET / WIN

Total Susepended Solids

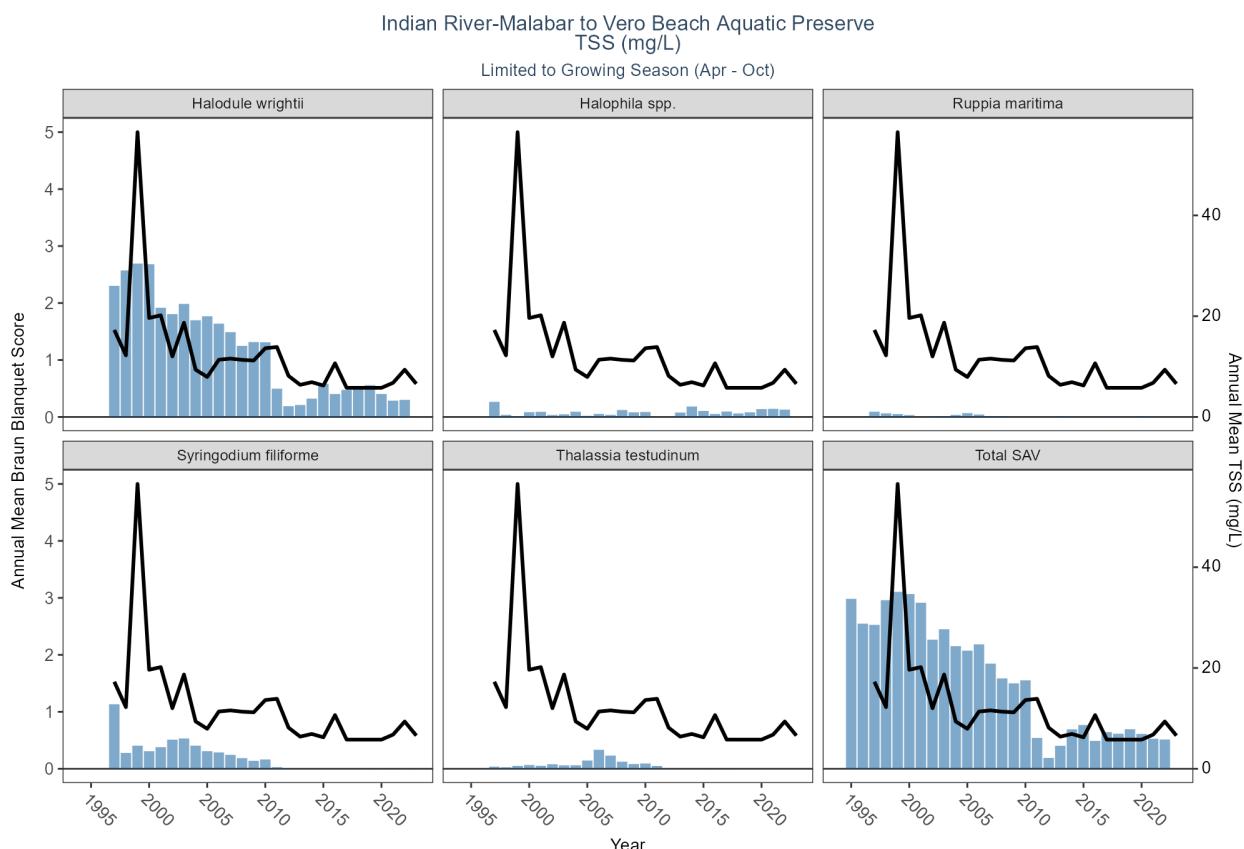


Table 297: WQ Summary for Total Susepended Solids in Indian River-Malabar to Vero Beach Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	1997	17.268	13.900	2.0	54.0	12.435
TSS	1998	12.225	8.800	0.0	81.6	10.955
TSS	1999	56.522	56.000	5.0	129.0	23.854
TSS	2000	19.642	20.000	5.0	56.0	9.605
TSS	2001	20.173	14.700	5.0	66.0	13.775
TSS	2002	12.015	7.500	-1.0	68.0	12.324
TSS	2003	18.705	19.500	1.0	45.0	9.918

ParameterName	Year	mean	median	min	max	sd
TSS	2004	9.395	8.000	2.0	40.0	5.303
TSS	2005	7.933	7.000	1.0	38.7	5.529
TSS	2006	11.359	9.000	1.0	54.0	7.819
TSS	2007	11.580	9.400	2.4	59.0	8.436
TSS	2008	11.329	11.100	2.0	37.3	5.381
TSS	2009	11.202	10.500	2.4	39.0	6.669
TSS	2010	13.636	9.600	3.0	71.4	11.803
TSS	2011	13.883	11.600	1.8	59.8	9.499
TSS	2012	8.157	5.200	1.4	37.6	6.735
TSS	2013	6.378	4.750	1.8	24.0	4.769
TSS	2014	6.904	3.750	1.1	36.9	7.320
TSS	2015	6.246	4.600	1.2	34.7	5.825
TSS	2016	10.651	5.850	1.2	53.0	9.878
TSS	2017	5.787	4.800	2.8	12.0	2.721
TSS	2020	5.784	4.100	2.0	26.7	4.632
TSS	2021	6.780	6.200	2.0	15.0	3.451
TSS	2022	9.377	6.800	2.0	34.0	7.378
TSS	2023	6.575	4.125	2.0	31.0	6.468
TSS	2024	6.000	6.000	3.0	9.0	4.243

Programs contributing WQ Data:

Table 298: Programs contributing WQ data for Total Susepended Solids in Indian River-Malabar to Vero Beach Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	103	2021	2021	18
TSS	5002	1997	2024	2094

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

5002 - Florida STORET / WIN

Turbidity

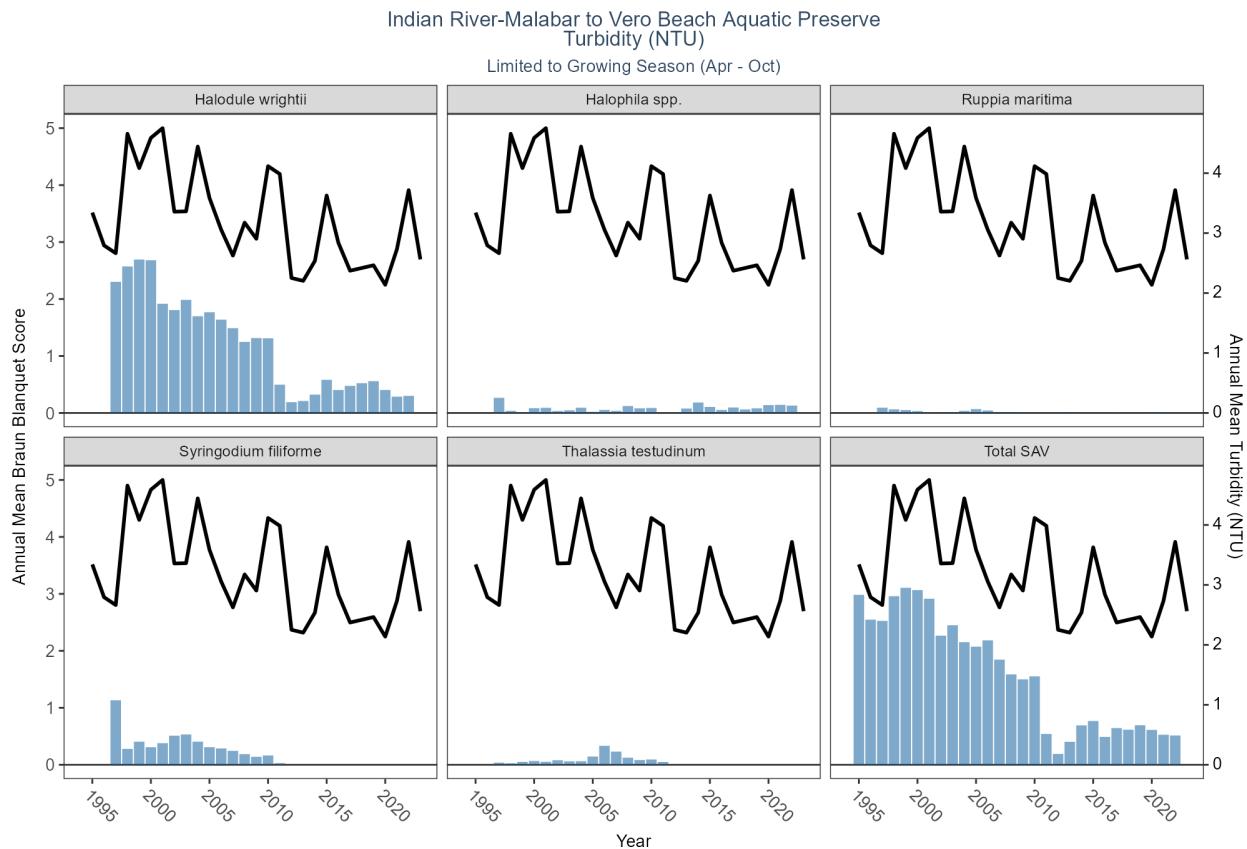


Table 299: WQ Summary for Turbidity in Indian River-Malabar to Vero Beach Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	1995	3.342	3.000	0.170	18.000	1.873
Turbidity	1996	2.795	2.400	0.470	12.000	1.597
Turbidity	1997	2.665	1.800	0.620	26.000	2.310
Turbidity	1998	4.657	3.300	0.110	39.900	5.106
Turbidity	1999	4.084	3.000	0.900	21.000	3.084
Turbidity	2000	4.588	3.200	0.510	43.000	5.741
Turbidity	2001	4.751	4.000	0.350	21.000	3.143
Turbidity	2002	3.357	2.900	0.560	16.000	1.900
Turbidity	2003	3.363	2.800	0.600	23.000	2.264
Turbidity	2004	4.444	3.400	0.500	73.600	5.511
Turbidity	2005	3.586	2.900	0.300	27.000	3.156
Turbidity	2006	3.057	2.600	0.700	16.100	1.835
Turbidity	2007	2.625	2.400	0.200	8.010	1.243
Turbidity	2008	3.175	2.600	0.400	36.600	3.004
Turbidity	2009	2.906	2.400	0.600	37.300	2.795
Turbidity	2010	4.117	3.600	1.000	15.600	2.318
Turbidity	2011	3.986	3.540	1.400	13.424	1.972
Turbidity	2012	2.251	1.500	0.500	10.494	2.045
Turbidity	2013	2.204	1.953	0.137	7.610	1.548

ParameterName	Year	mean	median	min	max	sd
Turbidity	2014	2.538	2.085	0.471	9.680	1.967
Turbidity	2015	3.627	3.324	0.659	13.845	1.991
Turbidity	2016	2.839	2.082	0.100	26.000	3.058
Turbidity	2017	2.373	2.096	0.615	4.979	1.072
Turbidity	2019	2.463	2.300	0.850	5.900	1.206
Turbidity	2020	2.138	1.671	0.500	10.114	1.569
Turbidity	2021	2.734	2.262	0.500	9.090	1.685
Turbidity	2022	3.717	2.900	1.444	8.946	1.931
Turbidity	2023	2.562	2.099	0.500	10.192	1.759
Turbidity	2024	3.650	3.650	2.700	4.600	1.344

Programs contributing WQ Data:

Table 300: Programs contributing WQ data for Turbidity in Indian River-Malabar to Vero Beach Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	103	2021	2021	18
Turbidity	540	2019	2019	15
Turbidity	5002	1995	2024	10166

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

540 - Shellfish Harvest Area Classification Program

5002 - Florida STORET / WIN

Water Temperature

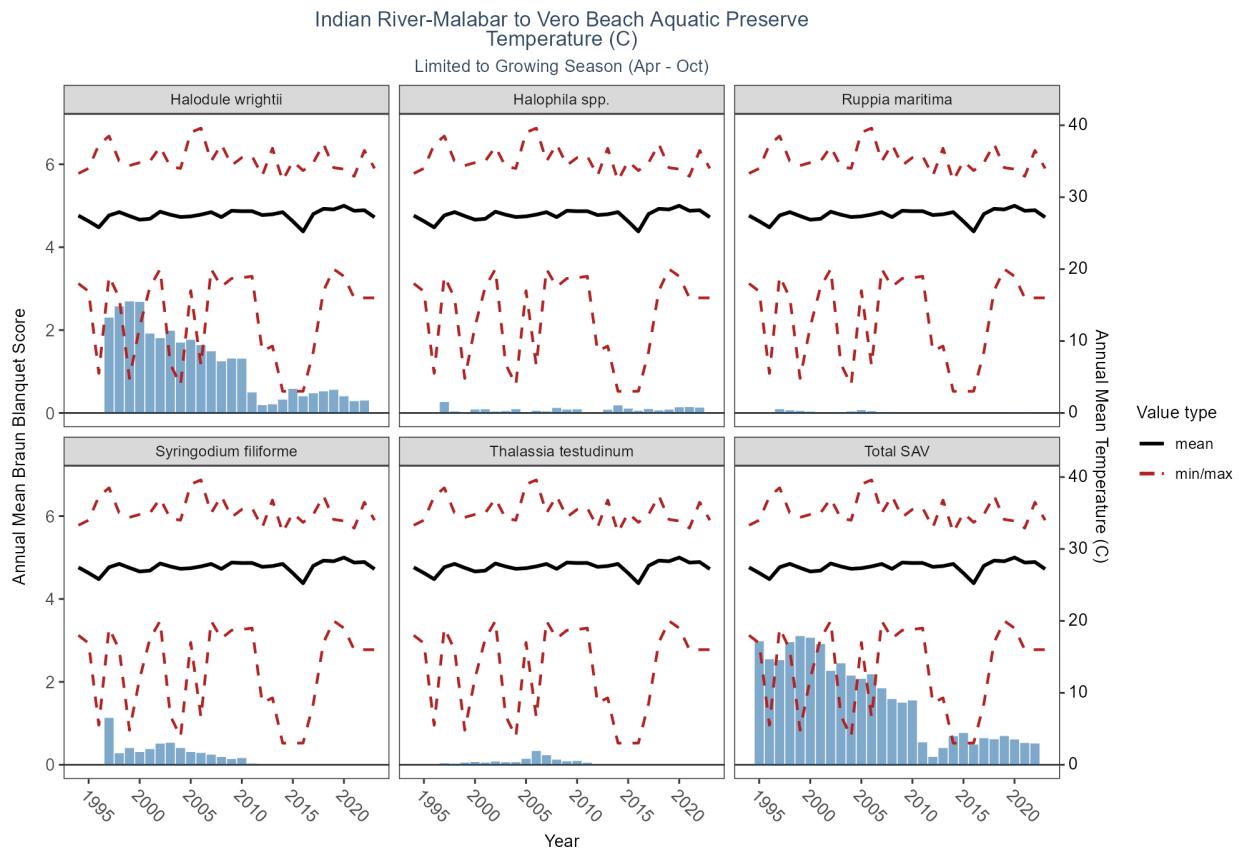


Table 301: WQ Summary for Water Temperature in Indian River-Malabar to Vero Beach Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	1994	27.444	27.500	18.00	33.30	2.559
Temperature	1995	26.661	27.000	16.90	34.00	3.539
Temperature	1996	25.807	27.200	5.50	37.30	4.640
Temperature	1997	27.465	27.900	19.00	38.50	2.652
Temperature	1998	27.929	28.700	16.00	35.00	2.980
Temperature	1999	27.379	27.900	4.80	34.40	2.726
Temperature	2000	26.872	28.000	12.00	34.80	3.188
Temperature	2001	26.990	27.300	17.50	35.00	2.951
Temperature	2002	27.986	28.000	20.00	37.00	2.148
Temperature	2003	27.569	28.000	6.80	34.26	2.373
Temperature	2004	27.245	27.800	3.90	34.00	3.058
Temperature	2005	27.329	27.840	17.00	39.00	3.393
Temperature	2006	27.577	28.000	6.60	39.60	2.880
Temperature	2007	27.916	28.200	20.00	35.00	2.653
Temperature	2008	27.232	27.950	17.56	37.36	2.819
Temperature	2009	28.115	29.000	18.70	34.43	2.756
Temperature	2010	28.050	28.705	18.80	35.50	3.290
Temperature	2011	28.057	28.395	19.00	35.70	2.467
Temperature	2012	27.518	27.975	8.60	32.99	2.413

ParameterName	Year	mean	median	min	max	sd
Temperature	2013	27.625	27.600	9.30	36.80	2.394
Temperature	2014	27.922	28.200	3.01	32.30	2.947
Temperature	2015	26.639	28.500	3.01	35.00	7.061
Temperature	2016	25.238	28.100	3.02	33.70	8.587
Temperature	2017	27.660	28.200	8.50	34.80	3.035
Temperature	2018	28.385	28.700	17.00	37.40	2.539
Temperature	2019	28.296	28.300	20.00	34.10	2.648
Temperature	2020	28.810	29.000	19.00	33.90	2.501
Temperature	2021	28.111	28.500	16.00	32.90	2.689
Temperature	2022	28.185	28.828	16.00	36.50	3.197
Temperature	2023	27.210	27.500	16.00	34.00	2.967
Temperature	2024	26.725	26.450	22.80	31.20	4.554

Programs contributing WQ Data:

Table 302: Programs contributing WQ data for Water Temperature in Indian River-Malabar to Vero Beach Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	1991	2022	12383
Temperature	95	1996	2018	371
Temperature	103	2004	2021	30
Temperature	115	1994	1995	25
Temperature	118	2015	2021	5
Temperature	540	2016	2019	92
Temperature	3001	1992	2023	4443
Temperature	5002	1991	2024	23308

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 540 - Shellfish Harvest Area Classification Program
- 3001 - Lagoon Watch (Formerly Marine Discovery Center)
- 5002 - Florida STORET / WIN

Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

Programs contributing SAV Data:

Table 303: Programs contributing SAV data in Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Percent Cover	3013	1994	2023	49427
Percent Occurrence	3013	1994	2023	58571

SAV Program names:

3013 - Seagrass (SJRWMMD)

3013 - Seagrass (SJRWMMD)

Chlorophyll-a (corrected & uncorrected)

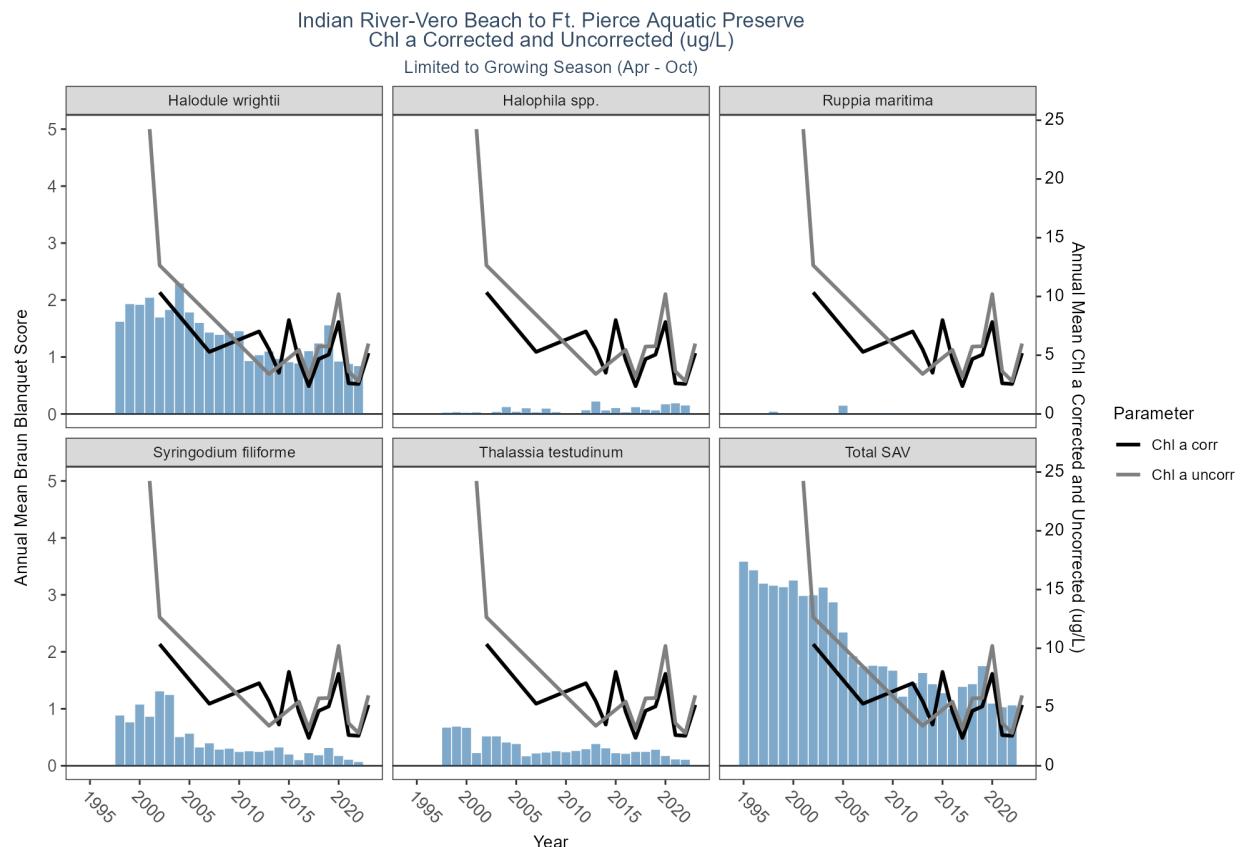


Table 304: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2002	10.350	9.225	6.620	16.330	4.597
Chl a corr	2007	5.282	3.900	0.960	10.000	3.614
Chl a corr	2012	7.025	7.050	6.000	8.000	0.932

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2013	5.500	2.900	0.770	27.000	7.145
Chl a corr	2014	3.506	2.850	1.100	8.500	2.235
Chl a corr	2015	7.992	5.600	2.100	24.000	6.390
Chl a corr	2016	4.610	3.650	1.500	12.000	2.910
Chl a corr	2017	2.368	1.950	0.920	6.300	1.573
Chl a corr	2018	4.675	2.850	1.800	9.100	3.049
Chl a corr	2019	5.050	4.200	3.200	12.000	2.895
Chl a corr	2020	7.828	8.063	1.000	17.275	6.629
Chl a corr	2021	2.609	1.869	1.000	7.238	1.952
Chl a corr	2022	2.553	2.390	1.000	4.165	1.187
Chl a corr	2023	5.186	4.239	1.148	14.605	4.340
Chl a uncorr	2001	24.242	24.015	13.970	34.970	8.745
Chl a uncorr	2002	12.652	11.490	8.000	19.630	5.491
Chl a uncorr	2013	3.400	3.400	3.000	3.800	0.566
Chl a uncorr	2016	5.455	4.250	1.700	14.000	3.552
Chl a uncorr	2017	3.150	2.100	1.000	8.200	2.370
Chl a uncorr	2018	5.737	3.900	2.300	11.000	3.432
Chl a uncorr	2019	5.763	4.900	3.600	13.000	3.091
Chl a uncorr	2020	10.204	9.522	1.095	21.320	8.076
Chl a uncorr	2021	3.624	2.539	1.074	7.977	2.499
Chl a uncorr	2022	2.793	2.502	1.000	4.866	1.423
Chl a uncorr	2023	5.991	4.716	1.374	16.426	4.911

Programs contributing WQ Data:

Table 305: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	103	2021	2021	6
Chl a corr	540	2016	2019	24
Chl a corr	5002	2002	2023	132
Chl a uncorr	540	2016	2019	24
Chl a uncorr	5002	2001	2023	82

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

540 - Shellfish Harvest Area Classification Program

5002 - Florida STORET / WIN

Dissolved Oxygen

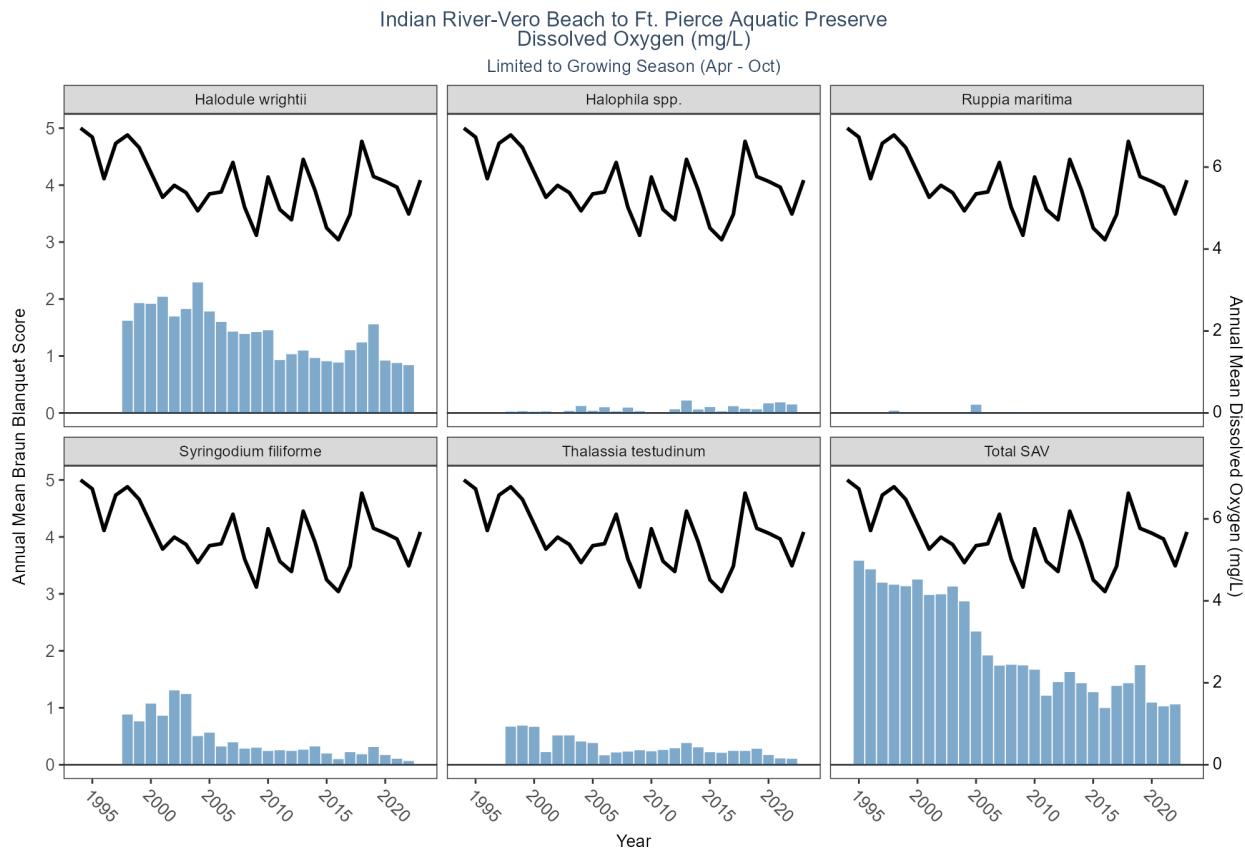


Table 306: WQ Summary for Dissolved Oxygen in Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	1994	6.950	6.950	6.70	7.20	0.289
Dissolved Oxygen	1995	6.731	6.600	4.40	10.10	1.331
Dissolved Oxygen	1996	5.717	5.900	2.30	9.40	1.181
Dissolved Oxygen	1997	6.579	6.600	2.00	11.09	1.456
Dissolved Oxygen	1998	6.783	6.485	1.50	11.90	1.795
Dissolved Oxygen	1999	6.476	6.400	2.70	9.90	1.250
Dissolved Oxygen	2000	5.870	6.200	2.10	8.90	1.316
Dissolved Oxygen	2001	5.263	5.500	0.80	9.80	1.598
Dissolved Oxygen	2002	5.554	5.700	0.60	9.50	1.692
Dissolved Oxygen	2003	5.376	5.500	0.90	10.00	1.703
Dissolved Oxygen	2004	4.933	4.700	2.00	8.94	1.805
Dissolved Oxygen	2005	5.346	5.500	3.10	8.30	1.078
Dissolved Oxygen	2006	5.393	5.300	2.50	9.10	1.140
Dissolved Oxygen	2007	6.113	6.300	2.60	9.50	1.217
Dissolved Oxygen	2008	5.019	4.700	2.80	9.50	1.387
Dissolved Oxygen	2009	4.336	4.100	1.80	8.31	1.547
Dissolved Oxygen	2010	5.758	5.600	3.50	8.70	0.994
Dissolved Oxygen	2011	4.966	5.000	1.80	7.70	1.237
Dissolved Oxygen	2012	4.715	4.900	1.00	8.80	1.938

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2013	6.188	5.750	4.00	11.50	1.470
Dissolved Oxygen	2014	5.438	4.800	2.80	13.00	2.026
Dissolved Oxygen	2015	4.513	4.400	1.50	15.50	2.143
Dissolved Oxygen	2016	4.226	5.500	0.38	8.00	2.936
Dissolved Oxygen	2017	4.846	5.900	0.04	9.00	2.536
Dissolved Oxygen	2018	6.627	6.350	5.30	9.50	0.998
Dissolved Oxygen	2019	5.769	6.000	0.80	7.40	1.255
Dissolved Oxygen	2020	5.651	5.780	1.80	10.60	1.548
Dissolved Oxygen	2021	5.509	5.770	1.50	7.60	1.259
Dissolved Oxygen	2022	4.855	5.150	1.30	7.60	1.722
Dissolved Oxygen	2023	5.681	5.680	4.39	6.54	0.597
Dissolved Oxygen	2024	6.770	6.770	6.77	6.77	NA

Programs contributing WQ Data:

Table 307: Programs contributing WQ data for Dissolved Oxygen in Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	1998	2022	715
Dissolved Oxygen	95	1996	2018	30
Dissolved Oxygen	103	2021	2021	11
Dissolved Oxygen	115	1994	1995	8
Dissolved Oxygen	540	2016	2019	20
Dissolved Oxygen	3001	1992	2022	119
Dissolved Oxygen	5002	1995	2024	3753

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 540 - Shellfish Harvest Area Classification Program
- 3001 - Lagoon Watch (Formerly Marine Discovery Center)
- 5002 - Florida STORET / WIN

Dissolved Oxygen Saturation

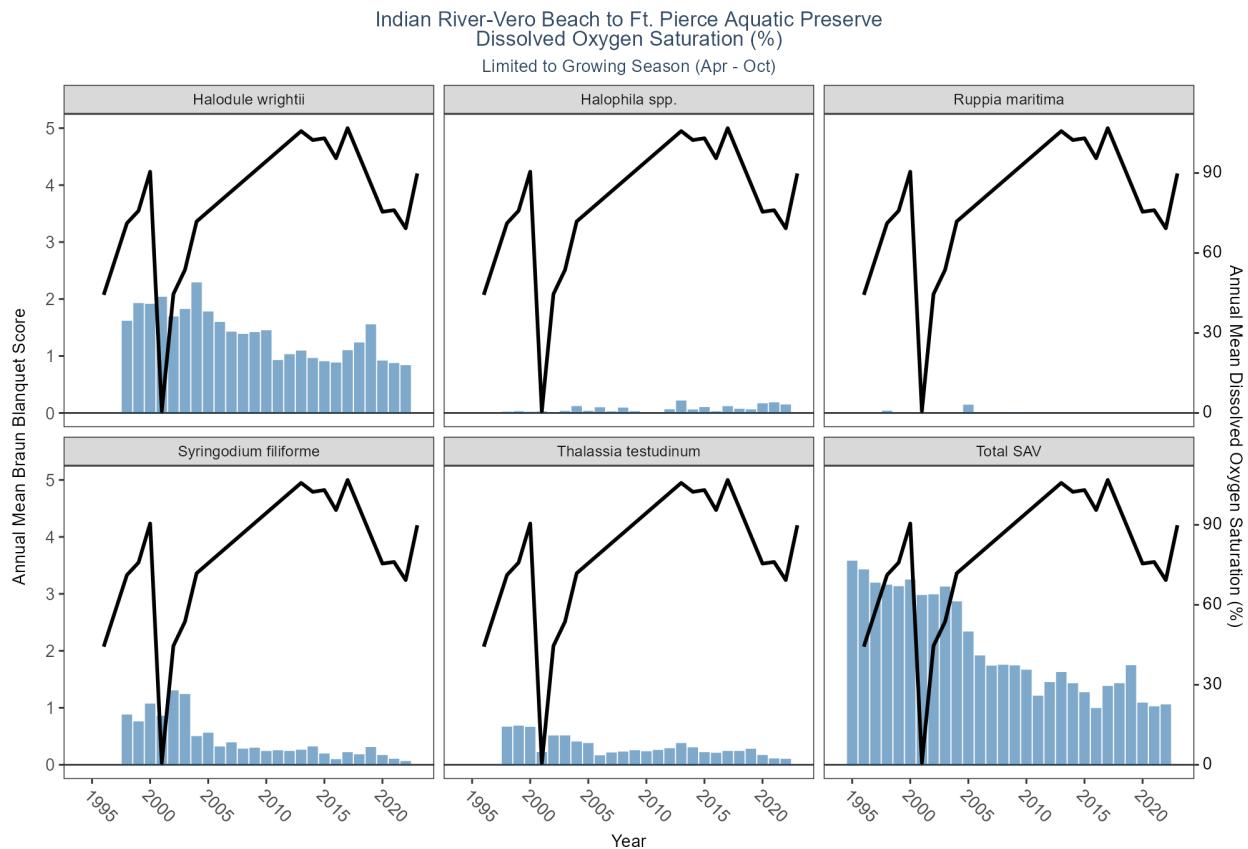


Table 308: WQ Summary for Dissolved Oxygen Saturation in Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	1996	44.293	44.00	0.880	88.00	43.561
Dissolved Oxygen Saturation	1998	71.167	69.50	47.000	118.00	18.882
Dissolved Oxygen Saturation	1999	75.833	75.50	51.000	95.00	11.801
Dissolved Oxygen Saturation	2000	90.500	88.00	83.000	104.00	7.868
Dissolved Oxygen Saturation	2001	0.651	0.61	0.372	0.97	0.176
Dissolved Oxygen Saturation	2002	44.581	47.00	8.000	95.00	21.478
Dissolved Oxygen Saturation	2003	53.706	60.00	12.000	83.00	17.823
Dissolved Oxygen Saturation	2004	71.833	75.50	51.000	83.00	10.772
Dissolved Oxygen Saturation	2013	105.729	107.35	78.200	130.20	13.571
Dissolved Oxygen Saturation	2014	102.357	105.85	80.900	133.50	15.428
Dissolved Oxygen Saturation	2015	103.039	104.55	65.300	125.50	14.570
Dissolved Oxygen Saturation	2016	95.536	100.05	71.800	112.40	12.415
Dissolved Oxygen Saturation	2017	106.833	109.50	88.000	120.00	11.583
Dissolved Oxygen Saturation	2020	75.462	76.10	25.800	158.40	27.684
Dissolved Oxygen Saturation	2021	76.058	84.35	18.700	114.50	23.530
Dissolved Oxygen Saturation	2022	69.272	71.75	17.400	106.90	26.925
Dissolved Oxygen Saturation	2023	89.840	88.40	82.700	100.70	6.317

Programs contributing WQ Data:

Table 309: Programs contributing WQ data for Dissolved Oxygen Saturation in Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	3001	1992	2022	116
Dissolved Oxygen Saturation	5002	1996	2023	237

WQ Program names:

3001 - Lagoon Watch (Formerly Marine Discovery Center)

5002 - Florida STORET / WIN

pH

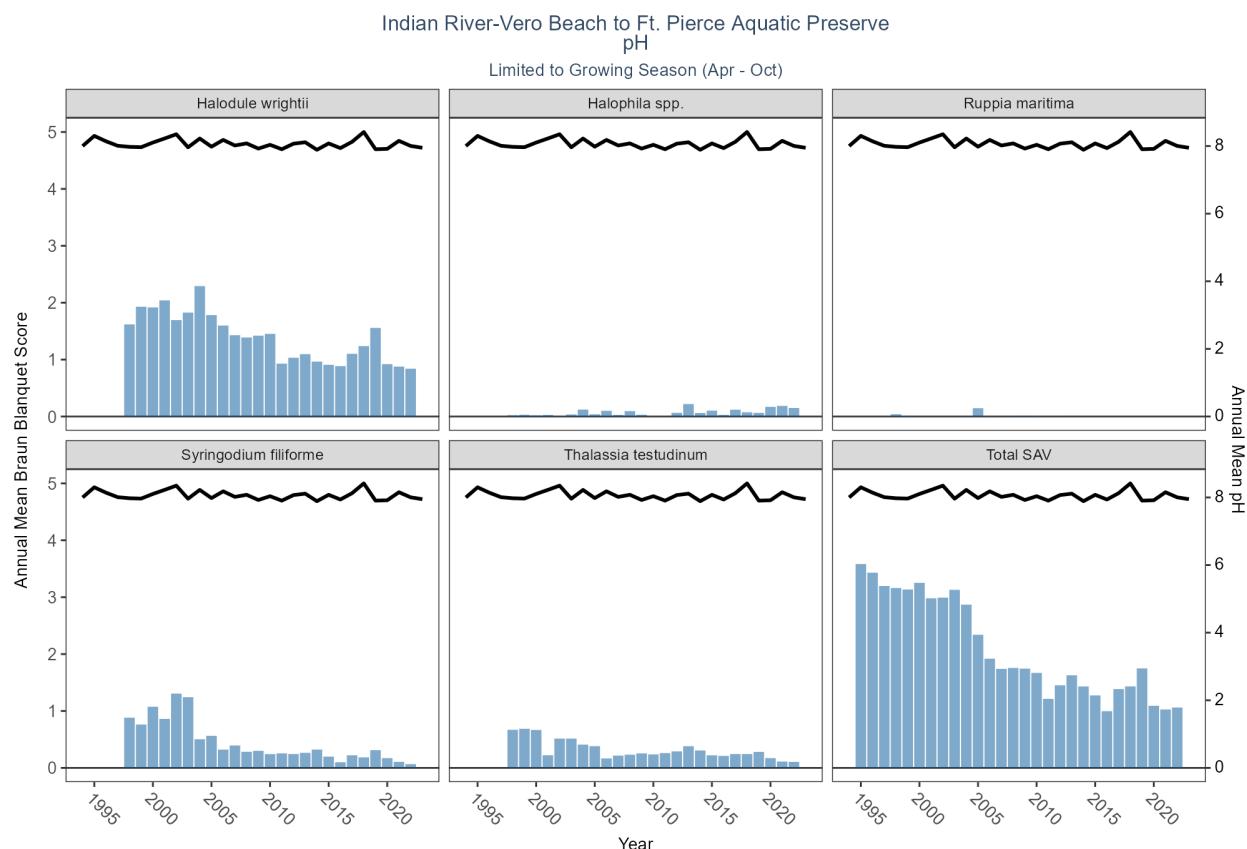


Table 310: WQ Summary for pH in Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	1994	8.000	8.00	8.00	8.000	0.000
pH	1995	8.301	8.30	7.80	8.900	0.216
pH	1996	8.141	8.10	7.80	8.700	0.196
pH	1997	8.008	8.00	7.60	8.300	0.142
pH	1998	7.976	8.05	6.50	8.600	0.377
pH	1999	7.967	7.90	7.00	8.900	0.305

ParameterName	Year	mean	median	min	max	sd
pH	2000	8.104	8.02	7.40	9.500	0.348
pH	2001	8.224	8.20	6.60	9.310	0.367
pH	2002	8.349	8.10	7.50	9.400	0.523
pH	2003	7.964	7.90	7.10	9.290	0.507
pH	2004	8.223	8.10	7.80	9.420	0.381
pH	2005	7.981	8.03	6.00	9.190	0.524
pH	2006	8.182	8.10	7.70	8.900	0.354
pH	2007	8.017	8.00	7.20	8.400	0.232
pH	2008	8.078	8.10	7.70	8.500	0.156
pH	2009	7.925	7.90	7.30	8.400	0.200
pH	2010	8.037	8.07	7.64	8.300	0.147
pH	2011	7.906	7.90	7.50	8.345	0.194
pH	2012	8.070	8.10	7.70	8.424	0.162
pH	2013	8.112	8.11	7.50	8.400	0.159
pH	2014	7.890	7.90	6.70	8.372	0.271
pH	2015	8.078	8.10	7.50	8.800	0.256
pH	2016	7.939	8.00	7.20	8.227	0.259
pH	2017	8.126	8.10	7.50	8.500	0.201
pH	2018	8.416	8.10	7.80	11.000	0.932
pH	2019	7.906	7.90	7.60	8.200	0.150
pH	2020	7.917	7.85	7.20	8.900	0.385
pH	2021	8.154	8.10	7.20	8.700	0.327
pH	2022	8.003	8.04	7.20	8.250	0.214
pH	2023	7.949	7.97	7.50	8.180	0.181
pH	2024	7.900	7.90	7.900	NA	

Programs contributing WQ Data:

Table 311: Programs contributing WQ data for pH in Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	1998	2021	697
pH	95	2012	2018	23
pH	103	2021	2021	11
pH	115	1994	1995	6
pH	540	2016	2019	20
pH	3001	1992	2022	121
pH	5002	1995	2024	2620

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 540 - Shellfish Harvest Area Classification Program
- 3001 - Lagoon Watch (Formerly Marine Discovery Center)
- 5002 - Florida STORET / WIN

Salinity

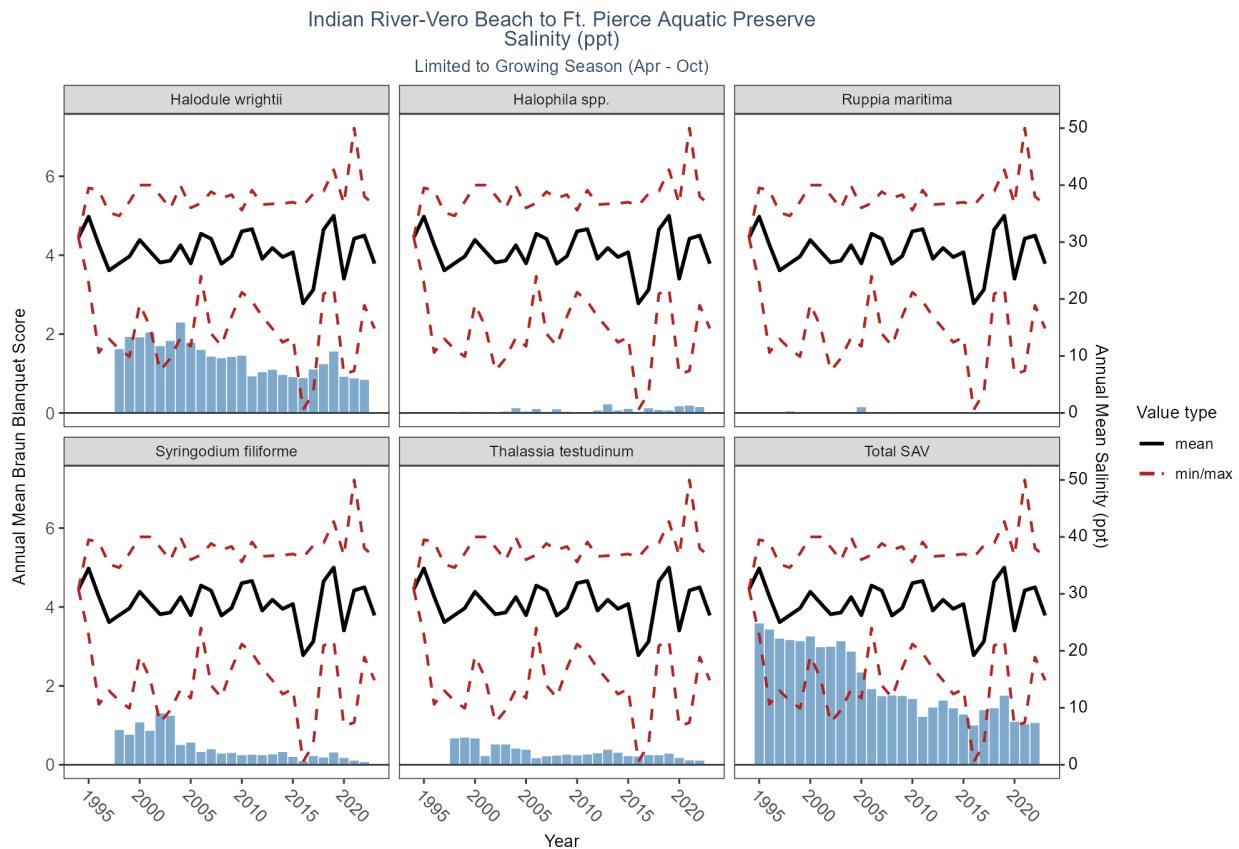


Table 312: WQ Summary for Salinity in Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	1994	30.800	30.800	30.80	30.80	0.000
Salinity	1995	34.467	35.500	22.80	39.50	4.478
Salinity	1996	29.525	30.900	10.60	39.10	4.695
Salinity	1997	25.029	25.100	13.00	35.20	4.960
Salinity	1998	26.268	26.300	11.20	34.60	5.384
Salinity	1999	27.478	28.400	9.90	37.10	7.293
Salinity	2000	30.375	31.700	19.10	40.00	4.617
Salinity	2001	28.375	26.950	15.20	40.00	7.175
Salinity	2002	26.419	28.200	7.40	38.18	8.692
Salinity	2003	26.730	27.400	9.60	35.90	5.364
Salinity	2004	29.440	31.500	13.21	39.90	8.093
Salinity	2005	26.258	27.900	11.70	36.00	5.132
Salinity	2006	31.465	32.350	24.00	36.84	3.163
Salinity	2007	30.572	33.500	13.92	38.85	6.210
Salinity	2008	26.188	28.350	11.80	37.70	5.991
Salinity	2009	27.521	27.500	16.92	38.33	4.235
Salinity	2010	31.886	32.605	21.19	35.59	2.806
Salinity	2011	32.270	33.200	19.60	39.11	3.731
Salinity	2012	27.067	25.450	16.94	36.58	6.529

ParameterName	Year	mean	median	min	max	sd
Salinity	2013	28.964	28.630	14.80	36.70	4.616
Salinity	2014	27.368	29.000	12.40	36.78	5.729
Salinity	2015	28.217	31.200	13.30	37.00	6.704
Salinity	2016	19.238	23.900	0.55	36.40	12.908
Salinity	2017	21.639	19.750	3.57	38.50	11.411
Salinity	2018	32.170	33.500	20.90	38.90	4.596
Salinity	2019	34.624	35.100	21.80	42.70	6.744
Salinity	2020	23.566	22.300	6.80	36.70	6.790
Salinity	2021	30.604	31.800	7.40	50.00	5.706
Salinity	2022	31.152	33.010	18.90	38.00	5.143
Salinity	2023	26.210	25.380	14.83	36.51	6.891
Salinity	2024	34.400	34.400	34.40	34.40	NA

Programs contributing WQ Data:

Table 313: Programs contributing WQ data for Salinity in Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	1997	2022	765
Salinity	95	1996	2018	35
Salinity	115	1994	1995	7
Salinity	540	2016	2019	24
Salinity	3001	1992	2022	120
Salinity	5002	1995	2024	4167

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 115 - Environmental Monitoring Assessment Program
- 540 - Shellfish Harvest Area Classification Program
- 3001 - Lagoon Watch (Formerly Marine Discovery Center)
- 5002 - Florida STORET / WIN

Secchi Depth

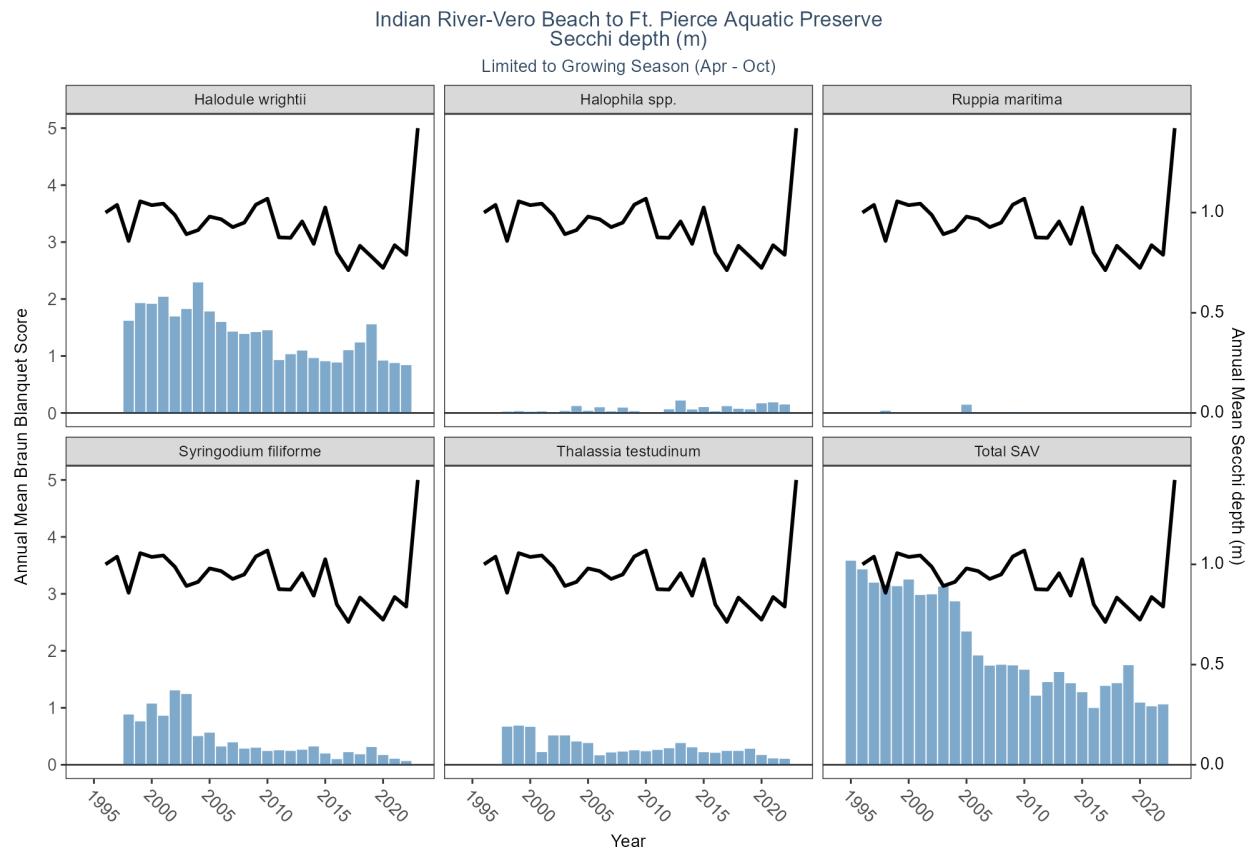


Table 314: WQ Summary for Secchi Depth in Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	1996	1.000	1.00	1.00	1.00	0.000
Secchi depth	1997	1.038	1.10	0.30	1.70	0.338
Secchi depth	1998	0.858	0.70	0.30	2.00	0.553
Secchi depth	1999	1.056	1.05	0.50	1.50	0.310
Secchi depth	2000	1.037	1.10	0.40	1.70	0.383
Secchi depth	2001	1.044	1.00	0.60	1.70	0.281
Secchi depth	2002	0.988	0.90	0.70	1.40	0.236
Secchi depth	2003	0.892	0.85	0.40	1.30	0.275
Secchi depth	2004	0.912	0.90	0.70	1.20	0.207
Secchi depth	2005	0.980	1.00	0.40	1.30	0.248
Secchi depth	2006	0.967	1.00	0.60	1.30	0.197
Secchi depth	2007	0.927	0.95	0.30	2.30	0.345
Secchi depth	2008	0.950	0.80	0.30	1.70	0.395
Secchi depth	2009	1.039	1.00	0.30	2.00	0.345
Secchi depth	2010	1.069	1.00	0.30	2.20	0.508
Secchi depth	2011	0.876	0.90	0.30	1.70	0.468
Secchi depth	2012	0.874	0.80	0.50	1.50	0.302
Secchi depth	2013	0.956	1.00	0.50	1.50	0.258
Secchi depth	2014	0.844	0.75	0.20	1.50	0.390

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2015	1.026	1.00	0.40	1.60	0.331
Secchi depth	2016	0.800	0.80	0.40	1.10	0.183
Secchi depth	2017	0.713	0.70	0.40	1.00	0.227
Secchi depth	2018	0.834	0.80	0.50	1.30	0.229
Secchi depth	2019	0.780	0.80	0.40	1.10	0.200
Secchi depth	2020	0.724	0.60	0.20	2.10	0.490
Secchi depth	2021	0.837	0.60	0.30	2.00	0.525
Secchi depth	2022	0.789	0.70	0.20	2.01	0.440
Secchi depth	2023	1.421	1.45	0.95	1.90	0.281
Secchi depth	2024	1.200	1.20	1.20	1.20	NA

Programs contributing WQ Data:

Table 315: Programs contributing WQ data for Secchi Depth in Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	1997	2022	769
Secchi depth	103	2021	2021	20
Secchi depth	3001	1992	2022	116
Secchi depth	5002	2007	2024	124

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 3001 - Lagoon Watch (Formerly Marine Discovery Center)
- 5002 - Florida STORET / WIN

Total Nitrogen & Total Phosphorus

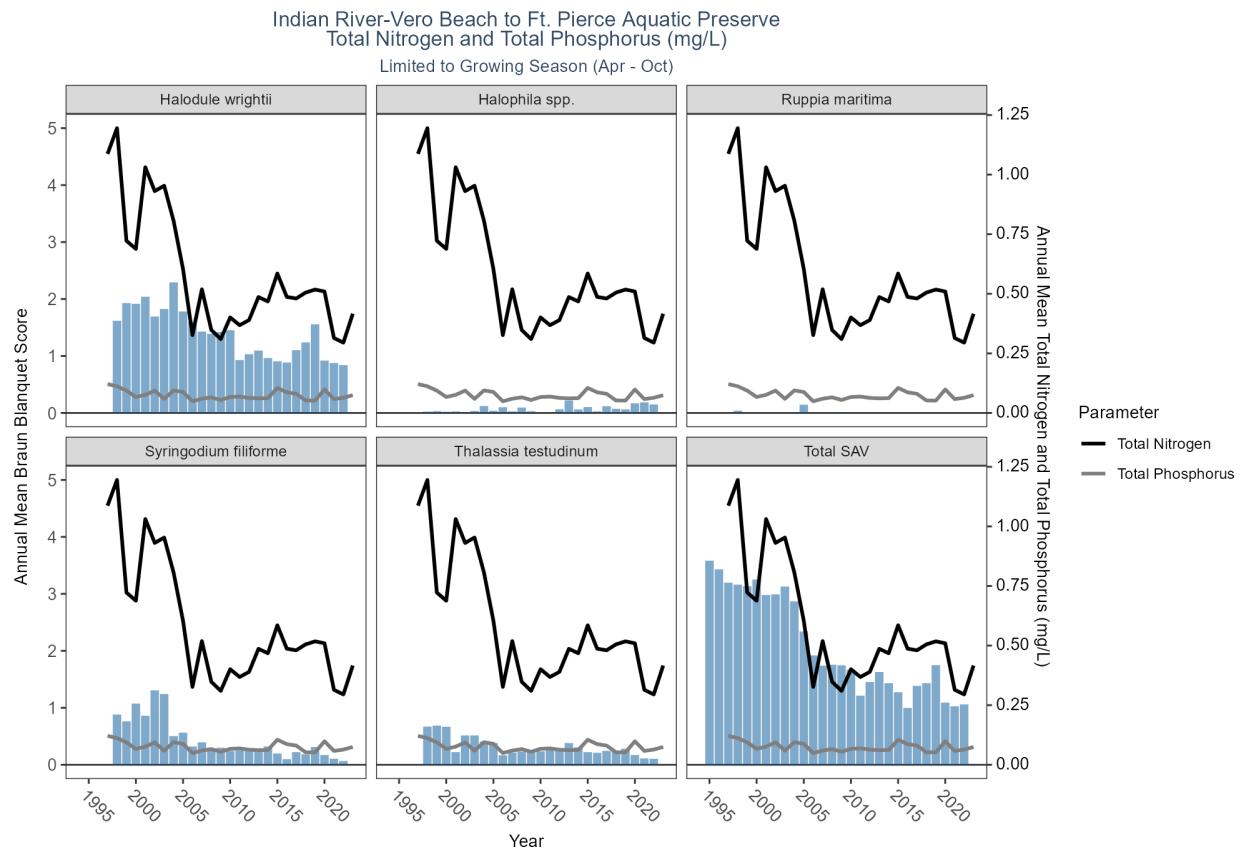


Table 316: WQ Summary for Total Nitrogen & Total Phosphorus in Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	1997	1.087	1.097	0.867	1.297	0.216
Total Nitrogen	1998	1.195	1.011	0.707	2.316	0.441
Total Nitrogen	1999	0.723	0.623	0.440	1.548	0.264
Total Nitrogen	2000	0.688	0.661	0.361	1.139	0.208
Total Nitrogen	2001	1.031	0.901	0.574	1.561	0.329
Total Nitrogen	2002	0.931	0.899	0.243	1.291	0.260
Total Nitrogen	2003	0.953	0.931	0.674	1.239	0.165
Total Nitrogen	2004	0.806	0.866	0.016	1.286	0.345
Total Nitrogen	2005	0.604	0.549	0.347	1.207	0.223
Total Nitrogen	2006	0.327	0.335	0.122	0.557	0.114
Total Nitrogen	2007	0.519	0.424	0.229	1.089	0.239
Total Nitrogen	2008	0.348	0.352	0.161	0.528	0.098
Total Nitrogen	2009	0.310	0.252	0.106	0.493	0.127
Total Nitrogen	2010	0.401	0.402	0.258	0.559	0.082
Total Nitrogen	2011	0.368	0.369	0.179	0.567	0.106
Total Nitrogen	2012	0.390	0.351	0.126	0.861	0.202
Total Nitrogen	2013	0.486	0.460	0.117	1.104	0.194
Total Nitrogen	2014	0.468	0.423	0.174	0.906	0.194
Total Nitrogen	2015	0.585	0.514	0.195	1.158	0.250

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2016	0.487	0.431	0.278	0.846	0.140
Total Nitrogen	2017	0.480	0.447	0.204	0.901	0.206
Total Nitrogen	2018	0.505	0.500	0.264	0.741	0.169
Total Nitrogen	2019	0.518	0.434	0.274	0.870	0.224
Total Nitrogen	2020	0.510	0.506	0.206	0.783	0.183
Total Nitrogen	2021	0.314	0.311	0.060	0.505	0.120
Total Nitrogen	2022	0.295	0.313	0.146	0.396	0.070
Total Nitrogen	2023	0.416	0.428	0.207	0.897	0.156
Total Nitrogen	2024	0.311	0.311	0.311	0.311	NA
Total Phosphorus	1997	0.121	0.128	0.035	0.178	0.041
Total Phosphorus	1998	0.112	0.107	0.023	0.245	0.051
Total Phosphorus	1999	0.094	0.090	0.055	0.188	0.030
Total Phosphorus	2000	0.067	0.067	0.021	0.126	0.024
Total Phosphorus	2001	0.076	0.062	0.014	0.175	0.044
Total Phosphorus	2002	0.094	0.062	0.017	0.392	0.074
Total Phosphorus	2003	0.059	0.056	0.029	0.113	0.020
Total Phosphorus	2004	0.095	0.074	0.008	0.353	0.081
Total Phosphorus	2005	0.088	0.081	0.016	0.159	0.033
Total Phosphorus	2006	0.049	0.046	0.017	0.085	0.017
Total Phosphorus	2007	0.060	0.050	-0.004	0.182	0.038
Total Phosphorus	2008	0.066	0.058	0.031	0.164	0.033
Total Phosphorus	2009	0.055	0.051	0.020	0.090	0.019
Total Phosphorus	2010	0.067	0.064	0.023	0.126	0.026
Total Phosphorus	2011	0.069	0.058	0.028	0.153	0.034
Total Phosphorus	2012	0.063	0.057	0.026	0.123	0.025
Total Phosphorus	2013	0.061	0.060	0.012	0.110	0.020
Total Phosphorus	2014	0.062	0.059	0.021	0.134	0.027
Total Phosphorus	2015	0.105	0.093	0.017	0.246	0.058
Total Phosphorus	2016	0.087	0.085	0.033	0.180	0.033
Total Phosphorus	2017	0.080	0.073	0.014	0.153	0.043
Total Phosphorus	2018	0.052	0.055	0.026	0.066	0.014
Total Phosphorus	2019	0.052	0.048	0.031	0.085	0.019
Total Phosphorus	2020	0.099	0.084	0.033	0.181	0.043
Total Phosphorus	2021	0.058	0.058	0.013	0.103	0.018
Total Phosphorus	2022	0.064	0.056	0.026	0.170	0.031
Total Phosphorus	2023	0.075	0.070	0.041	0.123	0.021
Total Phosphorus	2024	0.048	0.048	0.048	0.048	NA

Programs contributing WQ Data:

Table 317: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	540	2016	2019	24
Total Nitrogen	5002	1997	2024	562
Total Phosphorus	103	2021	2021	17
Total Phosphorus	540	2016	2019	23
Total Phosphorus	5002	1997	2024	1177

WQ Program names:

540 - Shellfish Harvest Area Classification Program

5002 - Florida STORET / WIN

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

Total Suspended Solids

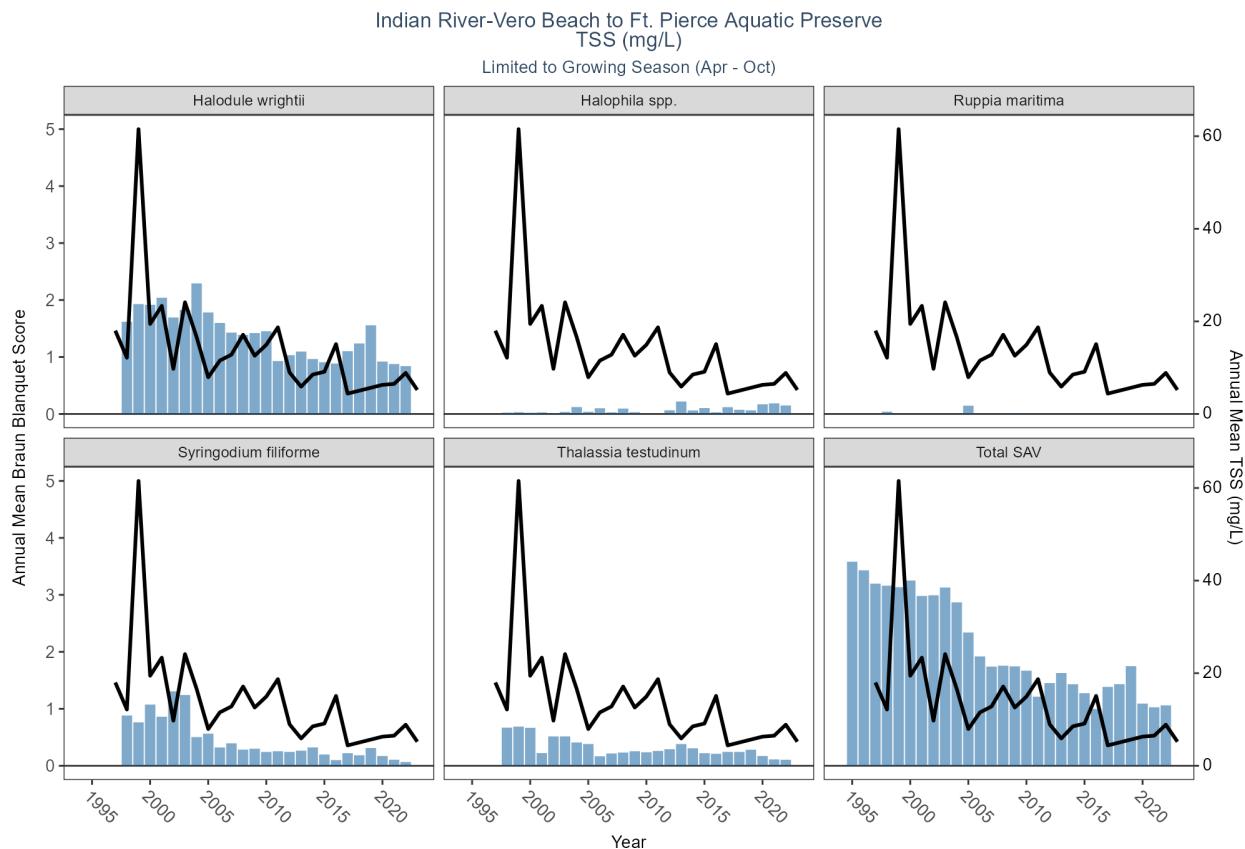


Table 318: WQ Summary for Total Suspended Solids in Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	1997	17.990	12.00	4.0	40.0	11.401
TSS	1998	12.145	11.40	3.6	21.6	5.510
TSS	1999	61.525	63.00	21.0	93.0	17.856
TSS	2000	19.446	20.75	7.5	33.0	6.765
TSS	2001	23.350	18.50	9.0	60.0	13.827
TSS	2002	9.746	5.00	-8.0	38.0	11.730
TSS	2003	24.121	21.00	2.0	111.0	17.857
TSS	2004	16.611	8.50	6.0	50.0	12.862
TSS	2005	7.926	7.00	-1.0	19.0	4.640
TSS	2006	11.533	11.00	8.0	19.0	2.973
TSS	2007	12.814	12.00	6.0	25.2	5.683
TSS	2008	17.119	13.90	7.0	40.7	9.186
TSS	2009	12.581	12.00	6.0	19.0	3.382
TSS	2010	14.943	13.20	5.4	25.0	5.912

ParameterName	Year	mean	median	min	max	sd
TSS	2011	18.712	18.00	11.2	31.0	5.788
TSS	2012	8.962	8.70	3.1	17.6	4.164
TSS	2013	5.900	5.55	3.9	8.4	1.574
TSS	2014	8.514	5.85	2.7	27.2	7.880
TSS	2015	9.114	6.65	2.7	23.9	6.589
TSS	2016	15.092	12.40	7.0	28.5	7.205
TSS	2017	4.400	4.35	2.4	6.4	1.396
TSS	2020	6.290	4.75	3.0	15.6	3.782
TSS	2021	6.497	5.90	3.4	16.6	2.854
TSS	2022	8.867	8.30	3.0	17.0	4.281
TSS	2023	5.198	4.70	2.5	8.8	1.948
TSS	2024	3.000	3.00	3.0	3.0	NA

Programs contributing WQ Data:

Table 319: Programs contributing WQ data for Total Suspended Solids in Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	103	2021	2021	11
TSS	5002	1997	2024	504

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

5002 - Florida STORET / WIN

Turbidity

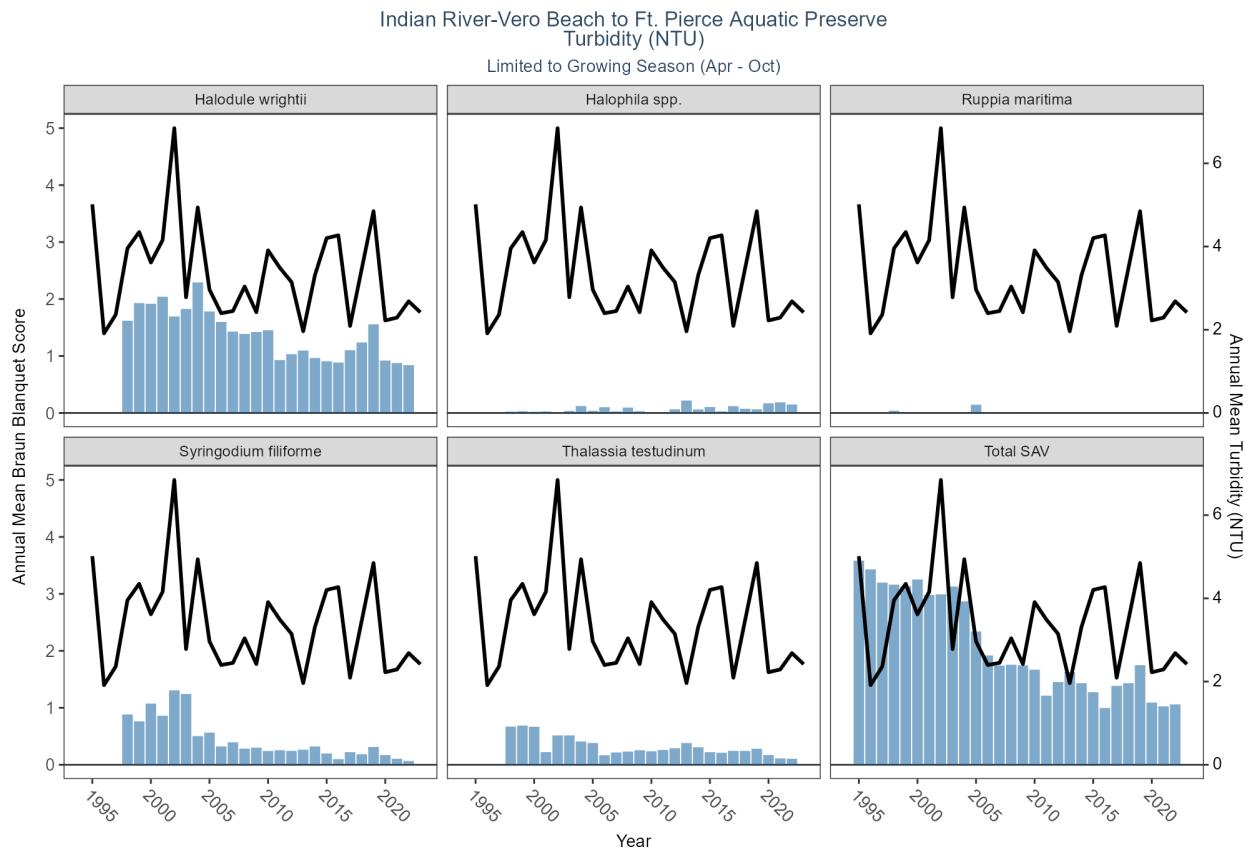


Table 320: WQ Summary for Turbidity in Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	1995	5.014	3.100	0.860	39.000	5.427
Turbidity	1996	1.913	1.750	0.720	6.600	0.892
Turbidity	1997	2.364	1.900	0.570	9.600	1.492
Turbidity	1998	3.956	3.400	0.900	12.200	2.423
Turbidity	1999	4.348	3.400	1.100	18.000	3.023
Turbidity	2000	3.616	2.400	0.660	19.000	3.235
Turbidity	2001	4.156	3.400	0.610	15.000	2.666
Turbidity	2002	6.845	3.700	0.910	29.000	7.135
Turbidity	2003	2.781	2.500	1.200	14.000	1.478
Turbidity	2004	4.939	3.950	0.600	18.000	3.865
Turbidity	2005	2.965	2.700	0.600	8.800	1.482
Turbidity	2006	2.397	2.300	1.100	8.730	0.907
Turbidity	2007	2.449	2.320	0.590	9.500	1.057
Turbidity	2008	3.040	2.095	0.600	18.400	2.746
Turbidity	2009	2.420	2.300	0.600	6.810	1.367
Turbidity	2010	3.909	3.400	0.800	11.100	2.271
Turbidity	2011	3.491	2.800	0.900	19.452	2.614
Turbidity	2012	3.148	2.705	1.551	6.035	1.281
Turbidity	2013	1.962	1.775	0.839	4.332	0.994

ParameterName	Year	mean	median	min	max	sd
Turbidity	2014	3.312	3.491	1.062	7.555	1.825
Turbidity	2015	4.202	3.897	1.243	9.984	2.410
Turbidity	2016	4.270	4.369	2.064	7.742	1.909
Turbidity	2017	2.091	2.066	1.507	2.787	0.488
Turbidity	2019	4.850	5.000	3.400	6.000	1.182
Turbidity	2020	2.223	2.383	0.500	4.033	1.145
Turbidity	2021	2.291	1.782	0.938	10.390	1.877
Turbidity	2022	2.684	2.071	0.595	5.408	1.453
Turbidity	2023	2.417	2.500	0.500	6.961	1.646
Turbidity	2024	2.700	2.700	2.700	2.700	NA

Programs contributing WQ Data:

Table 321: Programs contributing WQ data for Turbidity in Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	103	2021	2021	11
Turbidity	540	2019	2019	4
Turbidity	5002	1995	2024	2373

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

540 - Shellfish Harvest Area Classification Program

5002 - Florida STORET / WIN

Water Temperature

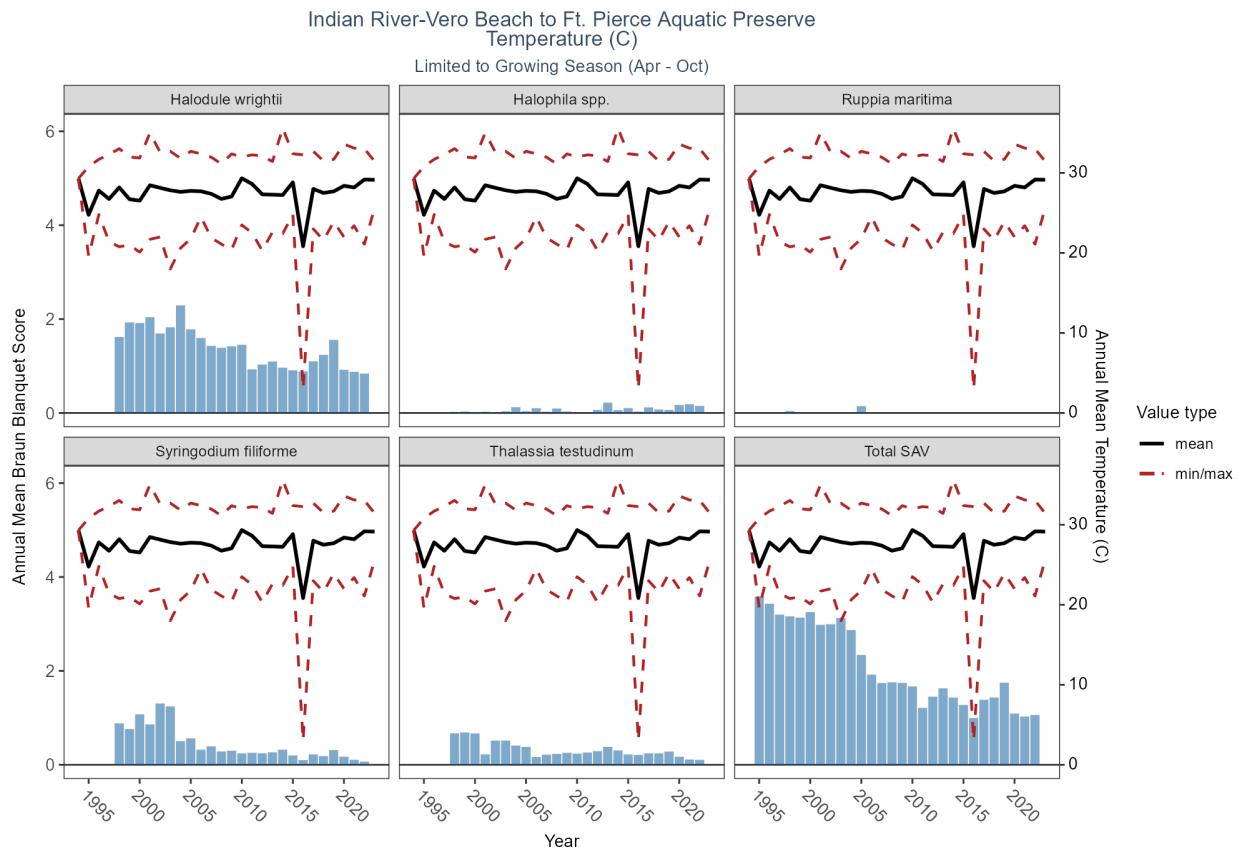


Table 322: WQ Summary for Water Temperature in Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	1994	29.300	29.300	29.30	29.300	0.000
Temperature	1995	24.764	23.550	19.60	30.800	3.542
Temperature	1996	27.796	28.000	24.80	31.700	1.419
Temperature	1997	26.743	26.200	21.40	32.300	2.329
Temperature	1998	28.191	28.900	20.77	33.040	2.994
Temperature	1999	26.718	27.400	21.00	32.000	3.038
Temperature	2000	26.535	27.700	20.10	31.870	3.007
Temperature	2001	28.460	28.895	21.70	35.000	2.764
Temperature	2002	28.142	28.000	22.00	32.600	1.668
Temperature	2003	27.832	28.400	18.00	32.700	2.384
Temperature	2004	27.635	27.500	20.61	31.830	2.269
Temperature	2005	27.756	27.400	21.77	32.700	3.169
Temperature	2006	27.707	26.900	24.51	32.400	1.930
Temperature	2007	27.391	28.140	21.90	31.970	2.841
Temperature	2008	26.755	27.100	21.10	31.130	2.490
Temperature	2009	27.056	27.900	20.40	32.380	3.555
Temperature	2010	29.335	30.200	23.50	32.000	2.285
Temperature	2011	28.626	29.300	22.50	32.260	2.229
Temperature	2012	27.323	28.400	20.30	32.150	2.391

ParameterName	Year	mean	median	min	max	sd
Temperature	2013	27.283	28.300	22.60	31.420	2.658
Temperature	2014	27.242	26.400	22.40	35.600	2.722
Temperature	2015	28.823	28.200	24.81	32.400	1.750
Temperature	2016	20.832	24.100	3.02	32.260	10.221
Temperature	2017	28.004	26.700	23.00	32.700	2.408
Temperature	2018	27.498	28.050	21.60	31.500	2.699
Temperature	2019	27.697	27.100	23.90	31.700	2.242
Temperature	2020	28.390	28.300	22.00	33.600	2.231
Temperature	2021	28.191	28.360	23.40	33.100	2.002
Temperature	2022	29.173	29.632	21.10	33.040	2.795
Temperature	2023	29.143	29.800	25.60	31.443	1.931
Temperature	2024	22.400	22.400	22.40	22.400	NA

Programs contributing WQ Data:

Table 323: Programs contributing WQ data for Water Temperature in Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	1997	2022	765
Temperature	95	1996	2018	32
Temperature	103	2021	2021	11
Temperature	115	1994	1995	7
Temperature	540	2016	2019	24
Temperature	3001	1992	2022	120
Temperature	5002	1995	2024	4201

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 540 - Shellfish Harvest Area Classification Program
- 3001 - Lagoon Watch (Formerly Marine Discovery Center)
- 5002 - Florida STORET / WIN

Jensen Beach to Jupiter Inlet Aquatic Preserve

Programs contributing SAV Data:

Table 324: Programs contributing SAV data in Jensen Beach to Jupiter Inlet Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Percent Cover	3013	1994	2023	43441
Percent Occurrence	3013	1994	2023	52153
Percent Occurrence	3017	2007	2023	5172

SAV Program names:

3013 - Seagrass (SJRWMD)

3013 - Seagrass (SJRWMD)

3017 - Loxahatchee River District Bi-Monthly Seagrass Monitoring

Chlorophyll-a (corrected & uncorrected)

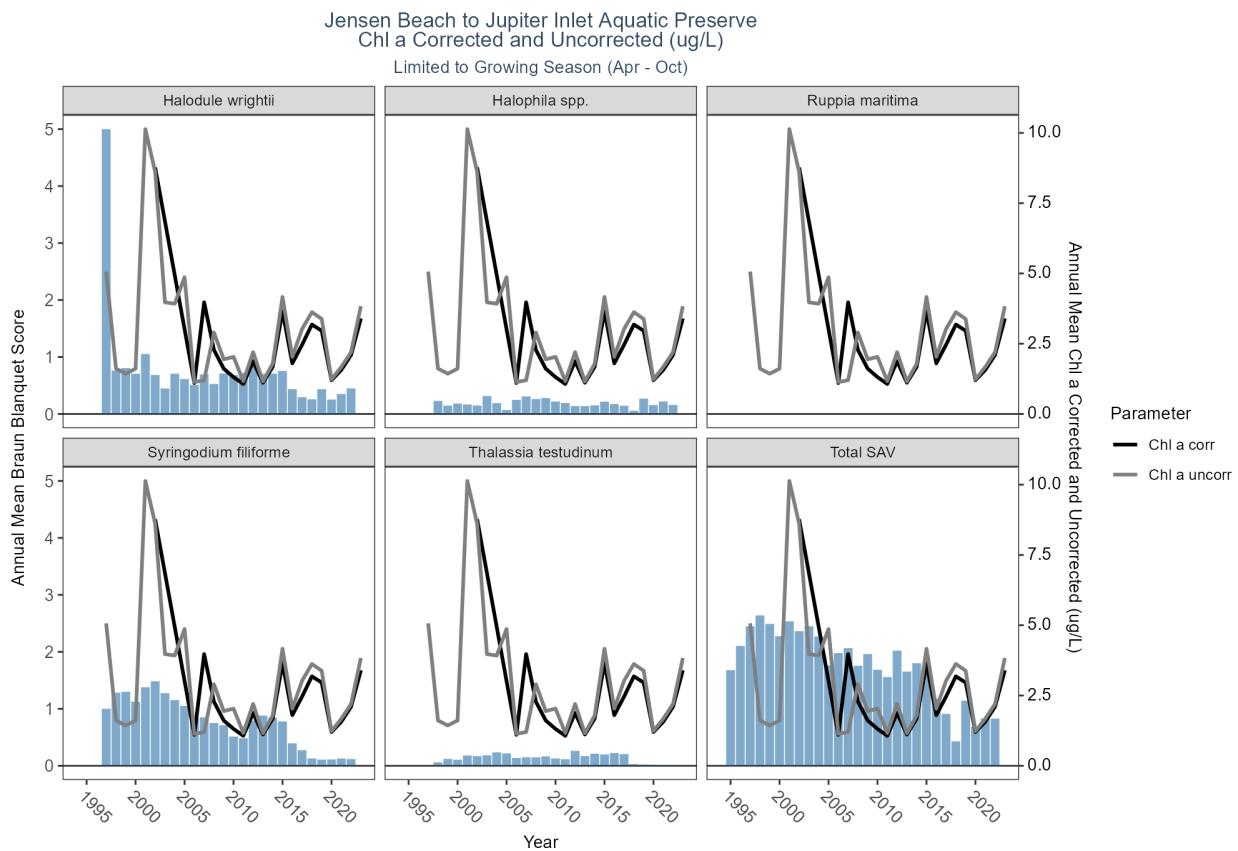


Table 325: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Jensen Beach to Jupiter Inlet Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2002	8.771	6.01	0.80	38.29	8.314
Chl a corr	2006	1.100	1.00	1.00	1.50	0.200
Chl a corr	2007	3.974	3.00	0.55	13.00	3.092
Chl a corr	2008	2.278	1.40	1.00	5.30	1.709
Chl a corr	2009	1.611	1.00	1.00	2.90	0.918
Chl a corr	2010	1.311	1.30	1.00	1.70	0.276
Chl a corr	2011	1.067	1.00	1.00	1.60	0.200
Chl a corr	2012	1.878	1.30	1.00	5.30	1.425
Chl a corr	2013	1.111	1.00	1.00	1.60	0.226
Chl a corr	2014	1.678	1.50	1.00	3.00	0.636
Chl a corr	2015	3.656	1.00	1.00	16.90	5.195
Chl a corr	2016	1.800	1.20	1.00	3.90	1.182
Chl a corr	2017	2.462	1.05	1.00	6.60	2.557
Chl a corr	2018	3.182	2.20	1.00	13.00	3.065
Chl a corr	2019	2.960	1.00	1.00	7.20	2.584
Chl a corr	2020	1.200	1.20	1.00	1.40	0.200
Chl a corr	2021	1.567	1.70	1.00	2.00	0.513
Chl a corr	2022	2.100	1.00	1.00	4.30	1.905
Chl a corr	2023	3.400	1.80	1.00	7.40	3.487
Chl a corr	2024	1.300	1.30	1.30	1.30	NA
Chl a uncorr	1997	5.067	4.70	4.70	5.80	0.635
Chl a uncorr	1998	1.612	1.40	1.20	3.00	0.606
Chl a uncorr	1999	1.433	1.00	1.00	3.00	0.762
Chl a uncorr	2000	1.611	1.40	1.00	2.70	0.720
Chl a uncorr	2001	10.134	7.10	1.00	36.17	8.528
Chl a uncorr	2002	8.610	6.18	1.00	42.37	9.106
Chl a uncorr	2003	3.971	4.10	2.70	4.80	0.916
Chl a uncorr	2004	3.922	1.70	1.00	10.80	3.773
Chl a uncorr	2005	4.867	3.40	1.00	9.10	3.350
Chl a uncorr	2006	1.133	1.00	1.00	1.80	0.269
Chl a uncorr	2007	1.200	1.00	1.00	2.00	0.447
Chl a uncorr	2008	2.900	1.60	1.00	8.60	2.577
Chl a uncorr	2009	1.944	1.00	1.00	3.80	1.392
Chl a uncorr	2010	2.033	1.50	1.00	4.04	1.075
Chl a uncorr	2011	1.167	1.00	1.00	2.10	0.357
Chl a uncorr	2012	2.200	1.50	1.00	6.20	1.714
Chl a uncorr	2013	1.156	1.00	1.00	1.80	0.292
Chl a uncorr	2014	1.789	1.40	1.00	3.60	0.824
Chl a uncorr	2015	4.167	1.00	1.00	19.20	5.964
Chl a uncorr	2016	2.031	1.45	1.00	4.70	1.368
Chl a uncorr	2017	3.025	1.00	1.00	9.00	3.688
Chl a uncorr	2018	3.623	2.60	0.70	16.00	3.763
Chl a uncorr	2019	3.380	1.10	1.00	8.20	3.079
Chl a uncorr	2020	1.233	1.10	1.00	1.60	0.321
Chl a uncorr	2021	1.671	2.00	1.00	2.00	0.472
Chl a uncorr	2022	2.200	1.00	1.00	4.60	2.078
Chl a uncorr	2023	3.833	2.10	1.00	8.40	3.993
Chl a uncorr	2024	1.300	1.30	1.30	1.30	NA

Programs contributing WQ Data:

Table 326: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Jensen Beach to Jupiter Inlet Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	5002	2002	2019	125
Chl a corr	10000	2006	2024	80
Chl a uncorr	103	2021	2021	4
Chl a uncorr	118	2010	2010	2
Chl a uncorr	5002	1997	2019	166
Chl a uncorr	10000	1997	2024	104

WQ Program names:

5002 - Florida STORET / WIN

10000 - RiverKeeper

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

Dissolved Oxygen

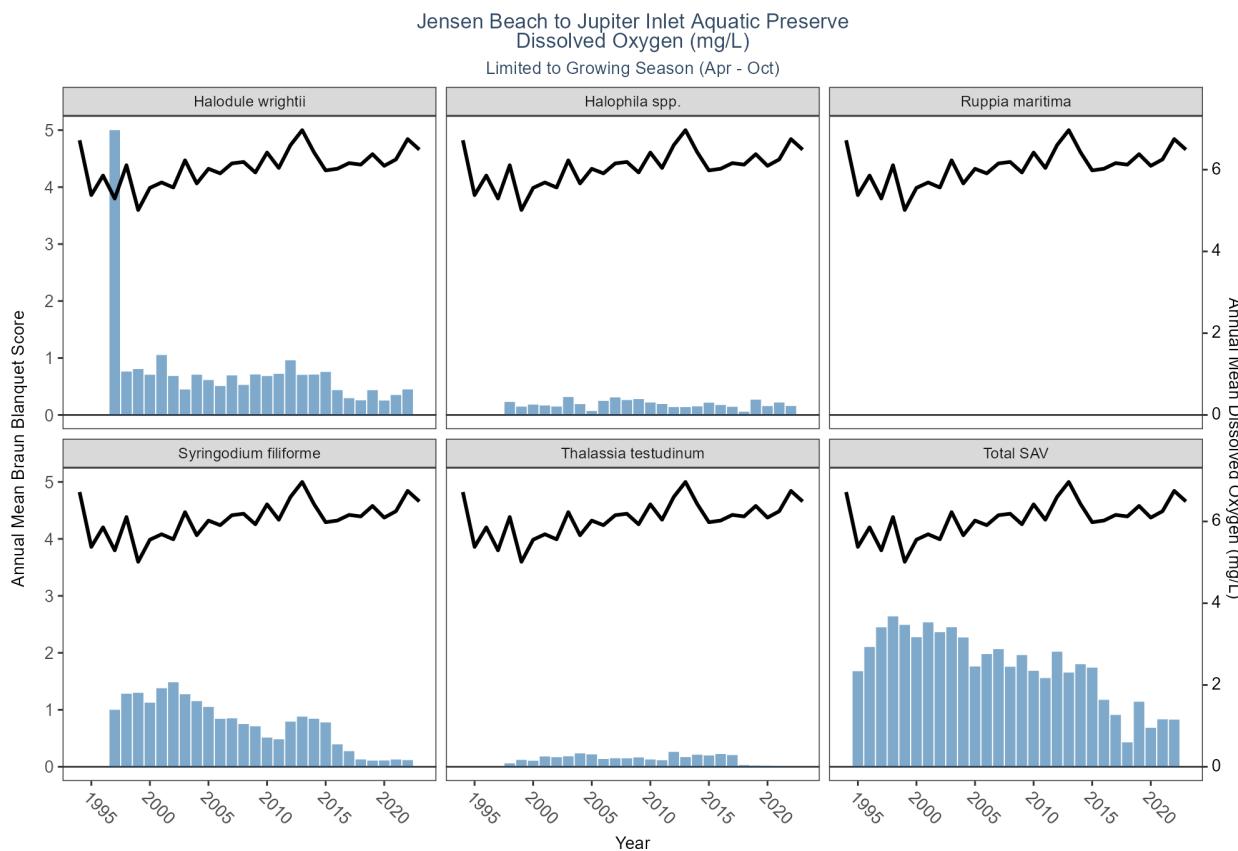


Table 327: WQ Summary for Dissolved Oxygen in Jensen Beach to Jupiter Inlet Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	1994	6.719	6.700	5.55	7.90	0.670
Dissolved Oxygen	1995	5.378	5.600	3.20	7.50	1.228
Dissolved Oxygen	1996	5.856	6.000	1.80	7.45	0.941
Dissolved Oxygen	1997	5.294	5.700	2.00	8.14	1.342
Dissolved Oxygen	1998	6.109	6.100	1.70	14.90	1.504
Dissolved Oxygen	1999	5.013	5.350	1.00	9.80	1.575
Dissolved Oxygen	2000	5.554	5.700	1.30	10.80	1.353
Dissolved Oxygen	2001	5.687	5.900	1.40	9.77	1.456
Dissolved Oxygen	2002	5.563	5.640	2.20	10.22	1.209
Dissolved Oxygen	2003	6.229	6.200	1.90	17.40	1.762
Dissolved Oxygen	2004	5.663	5.850	1.90	10.10	1.522
Dissolved Oxygen	2005	6.021	6.000	2.10	18.60	1.591
Dissolved Oxygen	2006	5.909	6.000	2.30	9.20	0.937
Dissolved Oxygen	2007	6.153	6.000	2.10	13.00	1.565
Dissolved Oxygen	2008	6.189	6.245	2.95	13.20	1.326
Dissolved Oxygen	2009	5.931	5.890	2.12	12.90	1.495
Dissolved Oxygen	2010	6.419	6.180	4.00	10.50	1.224
Dissolved Oxygen	2011	6.042	5.900	2.10	11.70	1.281
Dissolved Oxygen	2012	6.600	6.330	4.10	10.30	1.377
Dissolved Oxygen	2013	6.967	6.560	3.60	14.00	1.626
Dissolved Oxygen	2014	6.427	6.245	3.00	13.20	1.585
Dissolved Oxygen	2015	5.981	5.995	2.10	9.20	1.076
Dissolved Oxygen	2016	6.022	6.110	1.90	8.20	0.949
Dissolved Oxygen	2017	6.161	6.100	2.80	8.60	1.007
Dissolved Oxygen	2018	6.123	6.225	1.70	10.70	1.409
Dissolved Oxygen	2019	6.380	6.400	4.20	9.40	0.861
Dissolved Oxygen	2020	6.094	6.100	3.80	8.40	0.830
Dissolved Oxygen	2021	6.250	6.220	1.20	10.50	0.794
Dissolved Oxygen	2022	6.748	6.690	5.11	9.40	0.822
Dissolved Oxygen	2023	6.490	6.165	4.66	10.20	1.058
Dissolved Oxygen	2024	6.782	6.890	6.17	7.43	0.296

Programs contributing WQ Data:

Table 328: Programs contributing WQ data for Dissolved Oxygen in Jensen Beach to Jupiter Inlet Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	1998	2022	2322
Dissolved Oxygen	95	2009	2018	36
Dissolved Oxygen	103	2021	2021	171
Dissolved Oxygen	115	1994	1995	20
Dissolved Oxygen	118	2021	2021	16
Dissolved Oxygen	3001	1993	2023	1102
Dissolved Oxygen	5002	1991	2024	2557
Dissolved Oxygen	10000	1991	2024	281

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
 95 - Harmful Algal Bloom Marine Observation Network
 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
 115 - Environmental Monitoring Assessment Program
 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
 3001 - Lagoon Watch (Formerly Marine Discovery Center)
 5002 - Florida STORET / WIN
 10000 - RiverKeeper

Dissolved Oxygen Saturation

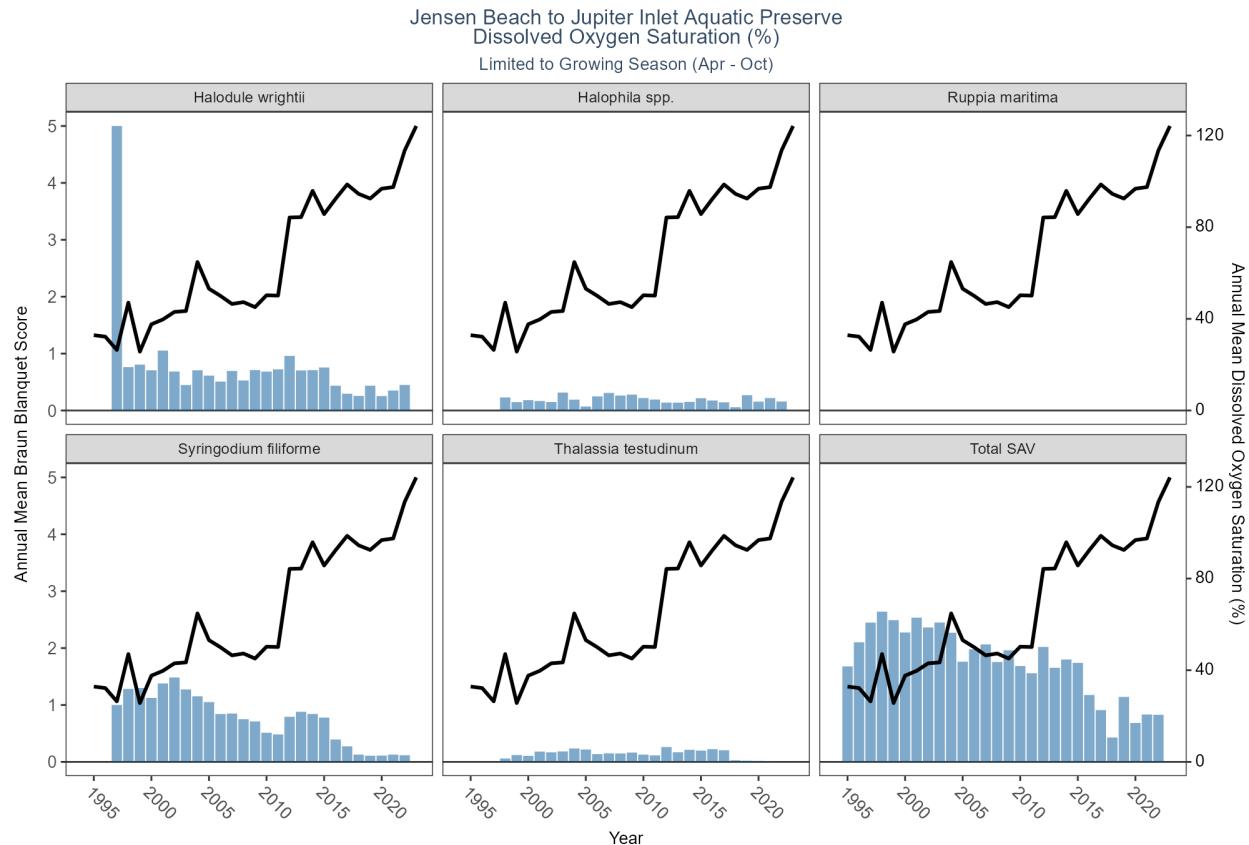


Table 329: WQ Summary for Dissolved Oxygen Saturation in Jensen Beach to Jupiter Inlet Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	1995	32.869	0.897	0.458	106.700	40.229
Dissolved Oxygen Saturation	1996	32.219	0.935	0.259	116.000	43.878
Dissolved Oxygen Saturation	1997	26.414	0.924	0.295	109.300	38.114
Dissolved Oxygen Saturation	1998	47.064	57.500	0.358	103.200	43.493
Dissolved Oxygen Saturation	1999	25.680	0.911	0.258	116.000	34.504
Dissolved Oxygen Saturation	2000	37.634	1.310	0.451	100.000	41.159
Dissolved Oxygen Saturation	2001	39.732	1.336	0.310	133.000	42.650
Dissolved Oxygen Saturation	2002	43.017	49.000	0.525	109.000	40.438
Dissolved Oxygen Saturation	2003	43.409	43.500	0.534	124.000	42.390
Dissolved Oxygen Saturation	2004	64.795	75.500	0.708	103.000	33.181

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2005	53.136	68.800	0.470	113.100	38.917
Dissolved Oxygen Saturation	2006	50.018	73.900	0.678	99.000	41.522
Dissolved Oxygen Saturation	2007	46.487	62.691	0.481	121.330	41.052
Dissolved Oxygen Saturation	2008	47.293	62.235	0.456	129.212	43.866
Dissolved Oxygen Saturation	2009	45.103	60.002	0.338	140.412	41.096
Dissolved Oxygen Saturation	2010	50.282	72.419	0.609	104.100	42.749
Dissolved Oxygen Saturation	2011	50.132	73.017	0.621	105.200	42.436
Dissolved Oxygen Saturation	2012	84.235	87.300	58.870	103.000	11.688
Dissolved Oxygen Saturation	2013	84.362	90.600	50.550	104.900	15.500
Dissolved Oxygen Saturation	2014	95.852	98.100	51.200	103.000	10.137
Dissolved Oxygen Saturation	2015	85.708	91.700	0.818	102.200	23.961
Dissolved Oxygen Saturation	2016	92.411	94.700	69.600	99.700	8.010
Dissolved Oxygen Saturation	2017	98.645	99.900	92.600	102.700	3.837
Dissolved Oxygen Saturation	2018	94.514	98.050	76.000	103.100	9.202
Dissolved Oxygen Saturation	2019	92.493	97.050	74.200	101.400	9.286
Dissolved Oxygen Saturation	2020	96.798	97.900	81.100	106.800	6.503
Dissolved Oxygen Saturation	2021	97.486	98.800	60.300	119.300	10.127
Dissolved Oxygen Saturation	2022	113.518	103.550	90.300	157.200	18.758
Dissolved Oxygen Saturation	2023	124.152	123.800	76.500	167.600	25.325
Dissolved Oxygen Saturation	2024	103.600	103.600	103.600	103.600	NA

Programs contributing WQ Data:

Table 330: Programs contributing WQ data for Dissolved Oxygen Saturation in Jensen Beach to Jupiter Inlet Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	3001	1993	2023	1085
Dissolved Oxygen Saturation	5002	1995	2019	1112
Dissolved Oxygen Saturation	10000	1995	2024	272

WQ Program names:

3001 - Lagoon Watch (Formerly Marine Discovery Center)

5002 - Florida STORET / WIN

10000 - RiverKeeper

pH

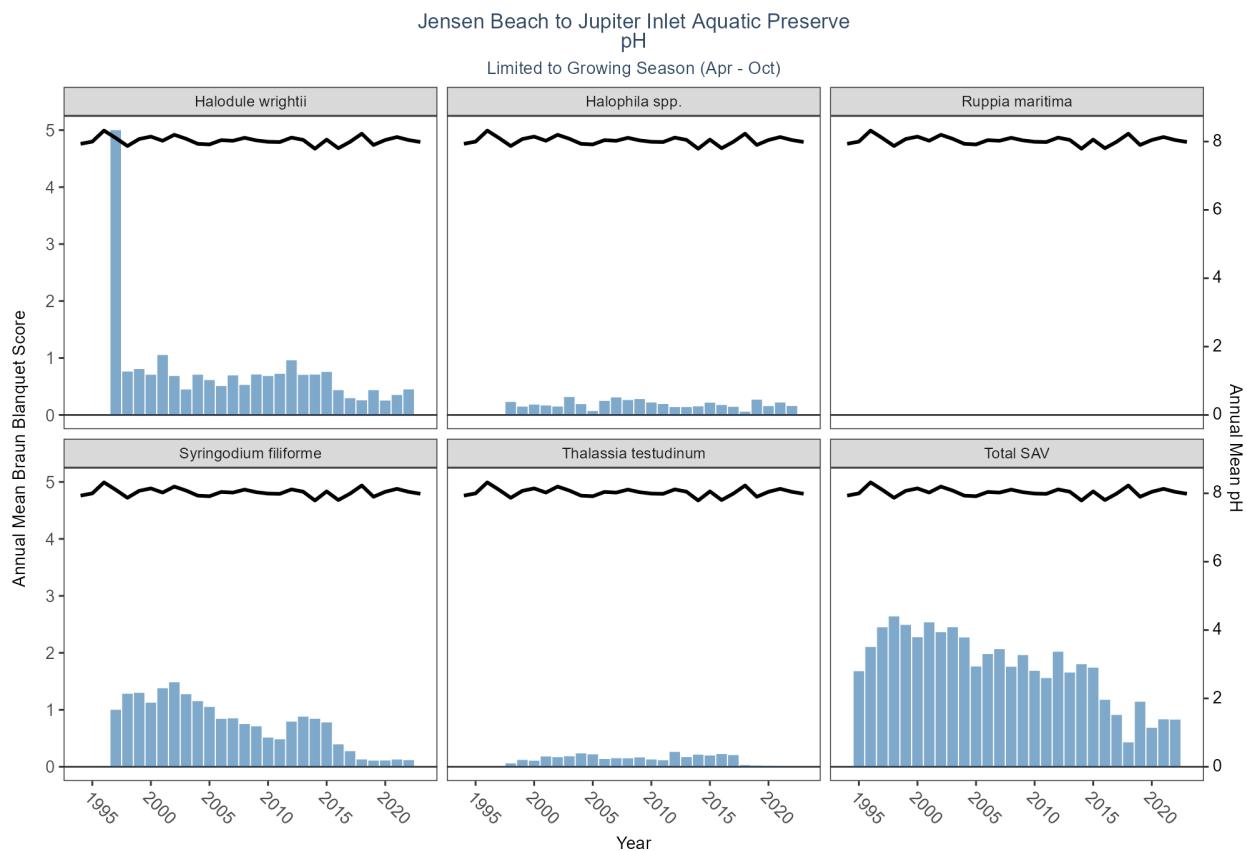


Table 331: WQ Summary for pH in Jensen Beach to Jupiter Inlet Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	1994	7.933	7.900	7.76	8.21	0.144
pH	1995	7.998	8.000	7.26	8.60	0.270
pH	1996	8.321	8.300	7.79	8.70	0.186
pH	1997	8.103	8.100	7.61	8.70	0.272
pH	1998	7.869	7.975	6.50	9.60	0.706
pH	1999	8.074	8.000	7.10	9.20	0.479
pH	2000	8.144	8.100	7.39	9.50	0.353
pH	2001	8.023	8.030	6.10	8.80	0.324
pH	2002	8.198	8.200	6.68	9.20	0.364
pH	2003	8.082	8.090	7.40	8.70	0.196
pH	2004	7.933	8.100	5.20	8.60	0.679
pH	2005	7.915	7.940	7.10	8.30	0.217
pH	2006	8.041	8.040	7.50	8.60	0.204
pH	2007	8.022	8.010	6.90	8.70	0.229
pH	2008	8.109	8.100	6.50	8.90	0.318
pH	2009	8.033	8.100	7.40	8.80	0.260
pH	2010	7.993	8.000	7.70	8.40	0.128
pH	2011	7.986	8.000	7.20	8.40	0.165
pH	2012	8.115	8.100	7.60	8.70	0.195

ParameterName	Year	mean	median	min	max	sd
pH	2013	8.048	8.040	7.70	8.60	0.166
pH	2014	7.790	7.900	6.20	8.50	0.337
pH	2015	8.057	8.000	7.30	8.60	0.243
pH	2016	7.804	7.870	7.20	8.30	0.254
pH	2017	7.992	8.000	7.67	8.48	0.155
pH	2018	8.229	8.100	7.41	10.90	0.750
pH	2019	7.900	7.900	7.50	8.30	0.146
pH	2020	8.045	8.000	7.50	8.90	0.260
pH	2021	8.131	8.060	7.50	8.90	0.256
pH	2022	8.044	8.000	7.60	8.40	0.187
pH	2023	7.987	8.000	7.50	8.40	0.184
pH	2024	7.966	8.000	7.80	8.04	0.072

Programs contributing WQ Data:

Table 332: Programs contributing WQ data for pH in Jensen Beach to Jupiter Inlet Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	1998	2021	2270
pH	95	2009	2018	45
pH	103	2021	2021	171
pH	115	1994	1995	16
pH	118	2021	2021	6
pH	3001	1993	2023	1101
pH	5002	1991	2024	2020
pH	10000	1991	2024	262

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 3001 - Lagoon Watch (Formerly Marine Discovery Center)
- 5002 - Florida STORET / WIN
- 10000 - RiverKeeper

Salinity

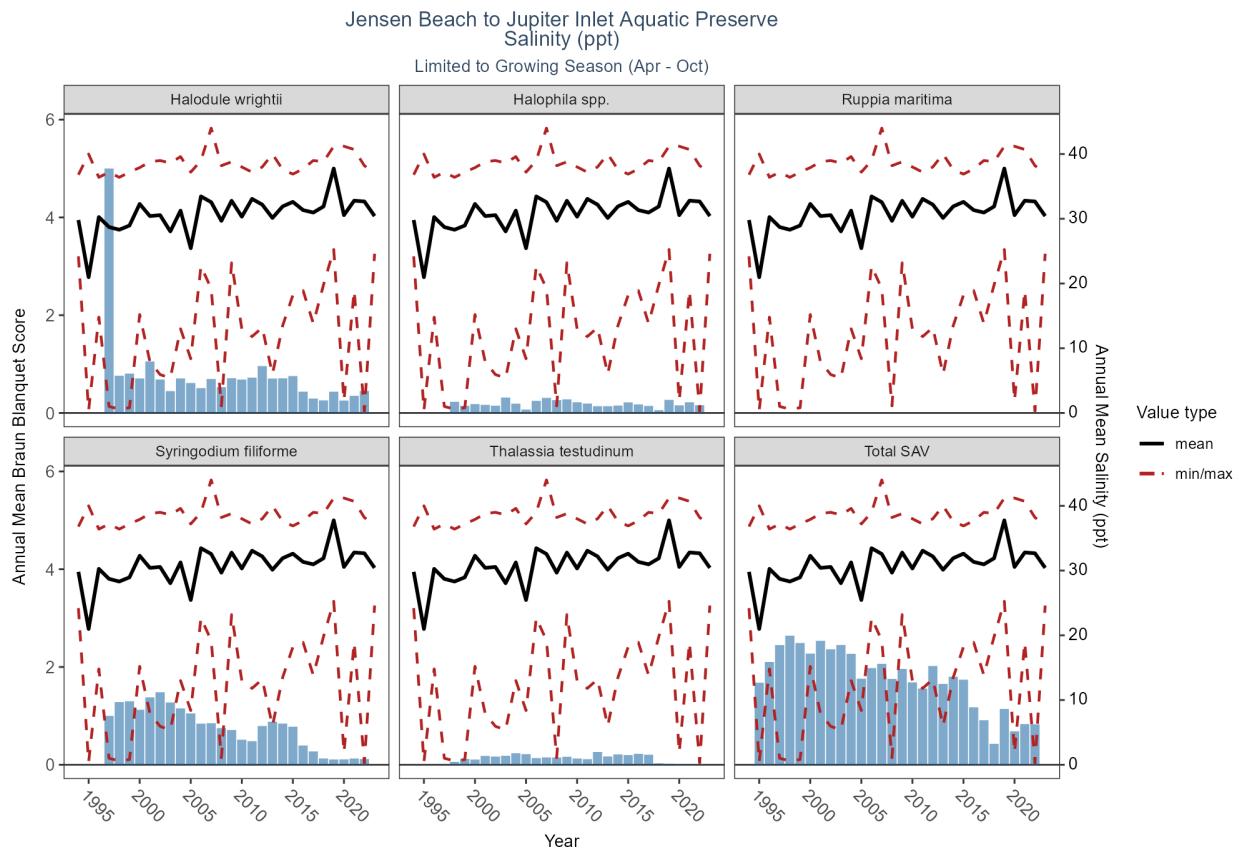


Table 333: WQ Summary for Salinity in Jensen Beach to Jupiter Inlet Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	1994	29.806	30.90	24.20	36.8	4.632
Salinity	1995	20.971	20.80	0.40	40.0	9.120
Salinity	1996	30.263	31.60	14.80	36.4	4.455
Salinity	1997	28.714	30.00	1.00	37.2	5.756
Salinity	1998	28.308	30.20	0.60	36.4	7.016
Salinity	1999	28.955	31.20	0.80	37.2	7.413
Salinity	2000	32.288	33.00	15.20	37.9	3.132
Salinity	2001	30.415	32.40	7.92	38.8	6.581
Salinity	2002	30.559	32.00	5.93	39.0	5.688
Salinity	2003	28.047	29.46	5.40	38.6	6.013
Salinity	2004	31.257	34.20	13.00	39.6	6.604
Salinity	2005	25.449	26.00	8.38	37.2	6.433
Salinity	2006	33.454	34.00	22.69	39.0	2.919
Salinity	2007	32.564	33.40	19.20	44.0	4.206
Salinity	2008	29.674	31.40	1.09	38.2	6.650
Salinity	2009	32.780	33.50	23.20	38.8	3.206
Salinity	2010	30.322	30.30	13.00	38.0	4.303
Salinity	2011	33.072	34.60	11.80	37.2	4.206
Salinity	2012	32.189	33.90	13.20	38.0	4.136

ParameterName	Year	mean	median	min	max	sd
Salinity	2013	30.126	32.05	6.00	40.0	6.434
Salinity	2014	31.911	32.80	13.50	37.6	3.791
Salinity	2015	32.611	33.40	18.20	36.9	3.681
Salinity	2016	31.337	31.95	18.90	37.7	4.697
Salinity	2017	30.962	33.40	13.83	39.0	6.938
Salinity	2018	31.900	32.56	19.80	38.8	4.538
Salinity	2019	37.761	38.90	25.25	41.2	3.301
Salinity	2020	30.560	31.00	1.90	41.2	6.768
Salinity	2021	32.794	33.90	18.90	40.7	3.890
Salinity	2022	32.672	33.50	0.31	38.2	3.893
Salinity	2023	30.416	30.55	24.60	37.1	2.386
Salinity	2024	34.516	35.00	30.50	36.6	1.516

Programs contributing WQ Data:

Table 334: Programs contributing WQ data for Salinity in Jensen Beach to Jupiter Inlet Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	1997	2022	2459
Salinity	95	1996	2018	46
Salinity	115	1994	1995	19
Salinity	118	2021	2021	16
Salinity	3001	1993	2023	1099
Salinity	5002	1991	2024	2448
Salinity	10000	1991	2024	257

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 3001 - Lagoon Watch (Formerly Marine Discovery Center)
- 5002 - Florida STORET / WIN
- 10000 - RiverKeeper

Secchi Depth

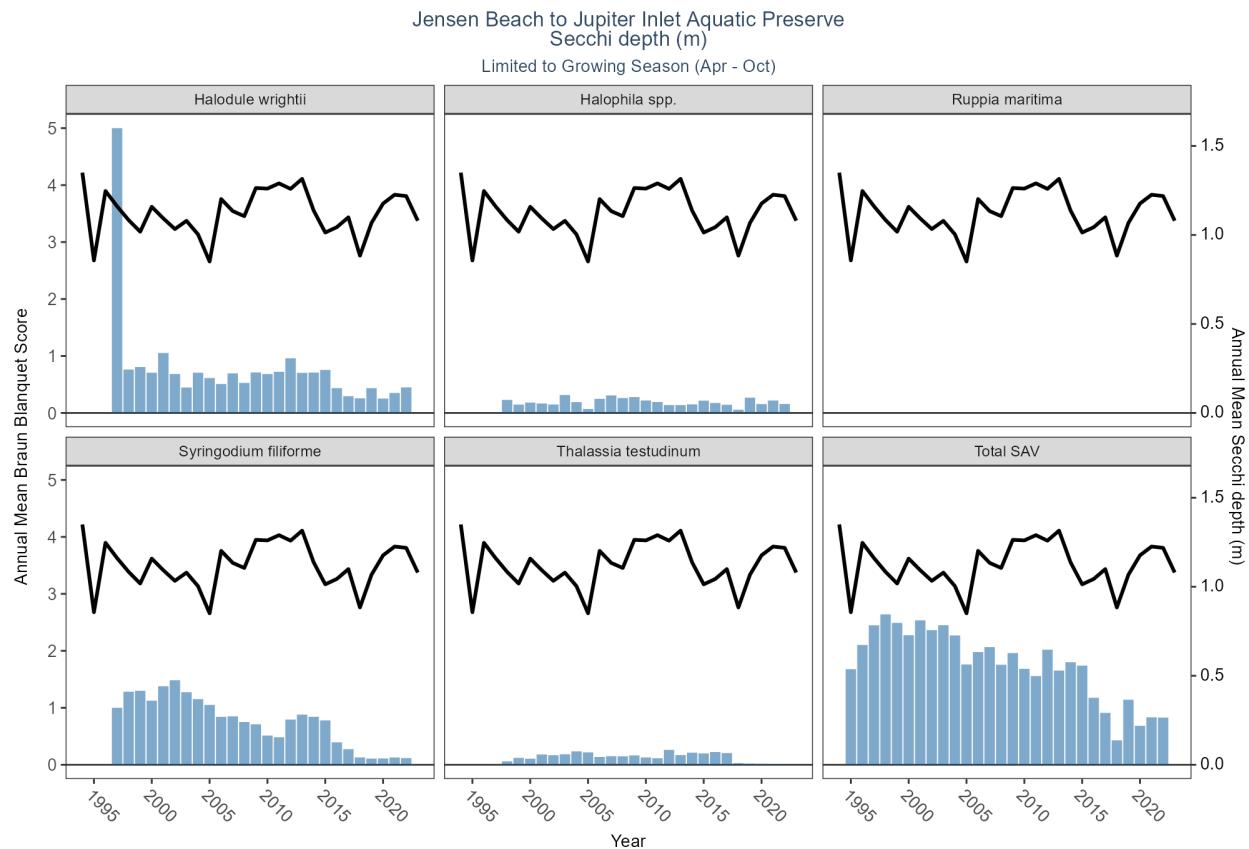


Table 335: WQ Summary for Secchi Depth in Jensen Beach to Jupiter Inlet Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	1994	1.350	1.35	1.10	1.6	0.354
Secchi depth	1995	0.857	0.75	0.20	3.0	0.627
Secchi depth	1996	1.247	1.10	0.30	5.0	0.742
Secchi depth	1997	1.161	1.10	0.60	2.0	0.323
Secchi depth	1998	1.084	1.20	0.20	2.3	0.369
Secchi depth	1999	1.018	1.00	0.20	3.8	0.508
Secchi depth	2000	1.158	1.10	0.40	2.7	0.429
Secchi depth	2001	1.093	1.10	0.10	2.9	0.413
Secchi depth	2002	1.033	1.00	0.30	2.1	0.353
Secchi depth	2003	1.079	1.10	0.10	1.9	0.368
Secchi depth	2004	1.003	1.00	0.20	3.2	0.467
Secchi depth	2005	0.851	0.80	0.20	2.1	0.365
Secchi depth	2006	1.202	1.00	0.40	4.9	0.574
Secchi depth	2007	1.134	1.00	0.20	5.4	0.669
Secchi depth	2008	1.105	1.00	0.10	3.5	0.482
Secchi depth	2009	1.264	1.00	0.50	5.7	0.716
Secchi depth	2010	1.260	1.00	0.30	4.8	0.724
Secchi depth	2011	1.290	1.20	0.40	4.8	0.671
Secchi depth	2012	1.259	1.00	0.10	5.4	0.786

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2013	1.315	1.20	0.20	5.0	0.740
Secchi depth	2014	1.137	1.00	0.30	5.7	0.608
Secchi depth	2015	1.014	0.90	0.30	5.2	0.614
Secchi depth	2016	1.044	0.90	0.30	3.5	0.614
Secchi depth	2017	1.099	0.80	0.40	3.8	0.733
Secchi depth	2018	0.884	0.80	0.40	2.3	0.356
Secchi depth	2019	1.068	1.00	0.30	3.1	0.549
Secchi depth	2020	1.176	1.10	0.40	4.8	0.605
Secchi depth	2021	1.226	1.20	0.20	3.7	0.533
Secchi depth	2022	1.218	1.20	0.20	4.4	0.656
Secchi depth	2023	1.080	1.10	0.25	3.5	0.656
Secchi depth	2024	1.354	1.30	0.80	2.3	0.465

Programs contributing WQ Data:

Table 336: Programs contributing WQ data for Secchi Depth in Jensen Beach to Jupiter Inlet Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	1997	2022	2474
Secchi depth	103	2021	2021	61
Secchi depth	118	2021	2021	2
Secchi depth	3001	1993	2023	759
Secchi depth	5002	2000	2024	370
Secchi depth	10000	1994	2024	98

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

3001 - Lagoon Watch (Formerly Marine Discovery Center)

5002 - Florida STORET / WIN

10000 - RiverKeeper

Total Nitrogen & Total Phosphorus

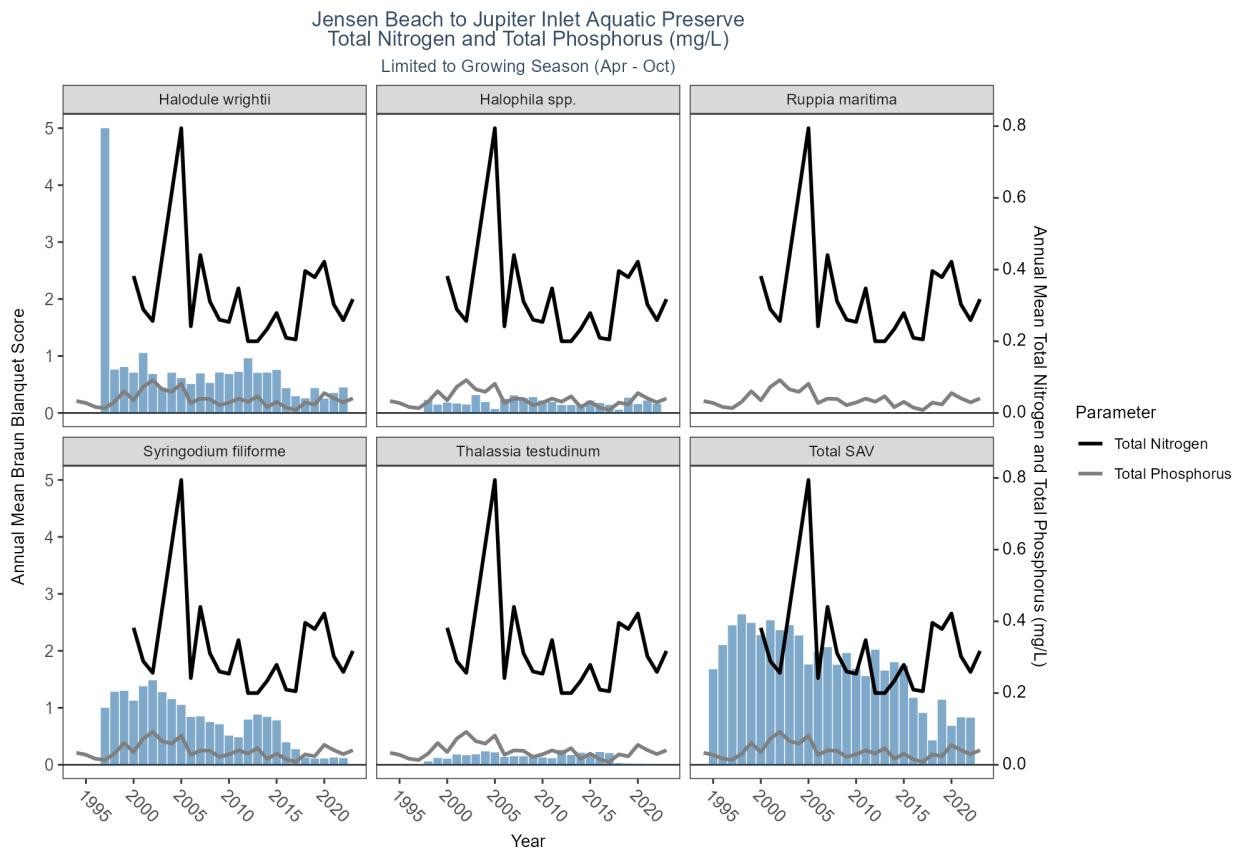


Table 337: WQ Summary for Total Nitrogen & Total Phosphorus in Jensen Beach to Jupiter Inlet Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2000	0.382	0.382	0.382	0.382	NA
Total Nitrogen	2001	0.289	0.297	0.102	0.481	0.107
Total Nitrogen	2002	0.256	0.198	0.051	0.805	0.179
Total Nitrogen	2005	0.794	0.730	0.460	1.260	0.323
Total Nitrogen	2006	0.242	0.200	0.200	0.450	0.102
Total Nitrogen	2007	0.440	0.394	0.200	1.033	0.217
Total Nitrogen	2008	0.311	0.200	0.200	0.690	0.215
Total Nitrogen	2009	0.260	0.200	0.200	0.470	0.119
Total Nitrogen	2010	0.254	0.200	0.200	0.586	0.114
Total Nitrogen	2011	0.348	0.230	0.200	0.710	0.210
Total Nitrogen	2012	0.200	0.200	0.200	0.200	0.000
Total Nitrogen	2013	0.200	0.200	0.200	0.200	0.000
Total Nitrogen	2014	0.234	0.200	0.086	0.440	0.094
Total Nitrogen	2015	0.279	0.200	0.200	0.579	0.118
Total Nitrogen	2016	0.210	0.200	0.200	0.288	0.028
Total Nitrogen	2017	0.205	0.205	0.205	0.205	0.000
Total Nitrogen	2018	0.396	0.405	0.205	0.595	0.125
Total Nitrogen	2019	0.379	0.371	0.205	0.639	0.160
Total Nitrogen	2020	0.422	0.388	0.221	0.855	0.142

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2021	0.302	0.275	0.136	0.573	0.095
Total Nitrogen	2022	0.259	0.252	0.118	0.654	0.090
Total Nitrogen	2023	0.317	0.311	0.205	0.467	0.070
Total Nitrogen	2024	0.245	0.235	0.156	0.413	0.071
Total Phosphorus	1994	0.033	0.025	0.025	0.050	0.013
Total Phosphorus	1995	0.028	0.025	0.025	0.050	0.008
Total Phosphorus	1996	0.017	0.010	0.010	0.030	0.010
Total Phosphorus	1997	0.013	0.010	0.010	0.030	0.007
Total Phosphorus	1998	0.031	0.030	0.016	0.048	0.011
Total Phosphorus	1999	0.061	0.032	0.005	0.281	0.081
Total Phosphorus	2000	0.036	0.032	0.006	0.106	0.029
Total Phosphorus	2001	0.073	0.089	0.004	0.150	0.048
Total Phosphorus	2002	0.092	0.091	0.005	0.339	0.071
Total Phosphorus	2003	0.066	0.028	0.009	0.341	0.085
Total Phosphorus	2004	0.059	0.022	0.002	0.279	0.087
Total Phosphorus	2005	0.081	0.056	0.012	0.274	0.082
Total Phosphorus	2006	0.028	0.016	0.005	0.067	0.025
Total Phosphorus	2007	0.040	0.028	0.002	0.150	0.032
Total Phosphorus	2008	0.039	0.010	0.002	0.228	0.063
Total Phosphorus	2009	0.022	0.016	0.004	0.086	0.023
Total Phosphorus	2010	0.029	0.016	0.007	0.100	0.027
Total Phosphorus	2011	0.040	0.024	0.006	0.218	0.054
Total Phosphorus	2012	0.031	0.016	0.007	0.183	0.043
Total Phosphorus	2013	0.046	0.018	0.008	0.189	0.056
Total Phosphorus	2014	0.016	0.012	0.004	0.066	0.015
Total Phosphorus	2015	0.031	0.026	0.006	0.107	0.026
Total Phosphorus	2016	0.015	0.013	0.008	0.045	0.011
Total Phosphorus	2017	0.008	0.006	0.005	0.015	0.004
Total Phosphorus	2018	0.029	0.016	0.010	0.075	0.024
Total Phosphorus	2019	0.024	0.013	0.005	0.055	0.021
Total Phosphorus	2020	0.055	0.051	0.005	0.149	0.032
Total Phosphorus	2021	0.041	0.040	0.008	0.089	0.017
Total Phosphorus	2022	0.030	0.031	0.007	0.053	0.012
Total Phosphorus	2023	0.040	0.042	0.007	0.070	0.014
Total Phosphorus	2024	0.026	0.026	0.009	0.049	0.011

Programs contributing WQ Data:

Table 338: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Jensen Beach to Jupiter Inlet Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	118	2010	2010	2
Total Nitrogen	5002	2000	2024	335
Total Nitrogen	10000	2005	2019	44
Total Phosphorus	103	2021	2021	60
Total Phosphorus	5002	1991	2024	516
Total Phosphorus	10000	1991	2024	109

WQ Program names:

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

5002 - Florida STORET / WIN

10000 - RiverKeeper

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

Total Suspended Solids

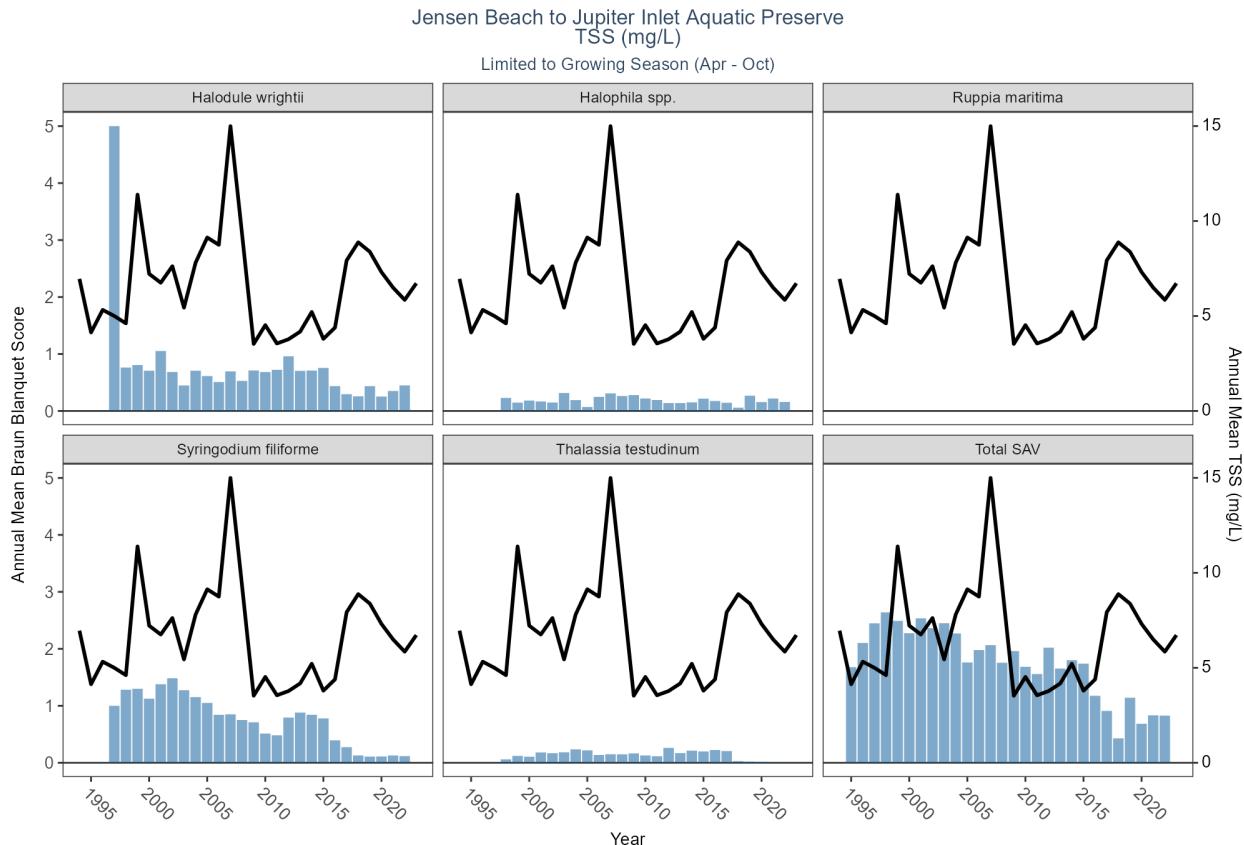


Table 339: WQ Summary for Total Suspended Solids in Jensen Beach to Jupiter Inlet Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	1994	6.956	8.00	2.8	8.6	2.032
TSS	1995	4.133	4.00	2.8	9.0	1.905
TSS	1996	5.322	3.20	2.4	11.0	3.719
TSS	1997	5.000	4.60	2.6	8.0	1.938
TSS	1998	4.611	5.00	2.6	6.0	1.502
TSS	1999	11.390	8.00	4.0	36.0	8.771
TSS	2000	7.219	6.20	3.0	22.5	4.530
TSS	2001	6.752	4.40	2.6	22.5	5.582
TSS	2002	7.621	5.30	3.0	23.0	5.687
TSS	2003	5.440	4.00	3.0	16.0	3.261
TSS	2004	7.809	4.00	3.0	35.0	7.478
TSS	2005	9.133	5.00	2.8	45.0	11.485
TSS	2006	8.748	6.40	4.0	22.0	5.328
TSS	2007	14.996	11.00	2.4	110.0	15.764
TSS	2008	9.309	4.00	1.0	39.0	10.631

ParameterName	Year	mean	median	min	max	sd
TSS	2009	3.529	3.00	1.0	14.0	2.839
TSS	2010	4.519	3.00	1.0	10.1	2.762
TSS	2011	3.552	3.00	1.0	9.0	2.331
TSS	2012	3.776	3.70	1.5	7.0	1.388
TSS	2013	4.176	4.00	2.7	10.0	1.729
TSS	2014	5.213	4.00	2.6	22.0	4.362
TSS	2015	3.795	4.00	1.9	7.0	1.198
TSS	2016	4.391	3.90	2.9	6.8	1.578
TSS	2017	7.925	8.75	4.2	10.9	2.678
TSS	2018	8.880	7.00	5.8	14.1	3.221
TSS	2019	8.380	7.05	3.7	14.1	3.961
TSS	2020	7.312	7.50	3.6	11.0	2.124
TSS	2021	6.493	6.00	3.0	14.0	2.492
TSS	2022	5.849	5.00	3.0	15.0	3.046
TSS	2023	6.722	6.10	3.0	16.0	2.912
TSS	2024	6.485	4.00	3.0	21.0	4.990

Programs contributing WQ Data:

Table 340: Programs contributing WQ data for Total Susepended Solids in Jensen Beach to Jupiter Inlet Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	103	2021	2021	60
TSS	5002	1994	2024	603
TSS	10000	1994	2024	102

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

5002 - Florida STORET / WIN

10000 - RiverKeeper

Turbidity

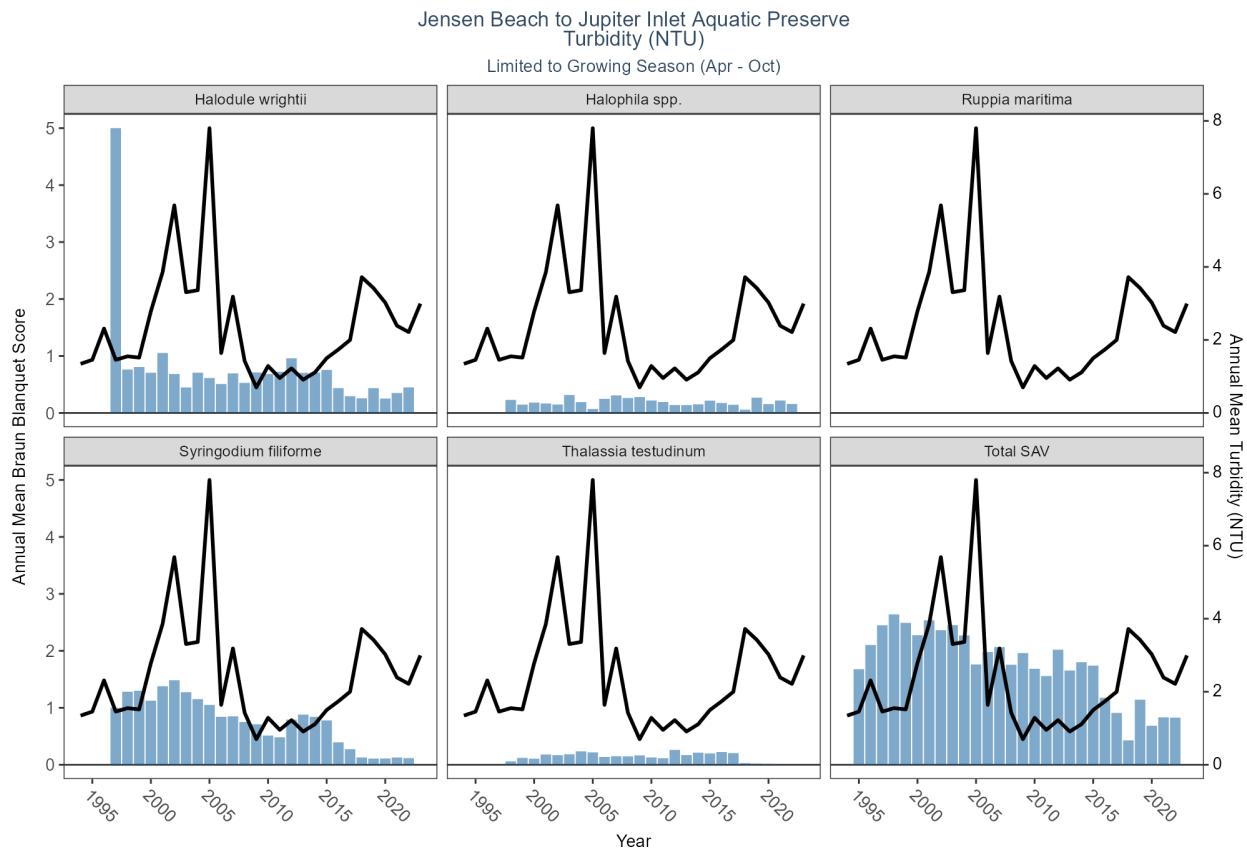


Table 341: WQ Summary for Turbidity in Jensen Beach to Jupiter Inlet Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	1994	1.346	0.71	0.40	3.20	1.216
Turbidity	1995	1.456	1.20	1.00	2.00	0.433
Turbidity	1996	2.311	1.60	1.10	5.40	1.596
Turbidity	1997	1.456	1.30	0.90	2.10	0.450
Turbidity	1998	1.551	1.18	1.00	2.80	0.665
Turbidity	1999	1.517	1.14	0.66	3.96	1.051
Turbidity	2000	2.785	1.74	0.96	8.00	2.181
Turbidity	2001	3.859	1.74	1.31	9.53	3.383
Turbidity	2002	5.688	4.00	1.21	33.00	5.963
Turbidity	2003	3.307	3.36	2.39	4.19	0.621
Turbidity	2004	3.362	1.50	1.00	7.94	2.839
Turbidity	2005	7.801	3.48	1.72	24.70	9.660
Turbidity	2006	1.640	1.36	0.80	3.37	0.926
Turbidity	2007	3.187	2.60	0.29	9.20	2.153
Turbidity	2008	1.426	1.03	0.83	2.32	0.642
Turbidity	2009	0.700	0.63	0.26	1.33	0.450
Turbidity	2010	1.287	0.98	0.24	2.70	0.926
Turbidity	2011	0.956	0.80	0.40	2.50	0.652
Turbidity	2012	1.222	1.10	1.00	1.70	0.254

ParameterName	Year	mean	median	min	max	sd
Turbidity	2013	0.911	1.00	0.40	1.80	0.518
Turbidity	2014	1.111	1.00	0.50	2.70	0.645
Turbidity	2015	1.500	1.50	0.10	2.80	1.002
Turbidity	2016	1.738	1.50	0.60	3.41	1.073
Turbidity	2017	2.000	0.80	0.40	5.40	2.166
Turbidity	2018	3.720	2.70	1.90	8.90	2.296
Turbidity	2019	3.420	1.80	0.90	7.60	2.677
Turbidity	2020	3.023	2.95	0.60	5.70	1.197
Turbidity	2021	2.390	2.00	0.90	8.40	1.215
Turbidity	2022	2.215	1.80	0.30	6.60	1.447
Turbidity	2023	2.995	2.90	0.70	7.70	1.486
Turbidity	2024	4.246	3.80	1.80	11.40	2.525

Programs contributing WQ Data:

Table 342: Programs contributing WQ data for Turbidity in Jensen Beach to Jupiter Inlet Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	103	2021	2021	60
Turbidity	5002	1991	2024	403
Turbidity	10000	1991	2024	110

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

5002 - Florida STORET / WIN

10000 - RiverKeeper

Water Temperature

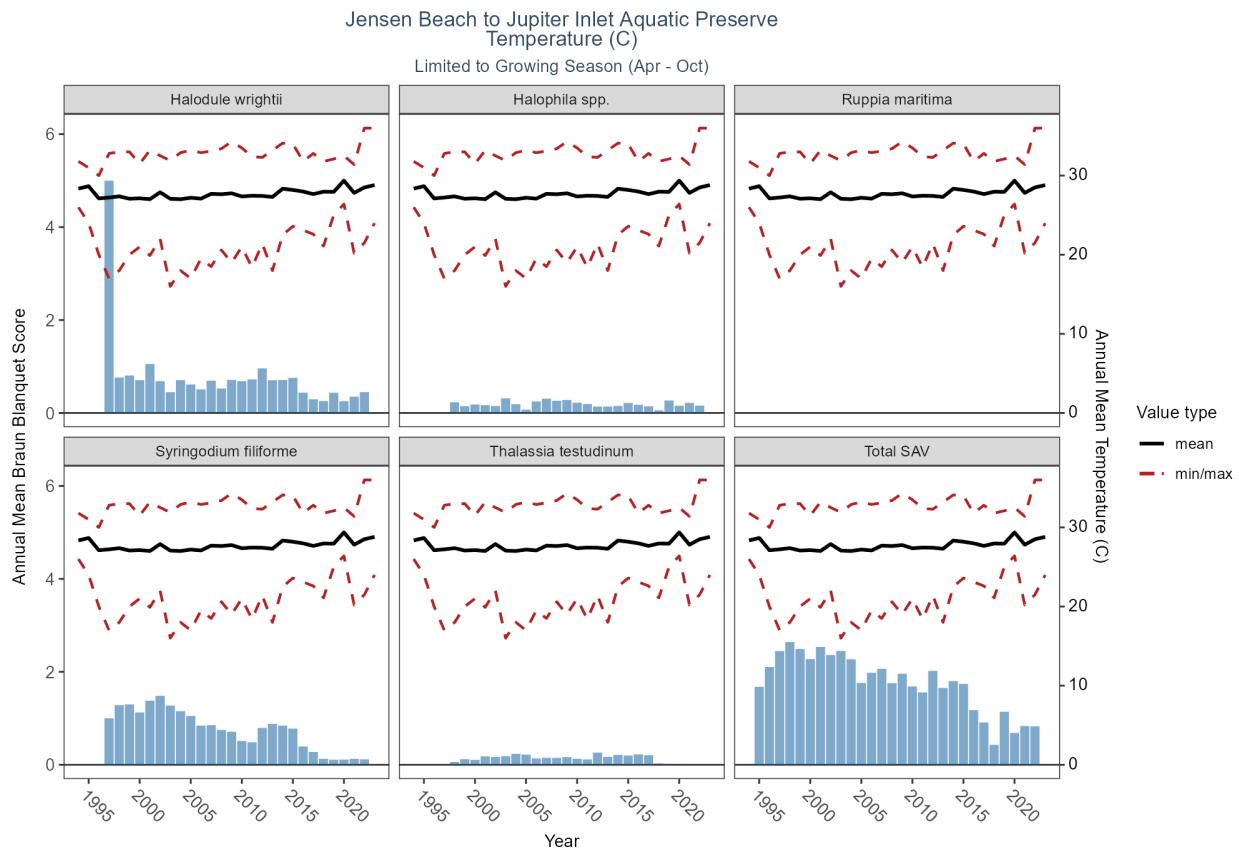


Table 343: WQ Summary for Water Temperature in Jensen Beach to Jupiter Inlet Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	1994	28.353	28.600	26.00	31.80	1.415
Temperature	1995	28.665	29.000	24.00	31.00	1.614
Temperature	1996	27.117	27.500	20.00	30.00	2.205
Temperature	1997	27.229	27.875	17.00	32.80	2.767
Temperature	1998	27.378	27.500	18.00	33.00	2.763
Temperature	1999	27.077	27.000	20.00	33.00	2.320
Temperature	2000	27.131	28.000	21.00	31.50	2.710
Temperature	2001	27.020	27.300	19.90	33.20	2.932
Temperature	2002	27.891	28.000	22.00	32.51	1.900
Temperature	2003	27.069	27.700	16.00	31.90	2.778
Temperature	2004	27.016	26.900	18.00	32.90	2.799
Temperature	2005	27.201	27.470	17.00	33.20	2.883
Temperature	2006	27.087	27.500	19.50	32.90	2.785
Temperature	2007	27.696	28.300	18.50	33.10	3.140
Temperature	2008	27.645	28.000	20.60	33.40	2.731
Temperature	2009	27.765	28.400	19.00	34.30	2.719
Temperature	2010	27.365	27.800	21.00	33.50	2.899
Temperature	2011	27.454	28.000	18.40	32.40	2.647
Temperature	2012	27.431	28.200	21.40	32.30	2.417

ParameterName	Year	mean	median	min	max	sd
Temperature	2013	27.304	27.100	18.00	33.20	2.309
Temperature	2014	28.343	28.450	22.50	34.10	2.300
Temperature	2015	28.189	28.300	23.60	34.00	2.411
Temperature	2016	27.985	28.600	23.10	31.80	2.620
Temperature	2017	27.663	28.100	22.60	32.80	2.055
Temperature	2018	27.967	28.200	21.10	31.80	2.506
Temperature	2019	27.946	27.700	25.00	32.10	1.550
Temperature	2020	29.367	29.300	26.40	32.50	1.320
Temperature	2021	27.815	28.100	20.20	31.40	2.055
Temperature	2022	28.506	28.900	21.50	36.00	2.685
Temperature	2023	28.801	29.100	23.99	36.00	2.559
Temperature	2024	24.350	24.200	22.80	26.70	1.507

Programs contributing WQ Data:

Table 344: Programs contributing WQ data for Water Temperature in Jensen Beach to Jupiter Inlet Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	1997	2022	2471
Temperature	95	2009	2018	48
Temperature	103	2021	2021	112
Temperature	115	1994	1995	16
Temperature	118	2021	2021	12
Temperature	3001	1993	2023	1105
Temperature	5002	1991	2024	2575
Temperature	10000	1991	2019	111

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 3001 - Lagoon Watch (Formerly Marine Discovery Center)
- 5002 - Florida STORET / WIN
- 10000 - RiverKeeper

Lemon Bay Aquatic Preserve

Programs contributing SAV Data:

Table 345: Programs contributing SAV data in Lemon Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Braun Blanquet Score	570	1998	2023	2113
Percent Cover	568	2007	2022	716

SAV Program names:

570 - Charlotte Harbor Seagrass Monitoring

568 - Sarasota County Seagrass Monitoring

Chlorophyll-a (corrected & uncorrected)

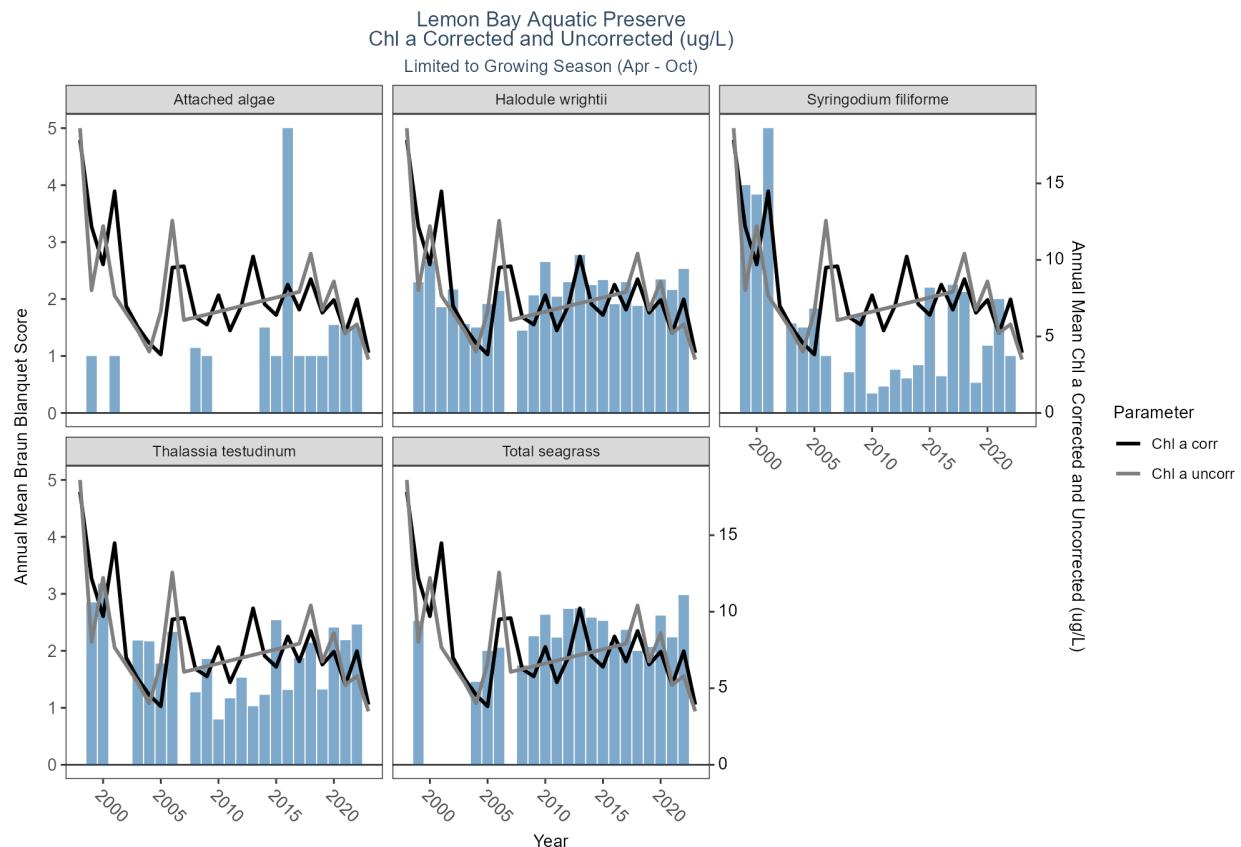


Table 346: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Lemon Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	1998	17.837	19.200	2.700	29.100	6.786
Chl a corr	1999	12.173	10.550	0.700	40.200	8.146
Chl a corr	2000	9.703	9.050	2.300	27.400	6.030

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2001	14.483	11.150	1.000	47.000	13.576
Chl a corr	2002	6.997	6.000	1.000	12.000	3.937
Chl a corr	2003	5.626	4.505	2.330	12.300	3.510
Chl a corr	2004	4.570	4.880	1.000	10.100	2.658
Chl a corr	2005	3.819	3.335	1.000	8.680	2.659
Chl a corr	2006	9.500	6.500	2.000	27.000	6.643
Chl a corr	2007	9.586	9.000	0.850	25.000	6.583
Chl a corr	2008	6.266	5.300	1.600	21.000	3.946
Chl a corr	2009	5.773	4.500	1.700	22.000	4.288
Chl a corr	2010	7.694	6.700	1.400	20.000	4.271
Chl a corr	2011	5.388	4.800	0.880	14.000	2.944
Chl a corr	2012	7.033	6.700	2.600	18.000	3.405
Chl a corr	2013	10.224	6.500	1.100	35.000	9.095
Chl a corr	2014	7.112	4.650	1.900	27.000	6.457
Chl a corr	2015	6.400	5.550	2.400	18.000	3.643
Chl a corr	2016	8.385	6.370	2.110	25.000	5.575
Chl a corr	2017	6.749	4.450	1.500	52.000	9.242
Chl a corr	2018	8.745	5.650	1.850	35.400	8.161
Chl a corr	2019	6.544	5.600	1.600	15.000	3.733
Chl a corr	2020	7.388	6.200	3.600	15.000	3.937
Chl a corr	2021	5.228	4.400	1.200	17.000	3.554
Chl a corr	2022	7.421	4.300	1.200	62.000	13.502
Chl a corr	2023	3.929	3.500	0.820	10.000	2.633
Chl a corr	2024	5.340	5.350	1.400	11.000	3.106
Chl a uncorr	1998	18.609	15.300	6.150	30.300	9.302
Chl a uncorr	1999	8.019	8.110	1.000	24.030	5.405
Chl a uncorr	2000	12.214	7.955	1.000	79.460	18.106
Chl a uncorr	2001	7.664	5.600	1.500	20.030	5.972
Chl a uncorr	2003	5.383	5.800	0.800	17.589	3.104
Chl a uncorr	2004	4.006	3.740	1.000	12.000	2.845
Chl a uncorr	2005	6.626	5.230	1.160	24.800	5.769
Chl a uncorr	2006	12.567	4.780	1.160	119.000	21.877
Chl a uncorr	2007	6.066	5.380	1.160	15.900	3.863
Chl a uncorr	2017	7.912	4.860	3.560	14.000	5.134
Chl a uncorr	2018	10.412	7.300	2.500	34.000	9.198
Chl a uncorr	2019	6.739	6.100	1.800	16.000	3.520
Chl a uncorr	2020	8.600	7.700	4.600	16.000	4.028
Chl a uncorr	2021	5.233	4.300	1.060	22.000	3.767
Chl a uncorr	2022	5.792	3.250	0.385	66.000	9.022
Chl a uncorr	2023	3.490	2.200	0.456	13.000	2.943
Chl a uncorr	2024	5.690	5.600	1.300	11.000	3.127

Programs contributing WQ Data:

Table 347: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Lemon Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	476	2008	2024	392
Chl a corr	513	2001	2009	109
Chl a corr	5002	1998	2019	189

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a uncorr	95	2003	2004	11
Chl a uncorr	103	2005	2021	52
Chl a uncorr	476	1998	2024	330
Chl a uncorr	5002	2017	2023	108

WQ Program names:

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

95 - Harmful Algal Bloom Marine Observation Network

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

Dissolved Oxygen

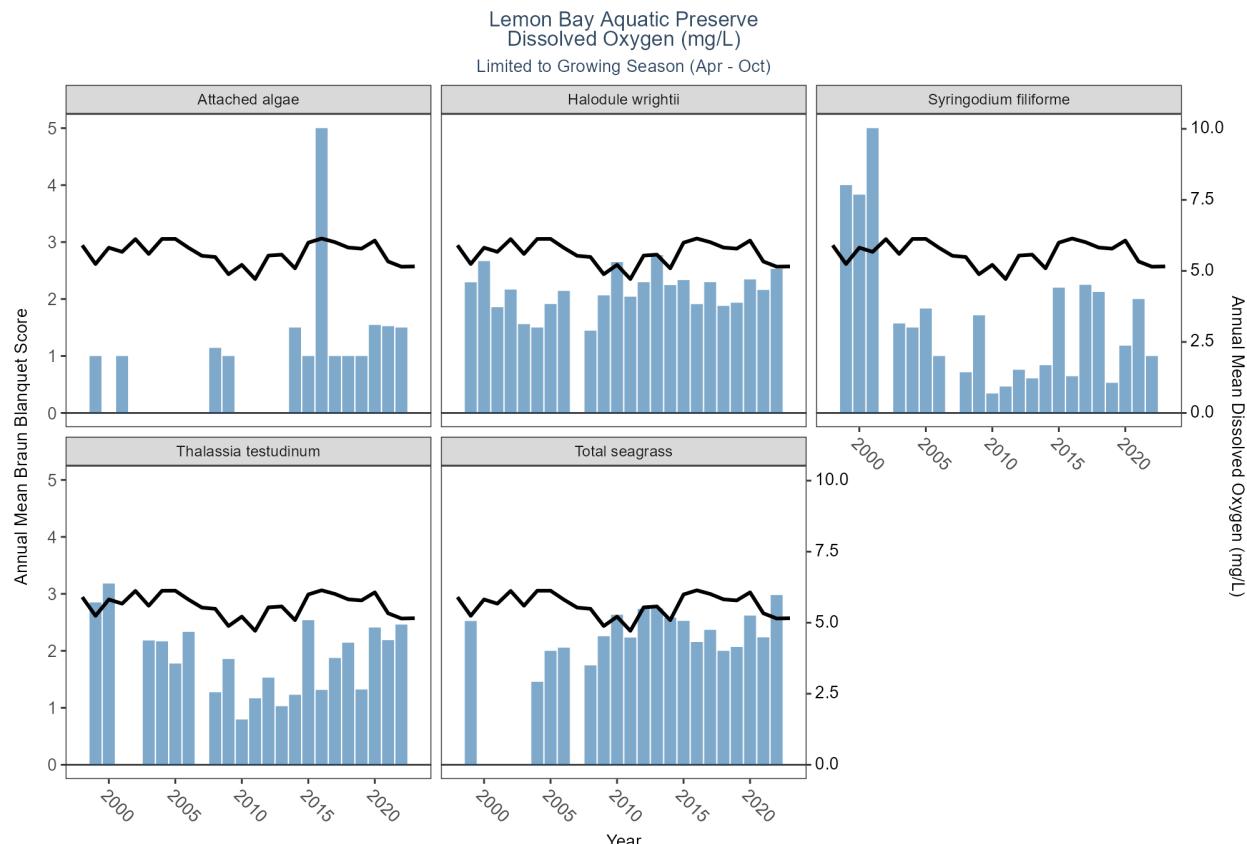


Table 348: WQ Summary for Dissolved Oxygen in Lemon Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	1998	5.902	5.900	1.10	12.00	1.552
Dissolved Oxygen	1999	5.243	5.300	1.10	13.40	1.513
Dissolved Oxygen	2000	5.817	5.800	1.60	9.90	1.170
Dissolved Oxygen	2001	5.670	5.800	0.10	9.90	1.501

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2002	6.118	6.100	1.50	12.90	1.527
Dissolved Oxygen	2003	5.597	5.600	0.40	11.10	1.469
Dissolved Oxygen	2004	6.125	6.245	1.50	10.50	1.375
Dissolved Oxygen	2005	6.126	6.000	0.70	14.60	1.596
Dissolved Oxygen	2006	5.812	5.700	2.00	9.80	1.475
Dissolved Oxygen	2007	5.532	5.430	1.69	12.40	1.587
Dissolved Oxygen	2008	5.490	5.200	0.60	11.00	1.467
Dissolved Oxygen	2009	4.883	4.900	0.20	11.30	1.885
Dissolved Oxygen	2010	5.213	4.800	1.10	11.10	1.769
Dissolved Oxygen	2011	4.714	4.500	1.40	13.00	1.350
Dissolved Oxygen	2012	5.540	5.600	1.30	8.86	1.238
Dissolved Oxygen	2013	5.572	5.800	0.20	11.00	1.966
Dissolved Oxygen	2014	5.091	5.200	1.30	7.70	1.172
Dissolved Oxygen	2015	5.995	6.000	2.50	12.00	1.161
Dissolved Oxygen	2016	6.140	6.200	0.20	11.20	1.450
Dissolved Oxygen	2017	6.013	5.960	1.38	12.60	1.482
Dissolved Oxygen	2018	5.822	5.880	0.85	9.80	1.642
Dissolved Oxygen	2019	5.784	5.760	1.66	10.78	1.613
Dissolved Oxygen	2020	6.068	5.920	2.30	10.86	1.782
Dissolved Oxygen	2021	5.331	5.340	1.54	9.10	1.272
Dissolved Oxygen	2022	5.148	5.240	0.92	9.40	1.590
Dissolved Oxygen	2023	5.158	5.195	2.18	9.40	1.115
Dissolved Oxygen	2024	6.045	6.160	4.14	8.95	0.885

Programs contributing WQ Data:

Table 349: Programs contributing WQ data for Dissolved Oxygen in Lemon Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	1989	2022	570
Dissolved Oxygen	95	1971	2018	371
Dissolved Oxygen	103	2021	2021	130
Dissolved Oxygen	118	2020	2020	4
Dissolved Oxygen	476	1998	2024	527
Dissolved Oxygen	479	2001	2015	528
Dissolved Oxygen	513	2001	2009	255
Dissolved Oxygen	5002	1995	2024	6357

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 479 - Southwest Florida Water Management District - Water Quality Monitoring
- 513 - Coastal Charlotte Harbor Monitoring Network
- 5002 - Florida STORET / WIN

Dissolved Oxygen Saturation

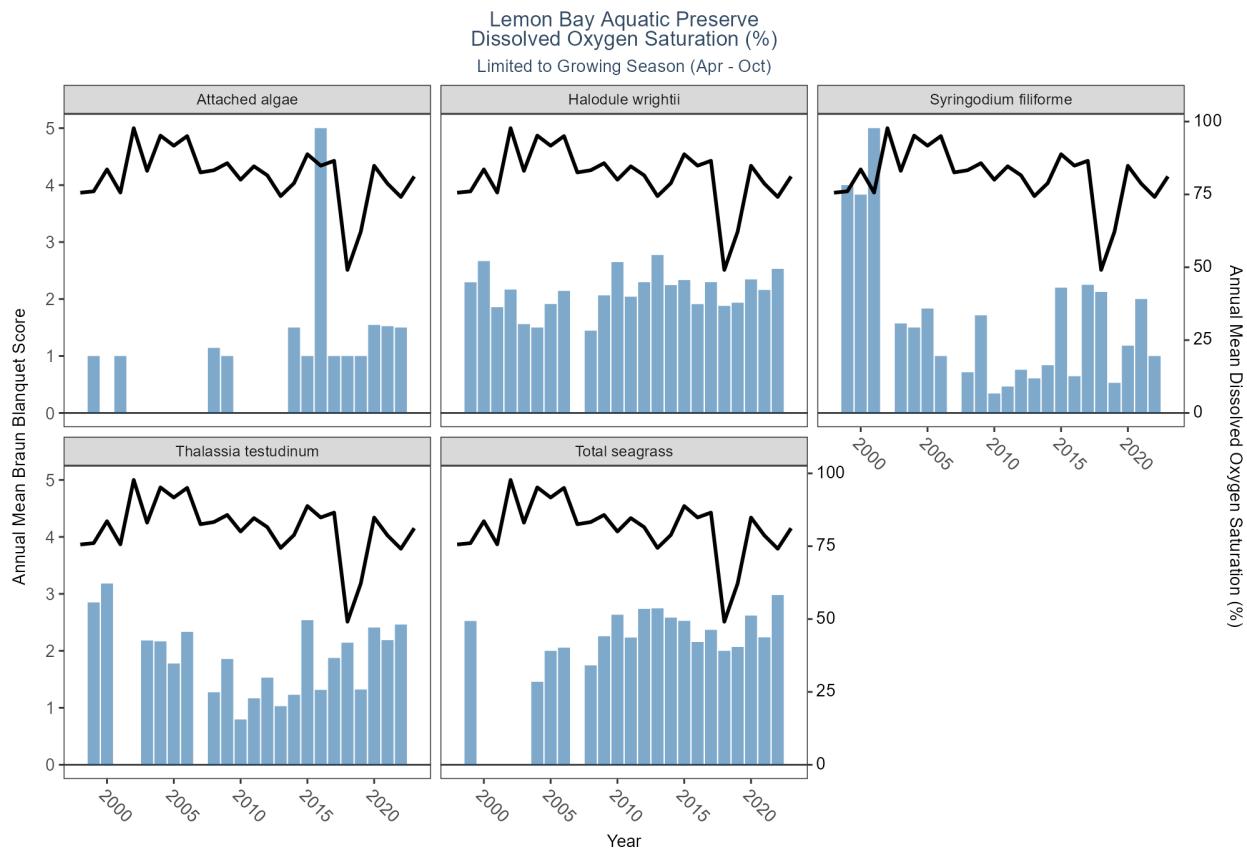


Table 350: WQ Summary for Dissolved Oxygen Saturation in Lemon Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	1998	75.589	76.00	15.0	131.0	20.293
Dissolved Oxygen Saturation	1999	76.052	75.00	18.0	135.0	23.920
Dissolved Oxygen Saturation	2000	83.580	84.00	21.0	114.0	18.044
Dissolved Oxygen Saturation	2001	75.643	80.00	1.0	144.0	25.781
Dissolved Oxygen Saturation	2002	97.744	96.50	35.0	186.0	23.634
Dissolved Oxygen Saturation	2003	83.085	84.00	6.0	126.0	25.079
Dissolved Oxygen Saturation	2004	95.184	96.00	36.0	129.0	15.750
Dissolved Oxygen Saturation	2005	91.711	96.00	11.0	151.0	25.095
Dissolved Oxygen Saturation	2006	95.017	91.00	54.0	158.0	20.243
Dissolved Oxygen Saturation	2007	82.550	85.50	41.0	110.0	15.994
Dissolved Oxygen Saturation	2008	83.292	83.00	9.0	124.0	17.087
Dissolved Oxygen Saturation	2009	85.725	91.00	4.0	140.0	25.946
Dissolved Oxygen Saturation	2010	80.042	82.00	17.0	106.0	15.642
Dissolved Oxygen Saturation	2011	84.650	88.00	44.0	118.0	14.572
Dissolved Oxygen Saturation	2012	81.550	83.00	21.0	111.0	16.806
Dissolved Oxygen Saturation	2013	74.408	80.50	3.0	121.0	23.821
Dissolved Oxygen Saturation	2014	78.858	85.00	19.0	118.0	19.832
Dissolved Oxygen Saturation	2015	88.792	90.00	42.0	123.0	16.607
Dissolved Oxygen Saturation	2016	84.858	88.50	5.0	129.0	21.599

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2017	86.538	86.00	20.0	133.0	21.434
Dissolved Oxygen Saturation	2018	49.090	53.00	12.9	71.9	19.609
Dissolved Oxygen Saturation	2019	62.236	62.75	26.7	100.2	15.848
Dissolved Oxygen Saturation	2020	84.832	85.50	35.8	129.0	26.239
Dissolved Oxygen Saturation	2021	78.695	82.00	21.8	127.0	19.588
Dissolved Oxygen Saturation	2022	74.132	80.70	13.0	125.0	28.862
Dissolved Oxygen Saturation	2023	81.174	83.00	36.2	136.0	17.618
Dissolved Oxygen Saturation	2024	89.203	91.00	60.0	107.0	11.585

Programs contributing WQ Data:

Table 351: Programs contributing WQ data for Dissolved Oxygen Saturation in Lemon Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	95	2005	2018	4
Dissolved Oxygen Saturation	476	2018	2024	103
Dissolved Oxygen Saturation	5002	1998	2024	2873

WQ Program names:

95 - Harmful Algal Bloom Marine Observation Network

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

5002 - Florida STORET / WIN

pH

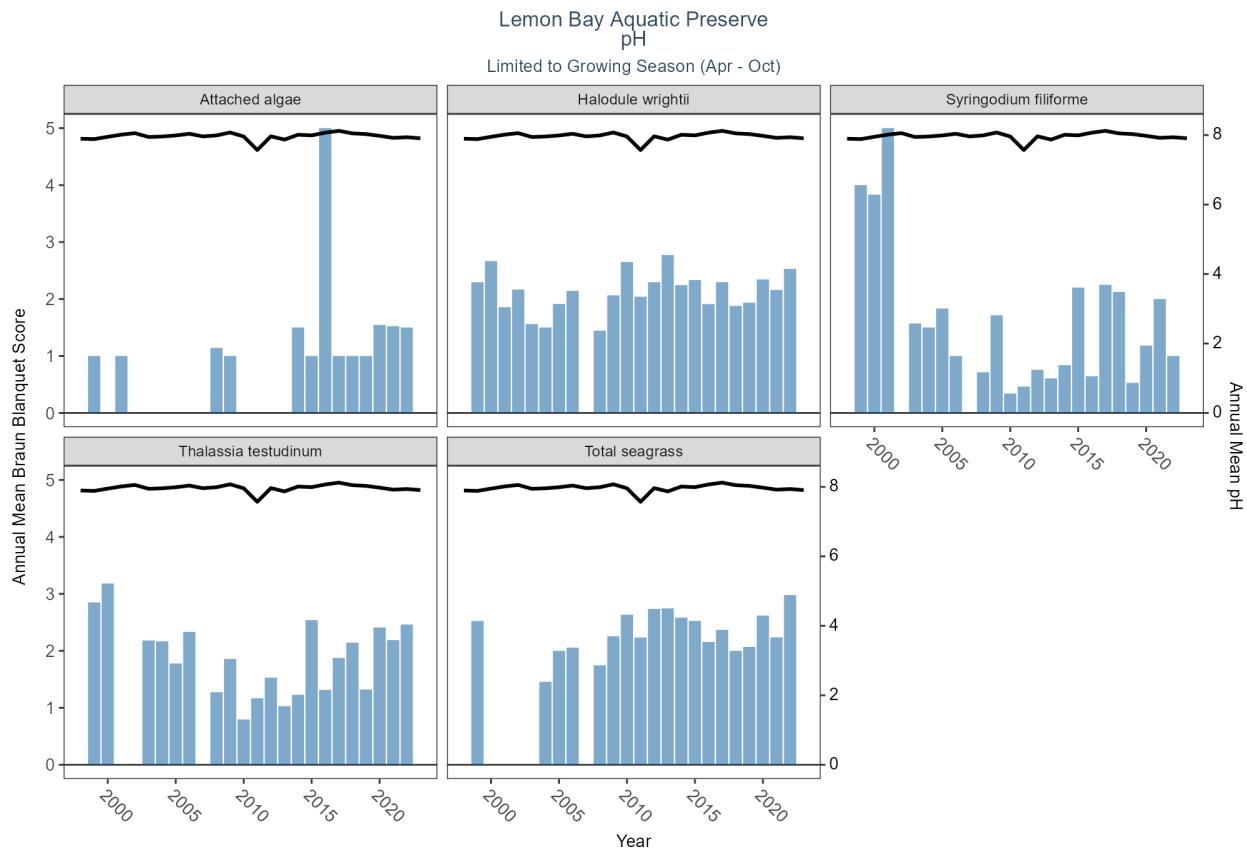


Table 352: WQ Summary for pH in Lemon Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	1998	7.896	7.90	7.00	8.60	0.209
pH	1999	7.884	7.90	7.30	8.50	0.240
pH	2000	7.950	7.90	7.40	8.60	0.200
pH	2001	8.013	8.06	7.20	8.90	0.310
pH	2002	8.056	8.00	7.50	8.90	0.269
pH	2003	7.945	7.97	7.06	8.70	0.316
pH	2004	7.959	7.90	7.50	8.80	0.242
pH	2005	7.990	8.01	6.80	9.00	0.328
pH	2006	8.038	8.00	6.03	9.00	0.314
pH	2007	7.962	7.90	7.20	9.76	0.304
pH	2008	7.991	7.90	7.40	9.50	0.319
pH	2009	8.075	8.10	7.50	8.60	0.187
pH	2010	7.960	8.00	6.85	8.60	0.220
pH	2011	7.570	7.90	4.90	8.60	0.912
pH	2012	7.965	8.00	7.00	8.53	0.255
pH	2013	7.870	8.00	6.80	8.48	0.363
pH	2014	8.010	8.03	6.97	8.80	0.241
pH	2015	7.992	8.05	6.20	8.45	0.235
pH	2016	8.069	8.10	7.20	8.50	0.253
pH	2017	8.122	8.10	3.20	10.60	0.435

ParameterName	Year	mean	median	min	max	sd
pH	2018	8.049	8.02	7.44	12.10	0.374
pH	2019	8.029	8.06	7.25	8.33	0.208
pH	2020	7.978	8.02	7.28	8.23	0.177
pH	2021	7.920	7.93	7.02	8.44	0.194
pH	2022	7.938	8.00	6.62	8.53	0.266
pH	2023	7.908	7.97	6.90	8.93	0.254
pH	2024	7.902	7.86	7.54	8.14	0.163

Programs contributing WQ Data:

Table 353: Programs contributing WQ data for pH in Lemon Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	1989	2022	570
pH	95	1956	2018	356
pH	103	2021	2021	130
pH	118	2020	2020	2
pH	476	1998	2024	570
pH	479	2001	2015	533
pH	513	2001	2009	255
pH	5002	1995	2024	5365

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 479 - Southwest Florida Water Management District - Water Quality Monitoring
- 513 - Coastal Charlotte Harbor Monitoring Network
- 5002 - Florida STORET / WIN

Salinity

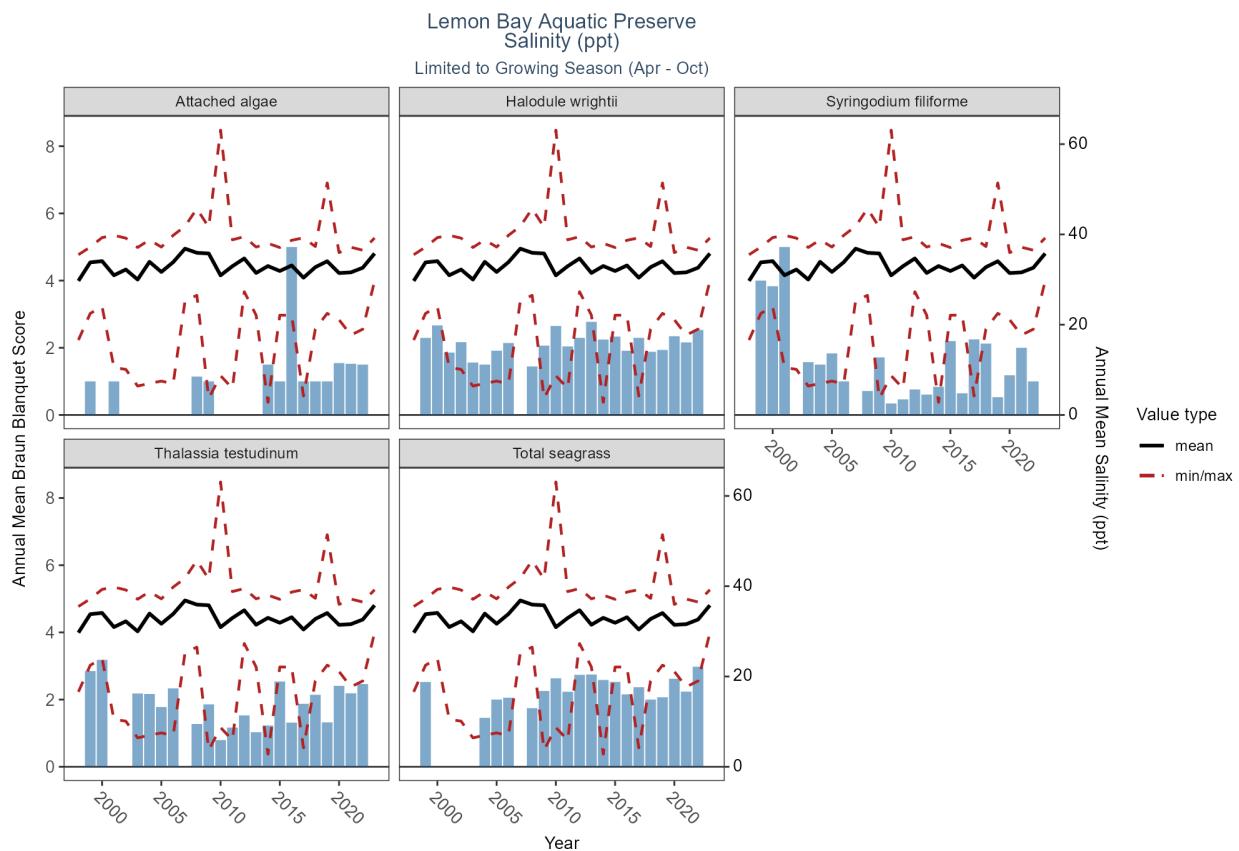


Table 354: WQ Summary for Salinity in Lemon Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	1998	29.703	30.500	16.60	35.50	3.493
Salinity	1999	33.806	35.000	22.50	37.20	2.653
Salinity	2000	34.081	35.250	24.00	39.30	2.769
Salinity	2001	30.949	32.000	10.50	39.80	5.134
Salinity	2002	32.218	32.835	10.10	39.18	4.612
Salinity	2003	29.997	31.500	6.40	37.11	5.595
Salinity	2004	33.932	34.730	7.00	38.80	3.553
Salinity	2005	31.684	32.400	7.50	37.20	4.221
Salinity	2006	33.854	34.820	6.94	39.80	3.717
Salinity	2007	36.844	37.000	25.30	41.80	1.592
Salinity	2008	35.922	36.800	26.50	45.70	2.980
Salinity	2009	35.777	36.700	3.70	41.60	3.328
Salinity	2010	30.928	31.100	8.70	63.10	4.627
Salinity	2011	32.961	33.300	5.90	38.80	3.007
Salinity	2012	34.674	35.000	27.30	39.50	1.916
Salinity	2013	31.463	30.750	22.10	37.20	3.425
Salinity	2014	32.992	34.085	2.80	38.02	4.109
Salinity	2015	31.899	32.400	22.10	37.10	3.286
Salinity	2016	33.124	33.450	22.10	38.70	3.712
Salinity	2017	30.410	32.500	4.20	39.24	6.130

ParameterName	Year	mean	median	min	max	sd
Salinity	2018	32.749	33.630	19.07	37.31	3.338
Salinity	2019	34.052	34.730	22.50	51.40	3.185
Salinity	2020	31.440	32.200	21.10	35.97	3.706
Salinity	2021	31.590	32.800	17.70	37.16	4.594
Salinity	2022	32.613	34.660	19.00	36.50	4.246
Salinity	2023	35.773	36.670	29.69	39.21	2.148
Salinity	2024	34.307	34.400	29.90	37.34	1.500

Programs contributing WQ Data:

Table 355: Programs contributing WQ data for Salinity in Lemon Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	1989	2022	579
Salinity	95	1954	2018	882
Salinity	118	2020	2020	4
Salinity	476	1998	2024	590
Salinity	479	2001	2015	537
Salinity	513	2001	2009	255
Salinity	5002	1995	2024	4059

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 479 - Southwest Florida Water Management District - Water Quality Monitoring
- 513 - Coastal Charlotte Harbor Monitoring Network
- 5002 - Florida STORET / WIN

Secchi Depth

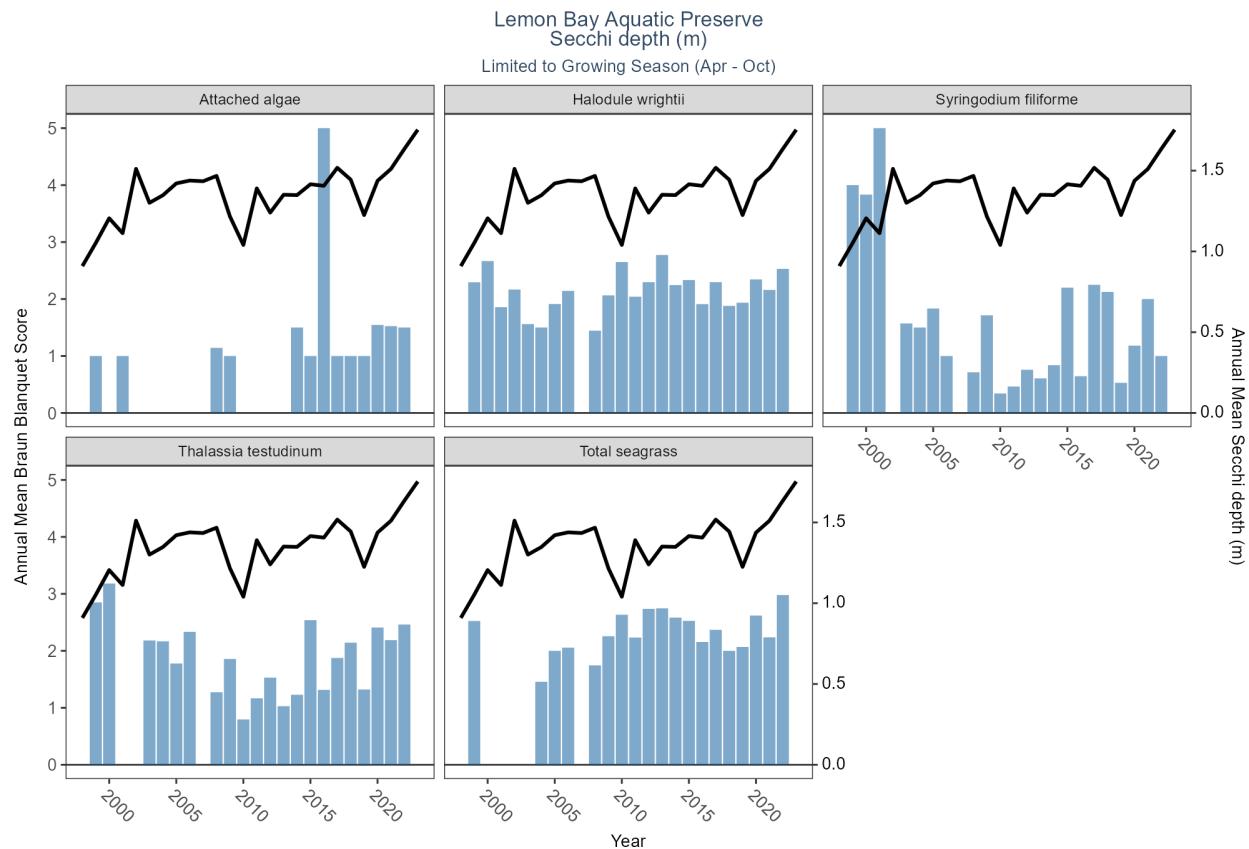


Table 356: WQ Summary for Secchi Depth in Lemon Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	1998	0.909	0.900	0.40	1.50	0.381
Secchi depth	1999	1.052	1.100	0.30	1.70	0.286
Secchi depth	2000	1.205	1.200	0.70	1.60	0.248
Secchi depth	2001	1.113	1.100	0.40	2.14	0.375
Secchi depth	2002	1.511	1.500	0.30	2.60	0.567
Secchi depth	2003	1.301	1.300	0.70	2.20	0.384
Secchi depth	2004	1.348	1.400	0.60	2.70	0.482
Secchi depth	2005	1.421	1.230	0.40	2.60	0.654
Secchi depth	2006	1.439	1.400	0.71	2.20	0.447
Secchi depth	2007	1.434	1.300	0.40	5.20	0.730
Secchi depth	2008	1.468	1.375	0.75	2.20	0.408
Secchi depth	2009	1.216	1.000	0.30	4.00	0.646
Secchi depth	2010	1.040	1.000	0.40	2.50	0.432
Secchi depth	2011	1.390	1.200	0.40	2.50	0.615
Secchi depth	2012	1.240	1.300	0.40	2.00	0.329
Secchi depth	2013	1.351	1.400	0.50	2.30	0.393
Secchi depth	2014	1.349	1.400	0.40	1.90	0.347
Secchi depth	2015	1.416	1.400	0.50	2.30	0.355
Secchi depth	2016	1.406	1.100	0.70	3.60	0.768
Secchi depth	2017	1.518	1.500	0.70	2.40	0.429

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2018	1.444	1.475	0.50	2.60	0.367
Secchi depth	2019	1.225	1.200	0.45	2.10	0.360
Secchi depth	2020	1.437	1.400	0.60	2.50	0.437
Secchi depth	2021	1.510	1.400	0.30	2.90	0.471
Secchi depth	2022	1.634	1.500	0.50	4.25	0.559
Secchi depth	2023	1.754	1.600	0.60	3.60	0.670
Secchi depth	2024	1.763	1.800	0.90	2.70	0.568

Programs contributing WQ Data:

Table 357: Programs contributing WQ data for Secchi Depth in Lemon Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	1995	2022	536
Secchi depth	103	2021	2021	56
Secchi depth	118	2020	2020	1
Secchi depth	476	1998	2024	477
Secchi depth	479	2001	2015	241
Secchi depth	513	2001	2009	51
Secchi depth	5002	2007	2024	463

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

479 - Southwest Florida Water Management District - Water Quality Monitoring

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

Total Nitrogen & Total Phosphorus

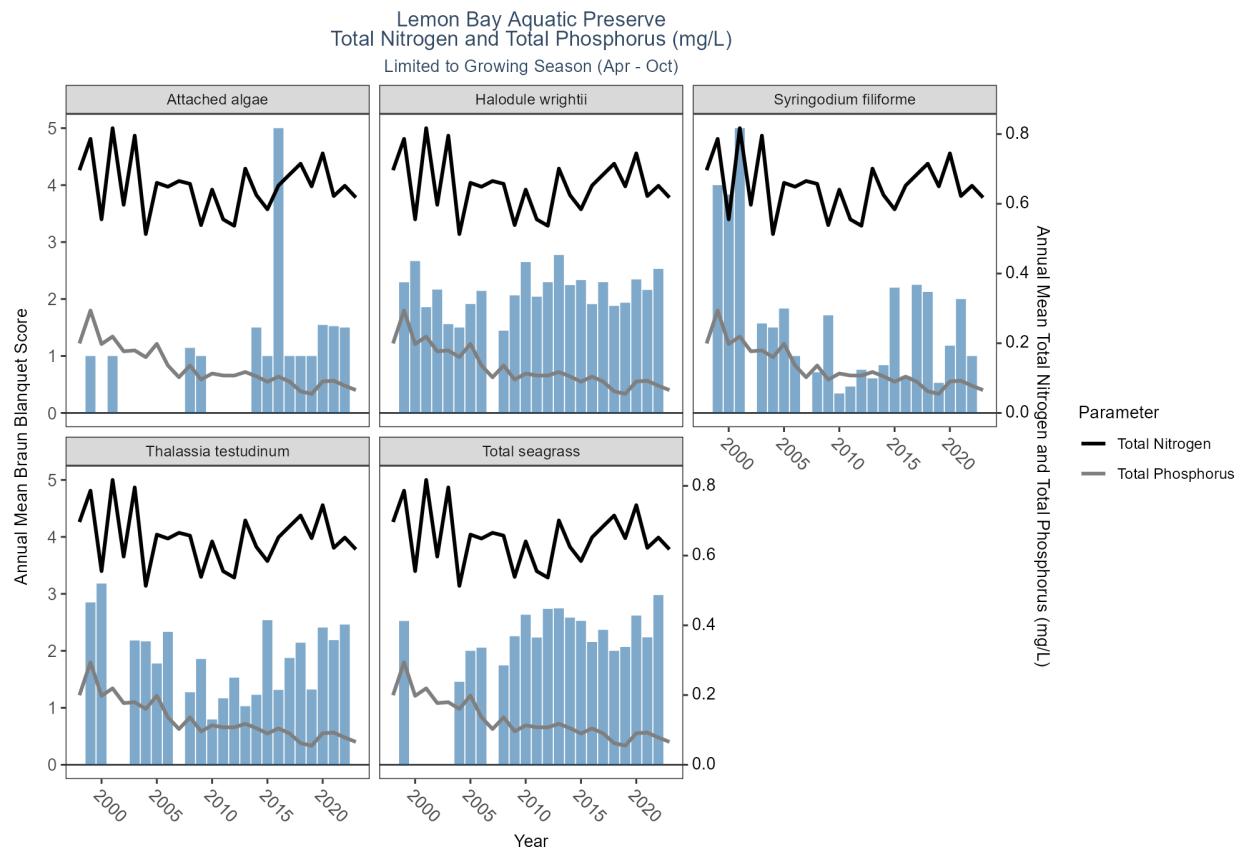


Table 358: WQ Summary for Total Nitrogen & Total Phosphorus in Lemon Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	1998	0.696	0.605	0.335	1.270	0.256
Total Nitrogen	1999	0.786	0.720	0.345	1.520	0.309
Total Nitrogen	2000	0.555	0.545	0.185	1.210	0.237
Total Nitrogen	2001	0.817	0.693	0.000	2.190	0.470
Total Nitrogen	2002	0.597	0.550	0.150	2.260	0.316
Total Nitrogen	2003	0.796	0.666	0.050	2.700	0.556
Total Nitrogen	2004	0.513	0.505	0.000	2.207	0.326
Total Nitrogen	2005	0.660	0.575	0.000	1.417	0.338
Total Nitrogen	2006	0.649	0.575	0.115	2.204	0.330
Total Nitrogen	2007	0.665	0.610	0.175	1.504	0.304
Total Nitrogen	2008	0.657	0.630	0.315	1.220	0.204
Total Nitrogen	2009	0.539	0.544	0.242	1.104	0.179
Total Nitrogen	2010	0.641	0.617	0.324	1.095	0.173
Total Nitrogen	2011	0.555	0.545	0.225	1.215	0.177
Total Nitrogen	2012	0.537	0.565	0.185	0.814	0.175
Total Nitrogen	2013	0.701	0.659	0.148	1.423	0.297
Total Nitrogen	2014	0.625	0.580	0.304	1.120	0.216
Total Nitrogen	2015	0.584	0.549	0.295	1.104	0.173
Total Nitrogen	2016	0.652	0.628	0.060	1.680	0.224

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2017	0.684	0.662	0.315	1.465	0.256
Total Nitrogen	2018	0.715	0.739	0.307	1.310	0.212
Total Nitrogen	2019	0.650	0.624	0.254	1.420	0.223
Total Nitrogen	2020	0.745	0.712	0.344	2.460	0.289
Total Nitrogen	2021	0.622	0.544	0.294	1.390	0.236
Total Nitrogen	2022	0.652	0.578	0.050	2.770	0.377
Total Nitrogen	2023	0.618	0.563	0.274	2.860	0.323
Total Nitrogen	2024	0.411	0.425	0.224	0.484	0.073
Total Phosphorus	1998	0.199	0.190	0.050	0.340	0.082
Total Phosphorus	1999	0.294	0.280	0.070	0.580	0.150
Total Phosphorus	2000	0.198	0.220	0.050	0.410	0.078
Total Phosphorus	2001	0.219	0.220	0.027	0.500	0.135
Total Phosphorus	2002	0.177	0.185	0.018	1.080	0.150
Total Phosphorus	2003	0.179	0.190	0.000	1.300	0.177
Total Phosphorus	2004	0.160	0.155	0.000	0.480	0.090
Total Phosphorus	2005	0.198	0.178	0.034	0.470	0.115
Total Phosphorus	2006	0.136	0.120	0.016	0.360	0.088
Total Phosphorus	2007	0.102	0.078	0.000	0.380	0.070
Total Phosphorus	2008	0.136	0.115	0.000	0.370	0.106
Total Phosphorus	2009	0.096	0.080	0.014	0.240	0.058
Total Phosphorus	2010	0.113	0.100	0.027	0.260	0.065
Total Phosphorus	2011	0.108	0.100	0.020	0.290	0.062
Total Phosphorus	2012	0.107	0.080	0.008	0.260	0.074
Total Phosphorus	2013	0.117	0.090	0.008	0.320	0.088
Total Phosphorus	2014	0.105	0.090	0.008	0.230	0.065
Total Phosphorus	2015	0.090	0.070	0.008	0.200	0.055
Total Phosphorus	2016	0.104	0.090	0.008	0.260	0.064
Total Phosphorus	2017	0.090	0.065	0.008	0.300	0.071
Total Phosphorus	2018	0.062	0.051	0.008	0.270	0.053
Total Phosphorus	2019	0.055	0.047	0.008	0.190	0.043
Total Phosphorus	2020	0.090	0.057	0.019	0.220	0.063
Total Phosphorus	2021	0.092	0.071	0.010	0.230	0.059
Total Phosphorus	2022	0.078	0.070	0.008	0.260	0.057
Total Phosphorus	2023	0.066	0.050	0.008	0.270	0.048
Total Phosphorus	2024	0.124	0.100	0.021	0.420	0.100

Programs contributing WQ Data:

Table 359: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Lemon Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	103	2005	2005	4
Total Nitrogen	476	1998	2024	535
Total Nitrogen	479	2007	2015	82
Total Nitrogen	513	2001	2009	113
Total Nitrogen	5002	1995	2024	1112
Total Phosphorus	103	2005	2021	69
Total Phosphorus	476	1998	2024	566
Total Phosphorus	479	2007	2015	82
Total Phosphorus	513	2001	2009	117

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Phosphorus	5002	1995	2024	1105

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

479 - Southwest Florida Water Management District - Water Quality Monitoring

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

Total Susepended Solids

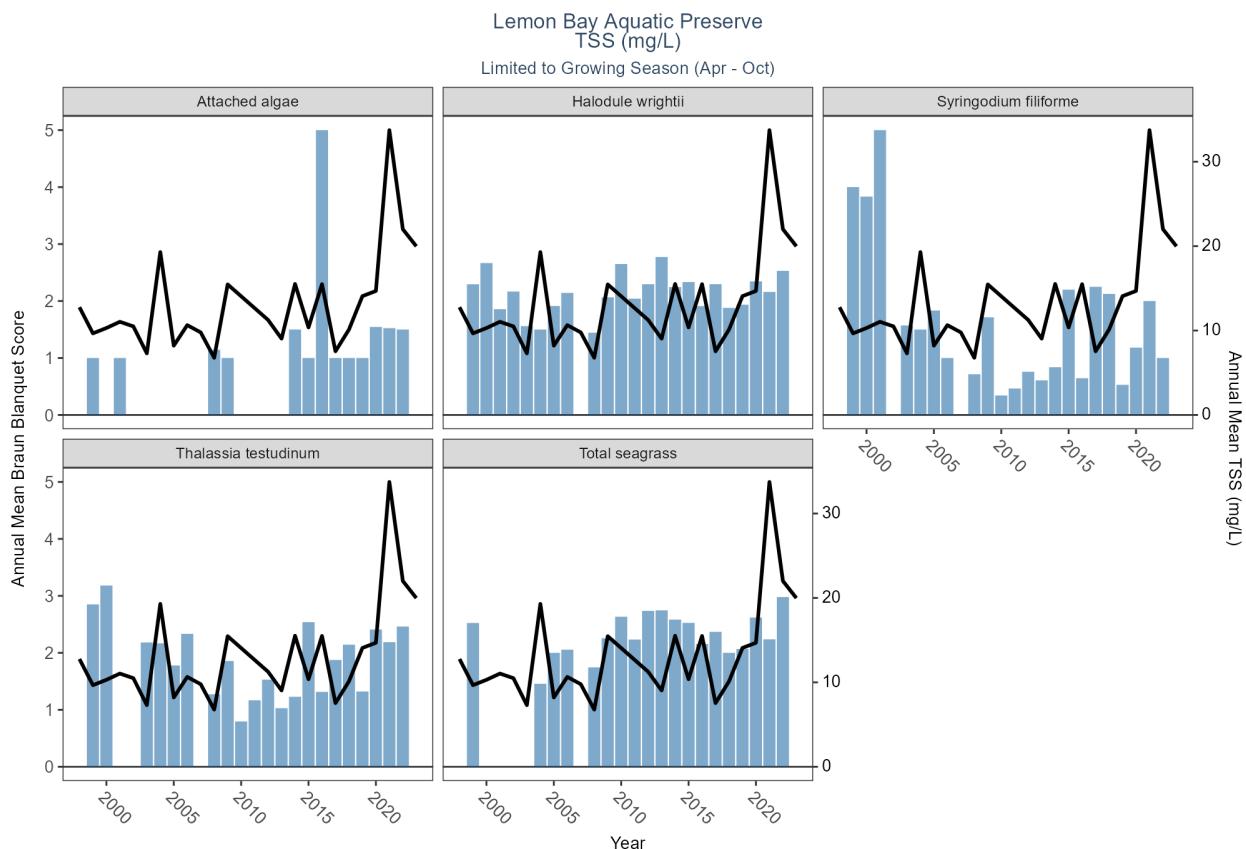


Table 360: WQ Summary for Total Susepended Solids in Lemon Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	1998	12.767	11.500	4.00	34.0	6.668
TSS	1999	9.667	9.000	4.00	23.0	4.459
TSS	2000	10.300	10.000	6.00	21.0	3.752
TSS	2001	11.039	10.000	5.00	26.2	4.729
TSS	2002	10.495	10.000	3.00	25.8	3.850
TSS	2003	7.296	8.000	2.00	13.0	3.730
TSS	2004	19.295	8.000	2.00	277.0	45.326

ParameterName	Year	mean	median	min	max	sd
TSS	2005	8.208	7.000	2.33	67.0	8.849
TSS	2006	10.643	9.050	3.80	47.2	7.171
TSS	2007	9.781	9.000	3.00	19.2	3.934
TSS	2008	6.771	6.200	3.80	10.8	1.814
TSS	2009	15.467	16.300	13.80	16.3	1.443
TSS	2012	11.254	9.610	2.63	28.0	7.972
TSS	2013	9.040	8.000	2.94	14.0	3.182
TSS	2014	15.521	12.550	5.62	34.5	8.997
TSS	2015	10.369	9.640	4.84	17.7	3.926
TSS	2016	15.496	10.155	4.80	54.3	12.558
TSS	2017	7.542	7.000	3.00	13.8	3.014
TSS	2018	10.115	9.200	1.50	48.5	8.987
TSS	2019	14.077	10.600	4.40	48.0	10.342
TSS	2020	14.688	10.900	3.50	39.8	9.266
TSS	2021	33.741	36.950	10.00	56.7	14.049
TSS	2022	22.008	17.700	5.67	45.6	10.553
TSS	2023	19.979	21.800	9.34	30.7	7.041

Programs contributing WQ Data:

Table 361: Programs contributing WQ data for Total Suspended Solids in Lemon Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	479	2007	2015	82
TSS	513	2001	2009	116
TSS	5002	1995	2023	552

WQ Program names:

479 - Southwest Florida Water Management District - Water Quality Monitoring

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

Turbidity

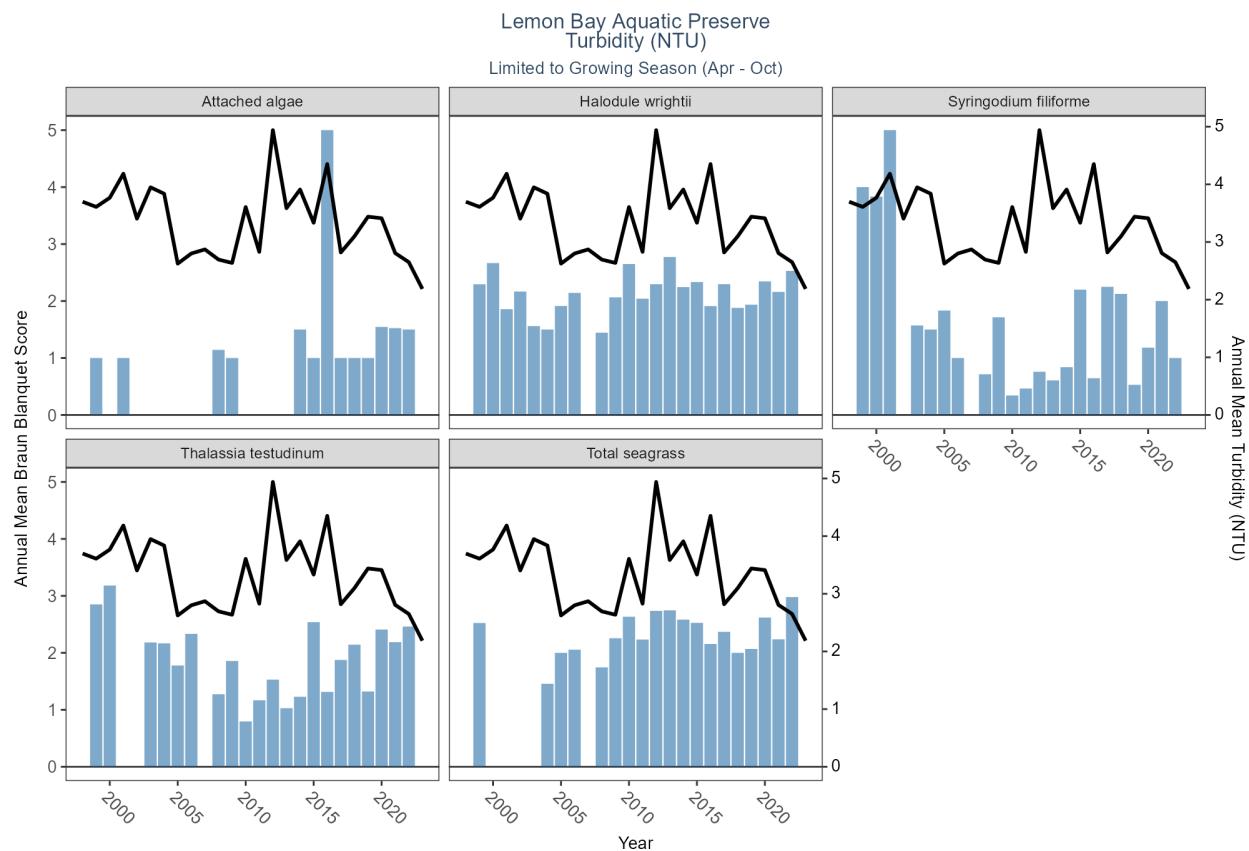


Table 362: WQ Summary for Turbidity in Lemon Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	1998	3.698	3.40	1.400	11.9	1.672
Turbidity	1999	3.609	3.20	0.300	32.0	2.982
Turbidity	2000	3.767	3.30	0.510	14.0	1.878
Turbidity	2001	4.184	3.50	0.210	13.0	2.625
Turbidity	2002	3.404	3.00	0.360	12.0	2.123
Turbidity	2003	3.948	2.80	0.360	34.0	4.312
Turbidity	2004	3.837	2.90	0.655	25.0	2.955
Turbidity	2005	2.625	2.20	0.310	11.6	1.835
Turbidity	2006	2.801	2.40	0.700	12.7	1.847
Turbidity	2007	2.871	2.50	0.260	30.0	2.329
Turbidity	2008	2.695	2.45	0.800	7.3	1.218
Turbidity	2009	2.637	2.20	0.600	8.9	1.525
Turbidity	2010	3.606	3.40	1.100	13.0	1.610
Turbidity	2011	2.828	2.40	0.800	10.0	1.518
Turbidity	2012	4.940	4.60	1.200	13.0	2.035
Turbidity	2013	3.586	3.60	0.900	7.8	1.711
Turbidity	2014	3.910	3.45	1.600	11.0	1.609
Turbidity	2015	3.333	3.10	1.200	8.1	1.379
Turbidity	2016	4.352	3.50	1.600	27.0	3.363
Turbidity	2017	2.819	2.40	0.850	8.7	1.700

ParameterName	Year	mean	median	min	max	sd
Turbidity	2018	3.098	2.70	1.200	10.0	1.875
Turbidity	2019	3.439	2.70	1.300	7.8	1.681
Turbidity	2020	3.412	3.00	1.000	18.0	2.558
Turbidity	2021	2.807	2.60	0.500	5.9	1.224
Turbidity	2022	2.651	2.40	0.400	17.0	1.896
Turbidity	2023	2.186	2.00	0.700	4.4	0.905
Turbidity	2024	2.948	2.20	0.950	8.3	1.634

Programs contributing WQ Data:

Table 363: Programs contributing WQ data for Turbidity in Lemon Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	95	2003	2004	14
Turbidity	103	2005	2021	69
Turbidity	476	1999	2024	601
Turbidity	479	2001	2015	172
Turbidity	513	2001	2009	118
Turbidity	5002	1995	2024	3000

WQ Program names:

95 - Harmful Algal Bloom Marine Observation Network

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

479 - Southwest Florida Water Management District - Water Quality Monitoring

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

Water Temperature

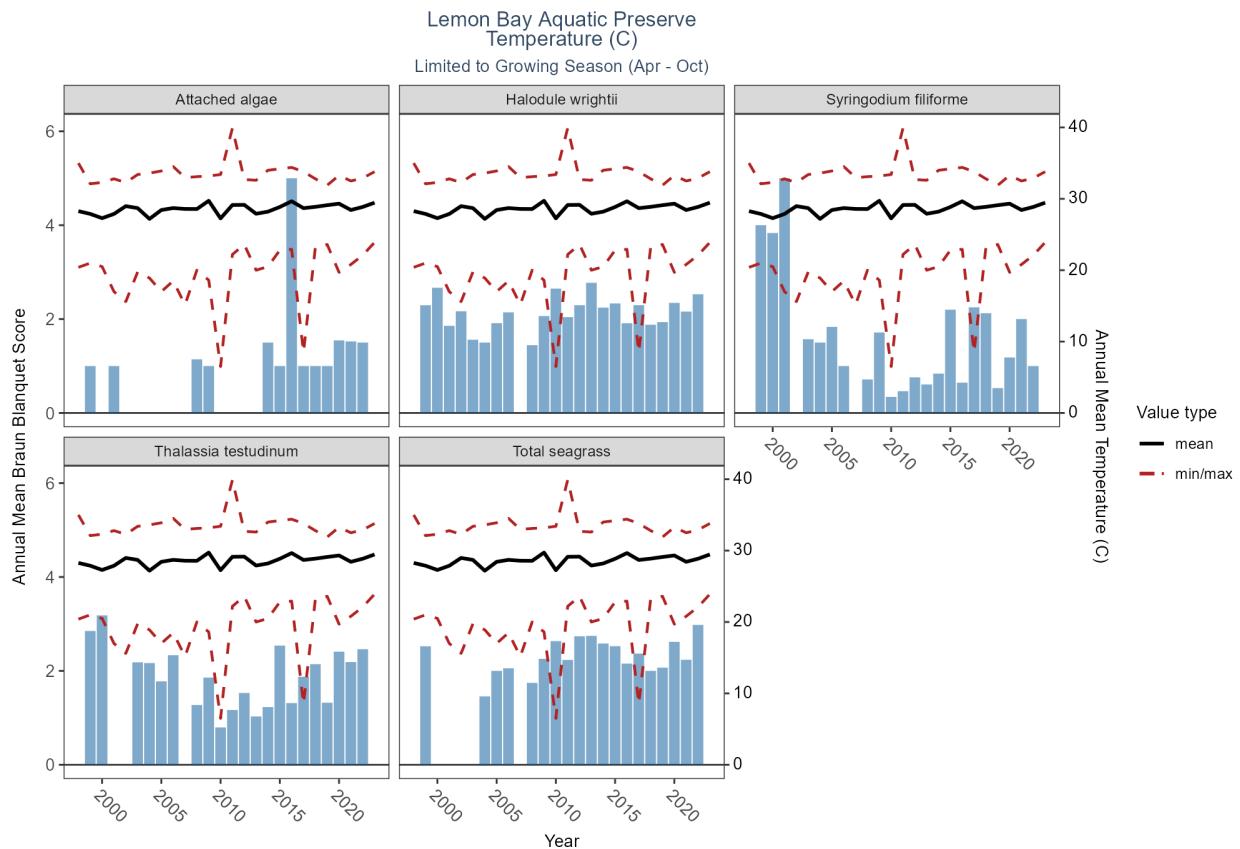


Table 364: WQ Summary for Water Temperature in Lemon Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	1998	28.274	29.000	20.40	35.00	2.744
Temperature	1999	27.883	27.800	21.00	32.10	2.504
Temperature	2000	27.288	27.800	20.50	32.30	3.285
Temperature	2001	27.878	28.000	17.00	32.80	2.744
Temperature	2002	28.974	29.100	15.60	32.28	2.315
Temperature	2003	28.696	29.125	19.75	33.40	2.904
Temperature	2004	27.185	28.000	18.90	33.60	4.241
Temperature	2005	28.431	29.200	17.00	33.90	3.284
Temperature	2006	28.705	29.550	18.49	34.52	2.944
Temperature	2007	28.581	29.330	15.17	32.97	3.325
Temperature	2008	28.570	28.900	20.00	33.10	2.028
Temperature	2009	29.725	30.200	18.60	33.20	2.160
Temperature	2010	27.260	27.600	6.50	33.40	3.922
Temperature	2011	29.135	29.800	22.20	39.90	2.052
Temperature	2012	29.154	29.200	23.60	32.70	1.823
Temperature	2013	27.906	28.900	20.00	32.60	2.691
Temperature	2014	28.201	29.100	20.50	34.00	2.802
Temperature	2015	28.855	29.270	22.80	34.20	2.507
Temperature	2016	29.656	30.100	22.92	34.40	2.403

ParameterName	Year	mean	median	min	max	sd
Temperature	2017	28.693	29.000	8.50	33.80	3.407
Temperature	2018	28.875	29.600	23.20	32.80	2.583
Temperature	2019	29.109	29.350	23.60	31.90	1.752
Temperature	2020	29.318	29.350	19.70	33.28	2.159
Temperature	2021	28.432	29.200	20.80	32.50	2.604
Temperature	2022	28.861	29.800	22.10	32.90	2.684
Temperature	2023	29.460	29.500	23.90	33.80	2.678
Temperature	2024	25.812	25.850	20.50	28.30	1.362

Programs contributing WQ Data:

Table 365: Programs contributing WQ data for Water Temperature in Lemon Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	1989	2022	584
Temperature	95	1954	2018	790
Temperature	103	2021	2021	130
Temperature	118	2020	2020	3
Temperature	476	1998	2024	595
Temperature	479	2001	2015	530
Temperature	513	2001	2009	255
Temperature	5002	1995	2024	6635

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 479 - Southwest Florida Water Management District - Water Quality Monitoring
- 513 - Coastal Charlotte Harbor Monitoring Network
- 5002 - Florida STORET / WIN

Loxahatchee River-Lake Worth Creek Aquatic Preserve

Programs contributing SAV Data:

Table 366: Programs contributing SAV data in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Percent Cover	3013	1999	2023	6045
Percent Occurrence	3013	1999	2023	6685
Percent Occurrence	3017	2007	2023	40220
Percent Occurrence	10001	2007	2007	9672

SAV Program names:

3013 - Seagrass (SJRWMD)

3013 - Seagrass (SJRWMD)

3017 - Loxahatchee River District Bi-Monthly Seagrass Monitoring

10001 - Loxahatchee River District Landscape-Scale Seagrass Mapping Area

Chlorophyll-a (corrected & uncorrected)

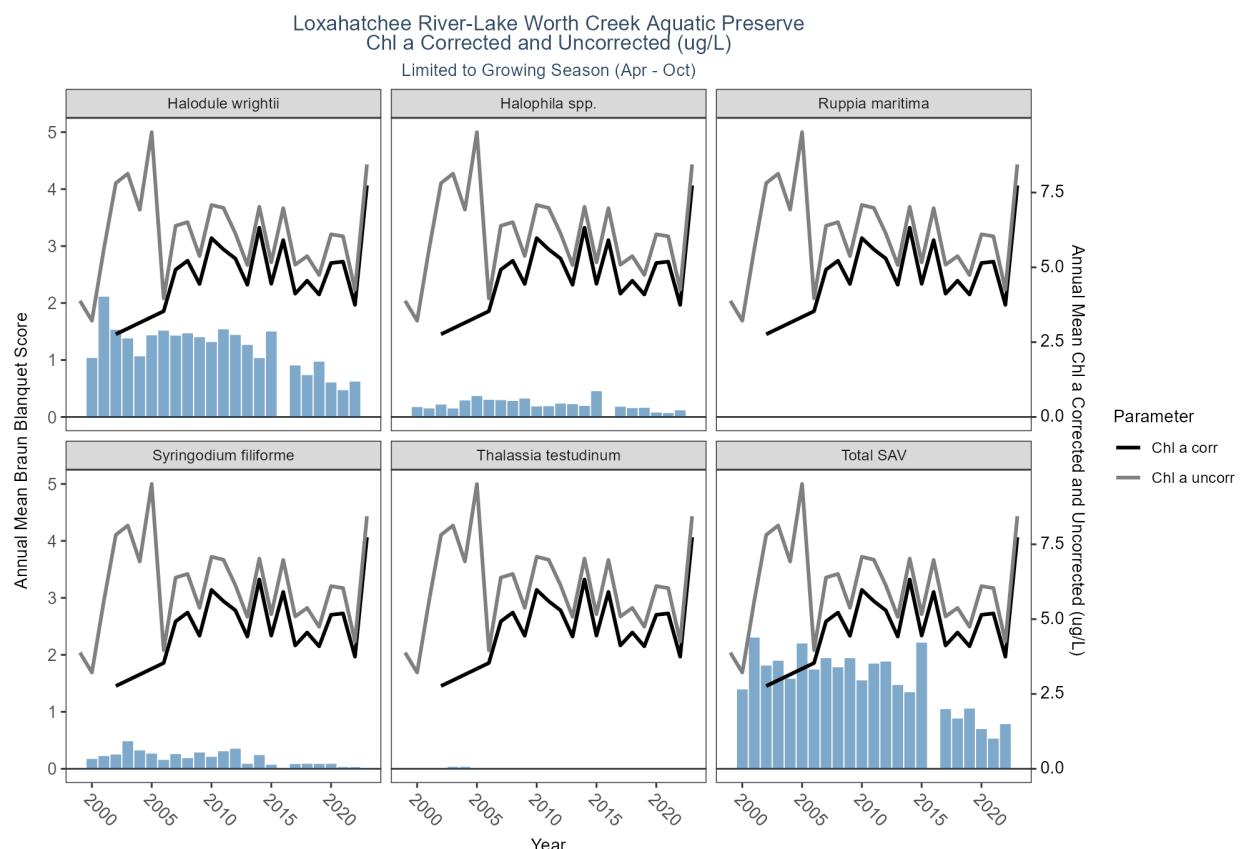


Table 367: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2002	2.764	2.06	0.80	15.98	2.372
Chl a corr	2006	3.534	2.70	1.00	22.00	2.819
Chl a corr	2007	4.923	3.70	0.59	49.00	4.276
Chl a corr	2008	5.220	3.20	1.00	61.90	4.877
Chl a corr	2009	4.445	3.50	1.00	38.40	3.969
Chl a corr	2010	5.977	5.10	1.00	64.00	4.751
Chl a corr	2011	5.600	3.80	1.00	35.70	6.280
Chl a corr	2012	5.293	4.20	1.00	97.90	5.928
Chl a corr	2013	4.418	3.90	1.00	18.40	3.876
Chl a corr	2014	6.324	3.60	1.00	87.10	8.606
Chl a corr	2015	4.450	4.10	1.00	29.80	3.181
Chl a corr	2016	5.910	4.10	0.84	151.60	8.309
Chl a corr	2017	4.120	3.30	1.00	28.00	3.551
Chl a corr	2018	4.554	3.90	1.00	24.60	3.169
Chl a corr	2019	4.092	3.50	1.00	27.10	2.822
Chl a corr	2020	5.145	4.80	1.00	55.30	3.124
Chl a corr	2021	5.190	4.30	1.00	48.00	7.148
Chl a corr	2022	3.746	3.00	1.00	89.80	3.537
Chl a corr	2023	7.737	5.20	1.10	99.00	6.848
Chl a corr	2024	4.138	4.40	1.50	39.40	2.471
Chl a uncorr	1999	3.881	3.10	1.60	12.50	2.558
Chl a uncorr	2000	3.216	2.50	1.20	35.30	3.796
Chl a uncorr	2001	5.609	4.10	1.00	27.00	4.389
Chl a uncorr	2002	7.815	6.90	1.11	83.80	7.174
Chl a uncorr	2003	8.129	7.30	1.20	47.50	4.453
Chl a uncorr	2004	6.926	4.70	1.00	49.60	6.202
Chl a uncorr	2005	9.518	6.40	1.60	39.60	9.510
Chl a uncorr	2006	3.962	3.40	1.00	39.00	3.398
Chl a uncorr	2007	6.389	4.60	1.00	23.80	5.135
Chl a uncorr	2008	6.510	5.20	1.00	60.20	5.243
Chl a uncorr	2009	5.378	4.40	1.00	41.90	4.653
Chl a uncorr	2010	7.085	5.60	1.00	73.70	5.779
Chl a uncorr	2011	6.986	4.80	1.10	40.90	7.467
Chl a uncorr	2012	6.132	4.90	1.00	105.00	6.543
Chl a uncorr	2013	5.075	4.30	1.00	21.00	4.419
Chl a uncorr	2014	7.024	4.20	1.00	95.70	9.190
Chl a uncorr	2015	5.166	4.50	1.00	32.30	3.788
Chl a uncorr	2016	6.978	5.70	1.00	159.80	9.006
Chl a uncorr	2017	5.087	4.50	1.30	31.00	3.952
Chl a uncorr	2018	5.375	4.50	1.00	30.50	3.574
Chl a uncorr	2019	4.744	4.10	1.00	29.10	3.185
Chl a uncorr	2020	6.104	5.50	1.30	69.80	3.752
Chl a uncorr	2021	6.038	4.70	1.00	51.40	7.741
Chl a uncorr	2022	4.253	3.50	1.00	92.10	4.006
Chl a uncorr	2023	8.439	5.70	1.50	110.00	7.175
Chl a uncorr	2024	4.783	4.90	1.60	47.10	3.028

Programs contributing WQ Data:

Table 368: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	514	2019	2023	143
Chl a corr	5002	2002	2023	68436
Chl a corr	10000	2006	2024	126750
Chl a uncorr	103	2021	2021	10513
Chl a uncorr	514	2001	2023	1104
Chl a uncorr	5002	1997	2023	83480
Chl a uncorr	10000	1997	2024	147756

WQ Program names:

514 - Florida LAKEWATCH Program

5002 - Florida STORET / WIN

10000 - RiverKeeper

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

Colored Dissolved Organic Matter

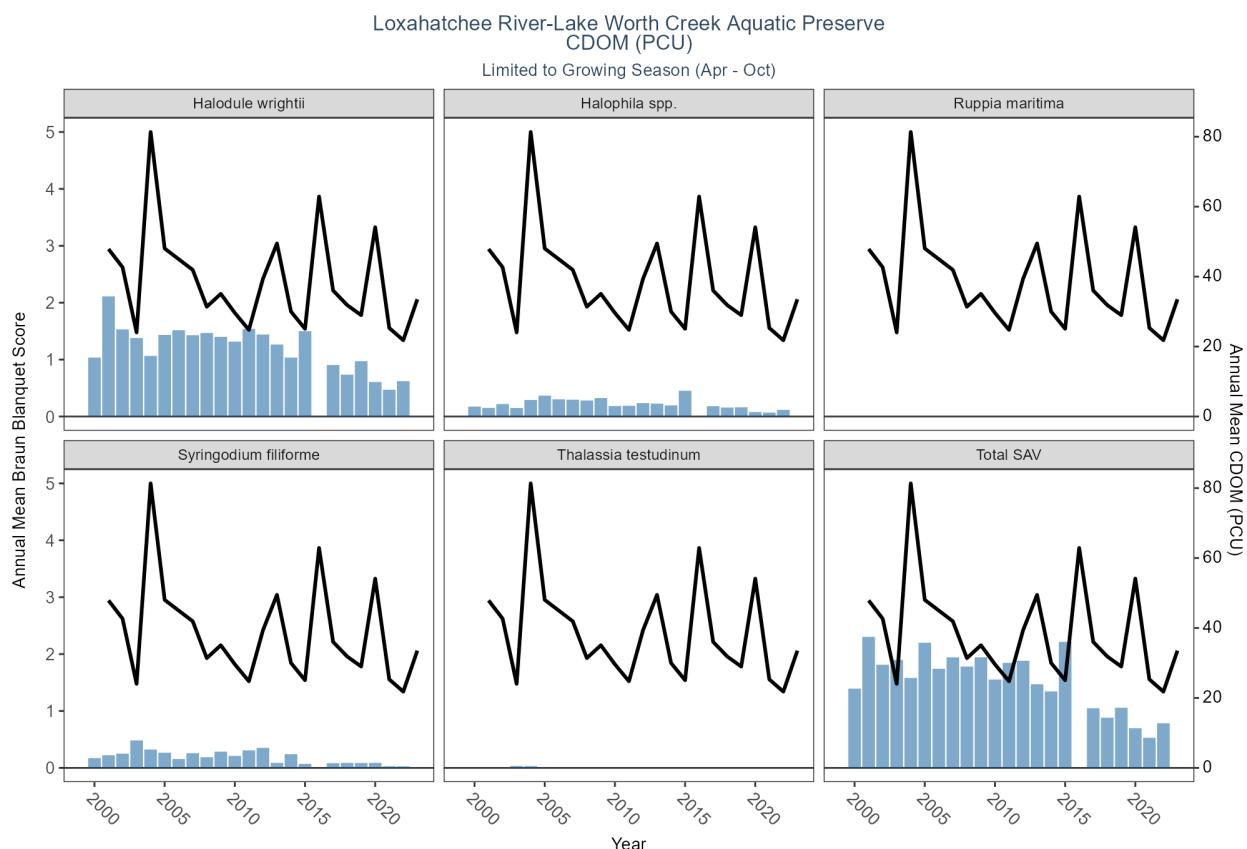


Table 369: WQ Summary for Colored Dissolved Organic Matter in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
CDOM	2001	47.885	56.0	36.0	76	11.948
CDOM	2002	42.667	27.0	12.0	141	25.945
CDOM	2003	24.038	30.0	12.0	36	11.532
CDOM	2004	81.346	79.5	20.0	143	62.271
CDOM	2005	48.038	48.5	9.0	87	39.237
CDOM	2007	41.923	41.0	7.0	165	39.708
CDOM	2008	31.385	28.0	14.0	76	15.789
CDOM	2009	35.077	37.5	15.0	85	20.892
CDOM	2010	29.615	31.0	27.0	43	3.383
CDOM	2011	24.769	17.0	13.0	101	17.650
CDOM	2012	39.327	35.0	12.0	119	27.835
CDOM	2013	49.481	48.0	21.0	98	28.616
CDOM	2014	30.000	20.0	15.0	53	16.953
CDOM	2015	25.077	24.0	20.0	56	6.651
CDOM	2016	62.885	63.0	1.0	69	13.334
CDOM	2017	36.023	20.0	7.5	260	43.911
CDOM	2018	31.856	10.0	5.0	140	34.019
CDOM	2019	28.979	20.0	7.5	130	29.352
CDOM	2020	54.119	40.0	5.0	240	47.605
CDOM	2021	25.313	15.0	5.0	120	23.044
CDOM	2022	21.803	10.0	5.0	160	25.408
CDOM	2023	33.521	20.0	5.0	160	32.146
CDOM	2024	9.835	10.0	2.5	65	7.197

Programs contributing WQ Data:

Table 370: Programs contributing WQ data for Colored Dissolved Organic Matter in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
CDOM	103	2021	2021	5984
CDOM	514	2001	2020	612
CDOM	5002	2020	2023	18
CDOM	10000	2017	2024	42695

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

514 - Florida LAKEWATCH Program

5002 - Florida STORET / WIN

10000 - RiverKeeper

Dissolved Oxygen

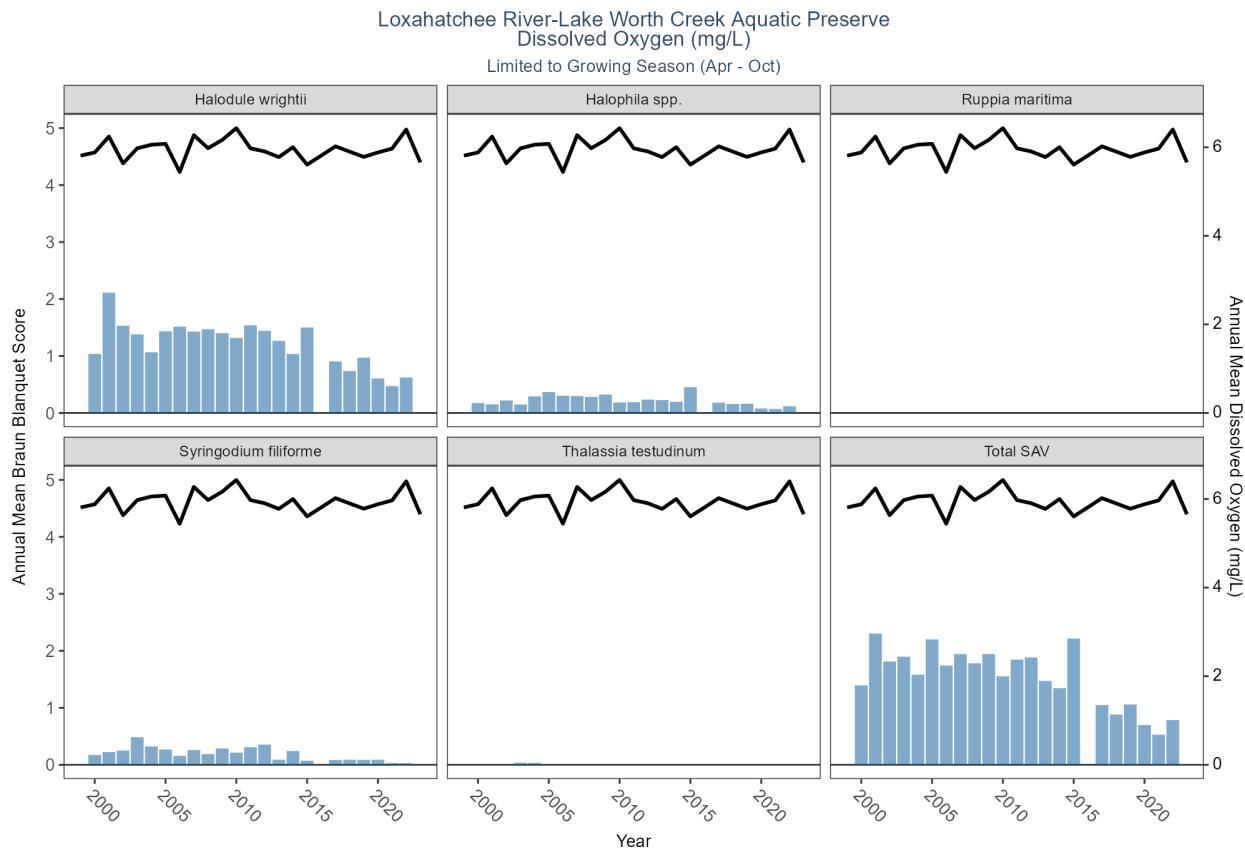


Table 371: WQ Summary for Dissolved Oxygen in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	1999	5.810	6.28	2.77	6.41	0.783
Dissolved Oxygen	2000	5.882	5.89	2.54	6.76	0.784
Dissolved Oxygen	2001	6.241	6.08	2.52	7.75	0.884
Dissolved Oxygen	2002	5.635	5.71	0.20	9.00	0.821
Dissolved Oxygen	2003	5.975	5.98	0.45	6.88	0.791
Dissolved Oxygen	2004	6.057	6.28	0.20	7.16	0.846
Dissolved Oxygen	2005	6.077	6.09	3.33	7.52	0.754
Dissolved Oxygen	2006	5.442	5.50	1.00	7.50	0.842
Dissolved Oxygen	2007	6.274	6.19	1.36	10.13	1.320
Dissolved Oxygen	2008	5.978	6.26	1.45	7.95	0.976
Dissolved Oxygen	2009	6.164	6.30	0.21	7.80	0.732
Dissolved Oxygen	2010	6.431	6.52	0.95	8.91	0.889
Dissolved Oxygen	2011	5.975	6.17	0.28	8.09	0.970
Dissolved Oxygen	2012	5.905	6.11	0.52	8.90	0.962
Dissolved Oxygen	2013	5.777	5.95	1.65	7.04	0.721
Dissolved Oxygen	2014	6.000	6.16	0.40	9.40	0.795
Dissolved Oxygen	2015	5.608	5.63	0.44	12.60	0.987
Dissolved Oxygen	2016	5.812	5.90	0.42	10.54	0.866
Dissolved Oxygen	2017	6.021	6.22	0.61	8.60	0.923

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2018	5.901	5.98	1.20	7.90	0.663
Dissolved Oxygen	2019	5.782	6.02	1.10	8.30	0.726
Dissolved Oxygen	2020	5.882	6.01	0.44	8.10	0.997
Dissolved Oxygen	2021	5.969	5.95	0.30	9.91	0.878
Dissolved Oxygen	2022	6.400	6.54	0.30	7.50	0.725
Dissolved Oxygen	2023	5.657	5.78	0.18	6.87	0.888
Dissolved Oxygen	2024	5.972	5.83	0.67	7.10	0.913

Programs contributing WQ Data:

Table 372: Programs contributing WQ data for Dissolved Oxygen in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	2014	2022	18937
Dissolved Oxygen	95	2016	2016	173
Dissolved Oxygen	103	2021	2021	36904
Dissolved Oxygen	5002	1991	2023	217256
Dissolved Oxygen	10000	1991	2024	322785

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 5002 - Florida STORET / WIN
- 10000 - RiverKeeper

Dissolved Oxygen Saturation

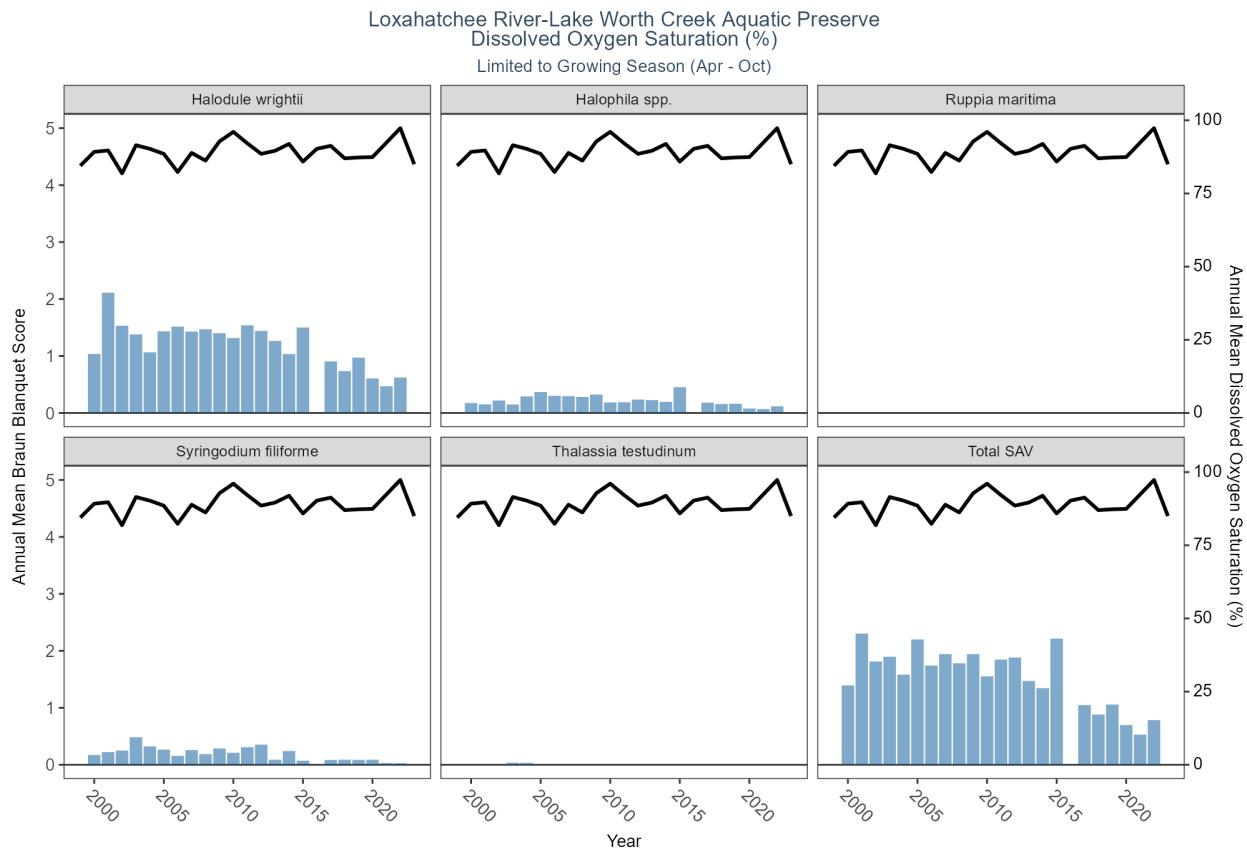


Table 373: WQ Summary for Dissolved Oxygen Saturation in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	1999	84.470	87.0	35.80	101.000	15.808
Dissolved Oxygen Saturation	2000	89.216	89.9	36.00	100.000	10.922
Dissolved Oxygen Saturation	2001	89.693	92.1	36.40	106.400	8.849
Dissolved Oxygen Saturation	2002	81.861	84.7	2.60	138.000	11.838
Dissolved Oxygen Saturation	2003	91.481	92.2	6.30	105.000	12.355
Dissolved Oxygen Saturation	2004	90.250	96.5	2.50	105.500	14.303
Dissolved Oxygen Saturation	2005	88.533	93.5	42.60	102.300	10.495
Dissolved Oxygen Saturation	2006	82.330	83.0	13.70	112.300	14.017
Dissolved Oxygen Saturation	2007	88.860	89.7	19.40	125.000	15.262
Dissolved Oxygen Saturation	2008	86.216	91.1	18.60	105.000	13.414
Dissolved Oxygen Saturation	2009	92.772	95.6	2.90	116.846	10.484
Dissolved Oxygen Saturation	2010	96.050	99.9	12.50	113.000	11.916
Dissolved Oxygen Saturation	2011	92.140	94.1	4.00	126.700	15.043
Dissolved Oxygen Saturation	2012	88.536	91.9	7.30	141.500	15.559
Dissolved Oxygen Saturation	2013	89.592	91.8	4.51	104.400	11.507
Dissolved Oxygen Saturation	2014	91.933	95.4	5.90	109.900	12.780
Dissolved Oxygen Saturation	2015	85.879	87.7	5.80	128.100	13.323
Dissolved Oxygen Saturation	2016	90.263	92.7	5.70	156.800	13.456
Dissolved Oxygen Saturation	2017	91.274	94.8	8.70	108.000	13.434

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2018	87.008	91.1	27.50	118.900	12.653
Dissolved Oxygen Saturation	2019	87.298	90.9	23.20	104.100	12.107
Dissolved Oxygen Saturation	2020	87.428	88.4	6.10	121.000	15.773
Dissolved Oxygen Saturation	2021	92.358	93.7	4.70	142.600	14.147
Dissolved Oxygen Saturation	2022	97.320	99.0	7.30	115.900	9.955
Dissolved Oxygen Saturation	2023	84.986	89.8	2.30	99.700	14.459
Dissolved Oxygen Saturation	2024	89.241	90.8	8.50	102.100	11.652

Programs contributing WQ Data:

Table 374: Programs contributing WQ data for Dissolved Oxygen Saturation in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	5002	1995	2023	186533
Dissolved Oxygen Saturation	10000	1995	2024	316466

WQ Program names:

5002 - Florida STORET / WIN

10000 - RiverKeeper

pH

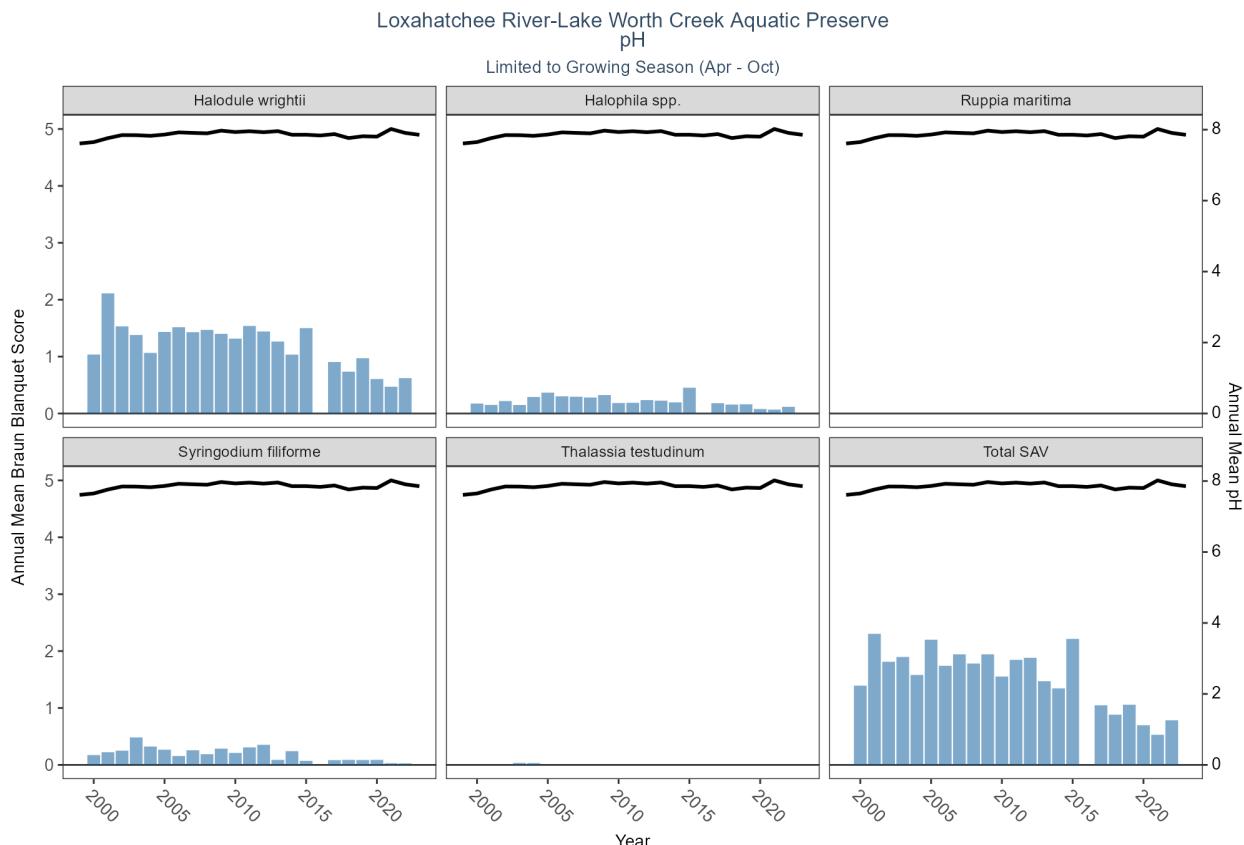


Table 375: WQ Summary for pH in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	1999	7.611	7.60	6.94	7.87	0.254
pH	2000	7.650	7.65	7.25	7.96	0.130
pH	2001	7.762	7.79	7.01	8.07	0.246
pH	2002	7.847	7.88	7.08	8.12	0.264
pH	2003	7.845	7.88	7.12	8.07	0.162
pH	2004	7.826	7.92	7.02	8.04	0.208
pH	2005	7.862	7.94	6.71	8.05	0.216
pH	2006	7.924	7.94	5.00	8.20	0.202
pH	2007	7.909	7.93	6.76	8.26	0.204
pH	2008	7.897	7.92	6.98	8.08	0.153
pH	2009	7.972	7.99	6.99	8.40	0.158
pH	2010	7.934	7.94	7.09	8.14	0.164
pH	2011	7.956	7.97	6.81	8.27	0.169
pH	2012	7.929	7.98	6.91	8.16	0.183
pH	2013	7.959	8.01	7.00	8.06	0.135
pH	2014	7.856	7.89	6.90	8.30	0.149
pH	2015	7.857	7.86	6.93	8.20	0.163
pH	2016	7.835	7.87	6.15	8.10	0.165
pH	2017	7.876	7.90	6.64	8.21	0.179
pH	2018	7.764	7.83	6.60	8.10	0.226
pH	2019	7.814	7.83	6.68	8.07	0.172
pH	2020	7.804	7.84	6.52	8.24	0.207
pH	2021	8.019	8.02	6.90	9.21	0.193
pH	2022	7.908	7.92	6.80	8.50	0.134
pH	2023	7.855	7.94	6.82	8.05	0.206
pH	2024	7.887	7.88	6.43	8.04	0.127

Programs contributing WQ Data:

Table 376: Programs contributing WQ data for pH in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	2014	2022	18939
pH	95	2016	2016	173
pH	103	2021	2021	36904
pH	5002	1991	2023	217793
pH	10000	1991	2024	303559

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 5002 - Florida STORET / WIN
- 10000 - RiverKeeper

Salinity

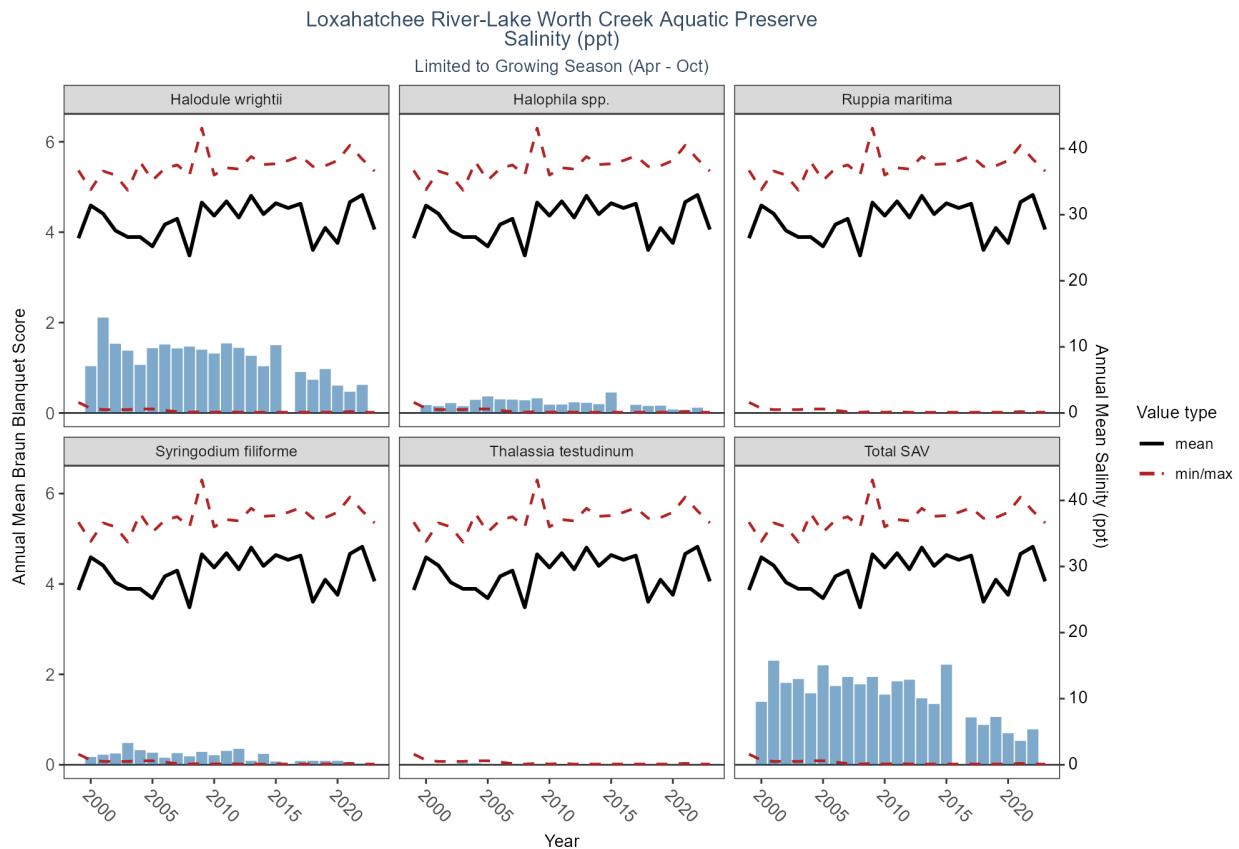


Table 377: WQ Summary for Salinity in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	1999	26.441	30.60	1.60	36.70	10.106
Salinity	2000	31.396	31.80	0.70	33.80	2.580
Salinity	2001	30.162	33.00	0.50	36.60	7.700
Salinity	2002	27.598	31.70	0.50	36.00	7.128
Salinity	2003	26.617	27.00	0.50	33.70	5.481
Salinity	2004	26.623	30.60	0.60	38.00	9.935
Salinity	2005	25.207	28.70	0.60	35.20	8.692
Salinity	2006	28.513	31.80	0.40	37.00	6.940
Salinity	2007	29.380	33.07	0.17	37.53	8.057
Salinity	2008	23.827	25.50	0.10	36.00	10.446
Salinity	2009	31.845	33.70	0.20	43.10	5.159
Salinity	2010	29.849	32.80	0.10	36.00	6.976
Salinity	2011	32.024	33.50	0.20	37.10	5.687
Salinity	2012	29.572	32.65	0.10	36.90	8.115
Salinity	2013	32.868	36.20	0.10	38.80	8.114
Salinity	2014	30.085	34.40	0.09	37.60	8.388
Salinity	2015	31.739	32.40	0.10	37.70	5.482
Salinity	2016	31.012	33.30	0.10	38.20	6.743
Salinity	2017	31.659	33.60	0.10	38.90	7.621

ParameterName	Year	mean	median	min	max	sd
Salinity	2018	24.665	27.90	0.10	37.30	11.541
Salinity	2019	28.003	30.90	0.10	37.40	8.216
Salinity	2020	25.717	28.40	0.10	38.20	10.206
Salinity	2021	31.912	34.90	0.20	40.50	7.040
Salinity	2022	32.993	34.30	0.10	38.40	5.149
Salinity	2023	27.760	29.80	0.10	36.60	8.607
Salinity	2024	34.199	35.00	0.20	36.70	3.381

Programs contributing WQ Data:

Table 378: Programs contributing WQ data for Salinity in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	2014	2022	18938
Salinity	95	2016	2016	173
Salinity	5002	1991	2023	216713
Salinity	10000	1991	2024	310109

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

5002 - Florida STORET / WIN

10000 - RiverKeeper

Secchi Depth

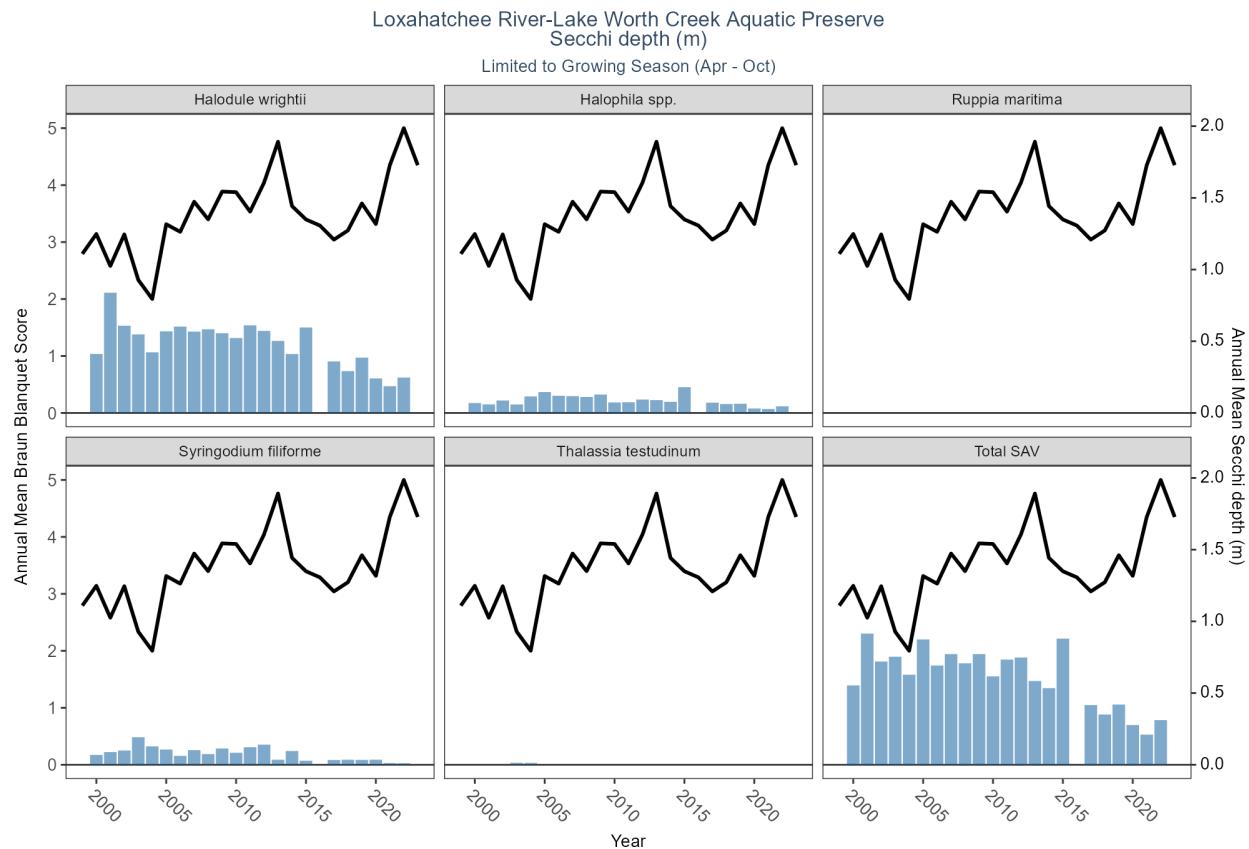


Table 379: WQ Summary for Secchi Depth in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	1999	1.110	1.200	0.10	1.700	0.439
Secchi depth	2000	1.248	1.100	0.50	2.100	0.648
Secchi depth	2001	1.025	0.900	0.40	2.300	0.424
Secchi depth	2002	1.245	1.300	0.30	2.000	0.235
Secchi depth	2003	0.928	1.100	0.20	2.000	0.549
Secchi depth	2004	0.795	0.600	0.30	1.800	0.365
Secchi depth	2005	1.316	1.300	0.70	2.100	0.370
Secchi depth	2006	1.263	1.200	0.70	1.800	0.270
Secchi depth	2007	1.473	1.300	0.40	3.800	0.727
Secchi depth	2008	1.350	1.300	0.40	2.900	0.541
Secchi depth	2009	1.544	1.500	0.60	2.100	0.356
Secchi depth	2010	1.540	1.433	0.50	2.300	0.237
Secchi depth	2011	1.404	1.400	0.40	2.300	0.344
Secchi depth	2012	1.606	1.600	0.50	2.500	0.472
Secchi depth	2013	1.892	1.800	0.09	3.700	0.532
Secchi depth	2014	1.443	1.402	0.30	2.400	0.575
Secchi depth	2015	1.349	1.500	0.30	2.400	0.430
Secchi depth	2016	1.307	1.200	0.40	2.682	0.435
Secchi depth	2017	1.209	1.200	0.10	4.084	0.435

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2018	1.273	1.300	0.30	2.000	0.392
Secchi depth	2019	1.461	1.400	0.40	2.500	0.456
Secchi depth	2020	1.317	1.400	0.30	2.000	0.340
Secchi depth	2021	1.728	1.800	0.30	3.500	0.776
Secchi depth	2022	1.986	2.000	0.30	4.400	0.586
Secchi depth	2023	1.728	1.700	0.20	2.300	0.378
Secchi depth	2024	1.347	1.400	0.20	1.700	0.117

Programs contributing WQ Data:

Table 380: Programs contributing WQ data for Secchi Depth in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	2014	2022	18908
Secchi depth	103	2021	2021	5759
Secchi depth	514	2001	2023	1106
Secchi depth	5002	2007	2023	16519
Secchi depth	10000	1994	2024	147147

WQ Program names:

- 69* - Fisheries-Independent Monitoring (FIM) Program
- 103* - EPA STOrage and RETrieval Data Warehouse (STORET)
- 514* - Florida LAKEWATCH Program
- 5002* - Florida STORET / WIN
- 10000* - RiverKeeper

Total Nitrogen & Total Phosphorus

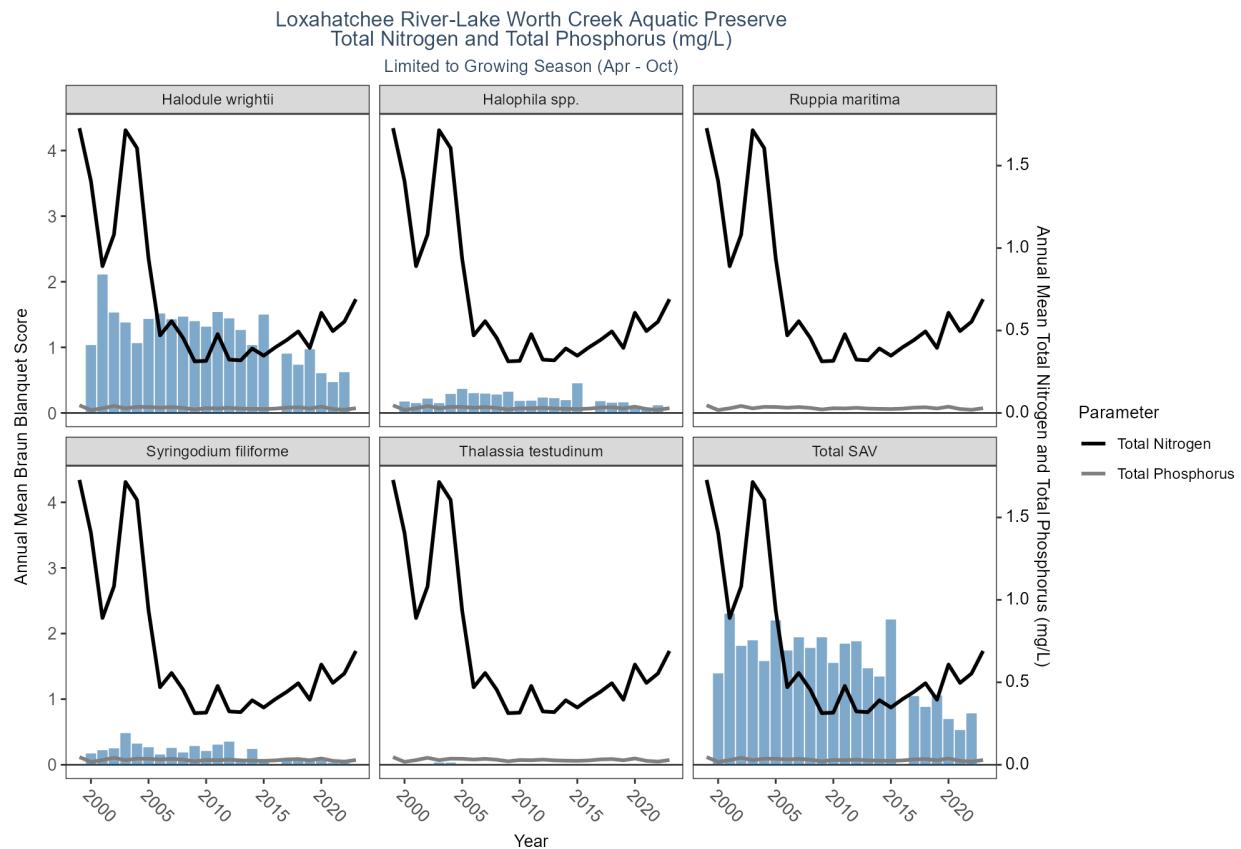


Table 381: WQ Summary for Total Nitrogen & Total Phosphorus in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	1999	1.728	2.000	0.730	2.000	0.428
Total Nitrogen	2000	1.406	1.410	0.750	2.150	0.473
Total Nitrogen	2001	0.890	0.293	0.000	2.460	1.029
Total Nitrogen	2002	1.082	1.370	0.000	1.450	0.487
Total Nitrogen	2003	1.715	1.860	0.000	3.330	0.752
Total Nitrogen	2004	1.606	1.620	0.000	2.490	0.510
Total Nitrogen	2005	0.937	0.830	0.000	3.930	0.522
Total Nitrogen	2006	0.471	0.520	0.000	2.230	0.197
Total Nitrogen	2007	0.557	0.400	0.000	1.830	0.406
Total Nitrogen	2008	0.455	0.360	0.000	1.550	0.262
Total Nitrogen	2009	0.313	0.200	0.000	1.510	0.211
Total Nitrogen	2010	0.316	0.200	0.001	1.260	0.184
Total Nitrogen	2011	0.478	0.381	0.000	2.200	0.354
Total Nitrogen	2012	0.323	0.200	0.000	1.335	0.200
Total Nitrogen	2013	0.319	0.200	0.000	1.223	0.187
Total Nitrogen	2014	0.391	0.300	0.000	1.300	0.236
Total Nitrogen	2015	0.347	0.200	0.001	1.377	0.213
Total Nitrogen	2016	0.398	0.300	0.000	1.671	0.271
Total Nitrogen	2017	0.442	0.300	0.000	1.463	0.287

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2018	0.495	0.500	0.000	2.100	0.256
Total Nitrogen	2019	0.394	0.322	0.000	1.218	0.239
Total Nitrogen	2020	0.608	0.690	0.340	0.932	0.166
Total Nitrogen	2021	0.496	0.533	0.203	1.220	0.169
Total Nitrogen	2022	0.554	0.530	0.460	1.038	0.158
Total Nitrogen	2023	0.690	0.750	0.438	1.214	0.180
Total Phosphorus	1999	0.046	0.040	0.020	0.180	0.024
Total Phosphorus	2000	0.018	0.011	0.009	0.109	0.013
Total Phosphorus	2001	0.028	0.026	0.000	0.100	0.018
Total Phosphorus	2002	0.042	0.036	0.000	0.113	0.026
Total Phosphorus	2003	0.028	0.029	0.000	0.094	0.011
Total Phosphorus	2004	0.037	0.022	0.000	0.256	0.039
Total Phosphorus	2005	0.036	0.031	0.000	0.076	0.020
Total Phosphorus	2006	0.032	0.025	0.000	0.095	0.016
Total Phosphorus	2007	0.036	0.024	0.000	0.185	0.034
Total Phosphorus	2008	0.031	0.028	0.000	0.122	0.016
Total Phosphorus	2009	0.021	0.021	0.000	0.096	0.012
Total Phosphorus	2010	0.029	0.026	0.000	0.139	0.019
Total Phosphorus	2011	0.028	0.023	0.000	0.117	0.019
Total Phosphorus	2012	0.031	0.022	0.000	0.156	0.020
Total Phosphorus	2013	0.027	0.018	0.000	0.124	0.018
Total Phosphorus	2014	0.025	0.020	0.000	0.204	0.018
Total Phosphorus	2015	0.024	0.021	0.000	0.186	0.018
Total Phosphorus	2016	0.026	0.026	0.000	0.176	0.013
Total Phosphorus	2017	0.032	0.023	0.000	0.260	0.022
Total Phosphorus	2018	0.034	0.024	0.000	0.193	0.025
Total Phosphorus	2019	0.027	0.022	0.000	0.188	0.018
Total Phosphorus	2020	0.038	0.034	0.009	0.209	0.022
Total Phosphorus	2021	0.024	0.017	0.005	0.122	0.017
Total Phosphorus	2022	0.019	0.018	0.002	0.170	0.013
Total Phosphorus	2023	0.029	0.022	0.011	0.303	0.018
Total Phosphorus	2024	0.021	0.019	0.015	0.470	0.013

Programs contributing WQ Data:

Table 382: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	514	2001	2023	1119
Total Nitrogen	5002	1991	2023	74209
Total Nitrogen	10000	1991	2021	83419
Total Phosphorus	103	2021	2021	5984
Total Phosphorus	514	2001	2023	1106
Total Phosphorus	5002	1991	2023	97013
Total Phosphorus	10000	1991	2024	154372

WQ Program names:

514 - Florida LAKEWATCH Program

5002 - Florida STORET / WIN

10000 - RiverKeeper

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

Total Suspended Solids

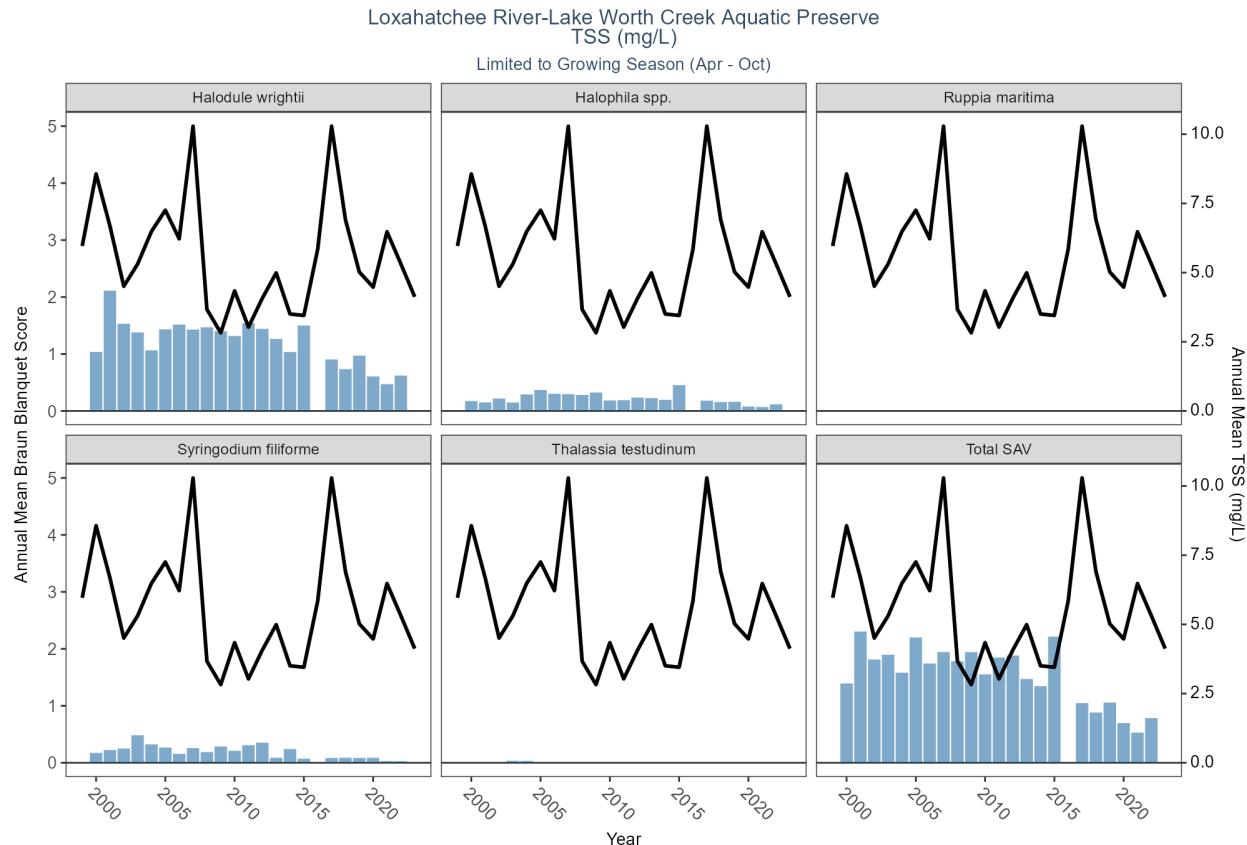


Table 383: WQ Summary for Total Suspended Solids in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	1999	5.960	6.0	1.0	14.0	2.629
TSS	2000	8.566	7.3	2.0	20.0	3.379
TSS	2001	6.684	6.0	1.6	20.0	1.592
TSS	2002	4.507	3.2	1.3	17.0	2.275
TSS	2003	5.310	6.8	1.0	12.4	2.408
TSS	2004	6.490	4.8	2.4	23.0	3.119
TSS	2005	7.254	6.2	2.0	15.3	3.675
TSS	2006	6.220	6.0	2.4	22.4	2.041
TSS	2007	10.290	6.0	2.0	88.0	12.291
TSS	2008	3.671	2.6	1.0	15.0	2.320
TSS	2009	2.825	2.4	1.0	8.0	1.489
TSS	2010	4.340	4.1	1.0	11.9	2.531
TSS	2011	3.030	2.9	1.0	13.1	1.474
TSS	2012	4.073	3.4	1.1	19.0	2.422
TSS	2013	4.990	3.9	1.0	20.2	3.161

ParameterName	Year	mean	median	min	max	sd
TSS	2014	3.503	3.3	0.5	12.4	1.504
TSS	2015	3.452	3.5	0.5	18.8	1.381
TSS	2016	5.851	5.0	0.6	28.0	4.489
TSS	2017	10.292	5.8	0.7	42.0	10.267
TSS	2018	6.913	6.2	1.0	71.0	3.601
TSS	2019	5.022	4.5	0.8	44.8	1.761
TSS	2020	4.475	3.1	0.5	36.0	3.102
TSS	2021	6.476	4.5	0.6	37.0	5.502
TSS	2022	5.315	4.7	0.6	48.0	1.592
TSS	2023	4.124	3.6	1.0	101.5	2.033
TSS	2024	10.285	8.0	1.5	165.0	5.154

Programs contributing WQ Data:

Table 384: Programs contributing WQ data for Total Susepended Solids in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	103	2021	2021	5984
TSS	5002	1994	2023	97581
TSS	10000	1994	2024	151240

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

5002 - Florida STORET / WIN

10000 - RiverKeeper

Turbidity

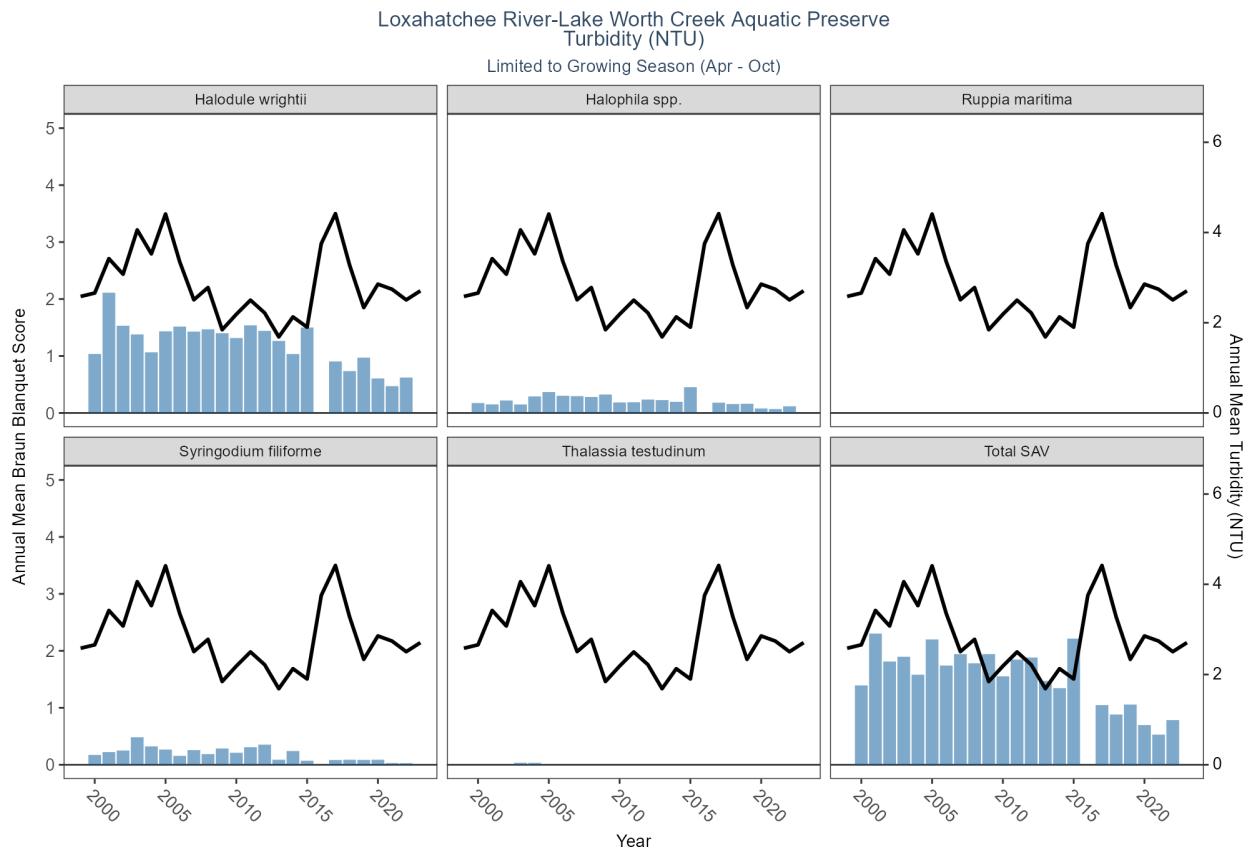


Table 385: WQ Summary for Turbidity in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	1999	2.583	2.03	1.30	5.94	1.037
Turbidity	2000	2.658	2.14	1.26	14.10	1.639
Turbidity	2001	3.421	2.98	1.29	11.10	1.591
Turbidity	2002	3.076	3.10	1.00	7.62	1.073
Turbidity	2003	4.057	4.01	1.07	8.89	1.318
Turbidity	2004	3.527	3.56	1.03	21.20	2.316
Turbidity	2005	4.410	3.20	0.86	13.10	3.865
Turbidity	2006	3.352	3.58	1.29	6.79	1.223
Turbidity	2007	2.508	2.20	0.40	8.20	1.514
Turbidity	2008	2.780	2.44	1.29	10.50	1.153
Turbidity	2009	1.845	1.70	0.75	5.30	1.003
Turbidity	2010	2.188	2.41	0.41	7.66	0.889
Turbidity	2011	2.501	2.20	0.60	12.10	1.051
Turbidity	2012	2.218	2.40	0.80	10.70	0.778
Turbidity	2013	1.686	1.70	0.60	6.60	0.773
Turbidity	2014	2.129	2.20	0.60	5.30	0.851
Turbidity	2015	1.902	2.00	0.20	5.80	0.928
Turbidity	2016	3.754	2.80	0.80	13.50	3.090
Turbidity	2017	4.418	2.80	1.20	20.70	4.969

ParameterName	Year	mean	median	min	max	sd
Turbidity	2018	3.278	3.40	0.30	25.60	1.380
Turbidity	2019	2.336	2.50	0.60	15.50	0.884
Turbidity	2020	2.855	2.20	1.10	33.10	1.644
Turbidity	2021	2.742	2.60	0.80	24.80	1.868
Turbidity	2022	2.506	2.30	0.50	18.90	1.343
Turbidity	2023	2.707	2.70	1.40	56.40	1.068
Turbidity	2024	6.313	5.80	2.10	105.00	2.920

Programs contributing WQ Data:

Table 386: Programs contributing WQ data for Turbidity in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	103	2021	2021	6254
Turbidity	5002	1991	2023	103429
Turbidity	10000	1991	2024	154644

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

5002 - Florida STORET / WIN

10000 - RiverKeeper

Water Temperature

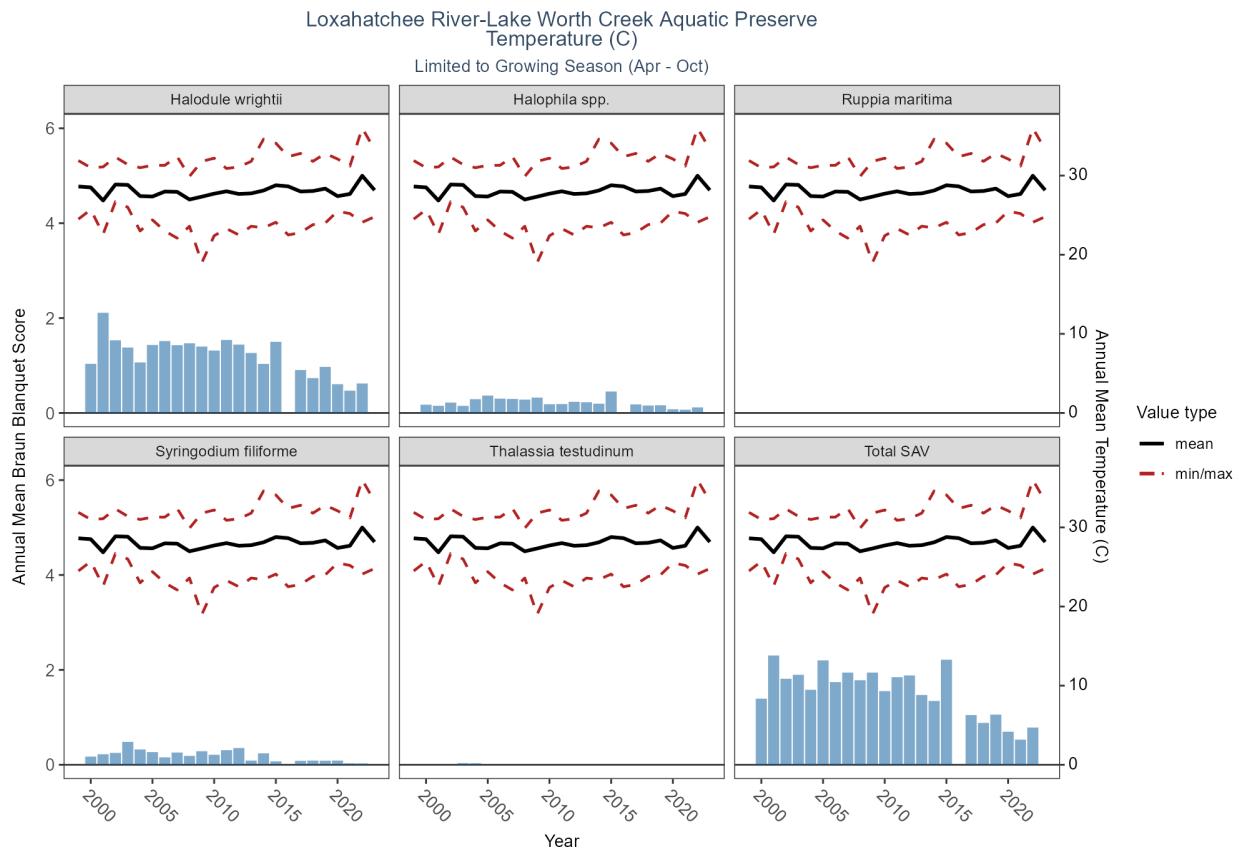


Table 387: WQ Summary for Water Temperature in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	1999	28.623	29.10	24.5	31.90	1.929
Temperature	2000	28.511	29.50	25.7	31.00	1.637
Temperature	2001	26.853	27.40	22.6	31.10	2.183
Temperature	2002	28.873	29.00	26.7	32.34	1.222
Temperature	2003	28.825	28.90	26.0	31.40	0.874
Temperature	2004	27.412	27.50	23.0	31.00	1.523
Temperature	2005	27.358	28.10	24.4	31.30	1.666
Temperature	2006	27.984	28.50	23.0	31.30	1.624
Temperature	2007	27.947	29.07	22.1	32.40	2.414
Temperature	2008	26.978	27.00	23.6	29.90	1.644
Temperature	2009	27.337	27.50	19.0	31.80	2.561
Temperature	2010	27.717	28.00	22.4	32.20	2.166
Temperature	2011	28.015	27.80	23.3	30.90	1.061
Temperature	2012	27.680	28.00	22.5	31.10	1.808
Temperature	2013	27.755	28.20	23.6	31.80	1.393
Temperature	2014	28.115	28.30	23.4	34.60	1.336
Temperature	2015	28.781	28.60	24.1	34.10	1.514
Temperature	2016	28.641	29.40	22.5	32.40	2.317
Temperature	2017	27.993	28.60	22.8	32.80	2.288

ParameterName	Year	mean	median	min	max	sd
Temperature	2018	28.052	27.70	23.8	31.80	1.614
Temperature	2019	28.356	28.10	24.0	32.80	1.819
Temperature	2020	27.402	27.30	25.5	32.10	1.999
Temperature	2021	27.677	26.40	25.2	31.20	2.135
Temperature	2022	29.983	26.70	24.1	36.00	4.093
Temperature	2023	28.160	27.40	24.8	33.30	2.514

Programs contributing WQ Data:

Table 388: Programs contributing WQ data for Water Temperature in Loxahatchee River-Lake Worth Creek Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	2014	2022	18939
Temperature	95	2016	2016	173
Temperature	5002	1991	2023	218364
Temperature	10000	1991	2019	196025

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

5002 - Florida STORET / WIN

10000 - RiverKeeper

Matlacha Pass Aquatic Preserve

Programs contributing SAV Data:

Table 389: Programs contributing SAV data in Matlacha Pass Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Braun Blanquet Score	570	2000	2023	1745

SAV Program names:

570 - Charlotte Harbor Seagrass Monitoring

Chlorophyll-a (corrected & uncorrected)

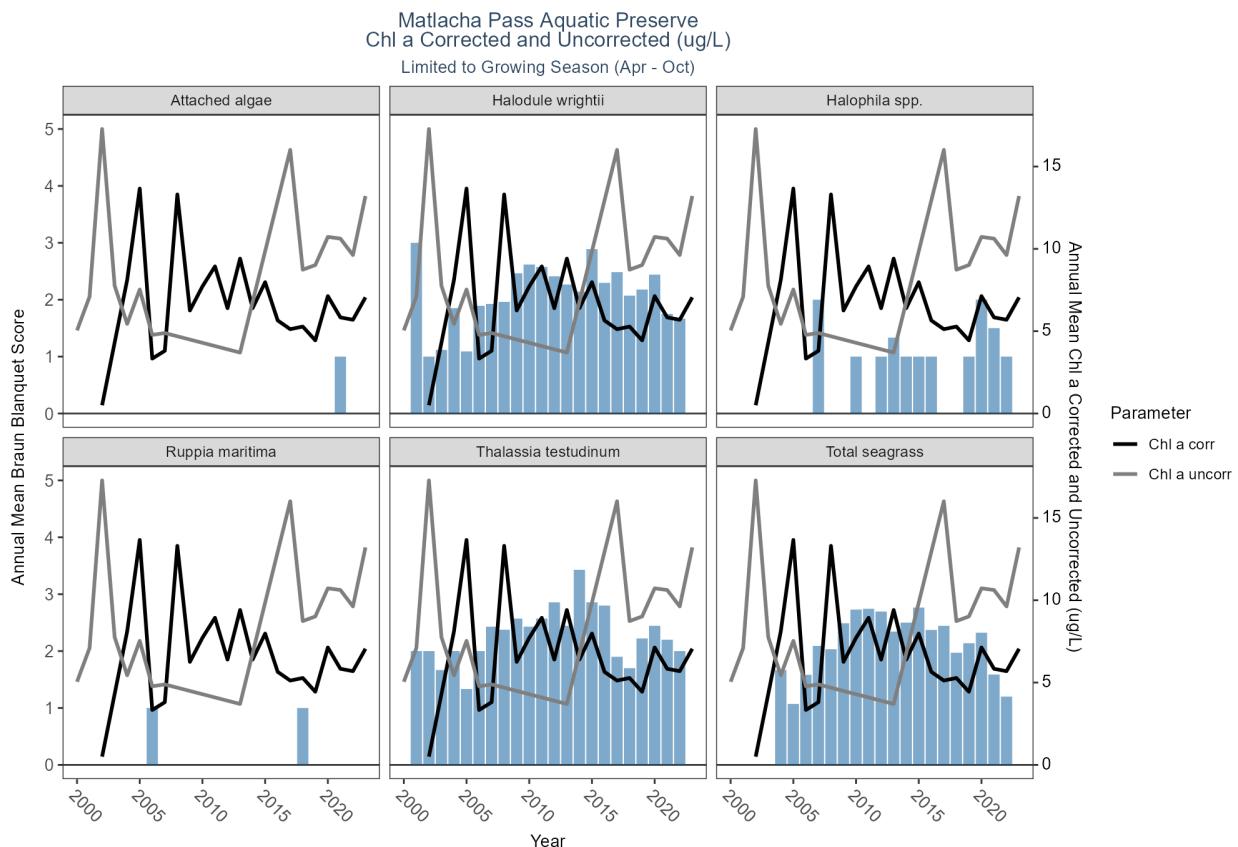


Table 390: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Matlacha Pass Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2002	0.500	0.500	0.500	0.500	0.000
Chl a corr	2004	8.118	8.000	2.000	25.000	6.373
Chl a corr	2005	13.664	6.620	0.850	75.000	16.481
Chl a corr	2006	3.333	2.580	1.000	16.400	2.966
Chl a corr	2007	3.808	3.300	1.000	14.000	2.950

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2008	13.306	6.450	0.550	84.100	17.869
Chl a corr	2009	6.255	5.200	1.100	20.300	4.446
Chl a corr	2010	7.719	6.000	1.800	29.000	5.245
Chl a corr	2011	8.935	9.100	0.640	17.300	4.362
Chl a corr	2012	6.394	4.700	1.000	19.000	4.466
Chl a corr	2013	9.409	4.350	1.000	69.000	12.274
Chl a corr	2014	6.396	4.700	1.000	20.000	5.000
Chl a corr	2015	7.976	6.750	1.000	41.000	6.951
Chl a corr	2016	5.651	4.300	1.000	25.800	4.602
Chl a corr	2017	5.121	1.900	0.760	40.000	7.758
Chl a corr	2018	5.279	3.000	0.740	20.000	4.452
Chl a corr	2019	4.443	2.350	0.700	21.000	4.390
Chl a corr	2020	7.131	5.400	0.770	20.000	5.045
Chl a corr	2021	5.836	3.740	0.810	21.000	5.380
Chl a corr	2022	5.693	3.800	0.500	17.000	5.097
Chl a corr	2023	7.054	1.910	0.500	48.000	10.253
Chl a corr	2024	1.598	1.480	0.500	3.700	0.921
Chl a uncorr	2000	5.048	4.235	1.520	10.200	3.390
Chl a uncorr	2001	7.097	4.971	1.000	20.600	5.993
Chl a uncorr	2002	17.280	17.280	17.280	17.280	NA
Chl a uncorr	2003	7.759	6.546	2.244	21.619	5.118
Chl a uncorr	2004	5.442	3.545	1.000	13.800	4.441
Chl a uncorr	2005	7.533	2.610	1.160	34.100	9.183
Chl a uncorr	2006	4.775	2.900	1.160	13.100	3.748
Chl a uncorr	2007	4.887	5.120	1.160	8.520	2.292
Chl a uncorr	2013	3.700	3.700	3.700	3.700	NA
Chl a uncorr	2017	16.014	12.000	4.400	48.000	15.143
Chl a uncorr	2018	8.735	5.800	1.600	22.000	6.742
Chl a uncorr	2019	9.016	6.750	1.000	25.000	6.779
Chl a uncorr	2020	10.725	9.800	2.600	23.000	6.661
Chl a uncorr	2021	10.623	9.600	1.300	26.000	6.601
Chl a uncorr	2022	9.623	10.500	0.760	19.000	6.188
Chl a uncorr	2023	13.210	9.500	0.980	52.000	12.716
Chl a uncorr	2024	2.717	2.550	1.300	4.300	1.314

Programs contributing WQ Data:

Table 391: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Matlacha Pass Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	103	2021	2021	15
Chl a corr	303	2019	2019	6
Chl a corr	476	2008	2024	139
Chl a corr	513	2002	2023	420
Chl a corr	5002	2005	2024	138
Chl a corr	5028	2007	2024	381
Chl a uncorr	95	2013	2013	1
Chl a uncorr	103	2001	2021	40
Chl a uncorr	115	2001	2001	1
Chl a uncorr	476	1998	2024	155

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a uncorr	5028	2017	2024	125

WQ Program names:

- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 303 - River, Estuary and Coastal Observing Network
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 513 - Coastal Charlotte Harbor Monitoring Network
- 5002 - Florida STORET / WIN
- 5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 115 - Environmental Monitoring Assessment Program

Dissolved Oxygen

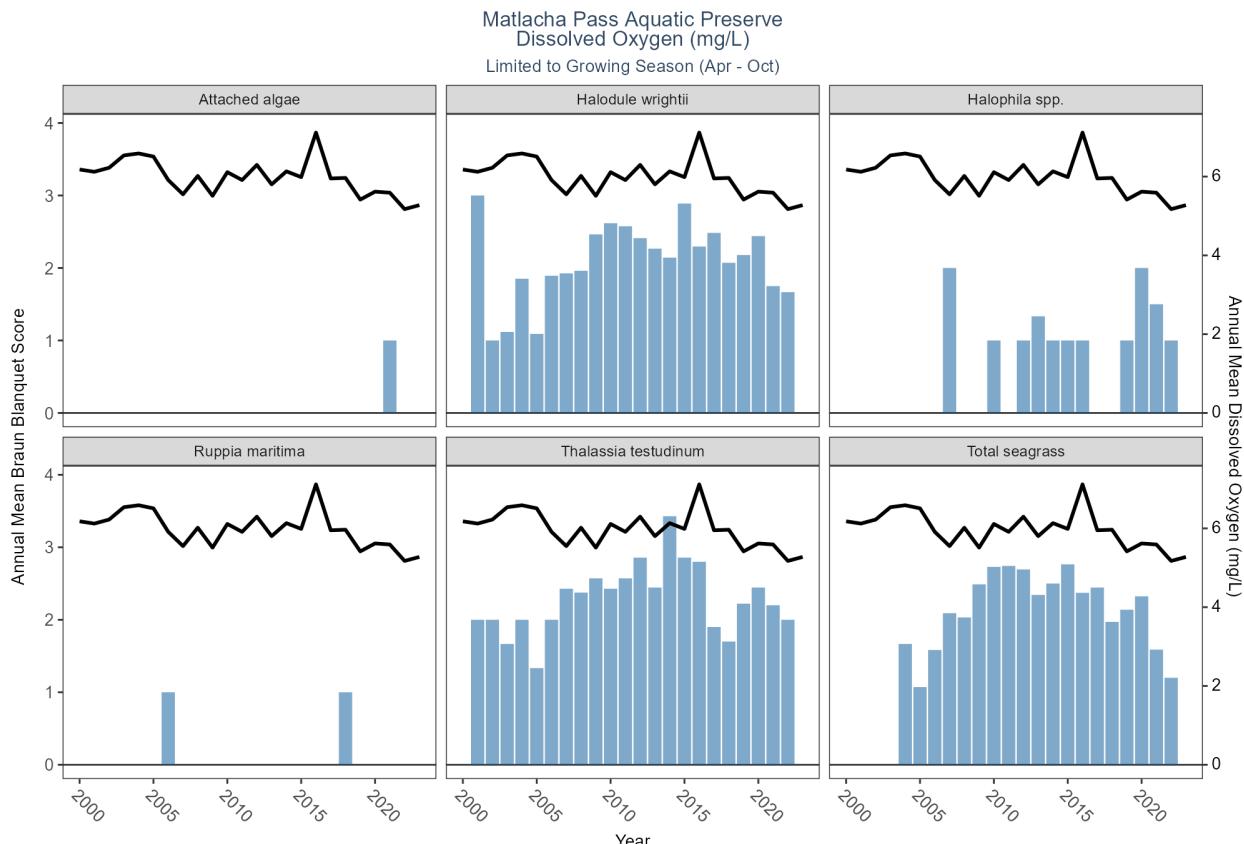


Table 392: WQ Summary for Dissolved Oxygen in Matlacha Pass Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2000	6.179	6.300	0.70	11.20	1.530
Dissolved Oxygen	2001	6.122	6.200	0.50	10.50	1.701
Dissolved Oxygen	2002	6.224	6.000	2.50	12.30	1.724
Dissolved Oxygen	2003	6.538	6.200	3.00	14.50	1.856

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2004	6.587	6.700	2.00	12.50	1.891
Dissolved Oxygen	2005	6.508	6.400	0.24	12.40	1.801
Dissolved Oxygen	2006	5.912	6.000	1.30	14.90	1.820
Dissolved Oxygen	2007	5.550	5.300	1.50	11.50	1.758
Dissolved Oxygen	2008	6.017	5.800	2.00	12.50	1.913
Dissolved Oxygen	2009	5.512	5.495	2.00	10.20	1.583
Dissolved Oxygen	2010	6.112	5.775	2.00	12.40	2.051
Dissolved Oxygen	2011	5.912	5.830	1.80	10.10	1.659
Dissolved Oxygen	2012	6.296	6.300	1.40	13.90	1.637
Dissolved Oxygen	2013	5.803	5.900	1.30	9.70	1.662
Dissolved Oxygen	2014	6.133	6.000	2.60	12.00	1.696
Dissolved Oxygen	2015	5.986	5.800	2.70	10.80	1.379
Dissolved Oxygen	2016	7.117	7.000	0.10	12.00	1.889
Dissolved Oxygen	2017	5.952	6.100	1.40	15.40	1.880
Dissolved Oxygen	2018	5.966	6.100	2.30	13.77	1.732
Dissolved Oxygen	2019	5.416	5.200	1.50	13.20	1.858
Dissolved Oxygen	2020	5.618	5.700	1.10	10.40	2.203
Dissolved Oxygen	2021	5.591	5.400	1.34	13.50	1.987
Dissolved Oxygen	2022	5.173	5.145	0.60	9.70	2.000
Dissolved Oxygen	2023	5.275	5.470	1.47	8.13	1.178
Dissolved Oxygen	2024	7.229	7.100	5.55	8.80	0.991

Programs contributing WQ Data:

Table 393: Programs contributing WQ data for Dissolved Oxygen in Matlacha Pass Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	1989	2022	3322
Dissolved Oxygen	95	1996	2018	303
Dissolved Oxygen	103	2021	2021	62
Dissolved Oxygen	115	2001	2001	5
Dissolved Oxygen	303	2018	2019	8
Dissolved Oxygen	476	1998	2024	227
Dissolved Oxygen	513	2002	2024	884
Dissolved Oxygen	5002	1995	2024	1930
Dissolved Oxygen	5028	2008	2024	70

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 303 - River, Estuary and Coastal Observing Network
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 513 - Coastal Charlotte Harbor Monitoring Network
- 5002 - Florida STORET / WIN
- 5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

Dissolved Oxygen Saturation

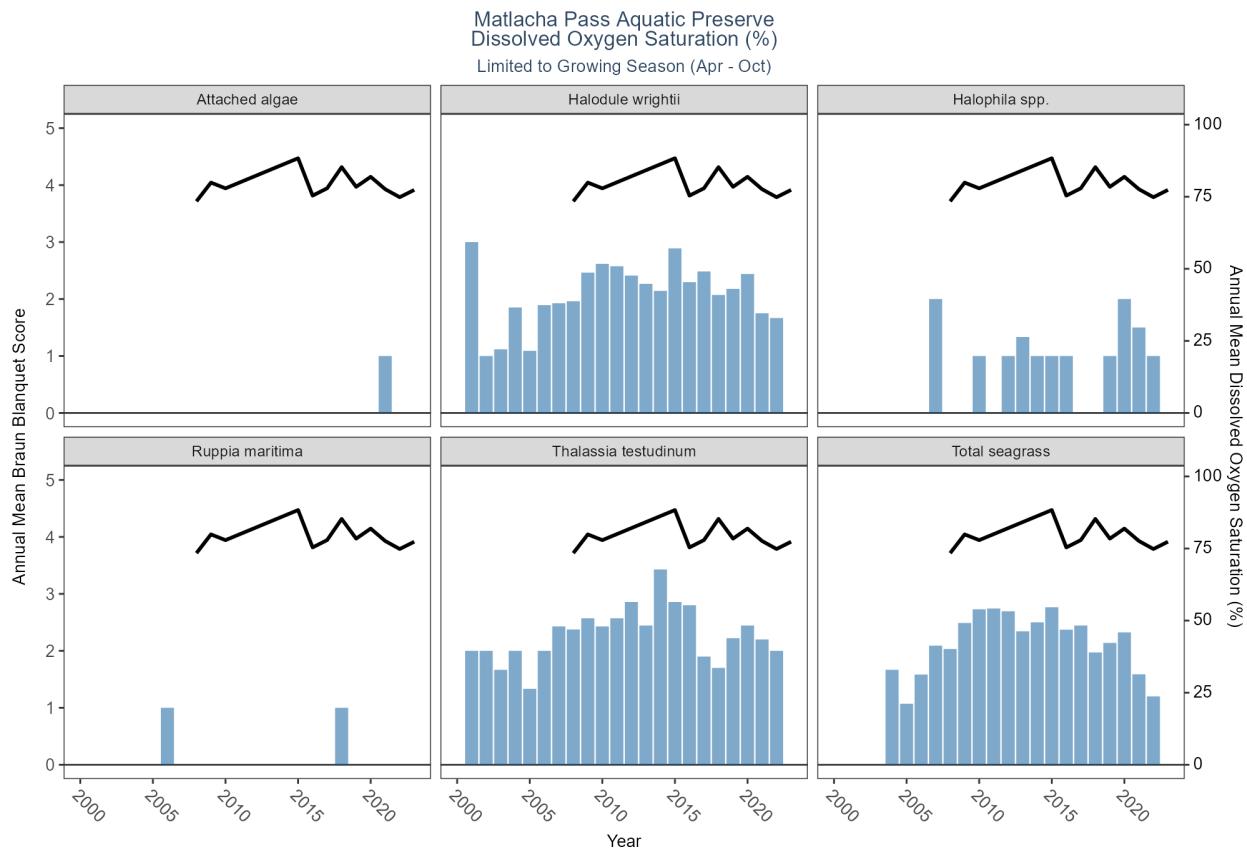


Table 394: WQ Summary for Dissolved Oxygen Saturation in Matlacha Pass Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2008	73.400	73.40	67.00	79.8	9.051
Dissolved Oxygen Saturation	2009	79.900	75.85	61.00	100.2	12.014
Dissolved Oxygen Saturation	2010	77.908	77.50	55.40	103.4	12.169
Dissolved Oxygen Saturation	2015	88.344	84.80	65.10	125.2	14.173
Dissolved Oxygen Saturation	2016	75.379	84.50	7.03	109.4	30.873
Dissolved Oxygen Saturation	2017	77.925	75.90	37.40	108.1	16.152
Dissolved Oxygen Saturation	2018	85.262	84.60	46.91	116.3	16.161
Dissolved Oxygen Saturation	2019	78.428	79.20	29.90	119.8	19.563
Dissolved Oxygen Saturation	2020	81.910	82.70	44.30	121.7	22.132
Dissolved Oxygen Saturation	2021	77.609	77.95	19.00	139.0	22.978
Dissolved Oxygen Saturation	2022	74.833	79.75	1.20	139.6	27.307
Dissolved Oxygen Saturation	2023	77.356	80.80	23.00	106.1	16.649
Dissolved Oxygen Saturation	2024	98.787	96.00	76.70	125.1	13.854

Programs contributing WQ Data:

Table 395: Programs contributing WQ data for Dissolved Oxygen Saturation in Matlacha Pass Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	95	2015	2018	70
Dissolved Oxygen Saturation	303	2019	2019	4
Dissolved Oxygen Saturation	476	2018	2024	33
Dissolved Oxygen Saturation	513	2017	2024	329
Dissolved Oxygen Saturation	5002	2018	2024	126
Dissolved Oxygen Saturation	5028	2008	2024	76

WQ Program names:

95 - Harmful Algal Bloom Marine Observation Network

303 - River, Estuary and Coastal Observing Network

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

pH

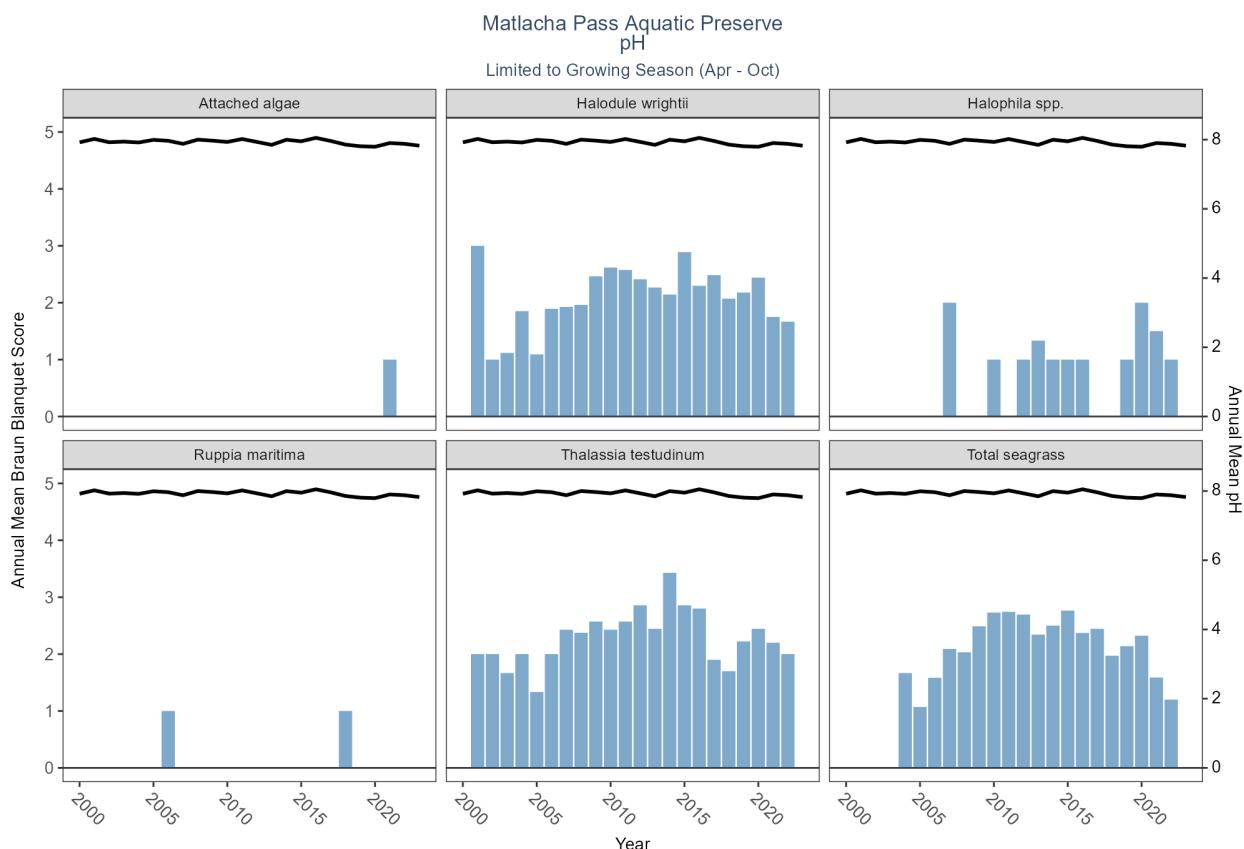


Table 396: WQ Summary for pH in Matlacha Pass Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	2000	7.922	7.900	7.40	8.50	0.253
pH	2001	8.020	8.000	7.20	8.90	0.253
pH	2002	7.925	7.900	7.34	8.60	0.235
pH	2003	7.942	7.900	7.40	8.80	0.264
pH	2004	7.918	7.945	4.60	8.60	0.296
pH	2005	7.993	8.000	7.00	8.90	0.284
pH	2006	7.966	8.000	5.64	8.70	0.444
pH	2007	7.878	7.900	6.52	8.60	0.254
pH	2008	8.000	8.000	5.20	8.80	0.342
pH	2009	7.970	8.000	7.30	8.66	0.269
pH	2010	7.933	7.900	7.30	8.60	0.219
pH	2011	8.017	8.020	7.20	8.80	0.242
pH	2012	7.934	7.900	7.12	8.90	0.250
pH	2013	7.848	7.900	6.70	8.45	0.305
pH	2014	7.997	8.000	7.40	8.40	0.192
pH	2015	7.952	8.000	6.90	10.50	0.310
pH	2016	8.051	8.075	7.20	8.70	0.237
pH	2017	7.961	7.925	7.00	9.60	0.396
pH	2018	7.856	7.900	7.20	8.53	0.264
pH	2019	7.809	7.800	7.10	8.80	0.287
pH	2020	7.794	7.800	7.20	8.40	0.306
pH	2021	7.901	7.900	7.17	8.70	0.315
pH	2022	7.878	7.900	7.10	8.62	0.328
pH	2023	7.825	7.820	7.29	8.58	0.216
pH	2024	8.221	8.200	7.96	8.55	0.183

Programs contributing WQ Data:

Table 397: Programs contributing WQ data for pH in Matlacha Pass Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	1989	2022	3294
pH	95	1996	2018	300
pH	103	2021	2021	71
pH	115	2001	2001	5
pH	476	1998	2024	258
pH	513	2002	2024	875
pH	5002	1995	2024	1552
pH	5028	2008	2024	100

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

Salinity

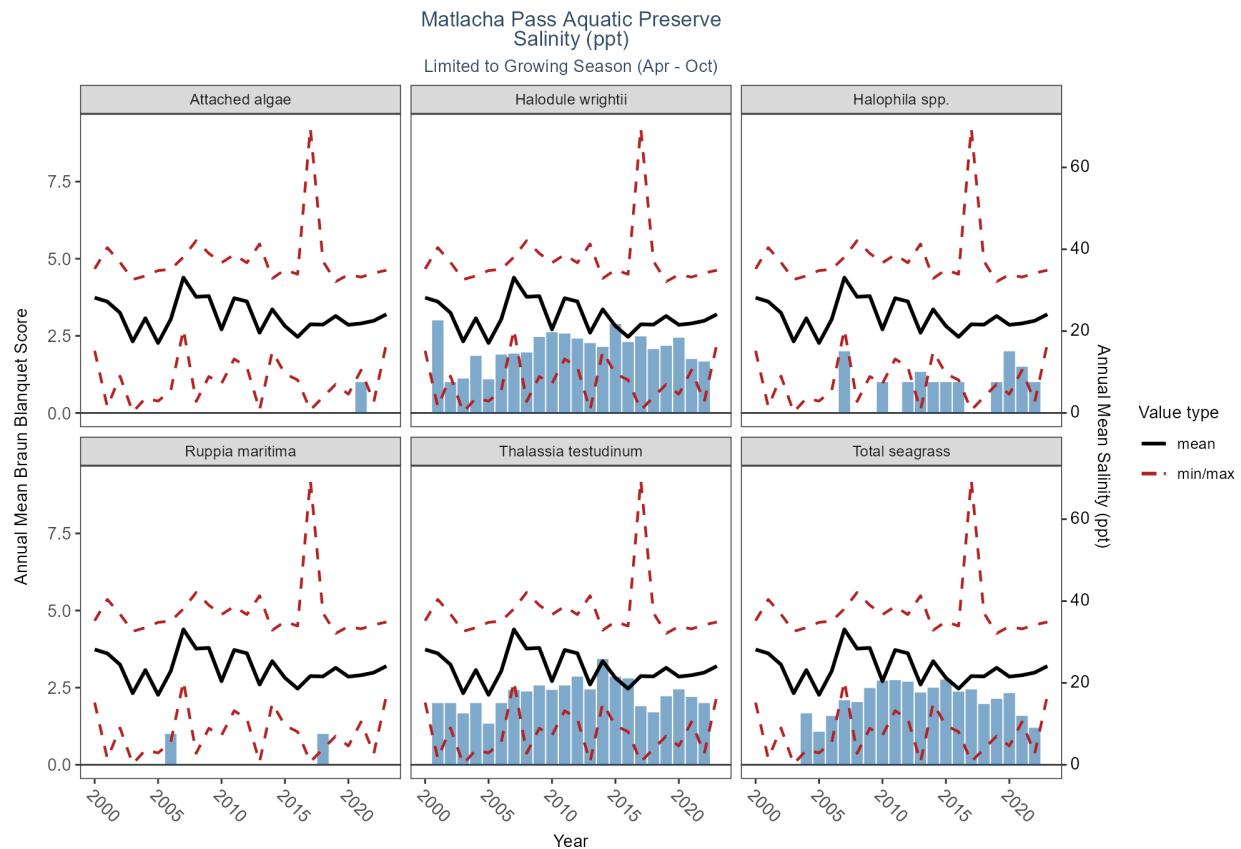


Table 398: WQ Summary for Salinity in Matlacha Pass Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	2000	28.170	29.200	15.20	35.20	4.913
Salinity	2001	27.214	30.500	1.50	40.40	9.107
Salinity	2002	24.476	24.250	9.00	36.80	7.068
Salinity	2003	17.487	19.100	0.20	32.60	7.913
Salinity	2004	23.146	25.950	3.60	33.50	7.014
Salinity	2005	17.093	17.200	2.90	34.80	8.971
Salinity	2006	22.891	23.400	5.50	35.10	7.487
Salinity	2007	33.079	34.800	20.40	38.10	3.637
Salinity	2008	28.382	32.750	2.80	42.10	10.026
Salinity	2009	28.550	28.900	8.90	39.00	6.816
Salinity	2010	20.424	20.050	7.20	36.70	4.991
Salinity	2011	28.045	29.650	13.20	38.70	6.407
Salinity	2012	27.248	31.800	11.20	36.70	7.865
Salinity	2013	19.602	18.500	0.70	41.30	10.174
Salinity	2014	25.318	25.000	15.00	32.88	5.092
Salinity	2015	21.244	21.150	9.60	35.00	6.195

ParameterName	Year	mean	median	min	max	sd
Salinity	2016	18.594	18.735	8.06	33.90	5.182
Salinity	2017	21.663	19.200	0.70	69.60	10.795
Salinity	2018	21.586	20.000	3.90	37.07	7.867
Salinity	2019	23.690	25.525	7.00	32.10	5.091
Salinity	2020	21.536	21.400	4.60	33.80	6.770
Salinity	2021	21.879	21.500	10.48	33.20	5.966
Salinity	2022	22.524	22.030	2.70	34.18	5.301
Salinity	2023	24.110	23.720	16.95	34.88	4.619
Salinity	2024	21.914	23.790	15.05	25.68	3.592

Programs contributing WQ Data:

Table 399: Programs contributing WQ data for Salinity in Matlacha Pass Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	1989	2022	3332
Salinity	95	1954	2018	336
Salinity	115	2001	2001	5
Salinity	303	2018	2019	9
Salinity	476	1998	2024	271
Salinity	513	2002	2024	883
Salinity	5002	1995	2017	1436
Salinity	5028	2008	2024	100

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 115 - Environmental Monitoring Assessment Program
- 303 - River, Estuary and Coastal Observing Network
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 513 - Coastal Charlotte Harbor Monitoring Network
- 5002 - Florida STORET / WIN
- 5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

Secchi Depth

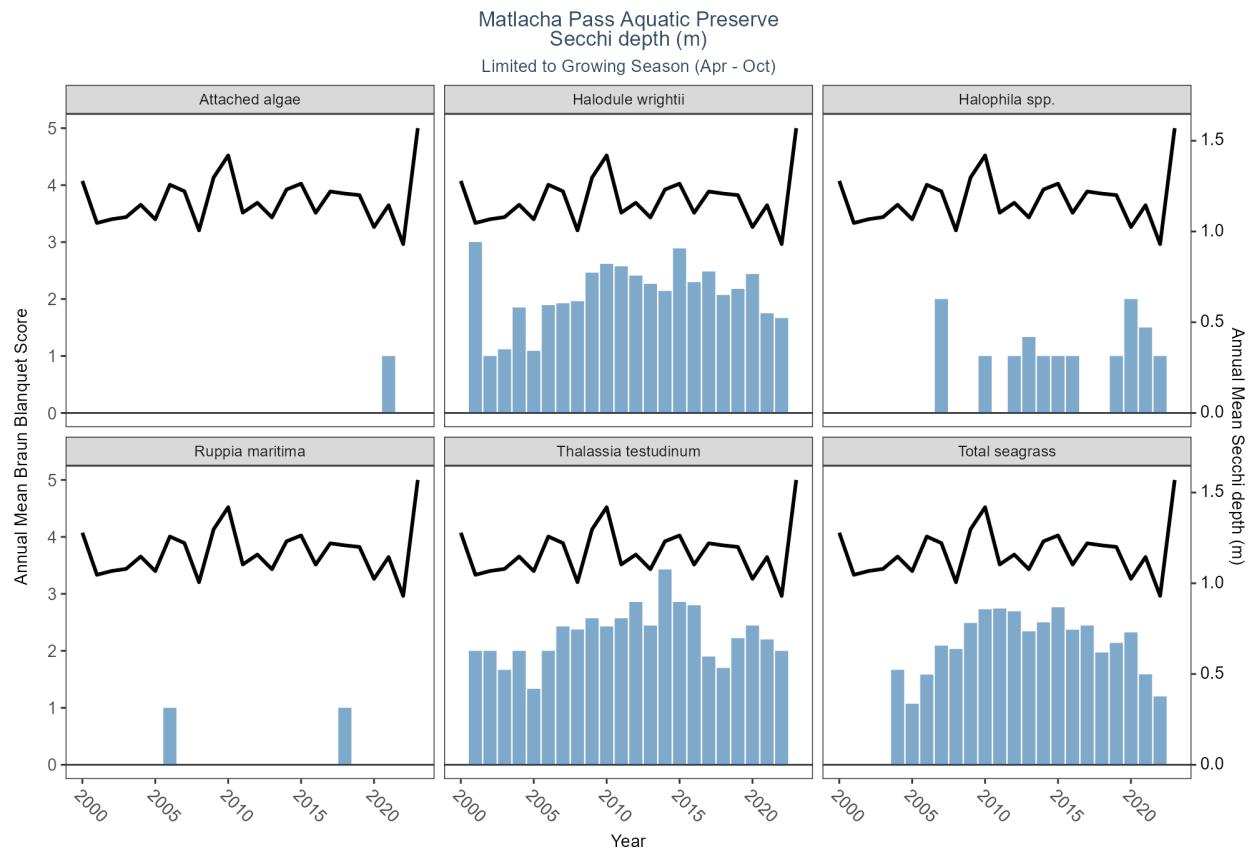


Table 400: WQ Summary for Secchi Depth in Matlacha Pass Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2000	1.278	1.10	0.30	2.5	0.514
Secchi depth	2001	1.047	1.00	0.20	2.0	0.418
Secchi depth	2002	1.067	0.95	0.20	2.7	0.503
Secchi depth	2003	1.079	0.90	0.30	2.9	0.551
Secchi depth	2004	1.147	0.80	0.40	3.1	0.731
Secchi depth	2005	1.067	0.85	0.20	3.0	0.656
Secchi depth	2006	1.258	1.00	0.30	3.0	0.606
Secchi depth	2007	1.222	1.00	0.40	2.9	0.578
Secchi depth	2008	1.006	0.90	0.50	2.2	0.394
Secchi depth	2009	1.297	1.10	0.60	3.1	0.639
Secchi depth	2010	1.419	1.10	0.10	3.4	0.755
Secchi depth	2011	1.104	1.00	0.40	2.0	0.370
Secchi depth	2012	1.158	1.00	0.60	2.2	0.474
Secchi depth	2013	1.077	0.90	0.50	3.2	0.551
Secchi depth	2014	1.231	1.00	0.40	2.6	0.579
Secchi depth	2015	1.263	1.10	0.30	3.1	0.656
Secchi depth	2016	1.103	0.90	0.40	2.7	0.523
Secchi depth	2017	1.220	1.00	0.40	2.9	0.638
Secchi depth	2018	1.209	1.00	0.30	3.0	0.544
Secchi depth	2019	1.200	1.10	0.50	3.3	0.529

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2020	1.024	0.90	0.50	2.7	0.488
Secchi depth	2021	1.145	1.00	0.30	2.4	0.472
Secchi depth	2022	0.930	0.80	0.30	5.1	0.501
Secchi depth	2023	1.569	1.60	0.70	2.4	0.414
Secchi depth	2024	1.514	1.70	0.98	1.8	0.331

Programs contributing WQ Data:

Table 401: Programs contributing WQ data for Secchi Depth in Matlacha Pass Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	1994	2022	3207
Secchi depth	103	2021	2021	32
Secchi depth	115	2001	2001	1
Secchi depth	303	2018	2019	5
Secchi depth	476	1998	2024	215
Secchi depth	513	2002	2024	309
Secchi depth	5002	2005	2005	11
Secchi depth	5028	2008	2024	40

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 303 - River, Estuary and Coastal Observing Network
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 513 - Coastal Charlotte Harbor Monitoring Network
- 5002 - Florida STORET / WIN
- 5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

Total Nitrogen & Total Phosphorus

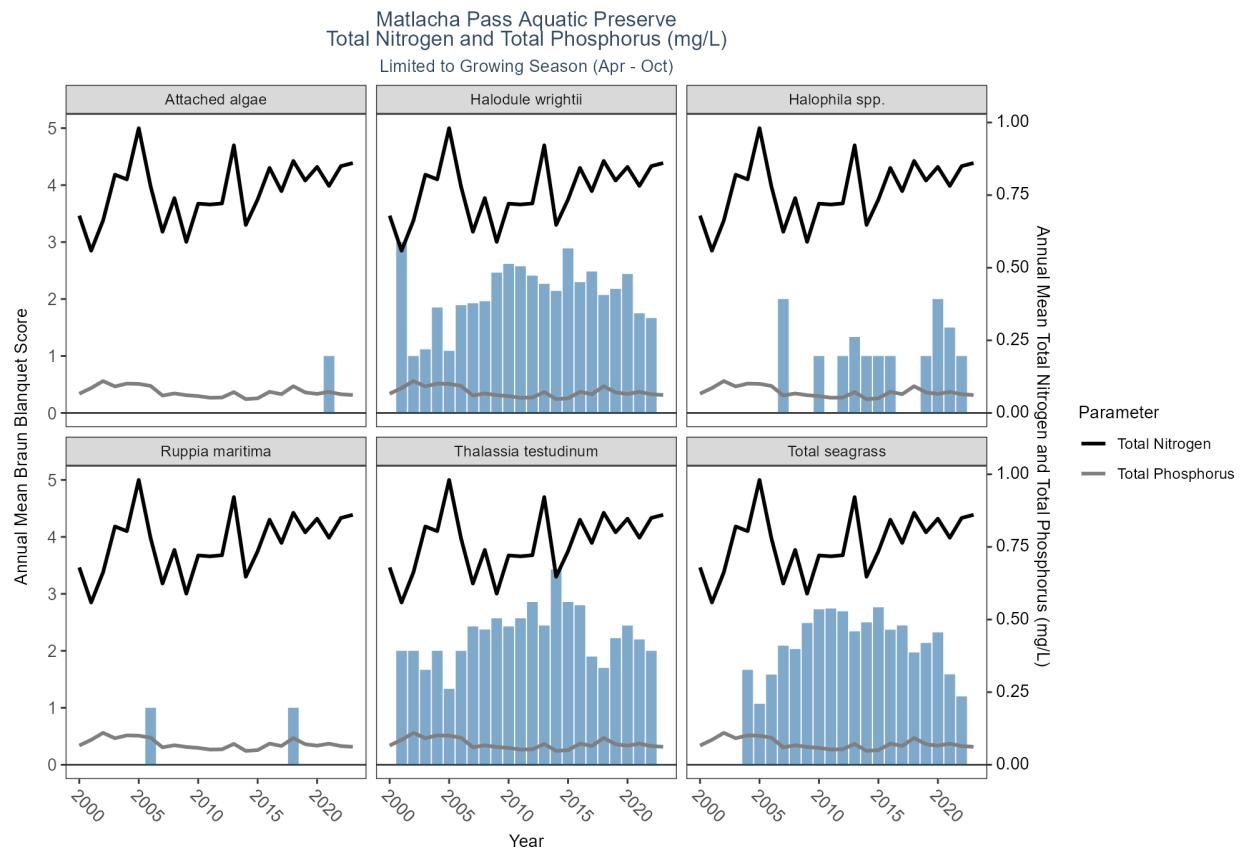


Table 402: WQ Summary for Total Nitrogen & Total Phosphorus in Matlacha Pass Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2000	0.679	0.835	0.150	1.210	0.358
Total Nitrogen	2001	0.559	0.430	0.080	1.730	0.410
Total Nitrogen	2002	0.663	0.650	0.000	1.480	0.232
Total Nitrogen	2003	0.820	0.630	0.290	2.470	0.505
Total Nitrogen	2004	0.804	0.825	0.404	1.580	0.247
Total Nitrogen	2005	0.981	1.000	0.080	2.304	0.426
Total Nitrogen	2006	0.780	0.799	0.290	1.560	0.283
Total Nitrogen	2007	0.624	0.647	0.060	1.006	0.244
Total Nitrogen	2008	0.740	0.667	0.084	1.930	0.374
Total Nitrogen	2009	0.589	0.652	0.084	1.004	0.243
Total Nitrogen	2010	0.721	0.690	0.317	1.460	0.200
Total Nitrogen	2011	0.718	0.735	0.200	1.010	0.189
Total Nitrogen	2012	0.721	0.717	0.120	1.220	0.196
Total Nitrogen	2013	0.922	0.870	0.120	4.100	0.530
Total Nitrogen	2014	0.647	0.664	0.200	1.100	0.212
Total Nitrogen	2015	0.735	0.730	0.464	1.110	0.129
Total Nitrogen	2016	0.844	0.790	0.604	2.249	0.289
Total Nitrogen	2017	0.764	0.744	0.326	1.290	0.232
Total Nitrogen	2018	0.868	0.857	0.534	1.300	0.183

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2019	0.800	0.772	0.354	1.890	0.246
Total Nitrogen	2020	0.847	0.827	0.394	1.226	0.208
Total Nitrogen	2021	0.782	0.767	0.404	1.210	0.152
Total Nitrogen	2022	0.850	0.844	0.484	1.310	0.185
Total Nitrogen	2023	0.860	0.855	0.504	1.133	0.156
Total Nitrogen	2024	0.789	0.820	0.539	1.110	0.184
Total Phosphorus	2000	0.066	0.070	0.040	0.110	0.020
Total Phosphorus	2001	0.086	0.080	0.049	0.170	0.042
Total Phosphorus	2002	0.110	0.090	0.050	0.290	0.059
Total Phosphorus	2003	0.091	0.060	0.030	0.340	0.084
Total Phosphorus	2004	0.101	0.076	0.068	0.170	0.037
Total Phosphorus	2005	0.100	0.095	0.020	0.164	0.039
Total Phosphorus	2006	0.093	0.079	0.050	0.150	0.030
Total Phosphorus	2007	0.060	0.058	0.032	0.110	0.022
Total Phosphorus	2008	0.067	0.052	0.004	0.220	0.049
Total Phosphorus	2009	0.061	0.060	0.033	0.100	0.018
Total Phosphorus	2010	0.058	0.058	0.027	0.100	0.016
Total Phosphorus	2011	0.052	0.045	0.033	0.100	0.017
Total Phosphorus	2012	0.053	0.048	0.033	0.120	0.018
Total Phosphorus	2013	0.072	0.057	0.028	0.150	0.035
Total Phosphorus	2014	0.048	0.040	0.025	0.110	0.020
Total Phosphorus	2015	0.050	0.045	0.031	0.100	0.016
Total Phosphorus	2016	0.073	0.068	0.046	0.140	0.022
Total Phosphorus	2017	0.065	0.051	0.010	0.190	0.049
Total Phosphorus	2018	0.092	0.085	0.016	0.220	0.044
Total Phosphorus	2019	0.071	0.052	0.022	0.270	0.045
Total Phosphorus	2020	0.066	0.055	0.020	0.130	0.031
Total Phosphorus	2021	0.073	0.049	0.010	1.390	0.126
Total Phosphorus	2022	0.064	0.049	0.020	0.160	0.035
Total Phosphorus	2023	0.062	0.057	0.010	0.170	0.036
Total Phosphorus	2024	0.042	0.040	0.029	0.055	0.009

Programs contributing WQ Data:

Table 403: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Matlacha Pass Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	103	2001	2005	7
Total Nitrogen	115	2001	2001	1
Total Nitrogen	303	2018	2019	9
Total Nitrogen	476	1998	2024	234
Total Nitrogen	513	2009	2023	27
Total Nitrogen	5002	1996	2024	485
Total Nitrogen	5028	2006	2024	407
Total Phosphorus	103	2001	2021	39
Total Phosphorus	115	2001	2001	1
Total Phosphorus	303	2018	2019	9
Total Phosphorus	476	1998	2024	255
Total Phosphorus	513	2017	2024	203
Total Phosphorus	5002	2005	2024	138

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Phosphorus	5028	2006	2024	407

WQ Program names:

- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 303 - River, Estuary and Coastal Observing Network
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 513 - Coastal Charlotte Harbor Monitoring Network
- 5002 - Florida STORET / WIN
- 5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

Total Suspended Solids

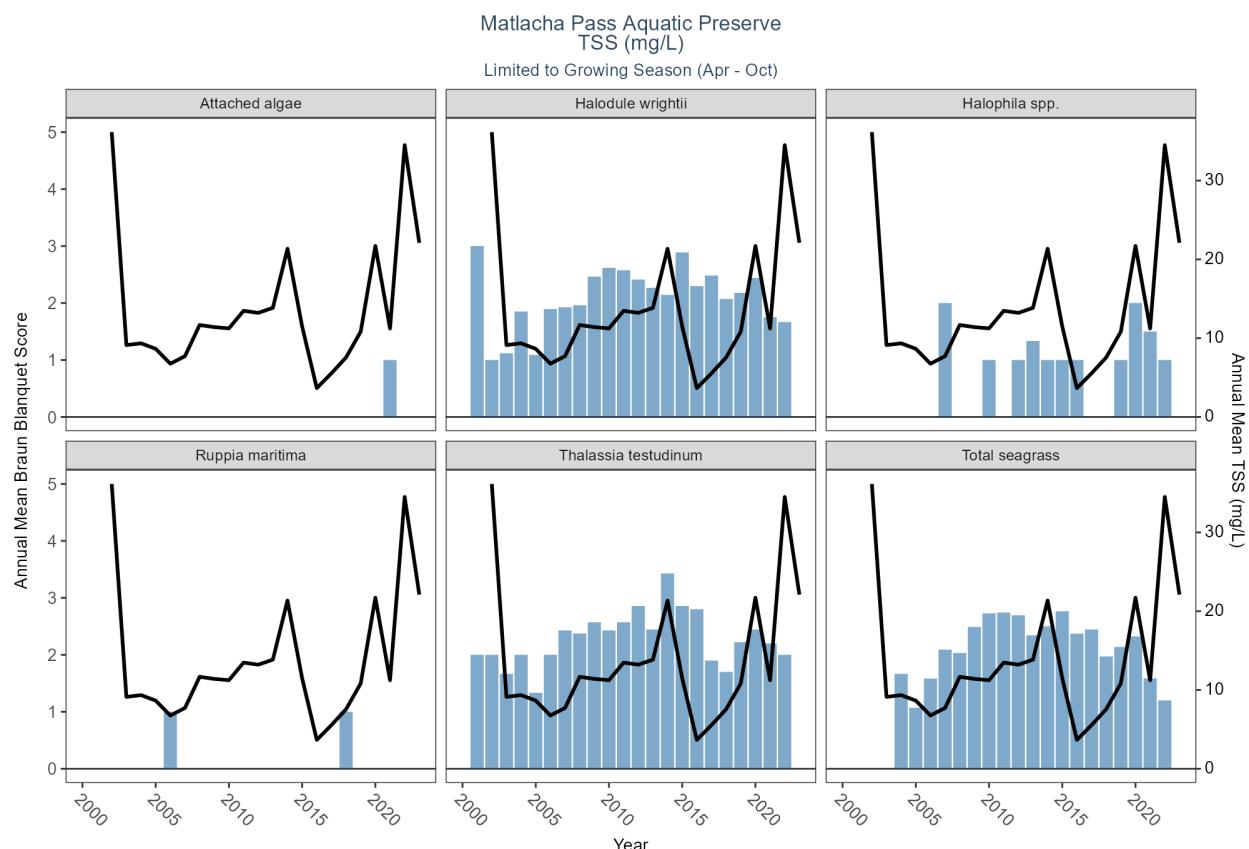


Table 404: WQ Summary for Total Suspended Solids in Matlacha Pass Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	2002	36.152	33.500	19.80	72.0	12.232
TSS	2003	9.123	6.000	0.50	51.0	11.421
TSS	2004	9.349	7.500	2.00	36.0	6.831
TSS	2005	8.650	6.750	2.00	31.2	5.964
TSS	2006	6.761	5.500	0.50	19.8	3.771

ParameterName	Year	mean	median	min	max	sd
TSS	2007	7.718	5.500	0.50	20.8	5.077
TSS	2008	11.674	9.650	0.50	31.6	6.803
TSS	2009	11.406	9.880	3.00	31.0	6.817
TSS	2010	11.243	10.250	3.00	25.0	5.623
TSS	2011	13.474	9.725	0.50	45.6	10.739
TSS	2012	13.212	12.250	0.05	41.9	9.014
TSS	2013	13.847	12.700	0.50	46.5	8.370
TSS	2014	21.353	21.500	0.50	47.5	10.877
TSS	2015	11.481	11.250	0.50	27.5	8.543
TSS	2016	3.661	3.500	0.50	8.5	2.377
TSS	2017	5.543	5.500	2.00	11.5	2.296
TSS	2018	7.559	4.500	1.50	35.9	7.674
TSS	2019	10.836	6.450	0.50	41.5	10.195
TSS	2020	21.712	7.225	1.95	107.5	31.776
TSS	2021	11.227	7.550	1.50	44.5	9.765
TSS	2022	34.503	23.000	1.30	525.0	75.956
TSS	2023	22.104	28.500	0.50	62.0	17.269
TSS	2024	19.130	9.575	3.00	42.5	17.513

Programs contributing WQ Data:

Table 405: Programs contributing WQ data for Total Suspended Solids in Matlacha Pass Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	103	2021	2021	15
TSS	513	2002	2024	633
TSS	5002	2003	2024	382

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

Turbidity

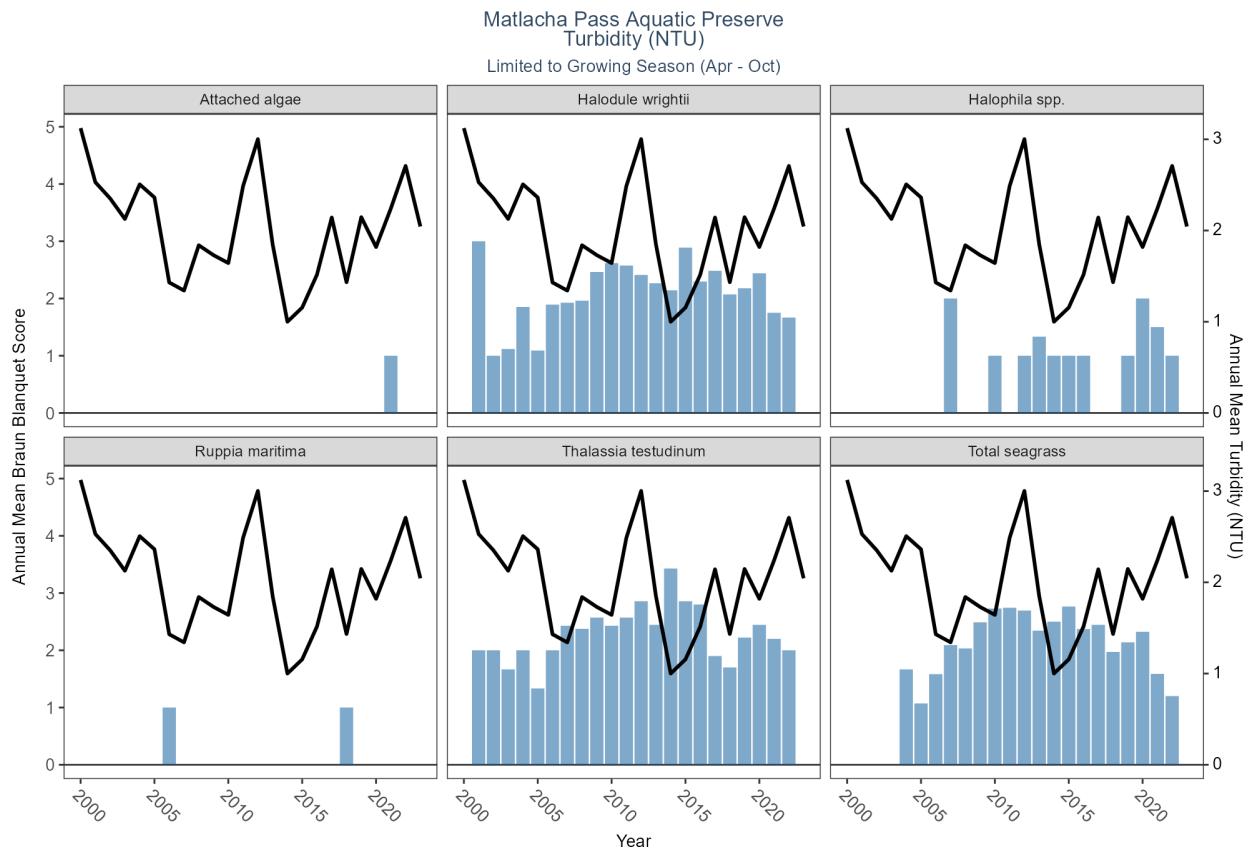


Table 406: WQ Summary for Turbidity in Matlacha Pass Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	2000	3.123	2.400	0.400	14.00	2.434
Turbidity	2001	2.529	2.200	0.210	8.10	1.478
Turbidity	2002	2.352	1.700	0.320	9.90	1.996
Turbidity	2003	2.127	2.000	0.160	10.30	1.251
Turbidity	2004	2.506	1.900	0.040	15.00	2.592
Turbidity	2005	2.362	2.200	0.200	7.40	1.440
Turbidity	2006	1.431	1.250	0.150	3.25	0.748
Turbidity	2007	1.342	1.140	0.260	3.34	0.704
Turbidity	2008	1.839	1.800	0.110	4.80	0.917
Turbidity	2009	1.730	1.590	0.210	4.99	0.936
Turbidity	2010	1.643	1.500	0.150	4.09	0.705
Turbidity	2011	2.488	2.340	0.810	5.05	0.884
Turbidity	2012	3.002	2.000	0.710	40.00	4.626
Turbidity	2013	1.849	1.670	0.120	6.74	1.423
Turbidity	2014	1.000	0.870	0.080	3.47	0.723
Turbidity	2015	1.156	1.080	0.080	3.20	0.865
Turbidity	2016	1.516	1.590	0.140	2.88	0.670
Turbidity	2017	2.143	1.755	0.770	5.50	1.197
Turbidity	2018	1.433	0.930	0.000	4.67	1.171
Turbidity	2019	2.146	1.315	0.200	22.04	3.459

ParameterName	Year	mean	median	min	max	sd
Turbidity	2020	1.819	1.580	0.200	4.43	1.243
Turbidity	2021	2.241	2.090	0.330	4.90	1.348
Turbidity	2022	2.708	2.385	0.446	8.00	1.905
Turbidity	2023	2.044	1.590	0.020	8.71	1.986
Turbidity	2024	0.681	0.402	0.040	1.50	0.533

Programs contributing WQ Data:

Table 407: Programs contributing WQ data for Turbidity in Matlacha Pass Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	95	2012	2012	15
Turbidity	103	2005	2021	23
Turbidity	303	2018	2019	9
Turbidity	476	1999	2024	261
Turbidity	513	2002	2024	597
Turbidity	5002	1995	2024	1568

WQ Program names:

95 - Harmful Algal Bloom Marine Observation Network

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

303 - River, Estuary and Coastal Observing Network

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

Water Temperature

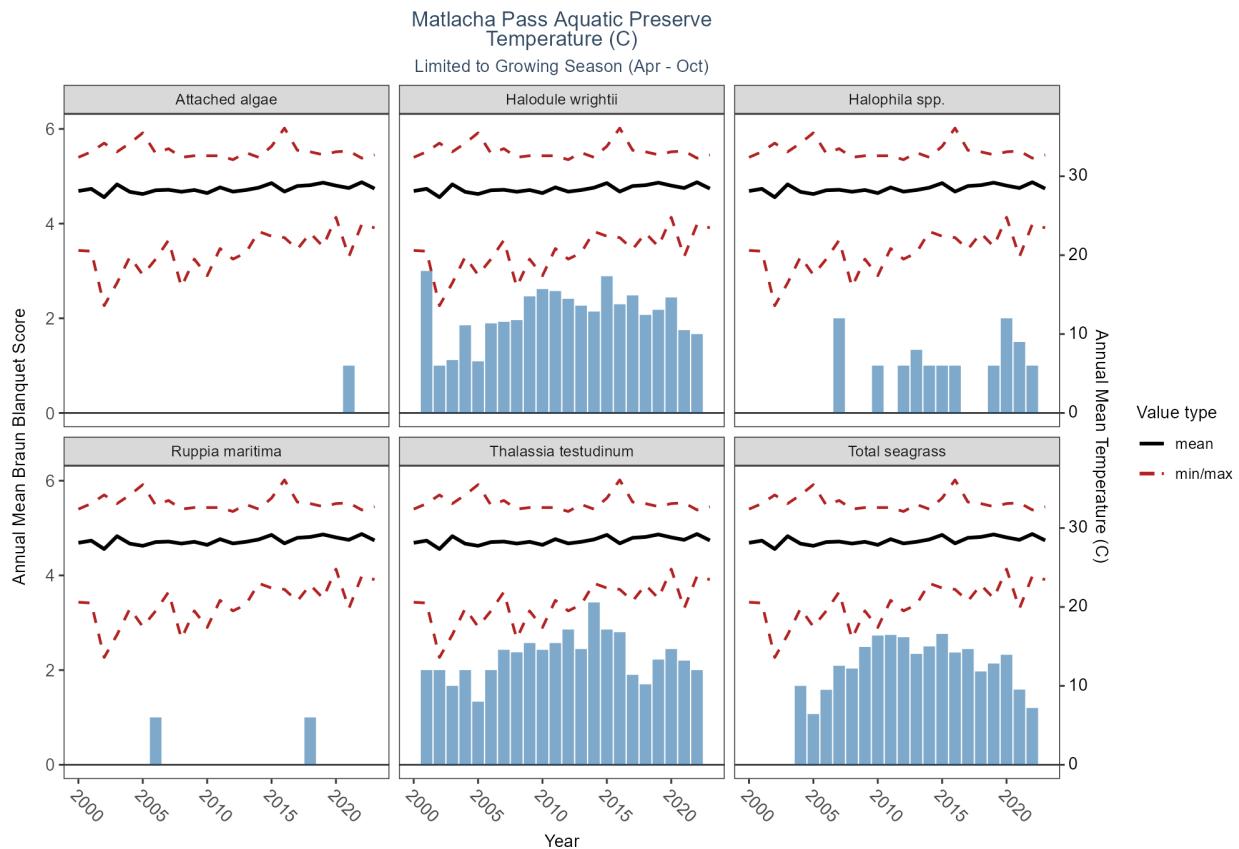


Table 408: WQ Summary for Water Temperature in Matlacha Pass Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	2000	28.132	29.100	20.600	32.400	2.815
Temperature	2001	28.406	29.400	20.500	33.100	2.784
Temperature	2002	27.345	28.550	13.600	34.200	3.975
Temperature	2003	28.971	30.000	16.480	33.100	3.137
Temperature	2004	28.021	28.200	19.800	34.200	2.853
Temperature	2005	27.750	28.100	17.500	35.500	3.487
Temperature	2006	28.226	29.100	19.500	32.900	2.877
Temperature	2007	28.289	28.600	21.900	33.500	2.689
Temperature	2008	28.036	28.500	15.980	32.400	2.934
Temperature	2009	28.257	29.300	19.500	32.600	2.797
Temperature	2010	27.869	28.800	17.400	32.600	2.991
Temperature	2011	28.593	28.800	20.840	32.600	2.298
Temperature	2012	28.051	28.700	19.500	32.100	2.475
Temperature	2013	28.255	28.785	20.300	33.000	2.202
Temperature	2014	28.554	28.900	23.000	32.400	2.159
Temperature	2015	29.133	28.900	22.400	33.800	2.510
Temperature	2016	28.060	28.500	22.230	36.100	3.179
Temperature	2017	28.764	29.300	20.750	33.300	2.465
Temperature	2018	28.870	29.200	22.800	33.100	2.204

ParameterName	Year	mean	median	min	max	sd
Temperature	2019	29.188	29.450	21.100	32.724	1.984
Temperature	2020	28.815	29.100	24.800	33.100	1.896
Temperature	2021	28.509	28.640	19.800	33.200	2.161
Temperature	2022	29.242	29.760	23.900	32.300	2.030
Temperature	2023	28.436	28.288	23.466	32.700	2.559
Temperature	2024	24.671	24.548	22.600	28.400	1.678

Programs contributing WQ Data:

Table 409: Programs contributing WQ data for Water Temperature in Matlacha Pass Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	1989	2022	3336
Temperature	95	1954	2018	345
Temperature	103	2021	2021	71
Temperature	115	2001	2001	5
Temperature	303	2018	2019	9
Temperature	476	1998	2024	275
Temperature	513	2002	2024	885
Temperature	5002	1995	2024	1933
Temperature	5028	2008	2024	94

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 303 - River, Estuary and Coastal Observing Network
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 513 - Coastal Charlotte Harbor Monitoring Network
- 5002 - Florida STORET / WIN
- 5028 - Charlotte Harbor Aquatic Preserves Monthly Water Quality Program

Mosquito Lagoon Aquatic Preserve

Programs contributing SAV Data:

Table 410: Programs contributing SAV data in Mosquito Lagoon Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Percent Cover	3013	2009	2023	4944
Percent Occurrence	3013	2009	2023	5560

SAV Program names:

3013 - Seagrass (SJRWMMD)
3013 - Seagrass (SJRWMMD)

Dissolved Oxygen

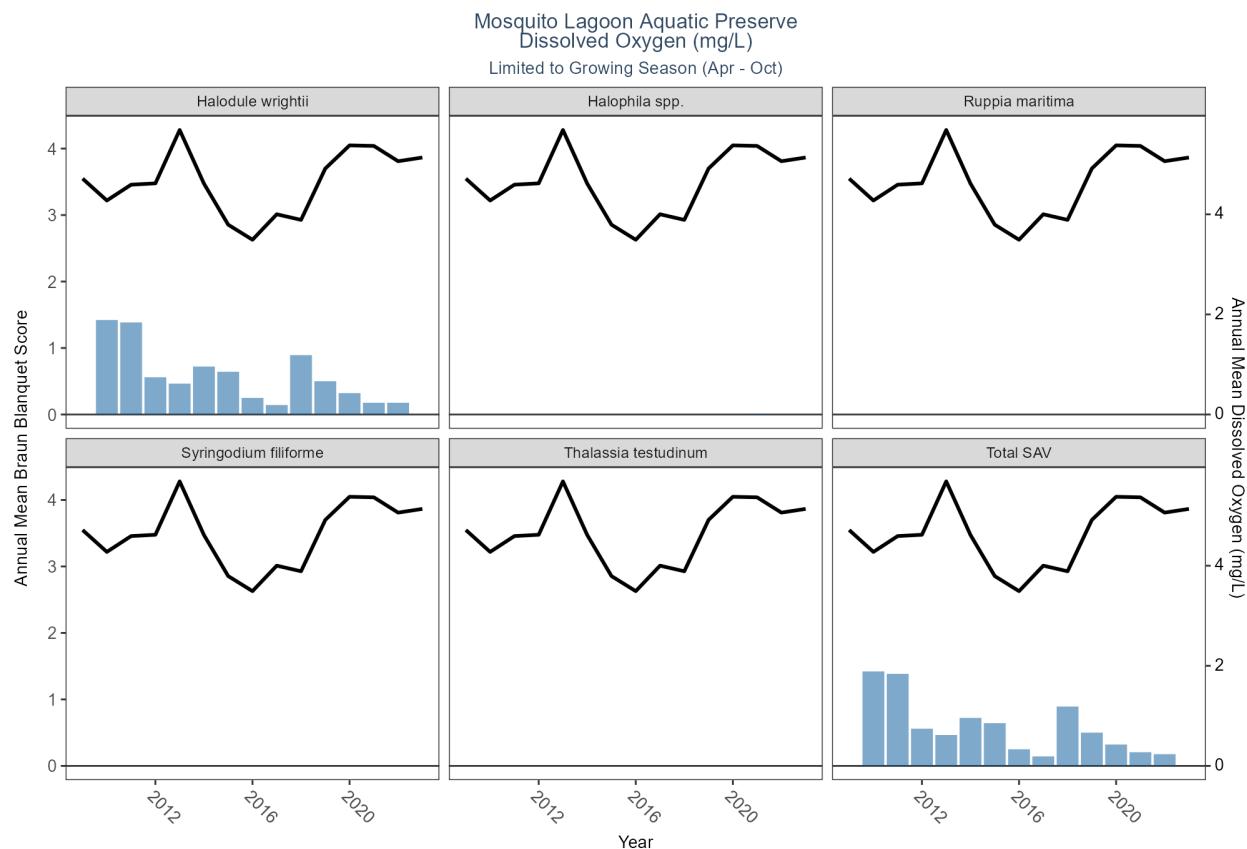


Table 411: WQ Summary for Dissolved Oxygen in Mosquito Lagoon Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2009	4.714	4.400	2.40	8.90	1.689
Dissolved Oxygen	2010	4.276	4.100	2.80	7.31	1.115
Dissolved Oxygen	2011	4.593	4.500	3.20	7.75	0.965

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2012	4.619	4.400	1.90	11.61	1.780
Dissolved Oxygen	2013	5.685	5.300	3.80	8.80	1.420
Dissolved Oxygen	2014	4.614	4.525	2.30	7.15	1.305
Dissolved Oxygen	2015	3.793	3.150	1.60	7.51	1.747
Dissolved Oxygen	2016	3.492	4.200	0.34	8.10	3.050
Dissolved Oxygen	2017	4.001	4.950	0.48	6.70	2.257
Dissolved Oxygen	2018	3.889	3.650	2.25	6.10	1.237
Dissolved Oxygen	2019	4.916	4.950	3.65	5.85	0.554
Dissolved Oxygen	2020	5.378	5.230	2.95	7.80	1.124
Dissolved Oxygen	2021	5.367	5.350	3.10	7.77	1.337
Dissolved Oxygen	2022	5.062	4.730	2.50	7.37	1.319
Dissolved Oxygen	2023	5.135	5.120	3.50	7.14	0.904

Programs contributing WQ Data:

Table 412: Programs contributing WQ data for Dissolved Oxygen in Mosquito Lagoon Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	2006	2020	58
Dissolved Oxygen	95	2007	2018	37
Dissolved Oxygen	103	1991	2021	13
Dissolved Oxygen	3001	2009	2023	139
Dissolved Oxygen	5002	1995	2023	2795

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 3001 - Lagoon Watch (Formerly Marine Discovery Center)
- 5002 - Florida STORET / WIN

Dissolved Oxygen Saturation

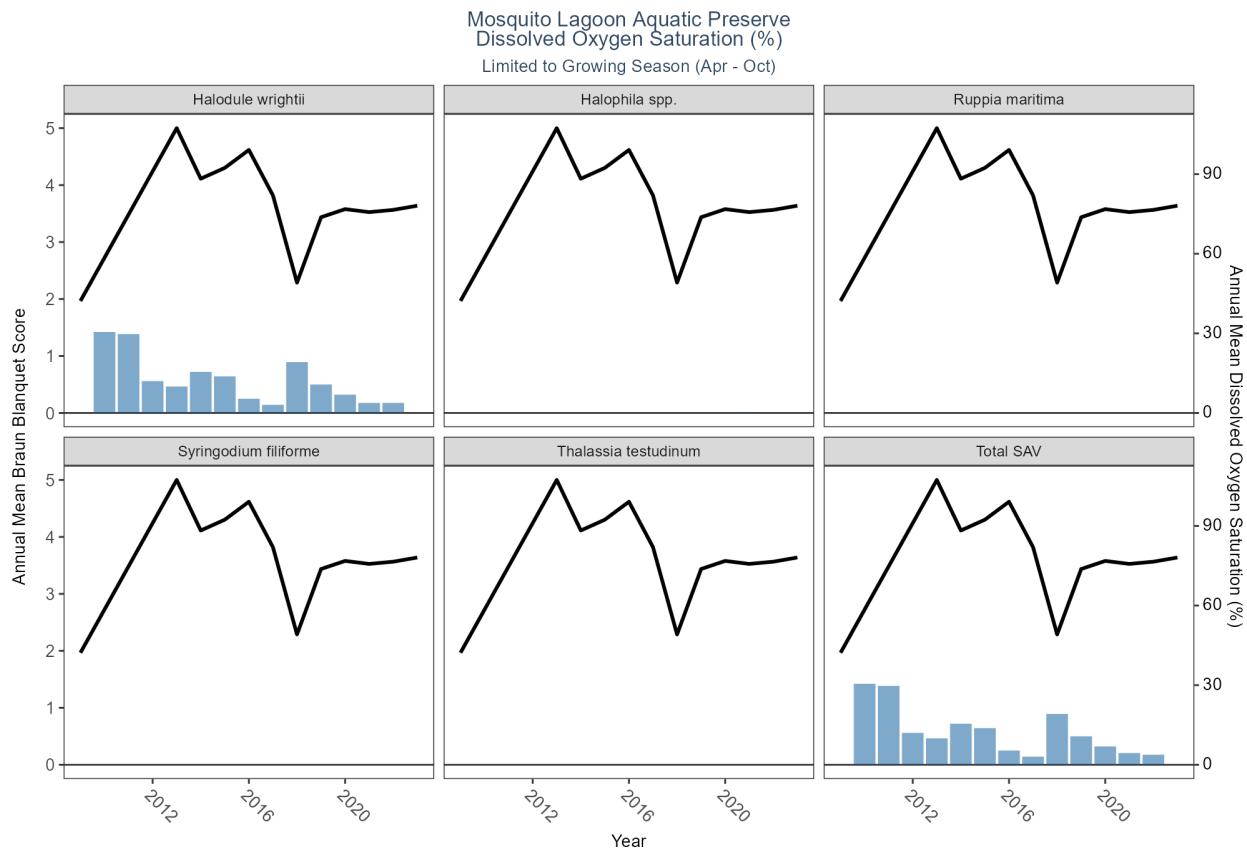


Table 413: WQ Summary for Dissolved Oxygen Saturation in Mosquito Lagoon Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2009	42.216	29.131	0.572	108.025	43.531
Dissolved Oxygen Saturation	2013	107.343	104.800	98.000	126.000	10.649
Dissolved Oxygen Saturation	2014	88.283	95.850	58.200	109.000	18.830
Dissolved Oxygen Saturation	2015	92.371	95.700	60.000	115.900	17.261
Dissolved Oxygen Saturation	2016	99.129	96.100	89.300	110.100	9.212
Dissolved Oxygen Saturation	2017	82.000	77.000	76.000	93.000	9.539
Dissolved Oxygen Saturation	2018	49.118	50.640	34.370	64.510	11.401
Dissolved Oxygen Saturation	2019	73.772	75.300	56.200	92.300	8.036
Dissolved Oxygen Saturation	2020	76.821	75.900	44.000	107.500	13.830
Dissolved Oxygen Saturation	2021	75.695	69.450	42.700	117.000	19.872
Dissolved Oxygen Saturation	2022	76.531	75.550	39.600	112.600	16.851
Dissolved Oxygen Saturation	2023	78.109	77.800	52.800	114.200	13.824

Programs contributing WQ Data:

Table 414: Programs contributing WQ data for Dissolved Oxygen Saturation in Mosquito Lagoon Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	3001	2009	2023	139
Dissolved Oxygen Saturation	5002	2006	2023	151

WQ Program names:

3001 - Lagoon Watch (Formerly Marine Discovery Center)

5002 - Florida STORET / WIN

pH

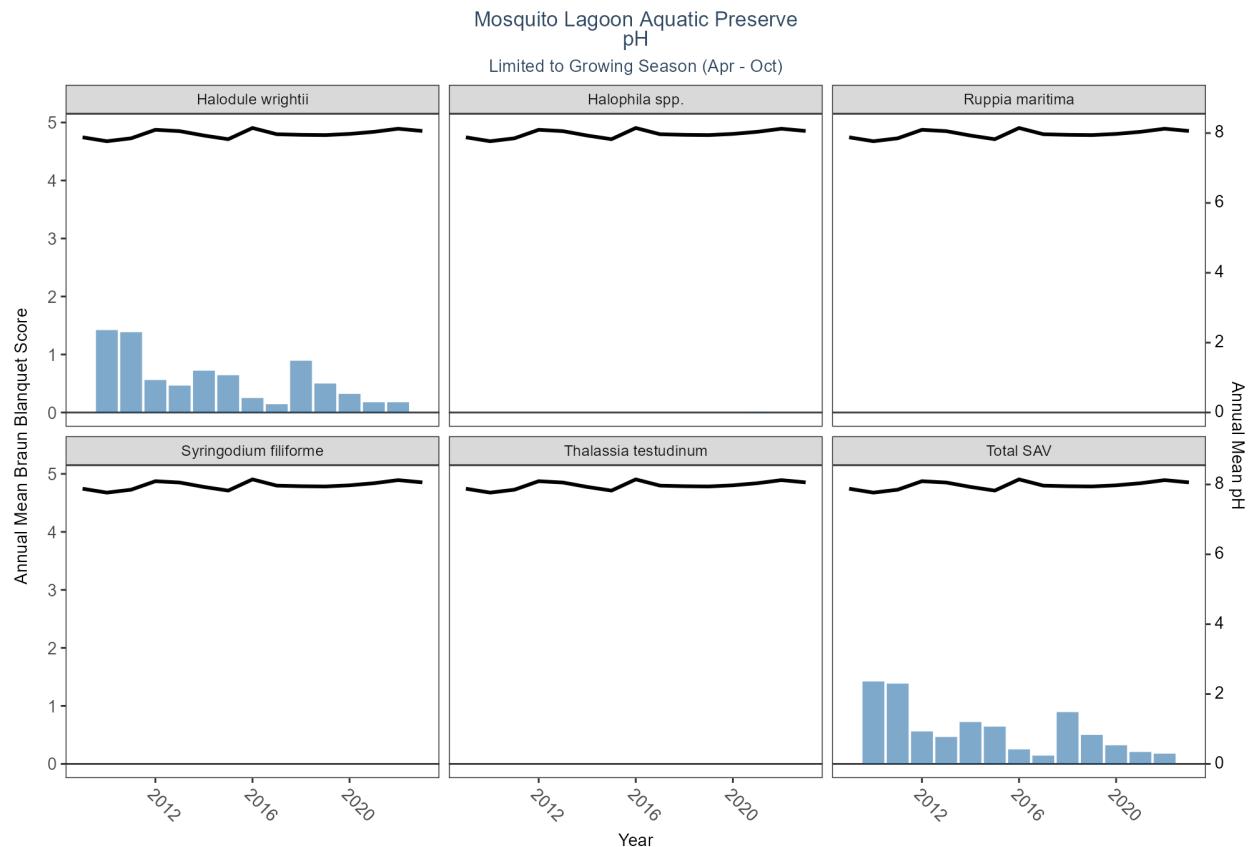


Table 415: WQ Summary for pH in Mosquito Lagoon Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	2009	7.879	7.850	7.60	8.320	0.158
pH	2010	7.767	7.750	7.50	8.200	0.149
pH	2011	7.850	7.800	7.50	8.570	0.201
pH	2012	8.094	7.900	7.50	9.172	0.495
pH	2013	8.056	8.000	7.40	8.700	0.293
pH	2014	7.930	7.900	7.48	8.364	0.149
pH	2015	7.825	7.805	7.39	8.253	0.183

ParameterName	Year	mean	median	min	max	sd
pH	2016	8.146	8.100	7.61	8.450	0.191
pH	2017	7.967	8.100	7.40	8.300	0.275
pH	2018	7.950	7.950	7.60	8.300	0.351
pH	2019	7.943	8.000	7.80	8.200	0.151
pH	2020	7.976	8.000	7.20	8.200	0.215
pH	2021	8.036	8.010	7.37	8.400	0.184
pH	2022	8.125	8.200	7.49	8.270	0.196
pH	2023	8.060	8.200	7.20	8.510	0.290

Programs contributing WQ Data:

Table 416: Programs contributing WQ data for pH in Mosquito Lagoon Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	2006	2020	58
pH	95	2007	2018	28
pH	103	1991	2021	19
pH	3001	2009	2023	118
pH	5002	1995	2023	2160

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 3001 - Lagoon Watch (Formerly Marine Discovery Center)
- 5002 - Florida STORET / WIN

Salinity

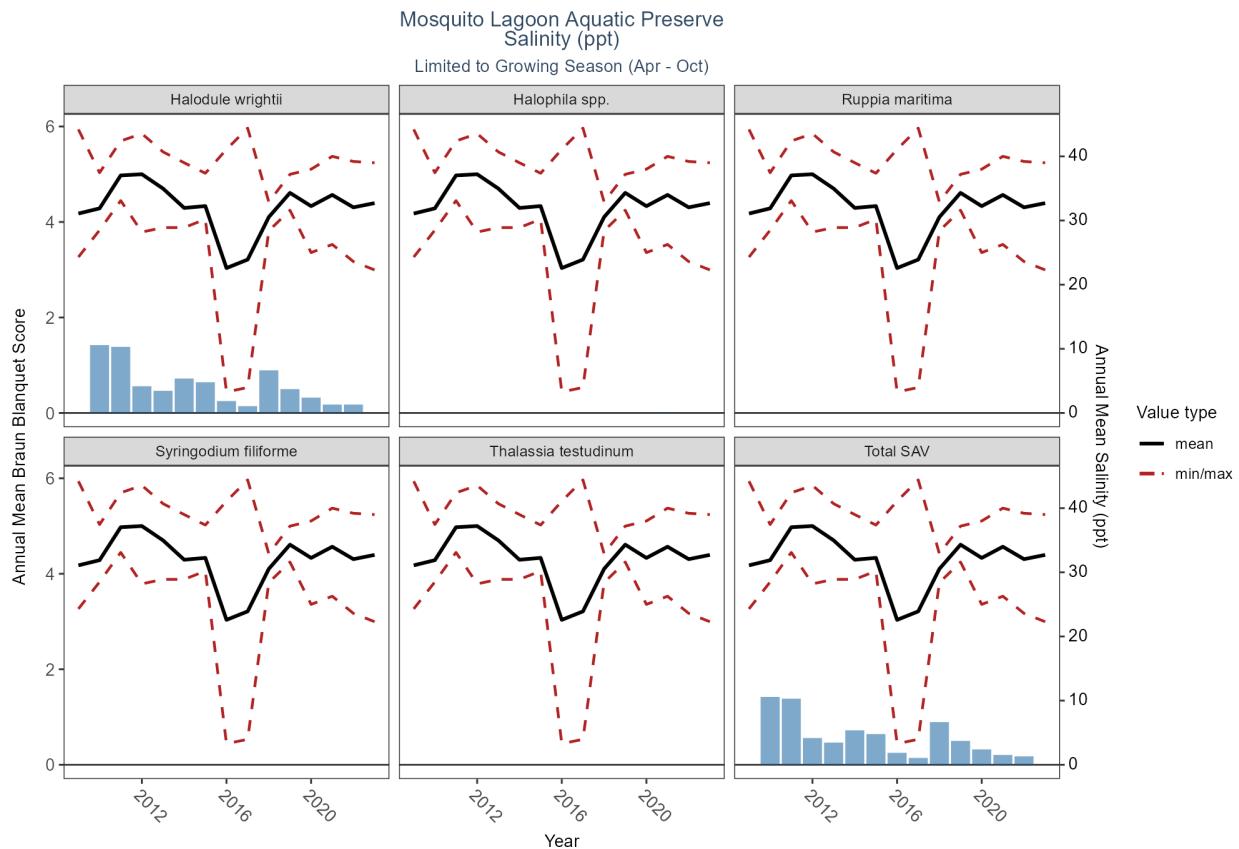


Table 417: WQ Summary for Salinity in Mosquito Lagoon Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	2009	31.085	29.100	24.30	44.20	4.961
Salinity	2010	31.891	30.000	28.50	37.45	2.762
Salinity	2011	37.029	37.400	33.10	42.40	2.864
Salinity	2012	37.213	38.400	28.20	43.54	3.154
Salinity	2013	34.982	35.700	28.90	40.70	2.996
Salinity	2014	31.959	32.400	28.90	39.00	2.133
Salinity	2015	32.252	31.700	30.20	37.37	1.378
Salinity	2016	22.588	35.155	3.28	41.09	17.185
Salinity	2017	23.910	28.150	3.97	44.40	12.263
Salinity	2018	30.536	31.000	28.40	32.90	1.371
Salinity	2019	34.311	34.600	31.60	37.20	1.598
Salinity	2020	32.240	32.800	25.00	38.00	4.094
Salinity	2021	33.991	34.070	26.27	40.00	3.355
Salinity	2022	32.051	31.600	23.60	39.20	4.045
Salinity	2023	32.712	33.200	22.30	39.00	3.602

Programs contributing WQ Data:

Table 418: Programs contributing WQ data for Salinity in Mosquito Lagoon Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	2006	2020	58
Salinity	95	2007	2018	42
Salinity	3001	2009	2023	139
Salinity	5002	1995	2023	3041

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 3001 - Lagoon Watch (Formerly Marine Discovery Center)
- 5002 - Florida STORET / WIN

Secchi Depth

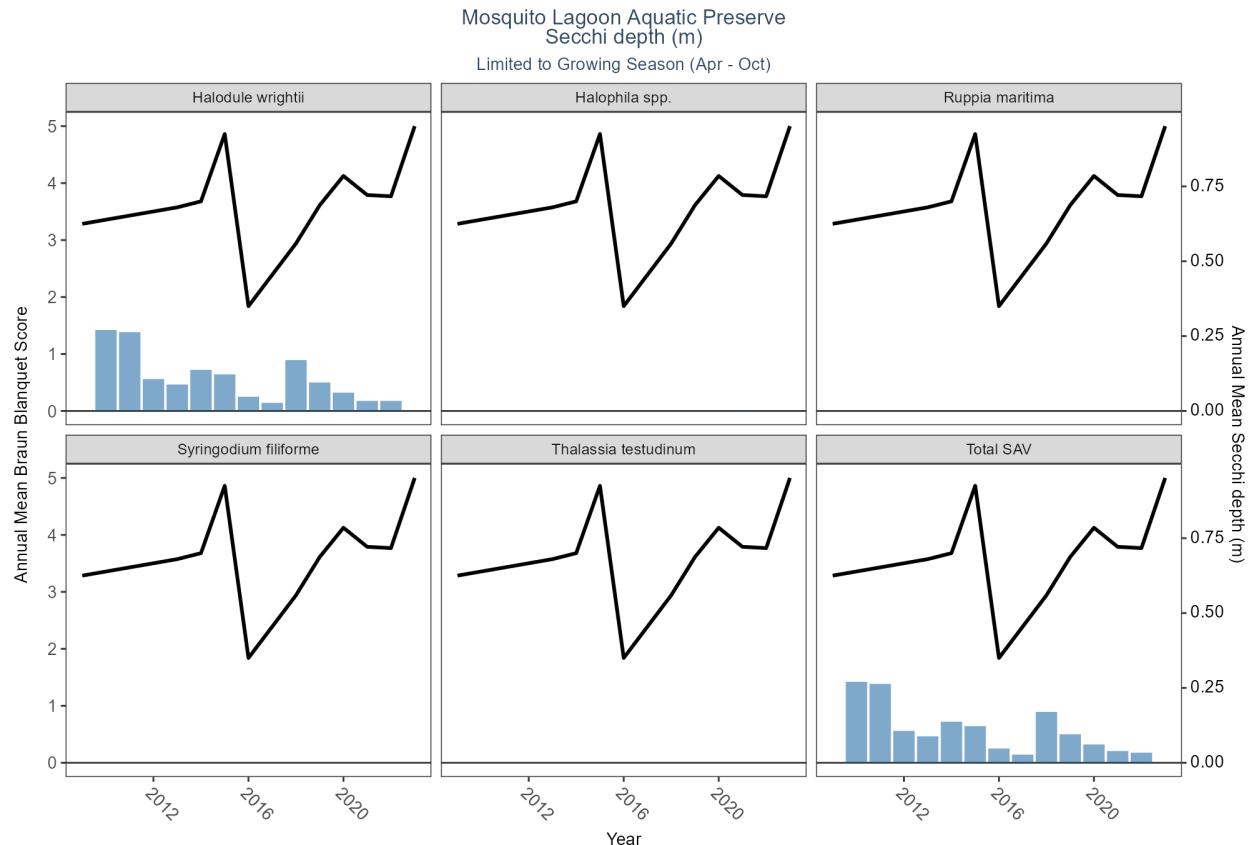


Table 419: WQ Summary for Secchi Depth in Mosquito Lagoon Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2009	0.625	0.60	0.3	0.9	0.162
Secchi depth	2013	0.680	0.60	0.6	0.8	0.110
Secchi depth	2014	0.700	0.70	0.5	0.9	0.231

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2015	0.925	1.10	0.4	1.1	0.350
Secchi depth	2016	0.350	0.35	0.3	0.4	0.058
Secchi depth	2018	0.559	0.59	0.4	0.7	0.085
Secchi depth	2019	0.687	0.70	0.5	0.9	0.103
Secchi depth	2020	0.785	0.80	0.4	1.3	0.200
Secchi depth	2021	0.721	0.70	0.4	1.4	0.246
Secchi depth	2022	0.717	0.70	0.5	1.1	0.161
Secchi depth	2023	0.951	1.00	0.6	1.6	0.238

Programs contributing WQ Data:

Table 420: Programs contributing WQ data for Secchi Depth in Mosquito Lagoon Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	2006	2020	58
Secchi depth	103	2021	2021	20
Secchi depth	3001	2009	2023	138
Secchi depth	5002	2006	2023	160

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 3001 - Lagoon Watch (Formerly Marine Discovery Center)
- 5002 - Florida STORET / WIN

Total Nitrogen & Total Phosphorus

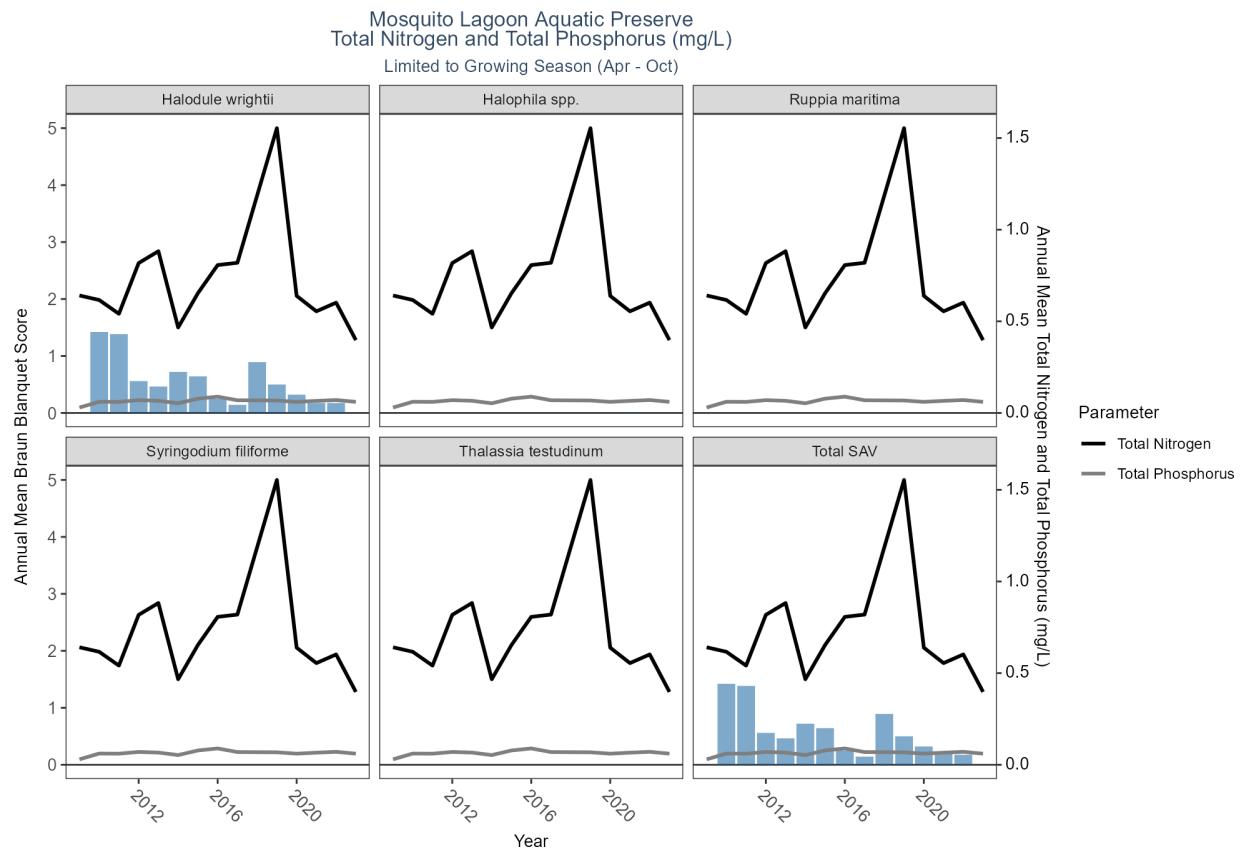


Table 421: WQ Summary for Total Nitrogen & Total Phosphorus in Mosquito Lagoon Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2009	0.641	0.604	0.441	0.878	0.221
Total Nitrogen	2010	0.616	0.565	0.422	0.864	0.202
Total Nitrogen	2011	0.541	0.597	0.373	0.632	0.114
Total Nitrogen	2012	0.818	0.804	0.378	1.337	0.346
Total Nitrogen	2013	0.883	0.843	0.343	1.811	0.598
Total Nitrogen	2014	0.466	0.432	0.412	0.553	0.060
Total Nitrogen	2015	0.653	0.640	0.238	1.092	0.321
Total Nitrogen	2016	0.807	0.752	0.591	1.054	0.195
Total Nitrogen	2017	0.819	0.863	0.681	0.914	0.122
Total Nitrogen	2019	1.554	1.554	1.504	1.604	0.071
Total Nitrogen	2020	0.639	0.575	0.480	0.851	0.157
Total Nitrogen	2021	0.555	0.503	0.229	0.807	0.221
Total Nitrogen	2022	0.602	0.691	0.268	0.831	0.217
Total Nitrogen	2023	0.397	0.406	0.196	0.520	0.112
Total Phosphorus	2009	0.030	0.020	0.002	0.068	0.024
Total Phosphorus	2010	0.061	0.042	0.005	0.117	0.035
Total Phosphorus	2011	0.060	0.054	0.022	0.136	0.032
Total Phosphorus	2012	0.070	0.060	0.019	0.166	0.050
Total Phosphorus	2013	0.066	0.056	0.013	0.139	0.042

ParameterName	Year	mean	median	min	max	sd
Total Phosphorus	2014	0.053	0.053	0.020	0.091	0.023
Total Phosphorus	2015	0.078	0.073	0.035	0.136	0.034
Total Phosphorus	2016	0.089	0.090	0.017	0.164	0.054
Total Phosphorus	2017	0.069	0.077	0.033	0.105	0.029
Total Phosphorus	2019	0.068	0.068	0.068	0.068	0.000
Total Phosphorus	2020	0.061	0.060	0.014	0.110	0.030
Total Phosphorus	2021	0.066	0.070	0.020	0.118	0.033
Total Phosphorus	2022	0.071	0.071	0.025	0.141	0.030
Total Phosphorus	2023	0.061	0.061	0.020	0.146	0.029

Programs contributing WQ Data:

Table 422: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Mosquito Lagoon Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	103	2006	2006	2
Total Nitrogen	5002	1997	2023	209
Total Phosphorus	103	1991	2021	20
Total Phosphorus	5002	1997	2023	463

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)
 5002 - Florida STORET / WIN

Total Suspended Solids

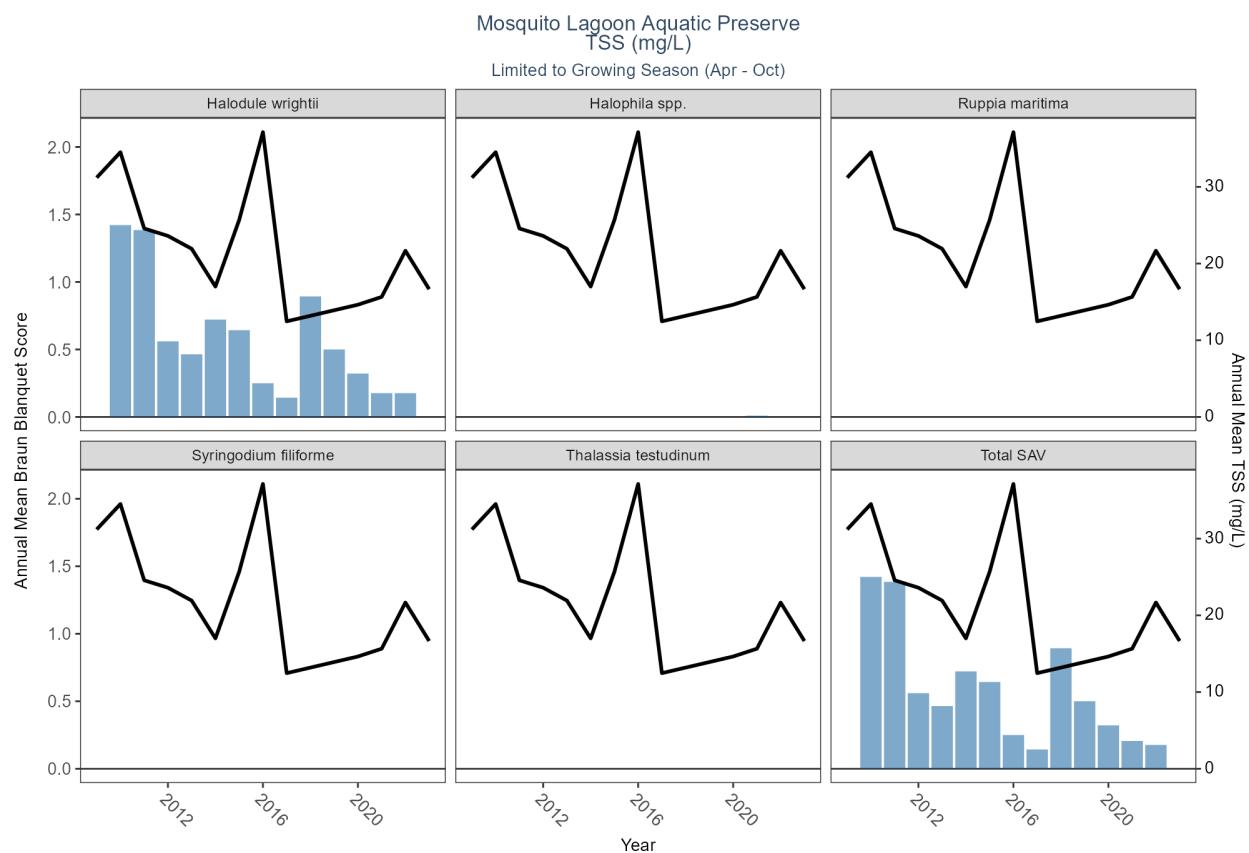


Table 423: WQ Summary for Total Suspended Solids in Mosquito Lagoon Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	2009	31.200	18.60	9.200	78.400	31.898
TSS	2010	34.517	32.05	18.000	57.800	16.514
TSS	2011	24.571	24.00	18.200	32.600	5.194
TSS	2012	23.606	21.60	13.200	44.333	10.990
TSS	2013	21.925	21.55	9.000	36.000	7.420
TSS	2014	17.000	16.10	14.000	24.200	3.483
TSS	2015	25.686	31.90	10.300	44.000	14.050
TSS	2016	37.133	40.25	12.900	51.800	15.262
TSS	2017	12.467	11.20	10.100	16.100	3.194
TSS	2020	14.635	12.70	8.200	24.400	5.972
TSS	2021	15.652	14.35	7.400	26.000	6.715
TSS	2022	21.669	19.60	8.000	52.000	14.913
TSS	2023	16.655	15.00	8.222	39.500	7.428

Programs contributing WQ Data:

Table 424: Programs contributing WQ data for Total Suspended Solids in Mosquito Lagoon Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	103	1991	2021	15
TSS	5002	1997	2023	240

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

5002 - Florida STORET / WIN

Turbidity

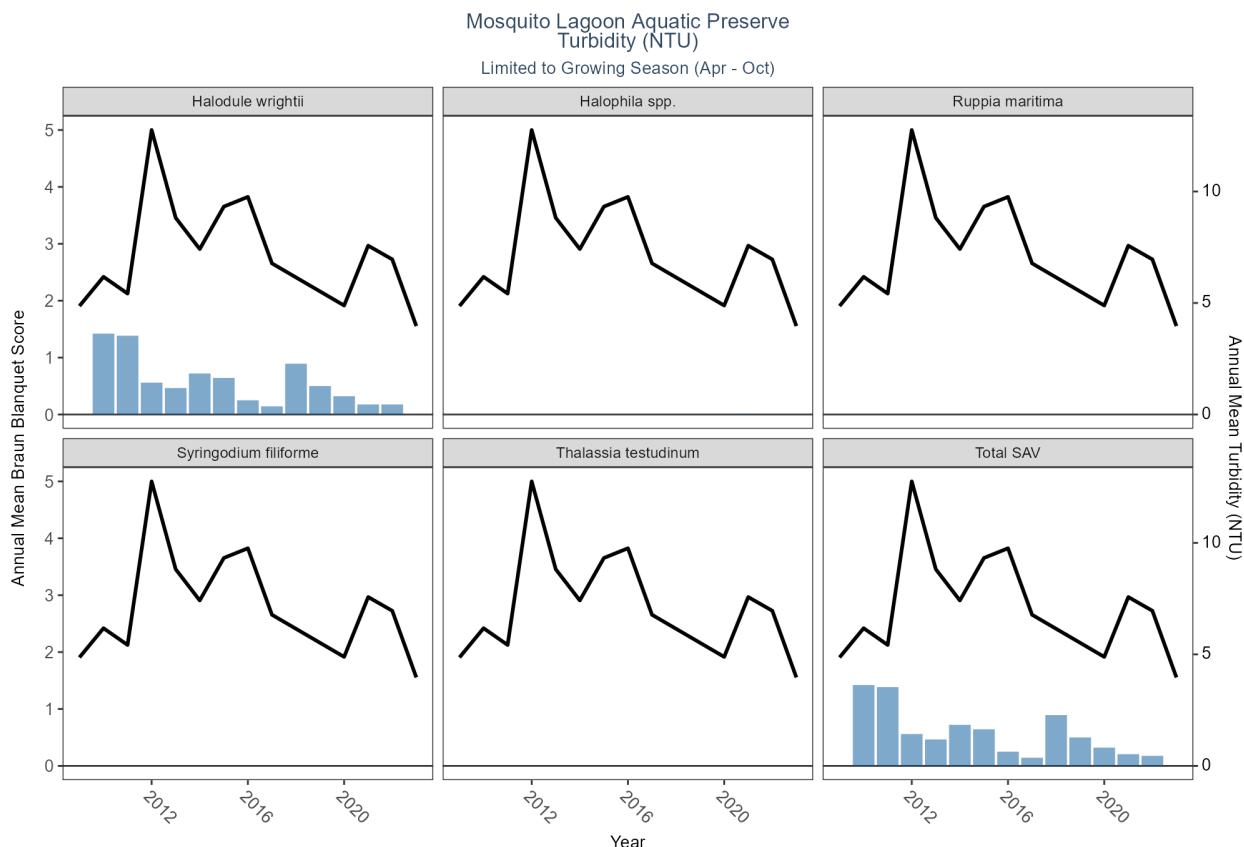


Table 425: WQ Summary for Turbidity in Mosquito Lagoon Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	2009	4.864	3.700	0.900	22.600	3.200
Turbidity	2010	6.174	5.150	3.000	15.300	2.834
Turbidity	2011	5.423	4.900	2.400	15.025	2.324
Turbidity	2012	12.758	11.878	8.696	18.182	3.691
Turbidity	2013	8.819	8.316	3.999	16.883	4.545
Turbidity	2014	7.419	7.830	2.981	10.855	2.900
Turbidity	2015	9.323	9.243	6.103	13.284	2.715

ParameterName	Year	mean	median	min	max	sd
Turbidity	2016	9.759	8.886	7.655	13.839	2.214
Turbidity	2017	6.777	6.158	5.231	8.943	1.932
Turbidity	2020	4.888	4.264	1.649	8.592	2.139
Turbidity	2021	7.572	7.188	2.830	14.983	3.164
Turbidity	2022	6.956	6.062	3.554	11.156	2.517
Turbidity	2023	3.965	3.227	1.786	10.395	2.372

Programs contributing WQ Data:

Table 426: Programs contributing WQ data for Turbidity in Mosquito Lagoon Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	103	1991	2021	16
Turbidity	5002	1995	2023	2136

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

5002 - Florida STORET / WIN

Water Temperature

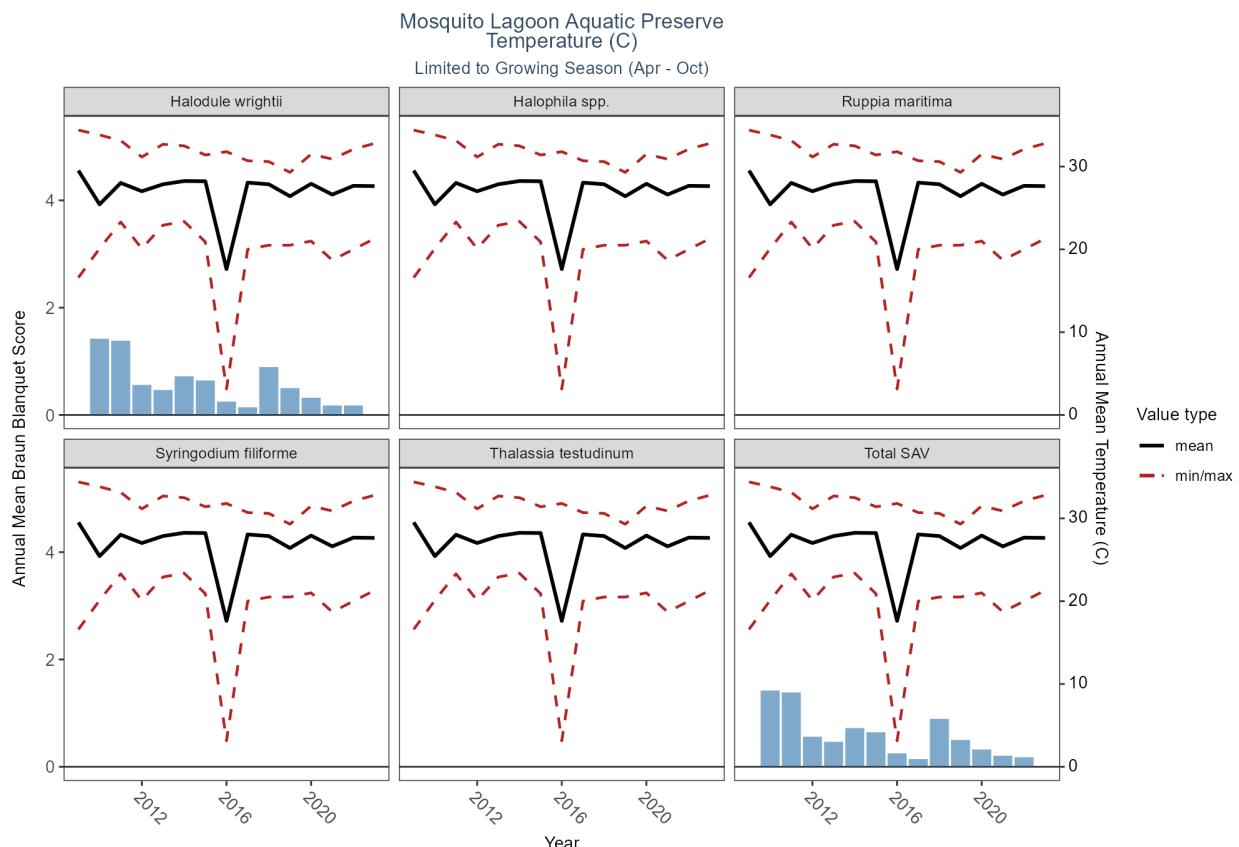


Table 427: WQ Summary for Water Temperature in Mosquito Lagoon Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	2009	29.519	29.70	16.59	34.40	2.556
Temperature	2010	25.437	24.10	20.10	33.82	3.819
Temperature	2011	28.025	29.25	23.30	33.14	2.575
Temperature	2012	27.019	27.90	20.10	31.15	3.003
Temperature	2013	27.863	28.90	22.92	32.70	2.584
Temperature	2014	28.254	28.10	23.37	32.50	2.061
Temperature	2015	28.227	28.15	20.90	31.40	1.992
Temperature	2016	17.618	24.10	3.14	31.80	11.375
Temperature	2017	28.058	28.70	20.00	30.70	3.293
Temperature	2018	27.864	28.50	20.50	30.60	2.605
Temperature	2019	26.416	26.90	20.50	29.30	2.460
Temperature	2020	27.921	28.10	21.00	31.50	2.360
Temperature	2021	26.619	27.15	18.70	30.90	2.903
Temperature	2022	27.674	28.85	20.00	32.10	3.070
Temperature	2023	27.639	27.80	21.30	32.80	2.628

Programs contributing WQ Data:

Table 428: Programs contributing WQ data for Water Temperature in Mosquito Lagoon Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	2006	2020	58
Temperature	95	2007	2018	38
Temperature	103	1991	2021	13
Temperature	3001	2009	2023	138
Temperature	5002	1995	2023	3126

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 3001 - Lagoon Watch (Formerly Marine Discovery Center)
- 5002 - Florida STORET / WIN

Nature Coast Aquatic Preserve

Programs contributing SAV Data:

Table 429: Programs contributing SAV data in Nature Coast Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Modified Braun Blanquet Score	560	1997	2024	6891
Percent Cover	560	2022	2024	3368

SAV Program names:

560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring

560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring

Chlorophyll-a (corrected & uncorrected)

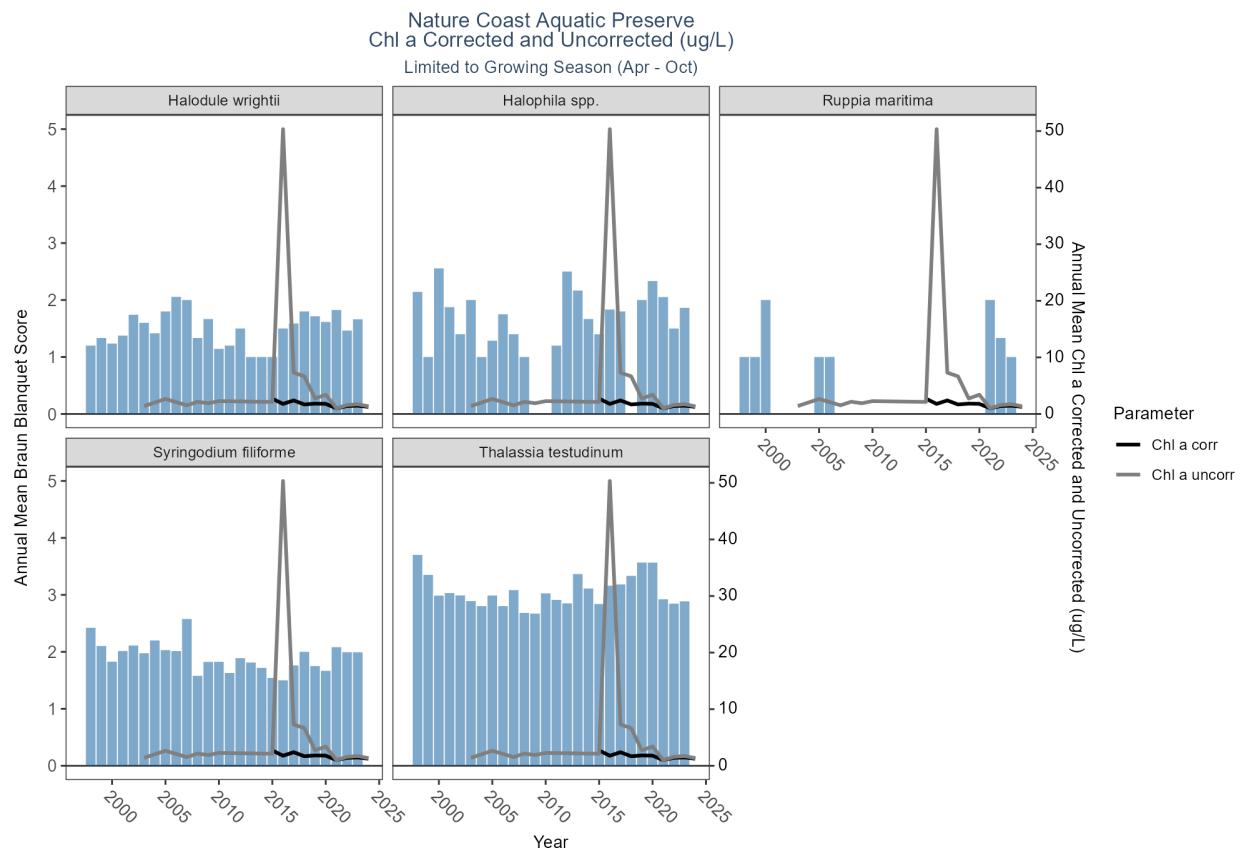


Table 430: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Nature Coast Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2015	2.706	2.300	0.730	4.100	1.425
Chl a corr	2016	1.777	1.000	1.000	8.840	1.529
Chl a corr	2017	2.393	1.000	1.000	27.000	3.878

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2018	1.679	1.000	1.000	10.000	1.540
Chl a corr	2019	1.827	1.000	0.690	13.100	1.833
Chl a corr	2020	1.790	1.000	0.970	12.000	1.870
Chl a corr	2021	1.000	1.000	1.000	1.000	0.000
Chl a corr	2022	1.402	1.000	1.000	13.000	1.505
Chl a corr	2023	1.464	1.000	1.000	21.000	1.445
Chl a corr	2024	1.254	1.000	1.000	4.000	0.646
Chl a uncorr	2003	1.400	1.350	0.800	2.100	0.606
Chl a uncorr	2005	2.650	2.035	0.586	5.945	2.308
Chl a uncorr	2007	1.530	1.000	0.200	9.800	1.572
Chl a uncorr	2008	2.159	1.500	0.000	15.000	1.901
Chl a uncorr	2009	1.896	1.000	0.000	17.000	2.007
Chl a uncorr	2010	2.270	2.270	2.270	2.270	NA
Chl a uncorr	2015	2.127	1.744	0.429	4.600	1.755
Chl a uncorr	2016	50.338	2.193	1.737	123.010	66.338
Chl a uncorr	2017	7.300	7.300	6.500	8.100	1.131
Chl a uncorr	2018	6.650	6.650	2.300	11.000	6.152
Chl a uncorr	2019	2.731	1.860	0.600	15.400	2.704
Chl a uncorr	2020	3.398	2.700	0.970	14.000	3.367
Chl a uncorr	2021	1.009	1.000	-3.000	12.000	1.423
Chl a uncorr	2022	1.583	1.000	1.000	14.800	1.799
Chl a uncorr	2023	1.723	1.000	1.000	24.000	1.781
Chl a uncorr	2024	1.352	1.000	1.000	6.000	0.954

Programs contributing WQ Data:

Table 431: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Nature Coast Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	479	2016	2023	885
Chl a corr	514	2020	2021	8
Chl a corr	540	2017	2018	4
Chl a corr	5002	2015	2020	32
Chl a corr	5008	2023	2024	604
Chl a uncorr	60	2015	2015	3
Chl a uncorr	95	2003	2016	12
Chl a uncorr	103	2005	2021	578
Chl a uncorr	118	2010	2010	1
Chl a uncorr	479	2007	2022	1071
Chl a uncorr	514	2020	2021	8
Chl a uncorr	540	2017	2018	4
Chl a uncorr	5002	2015	2020	32
Chl a uncorr	5008	2021	2024	607

WQ Program names:

479 - Southwest Florida Water Management District - Water Quality Monitoring

514 - Florida LAKEWATCH Program

540 - Shellfish Harvest Area Classification Program

5002 - Florida STORET / WIN

- 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region
 60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey
 95 - Harmful Algal Bloom Marine Observation Network
 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

Colored Dissolved Organic Matter

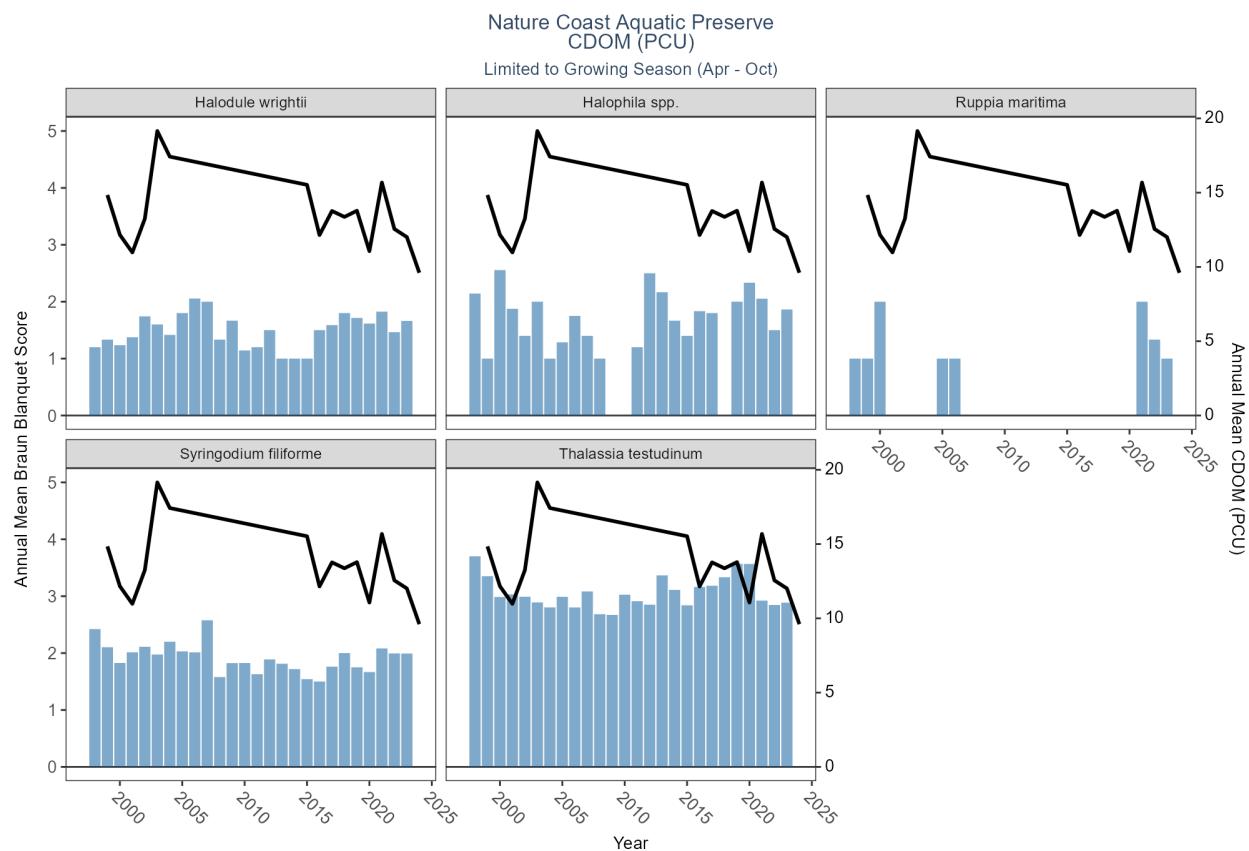


Table 432: WQ Summary for Colored Dissolved Organic Matter in Nature Coast Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
CDOM	1999	14.844	12.000	4.000	39.000	7.839
CDOM	2000	12.162	11.000	4.000	59.000	6.976
CDOM	2001	10.977	9.000	3.000	68.000	9.007
CDOM	2002	13.244	10.000	3.000	170.000	15.812
CDOM	2003	19.151	13.000	1.000	245.000	23.045
CDOM	2004	17.425	13.000	0.000	187.006	20.882
CDOM	2015	15.527	12.000	3.600	83.800	13.205
CDOM	2016	12.146	10.700	4.800	38.000	6.291
CDOM	2017	13.767	10.500	2.500	150.000	15.552
CDOM	2018	13.368	10.450	2.500	57.500	9.234
CDOM	2019	13.782	10.200	4.750	80.600	10.553
CDOM	2020	11.062	8.620	4.700	55.200	7.061

ParameterName	Year	mean	median	min	max	sd
CDOM	2021	15.683	11.462	4.736	139.340	14.918
CDOM	2022	12.556	10.142	3.095	80.139	8.575
CDOM	2023	12.012	10.502	4.757	53.389	5.957
CDOM	2024	9.609	8.592	3.606	44.756	5.202

Programs contributing WQ Data:

Table 433: Programs contributing WQ data for Colored Dissolved Organic Matter in Nature Coast Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
CDOM	103	2021	2021	1
CDOM	479	1999	2023	2681
CDOM	514	2020	2021	3
CDOM	540	2017	2018	4
CDOM	5008	2021	2024	1478

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

479 - Southwest Florida Water Management District - Water Quality Monitoring

514 - Florida LAKEWATCH Program

540 - Shellfish Harvest Area Classification Program

5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Dissolved Oxygen

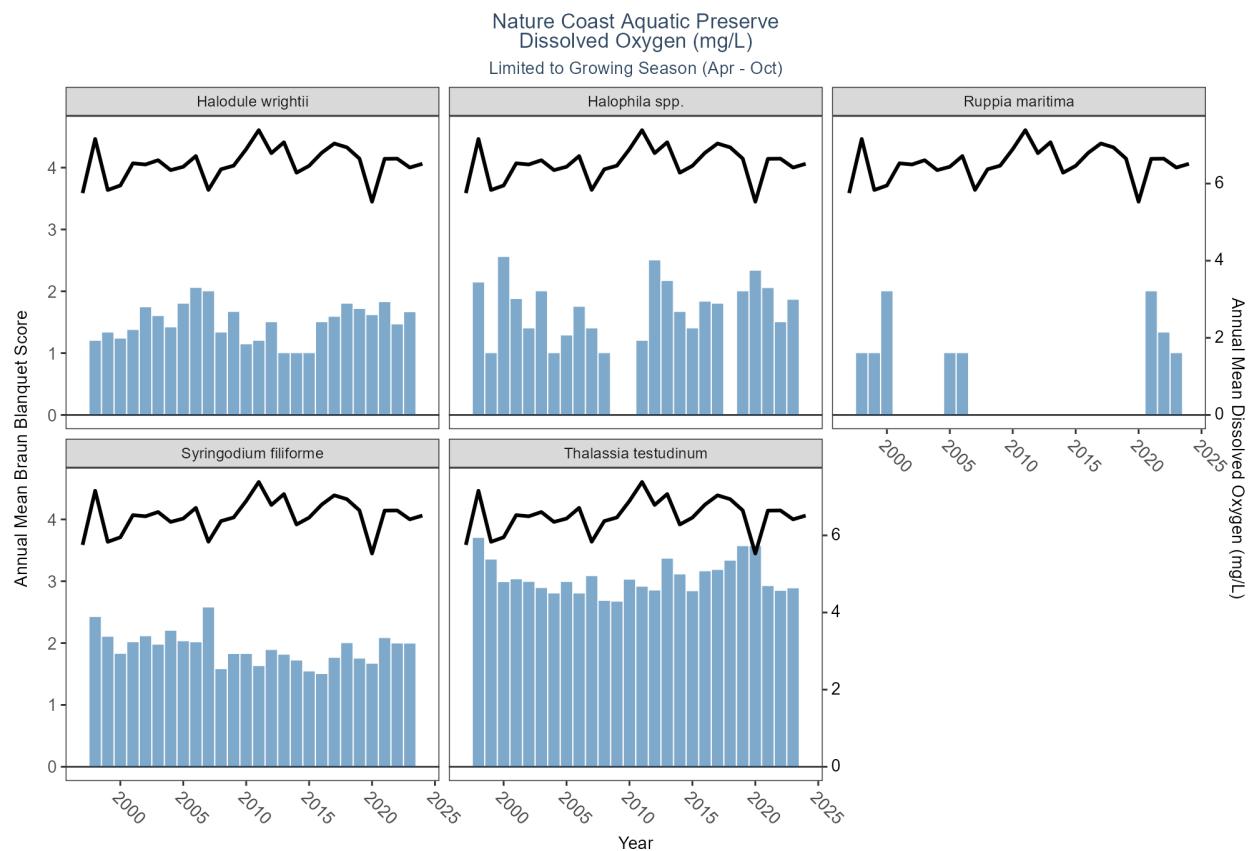


Table 434: WQ Summary for Dissolved Oxygen in Nature Coast Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	1997	5.753	6.000	1.600	10.80	2.049
Dissolved Oxygen	1998	7.157	7.300	4.100	9.70	1.242
Dissolved Oxygen	1999	5.834	5.900	2.100	9.50	1.300
Dissolved Oxygen	2000	5.950	6.000	1.900	9.70	1.219
Dissolved Oxygen	2001	6.526	6.590	3.690	9.31	1.105
Dissolved Oxygen	2002	6.495	6.480	3.270	10.33	1.113
Dissolved Oxygen	2003	6.606	6.600	3.300	11.32	1.419
Dissolved Oxygen	2004	6.349	6.180	2.400	12.10	1.170
Dissolved Oxygen	2005	6.436	6.100	2.700	10.40	1.445
Dissolved Oxygen	2006	6.714	6.400	3.600	15.00	1.819
Dissolved Oxygen	2007	5.835	5.860	2.200	10.40	1.419
Dissolved Oxygen	2008	6.371	6.070	3.230	18.58	1.609
Dissolved Oxygen	2009	6.464	6.405	3.930	11.90	1.157
Dissolved Oxygen	2010	6.893	7.050	4.200	9.50	1.239
Dissolved Oxygen	2011	7.386	7.400	3.810	11.60	1.971
Dissolved Oxygen	2012	6.789	6.805	5.000	8.80	1.025
Dissolved Oxygen	2013	7.071	7.450	4.290	11.30	1.641
Dissolved Oxygen	2014	6.282	6.300	0.361	9.80	1.124
Dissolved Oxygen	2015	6.461	6.650	1.030	9.65	1.616

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2016	6.798	7.275	3.200	11.60	1.567
Dissolved Oxygen	2017	7.039	7.000	4.420	11.58	1.188
Dissolved Oxygen	2018	6.940	6.950	3.350	10.54	1.081
Dissolved Oxygen	2019	6.648	6.910	3.030	9.01	1.325
Dissolved Oxygen	2020	5.530	5.385	2.820	7.59	1.015
Dissolved Oxygen	2021	6.642	6.680	3.200	11.85	1.233
Dissolved Oxygen	2022	6.646	6.700	2.140	10.75	1.263
Dissolved Oxygen	2023	6.416	6.420	2.560	10.20	1.131
Dissolved Oxygen	2024	6.513	6.570	2.660	12.20	1.402

Programs contributing WQ Data:

Table 435: Programs contributing WQ data for Dissolved Oxygen in Nature Coast Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	60	2015	2015	15
Dissolved Oxygen	69	2003	2009	283
Dissolved Oxygen	95	1982	2018	188
Dissolved Oxygen	115	1991	1994	12
Dissolved Oxygen	118	2021	2021	5
Dissolved Oxygen	479	1997	2023	3623
Dissolved Oxygen	540	2017	2018	3
Dissolved Oxygen	560	2006	2024	828
Dissolved Oxygen	5002	1995	2020	1041
Dissolved Oxygen	5008	2021	2024	1518

WQ Program names:

- 60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey
- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 479 - Southwest Florida Water Management District - Water Quality Monitoring
- 540 - Shellfish Harvest Area Classification Program
- 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
- 5002 - Florida STORET / WIN
- 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

pH

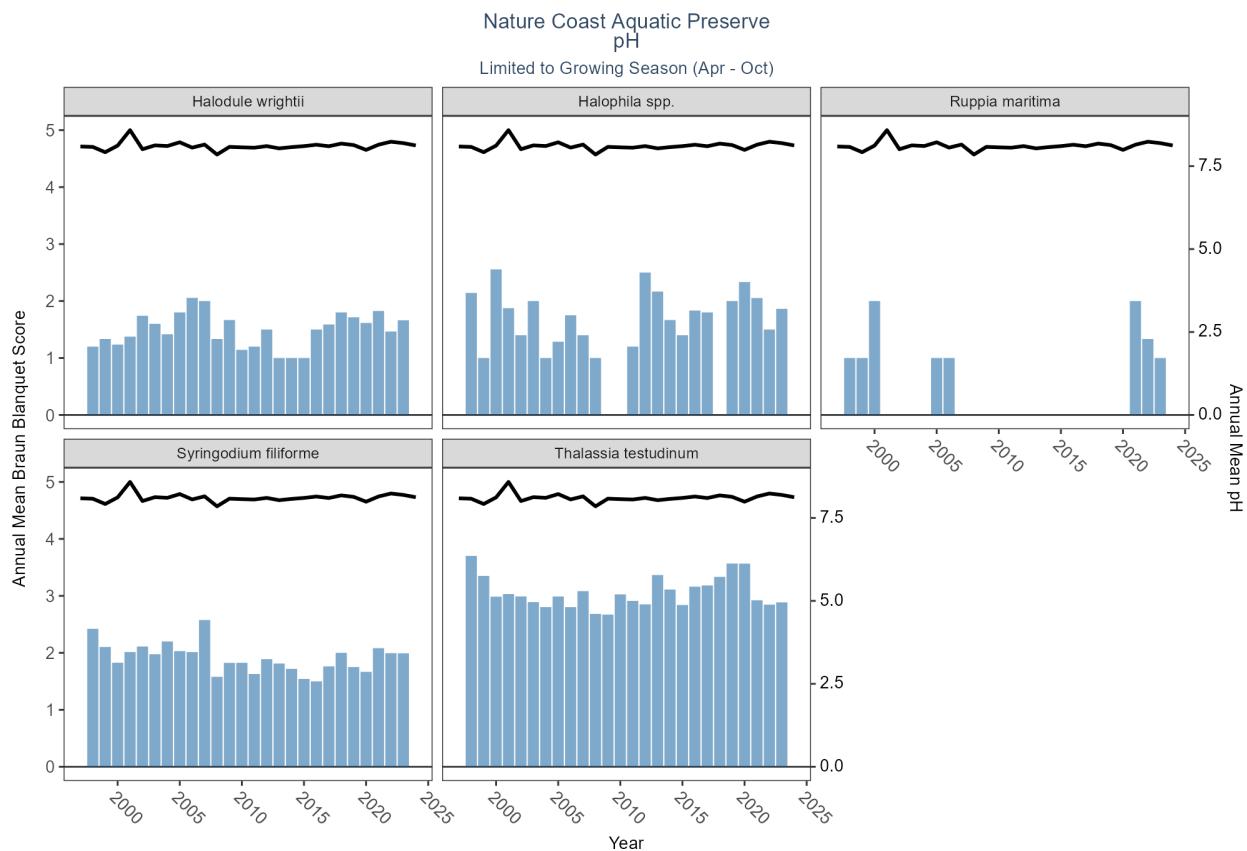


Table 436: WQ Summary for pH in Nature Coast Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	1997	8.092	8.150	7.70	8.50	0.204
pH	1998	8.079	8.000	7.70	8.40	0.206
pH	1999	7.920	7.950	7.50	8.40	0.271
pH	2000	8.119	8.200	7.70	8.60	0.260
pH	2001	8.585	8.675	7.70	9.01	0.289
pH	2002	8.010	8.000	7.70	8.50	0.228
pH	2003	8.126	8.140	7.07	8.76	0.236
pH	2004	8.106	8.170	7.28	8.56	0.229
pH	2005	8.219	8.100	7.60	9.10	0.393
pH	2006	8.058	8.000	7.80	8.60	0.191
pH	2007	8.151	8.190	7.32	8.68	0.242
pH	2008	7.850	8.040	5.56	8.43	0.483
pH	2009	8.081	8.070	7.07	8.70	0.241
pH	2010	8.067	8.000	7.80	8.70	0.215
pH	2011	8.056	8.080	7.40	8.63	0.260
pH	2012	8.104	8.080	7.59	8.60	0.262
pH	2013	8.035	8.100	7.02	8.50	0.342
pH	2014	8.074	8.070	7.01	8.50	0.266
pH	2015	8.103	8.100	7.60	8.52	0.187
pH	2016	8.145	8.200	7.41	8.67	0.229

ParameterName	Year	mean	median	min	max	sd
pH	2017	8.100	8.120	7.60	8.50	0.178
pH	2018	8.179	8.205	7.49	8.68	0.222
pH	2019	8.136	8.170	7.56	8.48	0.189
pH	2020	7.990	8.050	7.32	8.30	0.271
pH	2021	8.146	8.170	7.22	8.63	0.203
pH	2022	8.236	8.250	7.49	8.83	0.193
pH	2023	8.193	8.200	7.53	8.76	0.221
pH	2024	8.124	8.160	7.60	8.71	0.175

Programs contributing WQ Data:

Table 437: Programs contributing WQ data for pH in Nature Coast Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	2003	2009	283
pH	95	2003	2018	238
pH	115	1991	1994	12
pH	118	2021	2021	1
pH	479	2001	2023	2425
pH	540	2018	2018	1
pH	560	2008	2024	763
pH	5002	1995	2020	549
pH	5008	2021	2024	1515

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 479 - Southwest Florida Water Management District - Water Quality Monitoring
- 540 - Shellfish Harvest Area Classification Program
- 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
- 5002 - Florida STORET / WIN
- 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Salinity

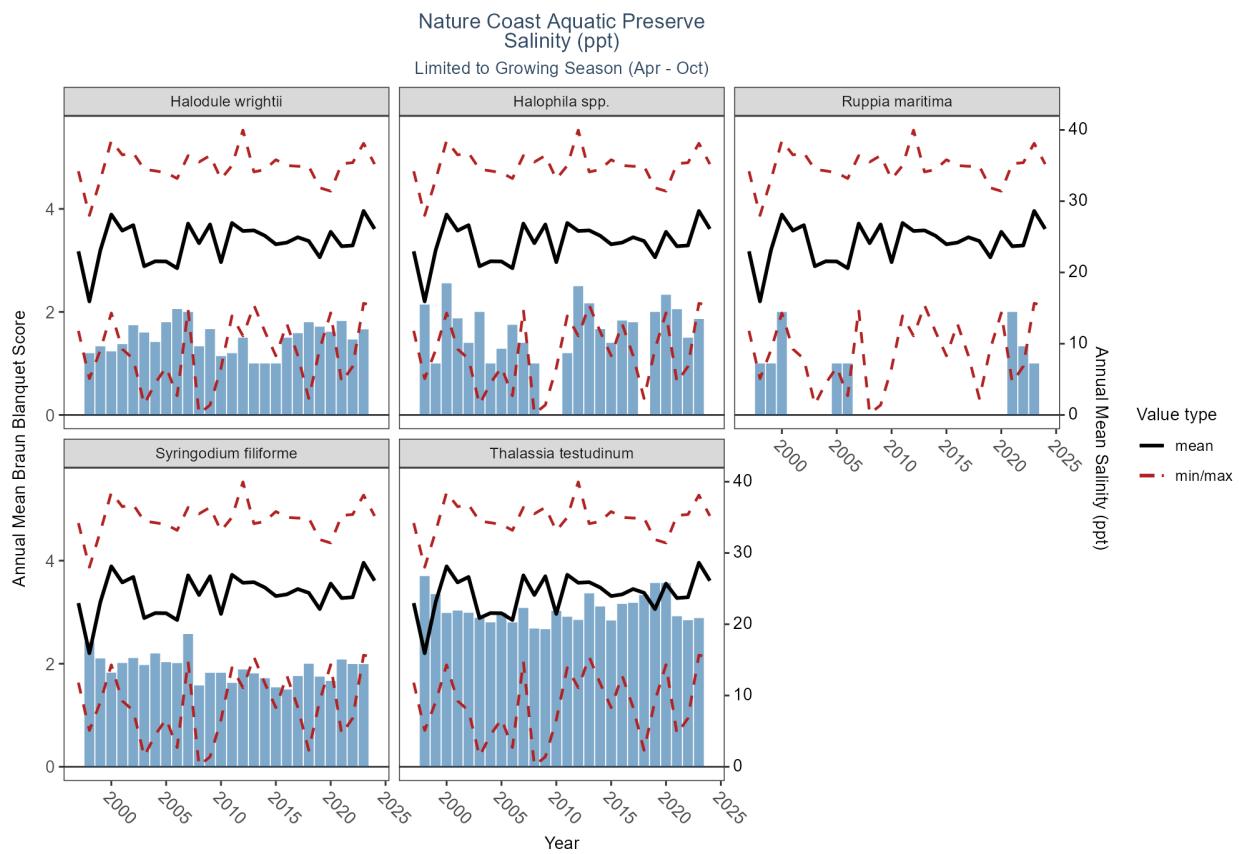


Table 438: WQ Summary for Salinity in Nature Coast Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	1997	22.967	24.000	11.800	34.200	5.053
Salinity	1998	15.935	16.100	5.100	28.000	4.511
Salinity	1999	23.108	23.600	9.100	33.000	4.571
Salinity	2000	28.128	28.600	14.300	38.500	5.061
Salinity	2001	25.870	26.170	9.250	36.500	5.798
Salinity	2002	26.634	27.350	7.870	36.780	5.864
Salinity	2003	20.871	21.315	1.480	34.480	6.687
Salinity	2004	21.568	22.170	4.450	34.250	6.044
Salinity	2005	21.545	22.600	6.700	34.000	7.011
Salinity	2006	20.592	20.200	2.700	33.180	6.635
Salinity	2007	26.857	26.770	14.750	36.390	4.633
Salinity	2008	24.103	24.730	0.150	35.500	6.017
Salinity	2009	26.735	26.965	1.400	36.410	5.574
Salinity	2010	21.448	21.400	6.600	33.100	6.398
Salinity	2011	26.942	27.400	13.900	35.000	5.736
Salinity	2012	25.821	27.025	11.100	39.970	6.453
Salinity	2013	25.901	25.600	15.400	34.110	5.907
Salinity	2014	25.154	25.500	11.700	34.430	5.580
Salinity	2015	23.955	23.660	8.300	35.815	6.371
Salinity	2016	24.190	24.190	12.800	35.000	5.215

ParameterName	Year	mean	median	min	max	sd
Salinity	2017	24.940	25.090	8.330	34.900	5.413
Salinity	2018	24.409	25.360	2.316	34.900	6.056
Salinity	2019	22.127	23.110	9.280	31.880	5.384
Salinity	2020	25.703	27.050	14.320	31.410	4.244
Salinity	2021	23.674	24.970	4.590	35.270	6.198
Salinity	2022	23.785	23.600	6.810	35.400	5.555
Salinity	2023	28.626	29.050	15.660	38.120	4.398
Salinity	2024	26.111	25.980	15.340	35.200	4.021

Programs contributing WQ Data:

Table 439: Programs contributing WQ data for Salinity in Nature Coast Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	60	2015	2015	15
Salinity	69	2003	2009	283
Salinity	95	1980	2018	336
Salinity	115	1991	1994	12
Salinity	118	2021	2021	5
Salinity	479	1997	2023	3637
Salinity	540	2017	2018	3
Salinity	560	2006	2024	829
Salinity	5002	1995	2020	1106
Salinity	5008	2021	2024	1639

WQ Program names:

- 60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey
- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 479 - Southwest Florida Water Management District - Water Quality Monitoring
- 540 - Shellfish Harvest Area Classification Program
- 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
- 5002 - Florida STORET / WIN
- 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Secchi Depth

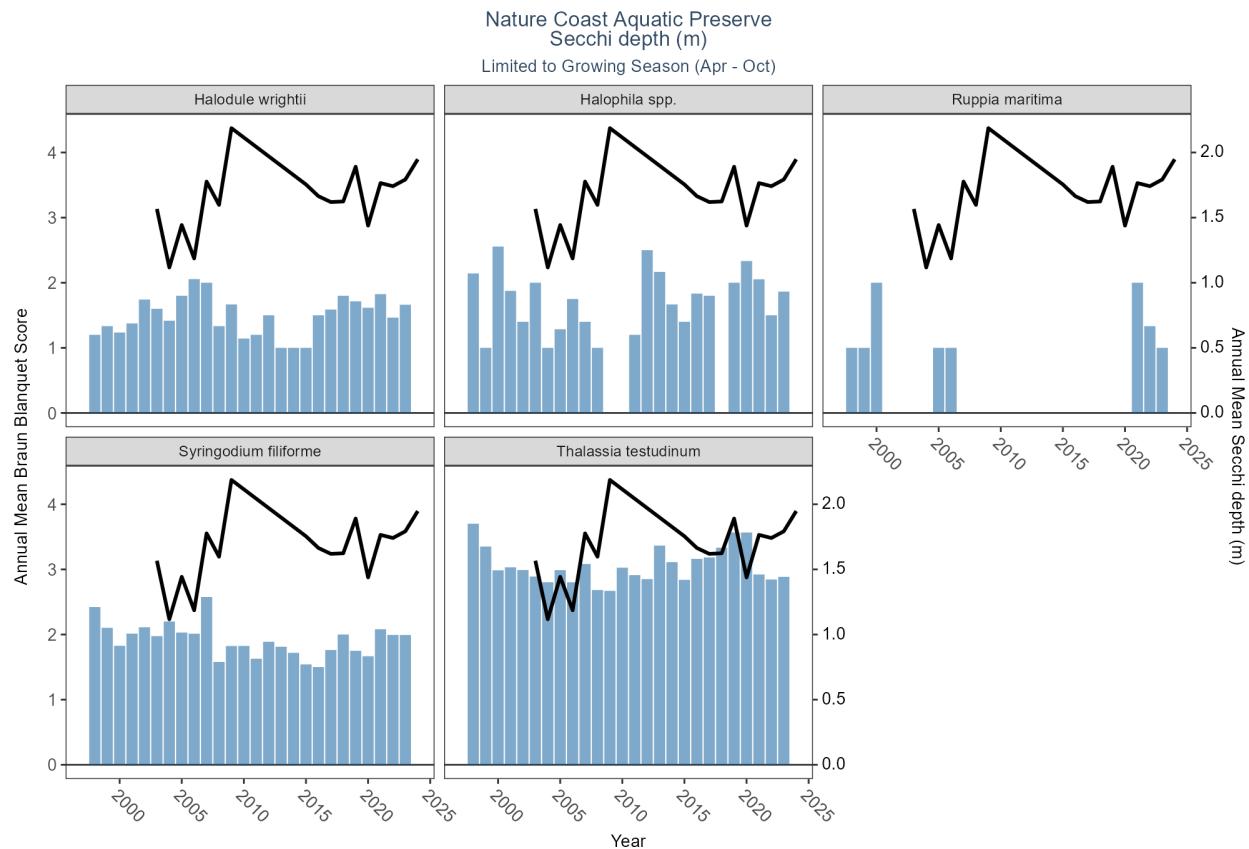


Table 440: WQ Summary for Secchi Depth in Nature Coast Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2003	1.567	1.400	0.700	3.000	0.671
Secchi depth	2004	1.117	1.100	0.300	1.800	0.343
Secchi depth	2005	1.443	1.300	0.500	3.500	0.661
Secchi depth	2006	1.186	1.000	0.500	2.400	0.480
Secchi depth	2007	1.777	1.700	0.500	4.000	0.735
Secchi depth	2008	1.597	1.600	0.200	3.800	0.645
Secchi depth	2009	2.187	1.900	0.300	21.020	2.392
Secchi depth	2015	1.754	1.710	0.500	3.920	0.679
Secchi depth	2016	1.665	1.600	0.480	3.280	0.586
Secchi depth	2017	1.620	1.600	0.500	3.130	0.572
Secchi depth	2018	1.624	1.650	0.600	3.500	0.561
Secchi depth	2019	1.891	1.885	0.380	3.510	0.661
Secchi depth	2020	1.438	1.219	1.000	2.438	0.473
Secchi depth	2021	1.765	1.707	0.305	3.688	0.689
Secchi depth	2022	1.741	1.600	0.396	4.000	0.682
Secchi depth	2023	1.793	1.710	0.300	4.000	0.664
Secchi depth	2024	1.948	1.800	0.480	6.000	0.762

Programs contributing WQ Data:

Table 441: Programs contributing WQ data for Secchi Depth in Nature Coast Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	2003	2009	283
Secchi depth	115	1991	1994	6
Secchi depth	118	2021	2021	1
Secchi depth	479	2007	2023	1648
Secchi depth	514	2020	2021	9
Secchi depth	560	2022	2024	493
Secchi depth	5002	2015	2020	11
Secchi depth	5008	2021	2024	1198

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 479 - Southwest Florida Water Management District - Water Quality Monitoring
- 514 - Florida LAKEWATCH Program
- 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
- 5002 - Florida STORET / WIN
- 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Total Nitrogen & Total Phosphorus

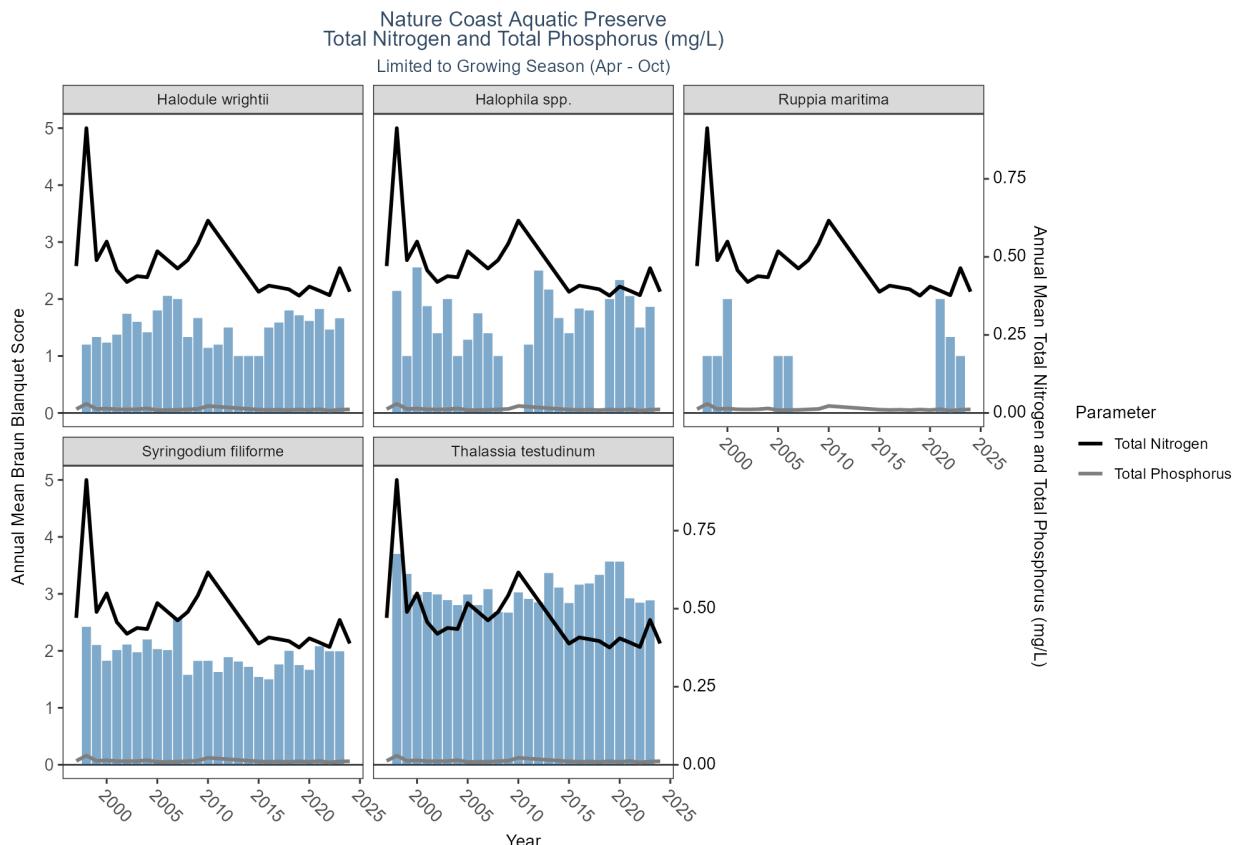


Table 442: WQ Summary for Total Nitrogen & Total Phosphorus in Nature Coast Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	1997	0.471	0.470	0.190	0.910	0.154
Total Nitrogen	1998	0.912	0.880	0.320	1.910	0.336
Total Nitrogen	1999	0.490	0.490	0.240	0.730	0.107
Total Nitrogen	2000	0.549	0.550	0.240	1.050	0.148
Total Nitrogen	2001	0.457	0.450	0.100	0.960	0.145
Total Nitrogen	2002	0.420	0.400	0.033	0.900	0.120
Total Nitrogen	2003	0.438	0.420	0.160	1.040	0.132
Total Nitrogen	2004	0.435	0.430	0.150	1.040	0.139
Total Nitrogen	2005	0.518	0.518	0.467	0.569	0.072
Total Nitrogen	2007	0.463	0.455	0.060	0.790	0.132
Total Nitrogen	2008	0.490	0.480	0.190	0.950	0.143
Total Nitrogen	2009	0.542	0.530	0.270	1.150	0.127
Total Nitrogen	2010	0.616	0.616	0.616	0.616	NA
Total Nitrogen	2015	0.388	0.400	0.210	0.670	0.088
Total Nitrogen	2016	0.408	0.390	0.230	0.650	0.098
Total Nitrogen	2017	0.402	0.400	0.210	0.880	0.096
Total Nitrogen	2018	0.396	0.380	0.220	0.650	0.091
Total Nitrogen	2019	0.376	0.360	0.200	0.690	0.100
Total Nitrogen	2020	0.405	0.390	0.250	0.671	0.099
Total Nitrogen	2021	0.392	0.400	0.040	0.540	0.128
Total Nitrogen	2022	0.377	0.360	0.210	0.780	0.133
Total Nitrogen	2023	0.464	0.465	0.140	0.860	0.108
Total Nitrogen	2024	0.389	0.380	0.040	0.620	0.093
Total Phosphorus	1997	0.012	0.009	0.003	0.056	0.009
Total Phosphorus	1998	0.029	0.026	0.008	0.091	0.015
Total Phosphorus	1999	0.013	0.010	0.005	0.071	0.009
Total Phosphorus	2000	0.014	0.011	0.004	0.073	0.009
Total Phosphorus	2001	0.012	0.008	0.004	0.106	0.009
Total Phosphorus	2002	0.011	0.009	0.003	0.095	0.009
Total Phosphorus	2003	0.012	0.009	0.003	0.088	0.010
Total Phosphorus	2004	0.015	0.011	0.004	0.100	0.013
Total Phosphorus	2005	0.009	0.009	0.006	0.012	0.004
Total Phosphorus	2007	0.010	0.007	0.003	0.054	0.008
Total Phosphorus	2008	0.011	0.009	0.003	0.083	0.009
Total Phosphorus	2009	0.013	0.010	0.003	0.098	0.009
Total Phosphorus	2010	0.022	0.022	0.022	0.022	NA
Total Phosphorus	2015	0.011	0.009	0.005	0.066	0.008
Total Phosphorus	2016	0.010	0.008	0.005	0.039	0.005
Total Phosphorus	2017	0.010	0.008	0.005	0.084	0.009
Total Phosphorus	2018	0.009	0.007	0.005	0.036	0.006
Total Phosphorus	2019	0.011	0.007	0.005	0.081	0.010
Total Phosphorus	2020	0.009	0.007	0.005	0.040	0.007
Total Phosphorus	2021	0.012	0.010	0.004	0.084	0.008
Total Phosphorus	2022	0.008	0.006	0.005	0.036	0.005
Total Phosphorus	2023	0.010	0.009	0.005	0.041	0.005
Total Phosphorus	2024	0.011	0.010	0.006	0.029	0.004

Programs contributing WQ Data:

Table 443: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Nature Coast Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	103	2005	2005	2
Total Nitrogen	118	2010	2010	1
Total Nitrogen	479	1997	2023	3806
Total Nitrogen	514	2020	2021	8
Total Nitrogen	540	2017	2018	4
Total Nitrogen	5002	2015	2020	32
Total Nitrogen	5008	2021	2024	620
Total Phosphorus	103	2005	2021	335
Total Phosphorus	118	2010	2010	1
Total Phosphorus	479	1997	2023	3858
Total Phosphorus	514	2020	2021	9
Total Phosphorus	540	2017	2018	4
Total Phosphorus	5002	2015	2020	32
Total Phosphorus	5008	2021	2024	620

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

479 - Southwest Florida Water Management District - Water Quality Monitoring

514 - Florida LAKEWATCH Program

540 - Shellfish Harvest Area Classification Program

5002 - Florida STORET / WIN

5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Turbidity

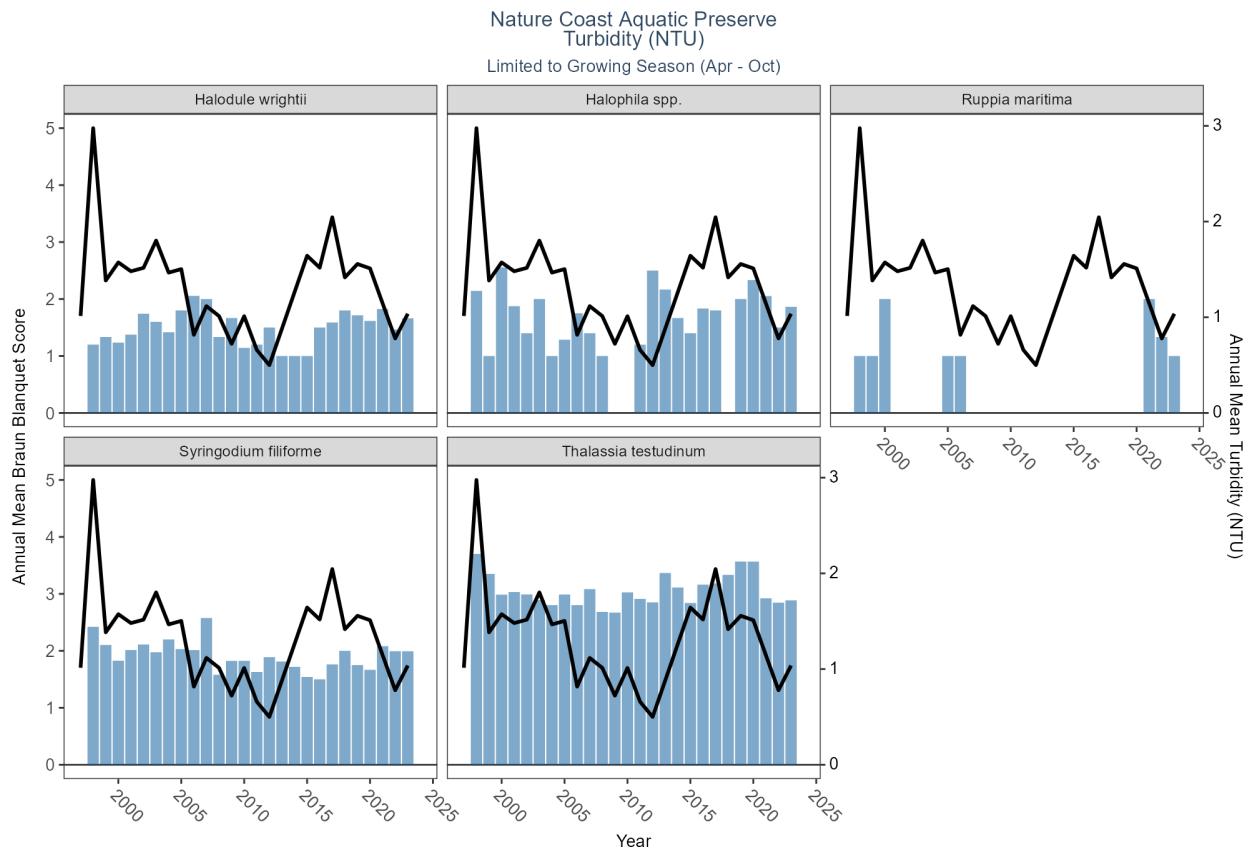


Table 444: WQ Summary for Turbidity in Nature Coast Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	1997	1.014	0.840	0.52	2.40	0.510
Turbidity	1998	2.976	2.500	1.10	6.10	1.415
Turbidity	1999	1.384	1.300	0.60	2.50	0.557
Turbidity	2000	1.573	1.300	0.63	3.40	0.780
Turbidity	2001	1.480	1.250	0.42	4.40	1.023
Turbidity	2002	1.516	1.300	0.50	2.90	0.733
Turbidity	2003	1.801	1.050	0.40	6.20	1.470
Turbidity	2004	1.467	1.000	0.40	4.20	1.061
Turbidity	2005	1.503	1.200	0.40	5.00	0.970
Turbidity	2006	0.817	0.800	0.40	1.40	0.313
Turbidity	2007	1.117	0.900	0.05	3.40	0.822
Turbidity	2008	1.012	0.800	0.50	2.00	0.501
Turbidity	2009	0.722	0.600	0.10	1.60	0.439
Turbidity	2010	1.011	0.900	0.20	2.10	0.627
Turbidity	2011	0.659	0.350	0.10	1.60	0.555
Turbidity	2012	0.500	0.300	0.30	0.90	0.346
Turbidity	2015	1.643	1.100	0.32	9.44	1.472
Turbidity	2016	1.518	1.040	0.10	10.10	1.565
Turbidity	2017	2.045	1.170	0.34	15.30	2.489
Turbidity	2018	1.416	0.955	0.34	6.21	1.262

ParameterName	Year	mean	median	min	max	sd
Turbidity	2019	1.557	1.020	0.35	8.20	1.308
Turbidity	2020	1.511	0.980	0.35	13.40	1.595
Turbidity	2022	0.779	0.590	0.15	3.07	0.589
Turbidity	2023	1.037	0.625	0.24	7.53	1.048

Programs contributing WQ Data:

Table 445: Programs contributing WQ data for Turbidity in Nature Coast Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	95	2003	2003	4
Turbidity	103	2005	2005	1
Turbidity	479	2015	2023	1026
Turbidity	5002	1995	2020	434

WQ Program names:

95 - Harmful Algal Bloom Marine Observation Network

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

479 - Southwest Florida Water Management District - Water Quality Monitoring

5002 - Florida STORET / WIN

Water Temperature

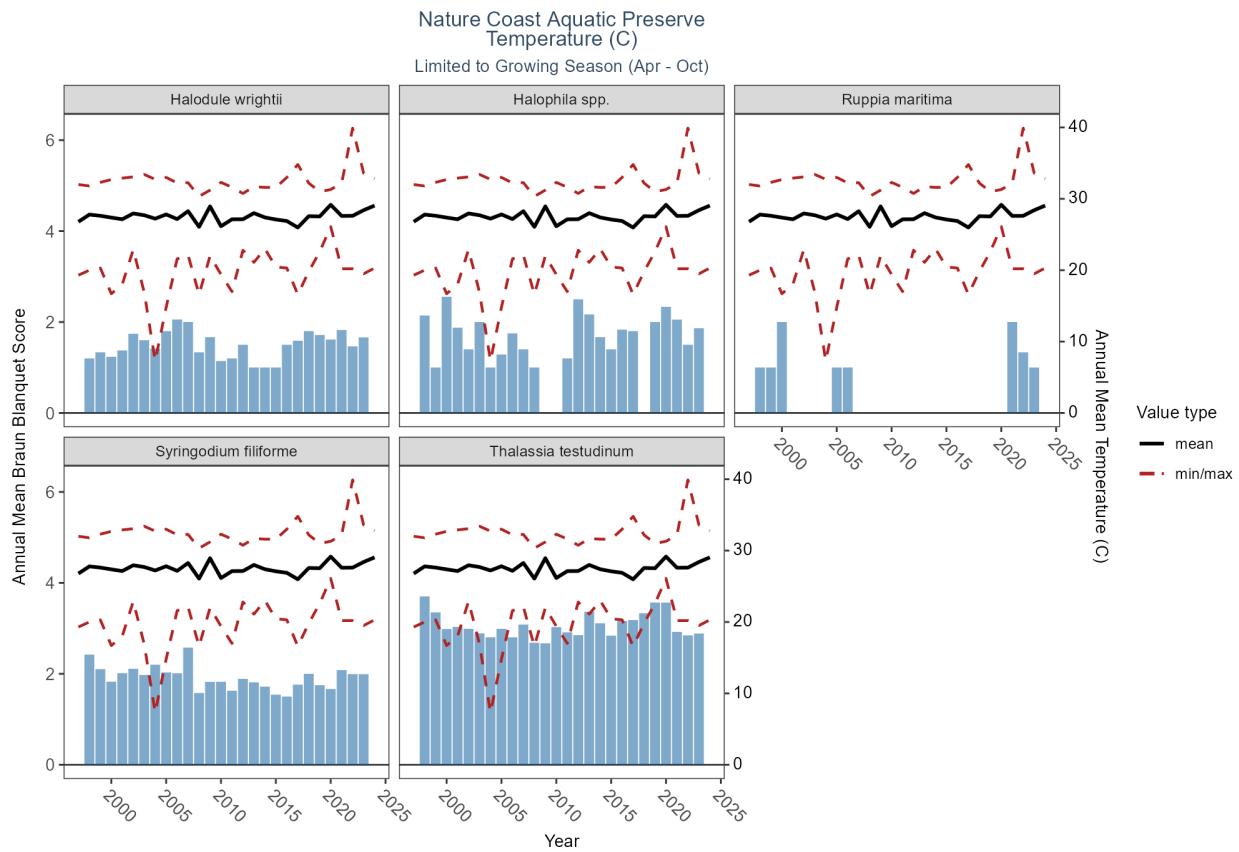


Table 446: WQ Summary for Water Temperature in Nature Coast Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	1997	26.786	28.000	19.30	32.00	3.687
Temperature	1998	27.789	27.900	20.00	31.80	2.657
Temperature	1999	27.622	27.500	20.30	32.30	2.541
Temperature	2000	27.370	28.500	16.70	32.70	3.251
Temperature	2001	27.137	27.780	18.02	32.90	3.511
Temperature	2002	27.948	28.105	22.89	33.07	1.930
Temperature	2003	27.700	28.640	16.90	33.41	3.166
Temperature	2004	27.218	28.080	7.30	32.73	3.493
Temperature	2005	27.812	28.850	14.80	33.00	4.295
Temperature	2006	27.163	27.800	21.58	32.22	2.758
Temperature	2007	28.267	28.300	22.10	32.26	2.724
Temperature	2008	26.076	26.500	16.60	30.33	3.610
Temperature	2009	28.941	29.800	22.00	31.22	2.559
Temperature	2010	26.161	28.380	19.40	32.30	4.605
Temperature	2011	27.128	28.700	17.00	31.62	3.736
Temperature	2012	27.139	27.850	22.80	30.75	2.378
Temperature	2013	27.995	29.540	21.10	31.70	3.277
Temperature	2014	27.392	27.600	23.00	31.60	2.172
Temperature	2015	27.101	27.190	20.46	31.60	2.863

ParameterName	Year	mean	median	min	max	sd
Temperature	2016	26.889	26.000	20.30	33.00	3.924
Temperature	2017	25.982	25.500	16.60	34.80	3.687
Temperature	2018	27.568	28.700	19.81	32.20	3.196
Temperature	2019	27.530	29.000	22.60	31.00	2.686
Temperature	2020	29.163	29.300	26.10	31.30	1.124
Temperature	2021	27.600	28.100	20.20	32.20	2.517
Temperature	2022	27.617	28.400	20.20	39.90	3.085
Temperature	2023	28.403	29.600	19.50	33.60	3.220
Temperature	2024	29.051	30.000	20.30	32.80	2.737

Programs contributing WQ Data:

Table 447: Programs contributing WQ data for Water Temperature in Nature Coast Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	60	2015	2015	15
Temperature	69	2003	2009	283
Temperature	95	1974	2018	337
Temperature	115	1991	1994	12
Temperature	118	2021	2021	3
Temperature	479	1997	2023	2726
Temperature	540	2017	2018	3
Temperature	560	2006	2024	829
Temperature	5002	1995	2020	1113
Temperature	5008	2021	2024	1518

WQ Program names:

- 60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey
- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 479 - Southwest Florida Water Management District - Water Quality Monitoring
- 540 - Shellfish Harvest Area Classification Program
- 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
- 5002 - Florida STORET / WIN
- 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Pine Island Sound Aquatic Preserve

Programs contributing SAV Data:

Table 448: Programs contributing SAV data in Pine Island Sound Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Braun Blanquet Score	570	1998	2023	3442
Percent Occurrence	3015	2010	2022	2639

SAV Program names:

570 - Charlotte Harbor Seagrass Monitoring

3015 - SCCF Seagrass Surveys

Chlorophyll-a (corrected & uncorrected)

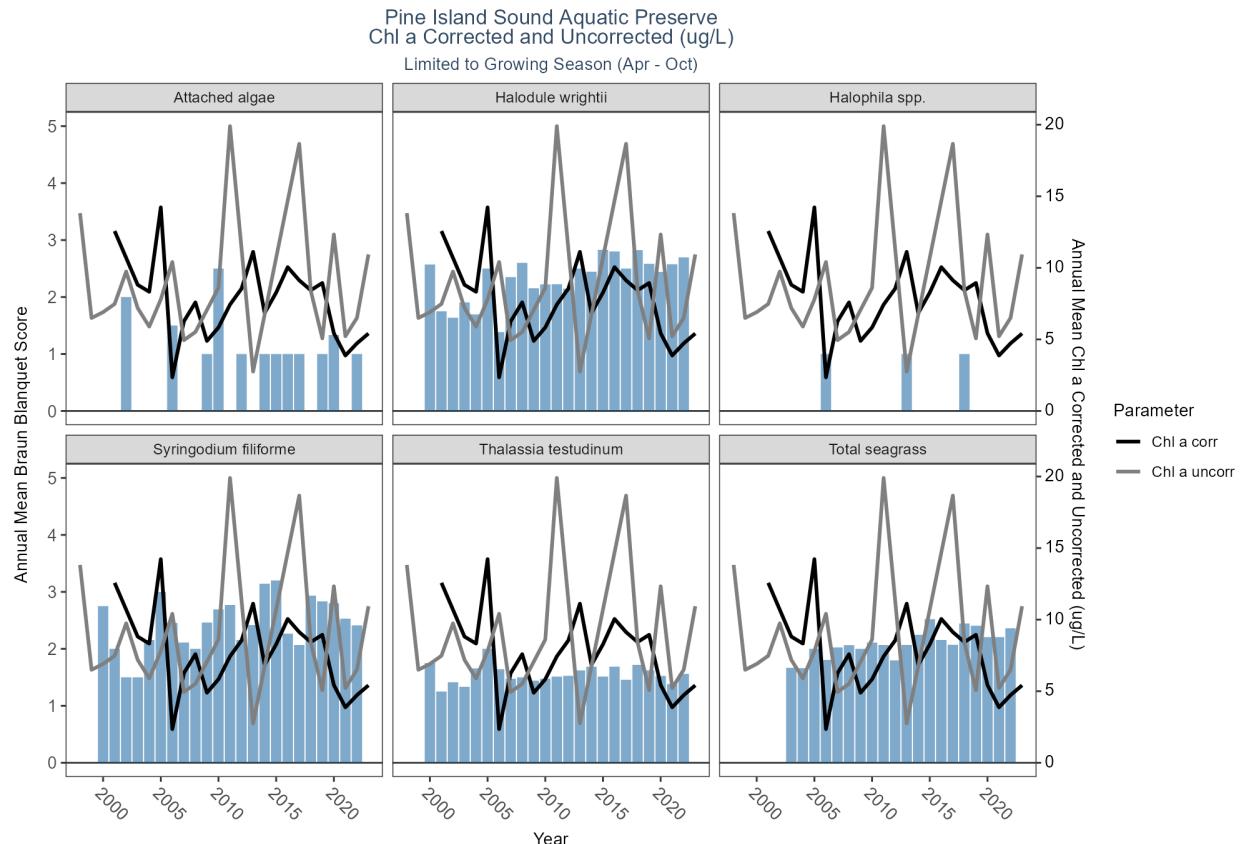


Table 449: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Pine Island Sound Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2001	12.571	11.000	5.000	25.000	6.217
Chl a corr	2003	8.813	9.120	1.670	15.800	4.936
Chl a corr	2004	8.327	7.150	1.200	23.000	5.318

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2005	14.227	5.400	0.200	219.000	40.366
Chl a corr	2006	2.350	1.800	1.000	4.400	1.268
Chl a corr	2007	6.259	5.000	2.300	17.000	3.671
Chl a corr	2008	7.585	5.600	1.700	24.000	5.118
Chl a corr	2009	4.892	4.400	0.900	10.000	2.478
Chl a corr	2010	5.835	5.100	0.760	15.000	3.713
Chl a corr	2011	7.433	6.200	2.800	15.000	3.759
Chl a corr	2012	8.548	6.600	1.600	26.700	5.527
Chl a corr	2013	11.117	7.250	0.900	175.200	18.139
Chl a corr	2014	6.838	5.600	1.200	21.000	4.323
Chl a corr	2015	8.273	6.350	1.200	56.000	6.968
Chl a corr	2016	10.048	9.100	1.800	41.600	6.947
Chl a corr	2017	9.128	6.600	0.550	59.800	7.667
Chl a corr	2018	8.434	5.330	0.500	72.570	8.903
Chl a corr	2019	8.942	5.800	0.500	193.000	15.357
Chl a corr	2020	5.430	4.220	0.500	25.600	4.080
Chl a corr	2021	3.875	2.800	0.500	22.500	3.199
Chl a corr	2022	4.725	3.500	0.500	19.000	3.979
Chl a corr	2023	5.411	2.400	0.500	75.520	8.387
Chl a corr	2024	1.666	0.635	0.500	10.000	2.098
Chl a uncorr	1998	13.824	11.100	3.630	39.700	10.666
Chl a uncorr	1999	6.496	5.462	1.924	22.500	4.301
Chl a uncorr	2000	6.904	5.715	0.738	25.000	5.240
Chl a uncorr	2001	7.475	5.600	1.000	25.000	5.744
Chl a uncorr	2002	9.742	7.000	0.702	41.188	9.153
Chl a uncorr	2003	7.189	6.237	0.015	30.000	5.155
Chl a uncorr	2004	5.893	3.200	0.823	21.587	5.637
Chl a uncorr	2005	7.795	6.018	0.589	34.300	6.335
Chl a uncorr	2006	10.410	5.220	1.160	84.700	15.018
Chl a uncorr	2007	4.944	4.067	0.134	18.600	3.559
Chl a uncorr	2008	5.517	4.172	0.574	16.851	4.751
Chl a uncorr	2010	8.605	8.605	4.240	12.970	6.173
Chl a uncorr	2011	19.900	19.900	19.900	19.900	NA
Chl a uncorr	2013	2.750	2.750	2.400	3.100	0.495
Chl a uncorr	2017	18.667	22.000	10.000	24.000	7.572
Chl a uncorr	2018	8.400	3.400	1.200	40.000	10.222
Chl a uncorr	2019	5.070	5.150	0.570	11.000	3.019
Chl a uncorr	2020	12.331	11.300	4.400	27.000	6.677
Chl a uncorr	2021	5.220	4.300	1.200	16.100	3.111
Chl a uncorr	2022	6.503	4.500	1.400	21.000	5.163
Chl a uncorr	2023	10.937	8.000	2.200	39.000	9.190
Chl a uncorr	2024	5.050	3.100	2.200	11.000	3.651

Programs contributing WQ Data:

Table 450: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Pine Island Sound Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	103	2021	2021	64
Chl a corr	303	2012	2023	1114

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	476	2008	2024	401
Chl a corr	513	2003	2023	105
Chl a corr	5002	2001	2024	596
Chl a uncorr	95	2011	2013	3
Chl a uncorr	103	2002	2021	140
Chl a uncorr	115	2002	2004	4
Chl a uncorr	118	2010	2010	2
Chl a uncorr	476	1998	2024	458
Chl a uncorr	509	1999	2008	204
Chl a uncorr	513	2002	2004	9
Chl a uncorr	514	2001	2002	36
Chl a uncorr	5002	2020	2021	7

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

303 - River, Estuary and Coastal Observing Network

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

95 - Harmful Algal Bloom Marine Observation Network

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

509 - SERC Water Quality Monitoring Network

514 - Florida LAKEWATCH Program

Colored Dissolved Organic Matter

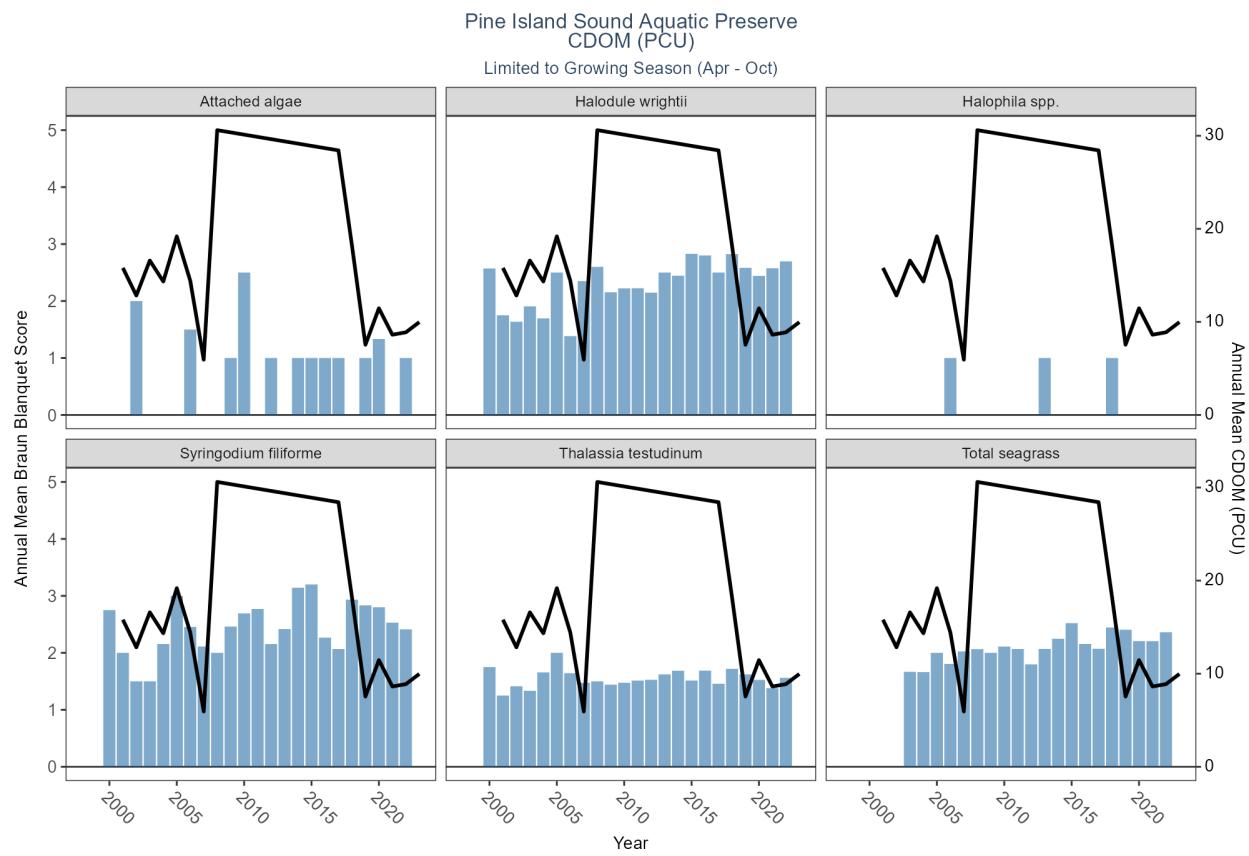


Table 451: WQ Summary for Colored Dissolved Organic Matter in Pine Island Sound Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
CDOM	2001	15.800	7.000	4.00	60.0	18.835
CDOM	2002	12.833	8.500	0.00	32.0	11.723
CDOM	2003	16.595	0.700	0.00	61.7	22.886
CDOM	2004	14.341	10.000	3.70	47.0	11.531
CDOM	2005	19.192	15.800	6.30	41.6	11.619
CDOM	2006	14.425	9.600	5.00	29.6	9.676
CDOM	2007	5.939	2.755	1.50	20.6	6.917
CDOM	2008	30.604	28.950	1.50	90.5	31.310
CDOM	2017	28.429	15.000	3.30	110.0	31.653
CDOM	2018	18.223	14.250	1.84	81.0	15.869
CDOM	2019	7.545	6.650	1.60	25.5	4.997
CDOM	2020	11.460	5.805	1.60	95.4	13.406
CDOM	2021	8.625	6.670	1.25	42.0	6.562
CDOM	2022	8.878	7.000	1.70	55.0	8.580
CDOM	2023	9.976	8.145	1.96	31.9	6.809
CDOM	2024	6.110	5.320	2.50	16.5	2.968

Programs contributing WQ Data:

Table 452: Programs contributing WQ data for Colored Dissolved Organic Matter in Pine Island Sound Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
CDOM	103	2021	2021	104
CDOM	476	2017	2024	159
CDOM	513	2002	2023	108
CDOM	514	2001	2002	24
CDOM	5002	2018	2024	557

WQ Program names:

- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 513 - Coastal Charlotte Harbor Monitoring Network
- 514 - Florida LAKEWATCH Program
- 5002 - Florida STORET / WIN

Dissolved Oxygen



Table 453: WQ Summary for Dissolved Oxygen in Pine Island Sound Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	1998	6.570	6.5	2.00	14.10	1.660
Dissolved Oxygen	1999	6.151	6.2	1.90	11.50	1.194
Dissolved Oxygen	2000	6.307	6.3	2.40	11.70	1.204
Dissolved Oxygen	2001	6.281	6.1	2.40	13.20	1.520
Dissolved Oxygen	2002	6.419	6.5	1.00	11.90	1.451
Dissolved Oxygen	2003	6.831	6.8	0.60	14.80	1.750
Dissolved Oxygen	2004	6.668	6.6	0.70	13.20	2.055
Dissolved Oxygen	2005	6.731	6.6	0.90	15.60	1.993
Dissolved Oxygen	2006	6.730	6.5	0.10	17.80	2.214
Dissolved Oxygen	2007	6.675	6.5	0.01	16.20	2.121
Dissolved Oxygen	2008	6.585	6.4	0.10	15.10	1.853
Dissolved Oxygen	2009	6.348	6.2	0.30	15.70	1.959
Dissolved Oxygen	2010	6.961	6.8	1.00	14.90	1.950
Dissolved Oxygen	2011	6.217	6.2	1.00	13.50	1.951
Dissolved Oxygen	2012	6.457	6.4	1.90	14.20	1.657
Dissolved Oxygen	2013	6.847	6.7	1.20	15.60	1.860
Dissolved Oxygen	2014	6.401	6.2	0.70	18.00	2.119
Dissolved Oxygen	2015	6.536	6.6	1.30	15.40	2.072
Dissolved Oxygen	2016	6.882	6.8	0.50	17.02	1.791
Dissolved Oxygen	2017	6.481	6.5	0.40	14.60	1.832
Dissolved Oxygen	2018	6.640	6.5	1.00	20.00	1.931
Dissolved Oxygen	2019	6.703	6.4	0.60	19.50	2.062
Dissolved Oxygen	2020	6.254	6.2	0.40	17.70	1.971
Dissolved Oxygen	2021	6.050	6.1	0.30	14.80	1.683
Dissolved Oxygen	2022	6.405	6.4	0.70	12.90	1.770
Dissolved Oxygen	2023	5.581	5.7	1.50	8.10	1.014
Dissolved Oxygen	2024	6.388	6.4	4.60	7.60	0.771

Programs contributing WQ Data:

Table 454: Programs contributing WQ data for Dissolved Oxygen in Pine Island Sound Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	1990	2022	12609
Dissolved Oxygen	95	1985	2018	862
Dissolved Oxygen	103	2003	2021	128
Dissolved Oxygen	115	2002	2004	14
Dissolved Oxygen	118	2015	2020	15
Dissolved Oxygen	303	2012	2020	819
Dissolved Oxygen	476	1998	2024	664
Dissolved Oxygen	509	1999	2008	408
Dissolved Oxygen	513	2002	2023	124
Dissolved Oxygen	5002	1994	2024	5926

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

- 95 - Harmful Algal Bloom Marine Observation Network
 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
 115 - Environmental Monitoring Assessment Program
 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
 303 - River, Estuary and Coastal Observing Network
 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
 509 - SERC Water Quality Monitoring Network
 513 - Coastal Charlotte Harbor Monitoring Network
 5002 - Florida STORET / WIN

Dissolved Oxygen Saturation

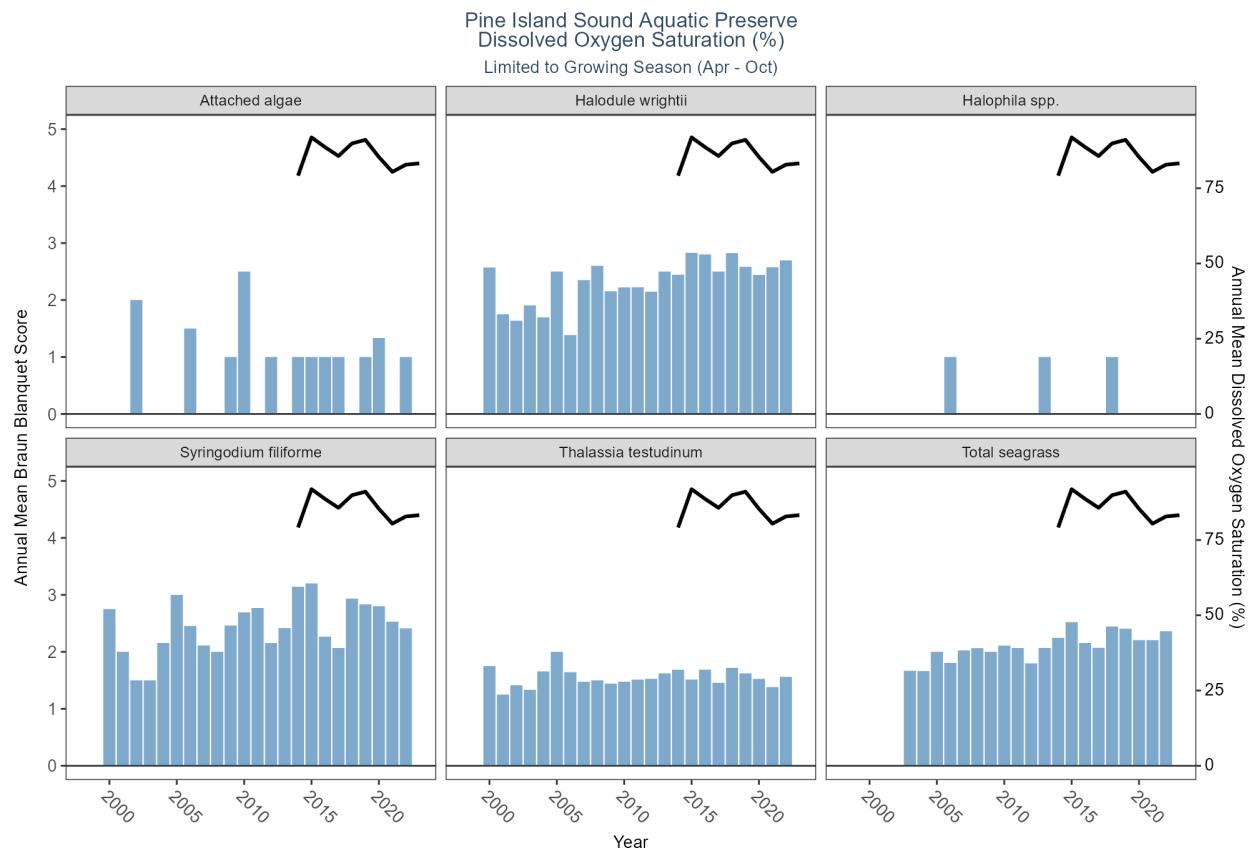


Table 455: WQ Summary for Dissolved Oxygen Saturation in Pine Island Sound Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2014	79.172	80.550	11.100	179.900	29.195
Dissolved Oxygen Saturation	2015	91.886	94.000	25.000	161.000	24.431
Dissolved Oxygen Saturation	2016	88.662	90.850	5.000	167.000	27.762
Dissolved Oxygen Saturation	2017	85.707	87.000	8.000	165.000	28.203
Dissolved Oxygen Saturation	2018	89.885	86.000	10.000	181.000	21.094
Dissolved Oxygen Saturation	2019	91.068	92.900	4.717	175.258	21.585
Dissolved Oxygen Saturation	2020	85.364	90.100	4.724	145.685	19.983
Dissolved Oxygen Saturation	2021	80.442	82.490	12.625	154.780	22.451
Dissolved Oxygen Saturation	2022	82.831	86.800	1.800	123.400	19.931

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2023	83.259	86.133	17.133	120.340	17.363
Dissolved Oxygen Saturation	2024	94.632	96.550	73.700	112.100	9.082

Programs contributing WQ Data:

Table 456: Programs contributing WQ data for Dissolved Oxygen Saturation in Pine Island Sound Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	95	2016	2016	1
Dissolved Oxygen Saturation	303	2014	2023	952
Dissolved Oxygen Saturation	476	2018	2024	100
Dissolved Oxygen Saturation	513	2023	2023	12
Dissolved Oxygen Saturation	5002	2014	2024	725

WQ Program names:

95 - Harmful Algal Bloom Marine Observation Network

303 - River, Estuary and Coastal Observing Network

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

pH

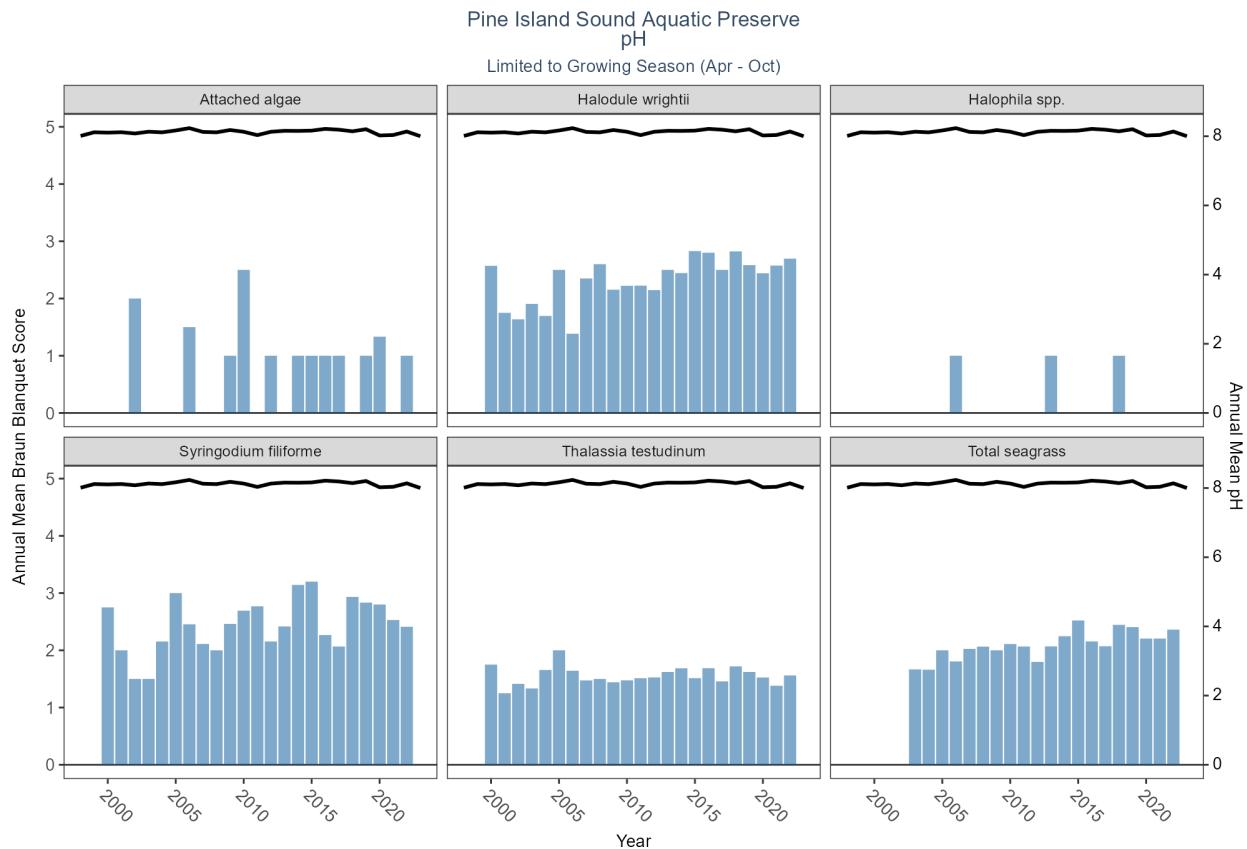


Table 457: WQ Summary for pH in Pine Island Sound Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	1998	8.009	8.00	7.000	8.700	0.319
pH	1999	8.115	8.10	7.400	8.700	0.221
pH	2000	8.105	8.10	7.600	8.700	0.239
pH	2001	8.116	8.10	5.250	8.800	0.296
pH	2002	8.080	8.10	7.300	8.715	0.218
pH	2003	8.131	8.10	7.200	8.900	0.269
pH	2004	8.113	8.10	7.400	8.800	0.193
pH	2005	8.167	8.12	4.500	9.000	0.289
pH	2006	8.235	8.24	7.200	9.600	0.294
pH	2007	8.125	8.10	7.400	8.910	0.204
pH	2008	8.113	8.10	7.360	8.900	0.184
pH	2009	8.180	8.20	7.180	8.700	0.162
pH	2010	8.130	8.10	7.250	8.700	0.177
pH	2011	8.033	8.20	4.300	8.840	0.699
pH	2012	8.129	8.20	7.000	8.700	0.247
pH	2013	8.157	8.20	6.900	9.100	0.236
pH	2014	8.154	8.20	6.200	10.100	0.306
pH	2015	8.163	8.20	7.240	8.800	0.197
pH	2016	8.213	8.20	6.570	8.800	0.202
pH	2017	8.190	8.20	6.900	10.400	0.298

ParameterName	Year	mean	median	min	max	sd
pH	2018	8.143	8.10	6.800	11.100	0.329
pH	2019	8.203	8.10	7.160	12.973	0.614
pH	2020	8.022	8.10	7.000	8.502	0.222
pH	2021	8.036	8.10	7.100	8.600	0.215
pH	2022	8.137	8.20	7.100	8.900	0.202
pH	2023	8.001	8.00	7.593	8.300	0.127
pH	2024	8.027	8.00	7.900	8.270	0.080

Programs contributing WQ Data:

Table 458: Programs contributing WQ data for pH in Pine Island Sound Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	1991	2022	12471
pH	95	1955	2018	834
pH	103	2021	2021	149
pH	115	2002	2004	14
pH	118	2015	2020	12
pH	303	2012	2023	1055
pH	476	1998	2024	691
pH	509	2001	2008	165
pH	513	2002	2023	124
pH	5002	1994	2024	4494

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 303 - River, Estuary and Coastal Observing Network
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 509 - SERC Water Quality Monitoring Network
- 513 - Coastal Charlotte Harbor Monitoring Network
- 5002 - Florida STORET / WIN

Salinity

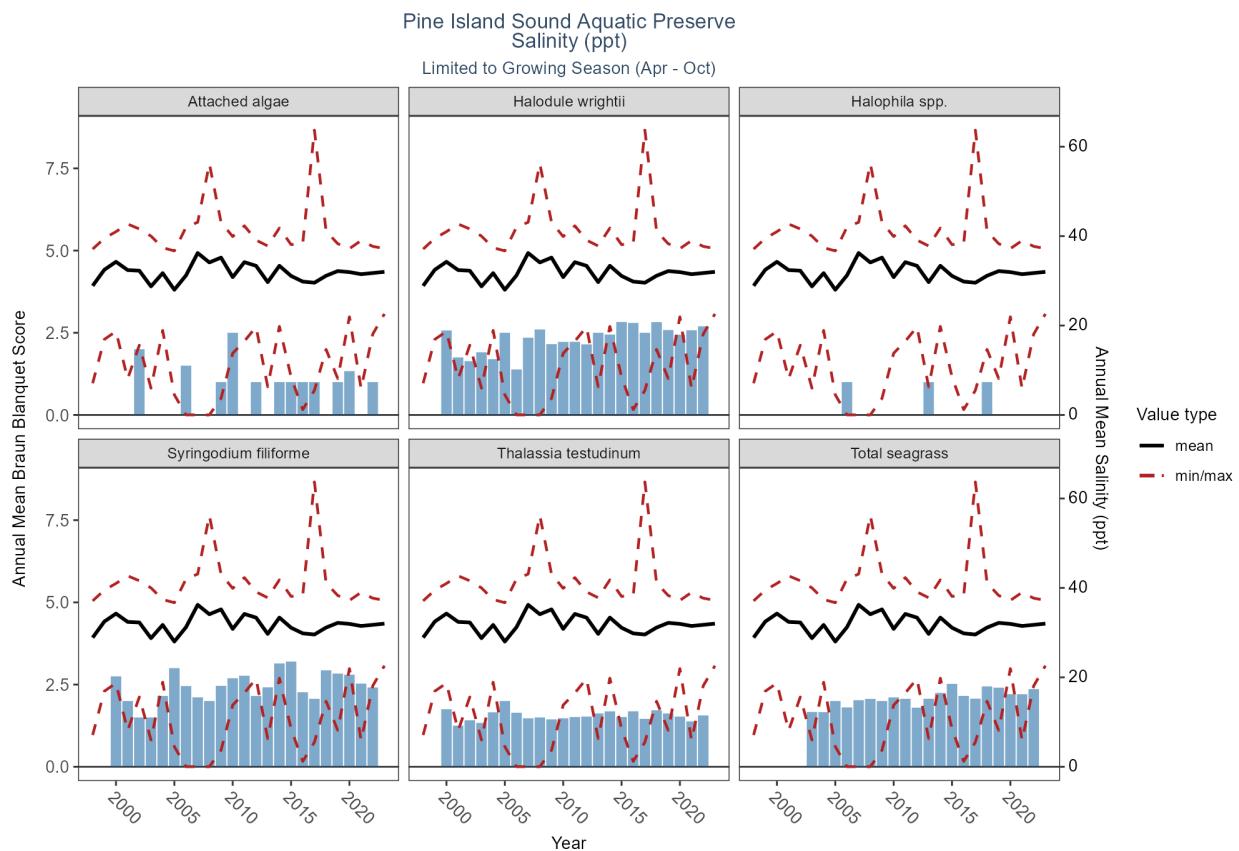


Table 459: WQ Summary for Salinity in Pine Island Sound Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	1998	28.883	29.900	7.100	37.10	3.924
Salinity	1999	32.474	33.600	16.900	39.50	3.533
Salinity	2000	34.254	35.000	18.700	41.00	2.718
Salinity	2001	32.401	33.100	8.100	42.70	5.293
Salinity	2002	32.267	32.400	15.600	41.60	3.769
Salinity	2003	28.759	29.700	6.000	40.00	5.424
Salinity	2004	31.722	33.500	18.900	37.40	4.356
Salinity	2005	28.003	28.800	4.500	36.70	4.685
Salinity	2006	31.220	32.400	0.017	42.00	5.557
Salinity	2007	36.219	36.900	0.028	43.10	4.542
Salinity	2008	34.110	36.350	0.011	56.20	6.310
Salinity	2009	35.196	36.000	3.700	43.10	3.047
Salinity	2010	30.828	31.600	13.800	39.90	3.497
Salinity	2011	34.176	35.000	16.500	42.30	3.054
Salinity	2012	33.357	34.100	19.700	39.10	3.617
Salinity	2013	29.714	30.400	6.300	37.80	5.052
Salinity	2014	33.367	33.700	19.800	41.80	2.702
Salinity	2015	31.097	31.900	8.500	38.10	3.682
Salinity	2016	29.831	30.200	1.200	38.36	3.982
Salinity	2017	29.579	30.100	5.500	63.70	5.557

ParameterName	Year	mean	median	min	max	sd
Salinity	2018	31.135	31.700	14.660	41.10	4.331
Salinity	2019	32.181	33.560	8.140	38.30	3.359
Salinity	2020	31.951	32.900	21.946	37.20	3.268
Salinity	2021	31.487	31.612	5.900	39.00	3.505
Salinity	2022	31.743	32.400	18.100	37.70	3.122
Salinity	2023	32.006	32.444	22.600	37.23	2.390
Salinity	2024	32.630	33.025	28.160	35.44	2.272

Programs contributing WQ Data:

Table 460: Programs contributing WQ data for Salinity in Pine Island Sound Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	1990	2022	12669
Salinity	95	1954	2018	1570
Salinity	103	2004	2004	4
Salinity	115	2002	2004	14
Salinity	118	2015	2020	20
Salinity	303	2012	2023	1211
Salinity	456	2006	2011	40
Salinity	476	1998	2024	767
Salinity	509	1999	2008	414
Salinity	513	2002	2008	105
Salinity	5002	1995	2024	4068

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 303 - River, Estuary and Coastal Observing Network
- 456 - Oyster Sentinel
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 509 - SERC Water Quality Monitoring Network
- 513 - Coastal Charlotte Harbor Monitoring Network
- 5002 - Florida STORET / WIN

Secchi Depth

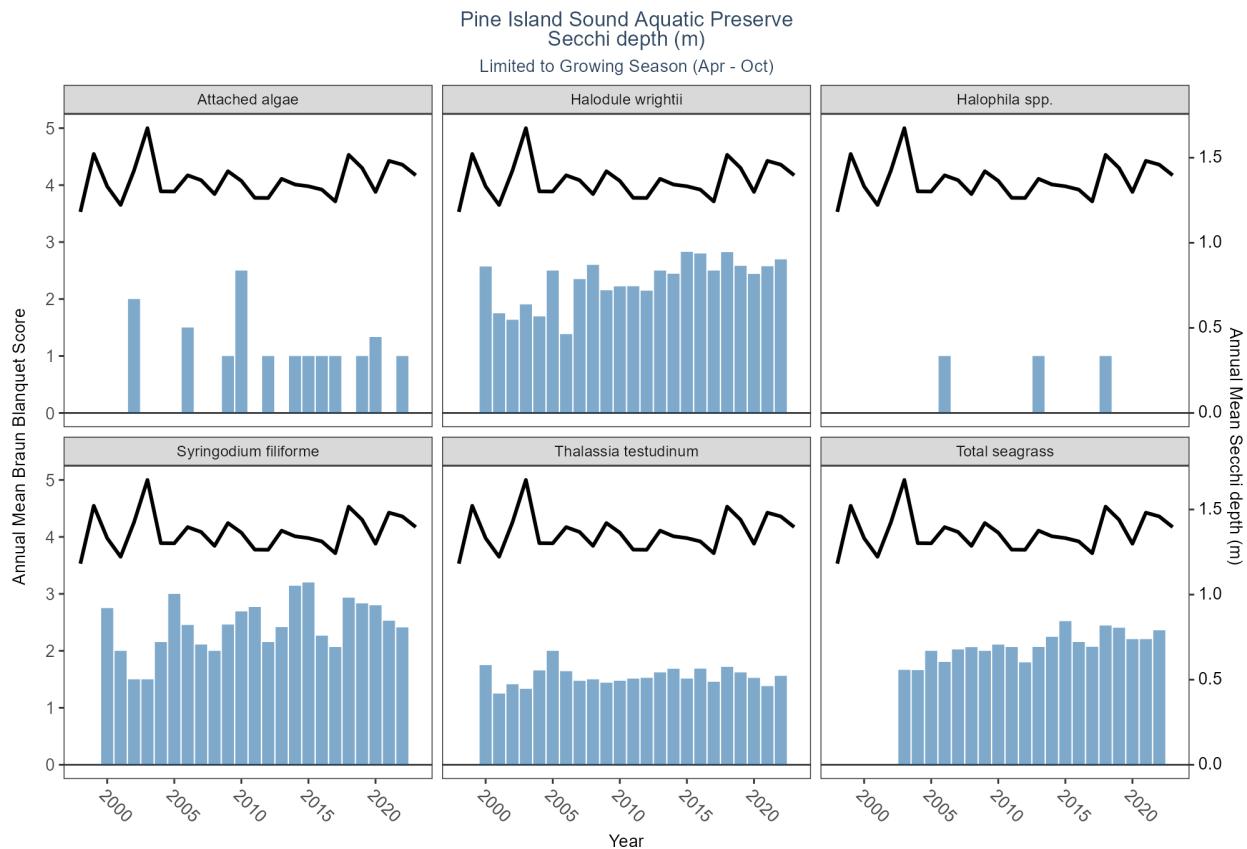


Table 461: WQ Summary for Secchi Depth in Pine Island Sound Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	1998	1.182	1.1	0.3	3.0	0.536
Secchi depth	1999	1.522	1.5	0.3	3.0	0.537
Secchi depth	2000	1.331	1.3	0.3	2.5	0.457
Secchi depth	2001	1.222	1.2	0.3	2.9	0.475
Secchi depth	2002	1.425	1.5	0.3	3.3	0.477
Secchi depth	2003	1.674	1.7	0.5	3.2	0.678
Secchi depth	2004	1.302	1.1	0.3	3.2	0.682
Secchi depth	2005	1.301	1.1	0.1	3.9	0.656
Secchi depth	2006	1.397	1.2	0.3	2.8	0.683
Secchi depth	2007	1.368	1.1	0.3	3.5	0.723
Secchi depth	2008	1.286	1.2	0.1	3.2	0.539
Secchi depth	2009	1.421	1.4	0.3	3.2	0.606
Secchi depth	2010	1.364	1.4	0.3	3.5	0.579
Secchi depth	2011	1.264	1.2	0.4	3.5	0.572
Secchi depth	2012	1.263	1.2	0.3	2.6	0.524
Secchi depth	2013	1.376	1.3	0.3	2.9	0.614
Secchi depth	2014	1.343	1.3	0.4	3.3	0.559
Secchi depth	2015	1.332	1.3	0.3	2.8	0.520
Secchi depth	2016	1.312	1.2	0.3	3.1	0.619

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2017	1.243	1.2	0.3	2.7	0.536
Secchi depth	2018	1.517	1.5	0.3	3.4	0.670
Secchi depth	2019	1.440	1.4	0.3	4.1	0.608
Secchi depth	2020	1.299	1.2	0.3	3.6	0.577
Secchi depth	2021	1.482	1.4	0.3	4.6	0.635
Secchi depth	2022	1.459	1.5	0.4	2.9	0.579
Secchi depth	2023	1.397	1.2	0.5	2.9	0.596
Secchi depth	2024	1.650	1.6	1.3	2.2	0.292

Programs contributing WQ Data:

Table 462: Programs contributing WQ data for Secchi Depth in Pine Island Sound Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	1994	2022	12487
Secchi depth	103	2021	2021	46
Secchi depth	115	2002	2004	3
Secchi depth	118	2015	2020	2
Secchi depth	303	2012	2019	112
Secchi depth	476	1998	2024	517
Secchi depth	513	2003	2008	53
Secchi depth	514	2001	2002	31
Secchi depth	5002	2005	2024	64

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 303 - River, Estuary and Coastal Observing Network
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 513 - Coastal Charlotte Harbor Monitoring Network
- 514 - Florida LAKEWATCH Program
- 5002 - Florida STORET / WIN

Total Nitrogen & Total Phosphorus

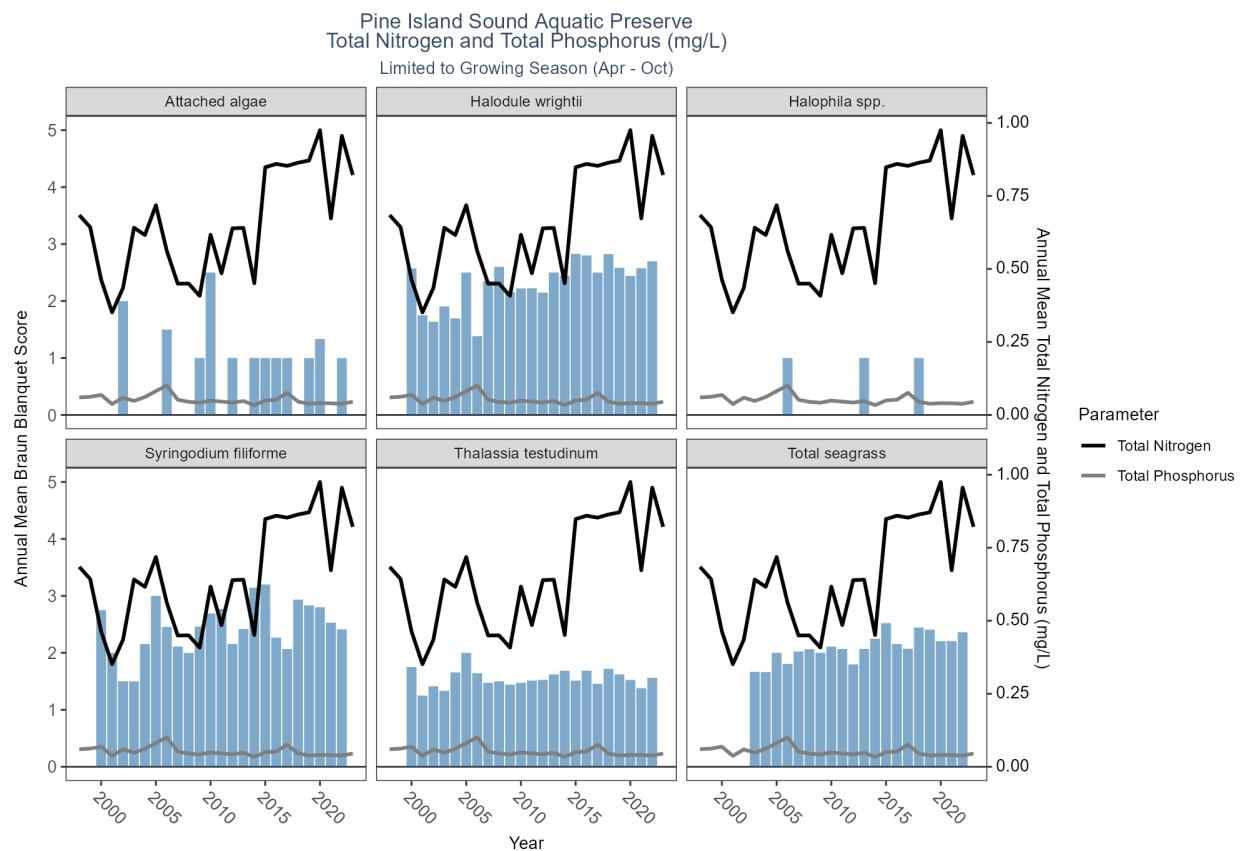


Table 463: WQ Summary for Total Nitrogen & Total Phosphorus in Pine Island Sound Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	1998	0.684	0.940	0.010	1.610	0.622
Total Nitrogen	1999	0.643	0.495	0.010	1.980	0.438
Total Nitrogen	2000	0.463	0.328	0.110	1.170	0.311
Total Nitrogen	2001	0.351	0.341	0.000	1.210	0.274
Total Nitrogen	2002	0.435	0.420	0.000	1.850	0.297
Total Nitrogen	2003	0.641	0.580	0.064	2.560	0.443
Total Nitrogen	2004	0.616	0.562	0.033	1.980	0.342
Total Nitrogen	2005	0.718	0.684	0.074	4.320	0.483
Total Nitrogen	2006	0.562	0.430	0.141	3.507	0.457
Total Nitrogen	2007	0.450	0.470	0.020	1.304	0.243
Total Nitrogen	2008	0.450	0.412	0.089	1.404	0.251
Total Nitrogen	2009	0.408	0.250	0.050	10.000	0.963
Total Nitrogen	2010	0.617	0.575	0.234	1.900	0.228
Total Nitrogen	2011	0.485	0.530	0.050	0.920	0.241
Total Nitrogen	2012	0.639	0.594	0.097	1.400	0.261
Total Nitrogen	2013	0.640	0.621	0.100	1.600	0.293
Total Nitrogen	2014	0.451	0.418	0.050	1.100	0.223
Total Nitrogen	2015	0.848	0.790	0.110	5.200	0.466
Total Nitrogen	2016	0.860	0.865	0.384	1.700	0.256

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2017	0.853	0.778	0.274	5.404	0.494
Total Nitrogen	2018	0.864	0.850	0.304	3.306	0.296
Total Nitrogen	2019	0.871	0.820	0.234	2.750	0.286
Total Nitrogen	2020	0.975	0.870	0.245	3.740	0.513
Total Nitrogen	2021	0.673	0.650	0.160	4.070	0.325
Total Nitrogen	2022	0.956	0.710	0.219	19.900	1.813
Total Nitrogen	2023	0.821	0.830	0.255	3.450	0.324
Total Nitrogen	2024	0.803	0.880	0.237	1.210	0.264
Total Phosphorus	1998	0.060	0.060	0.010	0.110	0.030
Total Phosphorus	1999	0.062	0.060	0.014	0.200	0.030
Total Phosphorus	2000	0.069	0.064	0.028	0.148	0.030
Total Phosphorus	2001	0.037	0.034	0.000	0.130	0.036
Total Phosphorus	2002	0.059	0.050	0.000	0.225	0.048
Total Phosphorus	2003	0.048	0.032	0.000	0.310	0.042
Total Phosphorus	2004	0.062	0.052	0.000	0.340	0.052
Total Phosphorus	2005	0.082	0.058	0.000	0.900	0.104
Total Phosphorus	2006	0.101	0.050	0.019	2.600	0.292
Total Phosphorus	2007	0.052	0.046	0.020	0.150	0.025
Total Phosphorus	2008	0.045	0.039	0.017	0.103	0.022
Total Phosphorus	2009	0.042	0.041	0.021	0.116	0.021
Total Phosphorus	2010	0.049	0.048	0.020	0.094	0.017
Total Phosphorus	2011	0.046	0.044	0.022	0.085	0.016
Total Phosphorus	2012	0.043	0.043	0.006	0.100	0.020
Total Phosphorus	2013	0.048	0.040	0.006	0.180	0.033
Total Phosphorus	2014	0.034	0.026	0.006	0.137	0.024
Total Phosphorus	2015	0.050	0.034	0.006	0.698	0.084
Total Phosphorus	2016	0.052	0.044	0.008	0.194	0.029
Total Phosphorus	2017	0.076	0.060	0.029	0.229	0.044
Total Phosphorus	2018	0.045	0.038	0.006	0.190	0.032
Total Phosphorus	2019	0.038	0.033	0.008	0.170	0.022
Total Phosphorus	2020	0.041	0.034	0.008	0.190	0.026
Total Phosphorus	2021	0.040	0.035	0.006	0.252	0.029
Total Phosphorus	2022	0.038	0.035	0.006	0.220	0.023
Total Phosphorus	2023	0.045	0.038	0.006	0.192	0.029
Total Phosphorus	2024	0.028	0.027	0.006	0.054	0.010

Programs contributing WQ Data:

Table 464: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Pine Island Sound Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	103	2002	2006	45
Total Nitrogen	115	2002	2004	4
Total Nitrogen	118	2010	2010	2
Total Nitrogen	303	2012	2023	691
Total Nitrogen	476	1998	2024	660
Total Nitrogen	509	1999	2008	207
Total Nitrogen	513	2003	2023	90
Total Nitrogen	514	2001	2002	36
Total Nitrogen	5002	1996	2024	1719

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Phosphorus	103	2002	2021	179
Total Phosphorus	115	2002	2004	4
Total Phosphorus	303	2012	2023	620
Total Phosphorus	476	1998	2024	704
Total Phosphorus	509	1999	2008	204
Total Phosphorus	513	2003	2023	98
Total Phosphorus	514	2001	2002	36
Total Phosphorus	5002	2005	2024	668

WQ Program names:

- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 303 - River, Estuary and Coastal Observing Network
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 509 - SERC Water Quality Monitoring Network
- 513 - Coastal Charlotte Harbor Monitoring Network
- 514 - Florida LAKEWATCH Program
- 5002 - Florida STORET / WIN

Total Suspended Solids

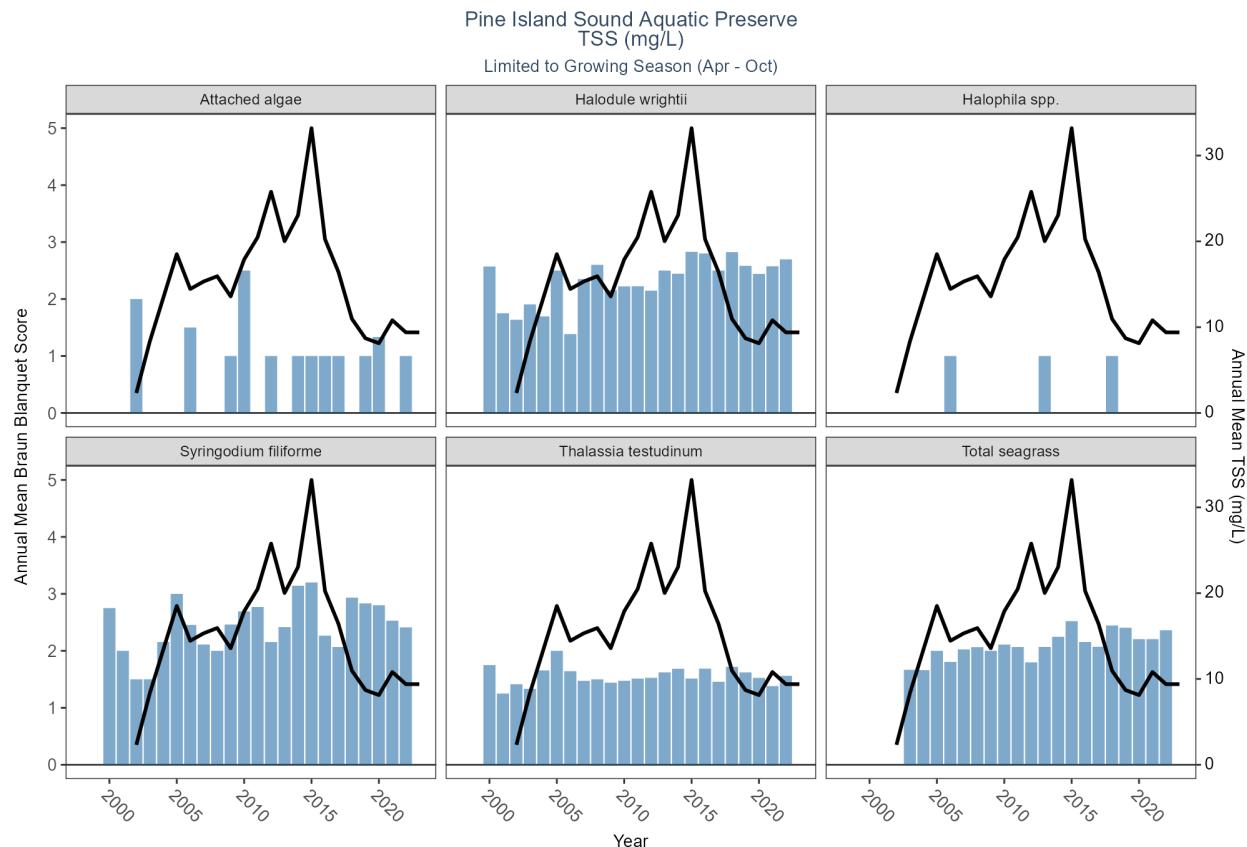


Table 465: WQ Summary for Total Susepended Solids in Pine Island Sound Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	2002	2.325	1.40	0.50	6.0	2.508
TSS	2003	8.340	5.75	2.40	31.5	6.587
TSS	2004	13.423	12.00	2.40	49.0	9.750
TSS	2005	18.512	18.50	2.00	98.5	14.890
TSS	2006	14.447	12.80	7.00	57.6	6.573
TSS	2007	15.326	14.15	4.50	32.5	6.362
TSS	2008	15.935	14.70	3.90	47.0	7.333
TSS	2009	13.584	10.50	3.33	49.7	8.588
TSS	2010	17.888	17.35	7.70	36.8	5.654
TSS	2011	20.482	19.55	2.45	43.8	10.765
TSS	2012	25.781	23.25	10.10	86.4	14.744
TSS	2013	20.018	20.10	3.60	40.4	8.788
TSS	2014	23.051	19.75	1.90	63.7	13.820
TSS	2015	33.197	32.25	7.03	66.5	15.861
TSS	2016	20.256	17.70	2.95	64.7	12.633
TSS	2017	16.422	12.55	4.00	41.3	10.794
TSS	2018	10.963	7.13	0.60	50.3	9.742
TSS	2019	8.706	8.00	1.10	53.7	6.989
TSS	2020	8.126	5.75	0.80	35.2	7.000
TSS	2021	10.807	9.35	2.80	44.2	7.230
TSS	2022	9.396	7.05	0.85	39.9	7.119
TSS	2023	9.393	6.35	1.45	62.8	9.301
TSS	2024	7.031	6.10	1.60	13.6	3.002

Programs contributing WQ Data:

Table 466: Programs contributing WQ data for Total Susepended Solids in Pine Island Sound Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	103	2021	2021	64
TSS	513	2002	2023	110
TSS	5002	1994	2024	1502

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

Turbidity

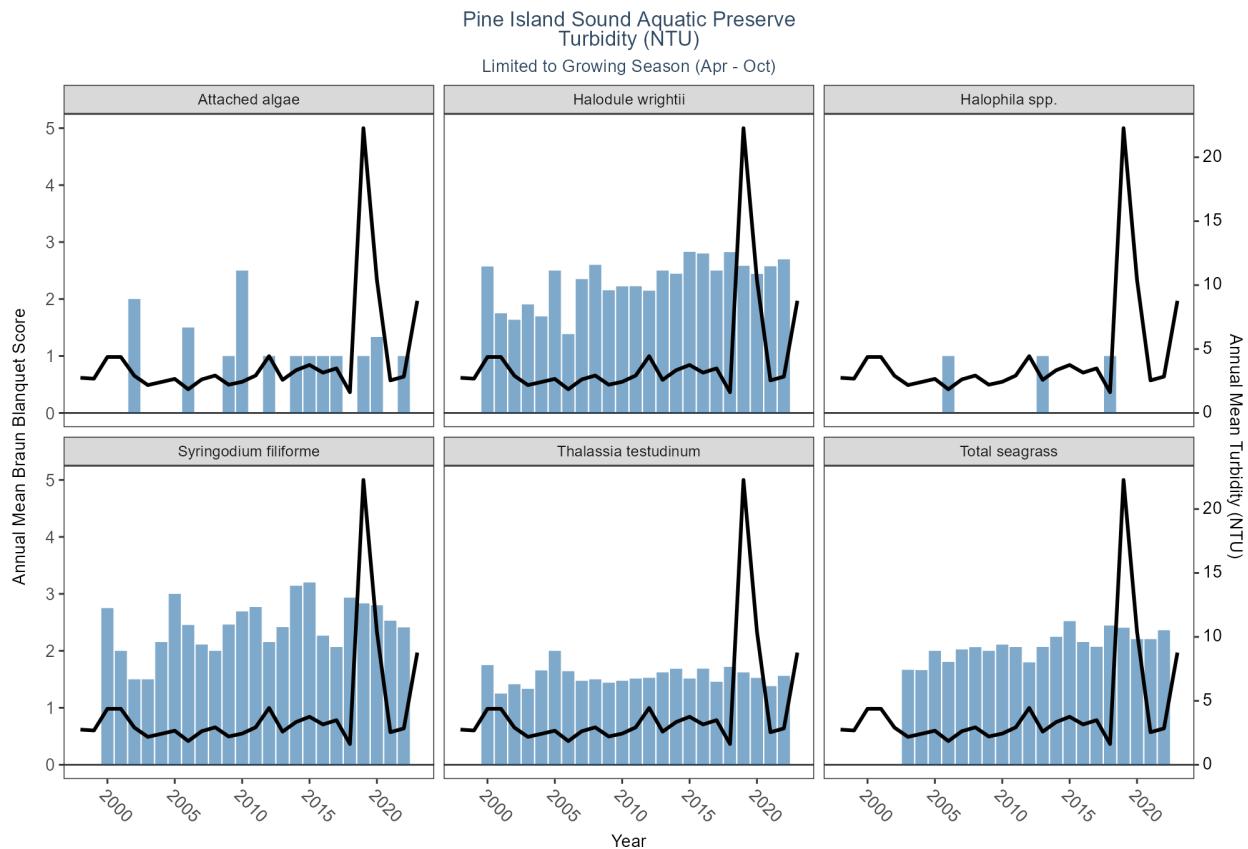


Table 467: WQ Summary for Turbidity in Pine Island Sound Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	1998	2.750	2.500	0.420	11.000	1.520
Turbidity	1999	2.682	2.100	0.260	25.000	2.739
Turbidity	2000	4.378	2.945	0.520	25.000	4.202
Turbidity	2001	4.378	3.300	0.140	26.000	3.782
Turbidity	2002	2.909	2.190	0.220	13.975	2.212
Turbidity	2003	2.181	1.700	0.200	17.100	1.905
Turbidity	2004	2.420	2.000	0.280	17.000	1.871
Turbidity	2005	2.663	2.300	0.140	28.000	2.208
Turbidity	2006	1.852	1.310	0.380	17.695	1.868
Turbidity	2007	2.623	1.960	0.000	20.000	2.500
Turbidity	2008	2.928	2.300	0.000	26.300	2.506
Turbidity	2009	2.210	1.600	0.000	14.000	1.860
Turbidity	2010	2.439	1.900	0.000	24.110	2.653
Turbidity	2011	2.926	2.000	0.000	24.800	3.177
Turbidity	2012	4.444	3.500	0.787	16.200	3.096
Turbidity	2013	2.589	1.900	0.491	12.200	2.106
Turbidity	2014	3.341	2.395	0.423	31.700	4.027
Turbidity	2015	3.753	2.600	0.620	47.500	4.887
Turbidity	2016	3.154	2.500	0.200	11.650	2.328
Turbidity	2017	3.488	2.500	0.400	32.100	3.859

ParameterName	Year	mean	median	min	max	sd
Turbidity	2018	1.622	1.300	0.000	7.700	1.369
Turbidity	2019	22.277	2.616	0.200	558.846	66.569
Turbidity	2020	10.410	2.300	0.200	847.263	68.563
Turbidity	2021	2.547	1.600	-0.873	32.537	3.570
Turbidity	2022	2.843	2.100	0.300	21.858	2.813
Turbidity	2023	8.773	2.100	0.380	404.439	41.926
Turbidity	2024	2.035	1.875	0.200	7.510	1.377

Programs contributing WQ Data:

Table 468: Programs contributing WQ data for Turbidity in Pine Island Sound Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	103	2006	2021	135
Turbidity	303	2012	2023	1081
Turbidity	476	1999	2024	752
Turbidity	509	1999	2008	207
Turbidity	513	2003	2023	100
Turbidity	5002	1995	2024	4167

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

303 - River, Estuary and Coastal Observing Network

476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network

509 - SERC Water Quality Monitoring Network

513 - Coastal Charlotte Harbor Monitoring Network

5002 - Florida STORET / WIN

Water Temperature

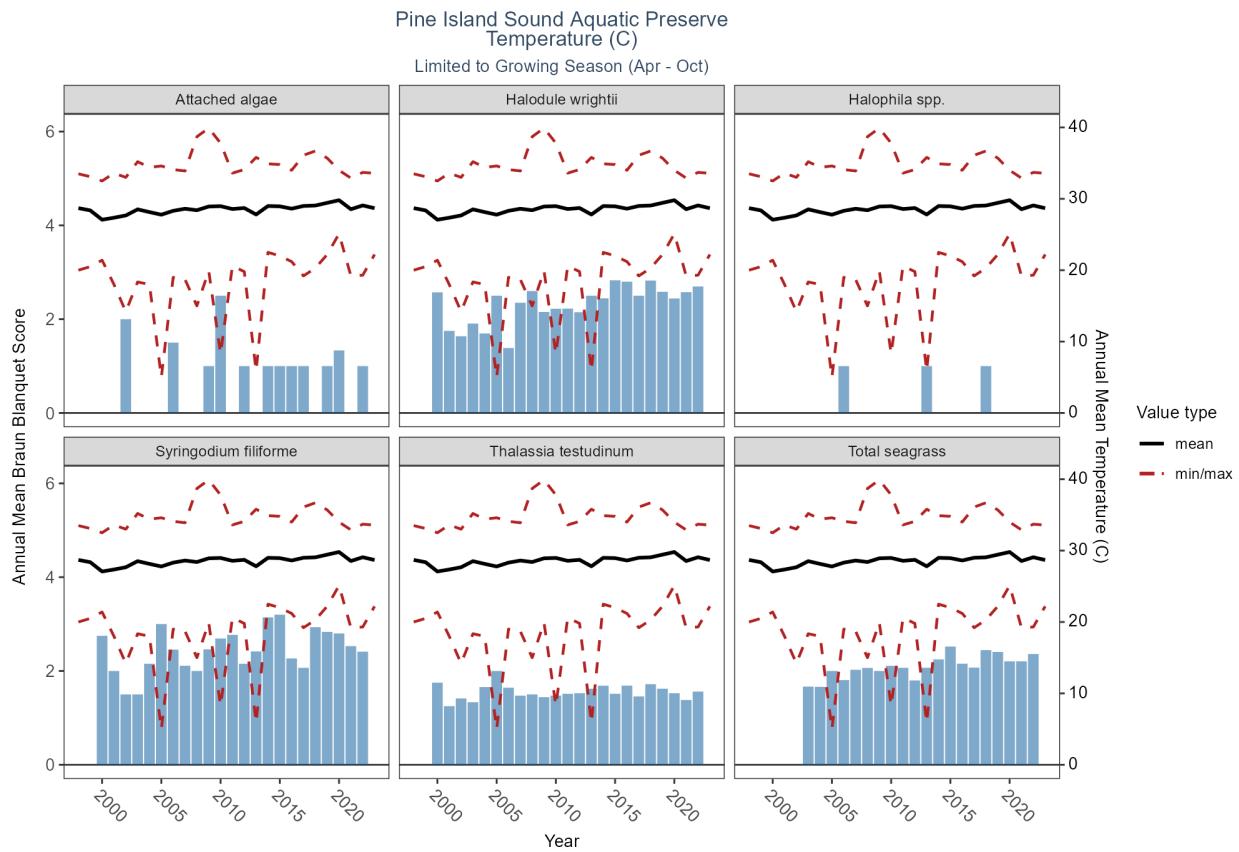


Table 469: WQ Summary for Water Temperature in Pine Island Sound Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	1998	28.693	29.300	20.00	33.500	2.637
Temperature	1999	28.377	28.400	20.50	33.100	2.476
Temperature	2000	27.073	27.000	21.40	32.500	2.892
Temperature	2001	27.351	27.600	18.00	33.600	3.032
Temperature	2002	27.669	28.520	14.20	33.000	3.501
Temperature	2003	28.522	29.350	18.35	35.200	3.130
Temperature	2004	28.138	28.400	18.00	34.400	3.045
Temperature	2005	27.776	28.400	5.00	34.600	3.592
Temperature	2006	28.317	29.100	19.00	34.100	2.804
Temperature	2007	28.607	29.300	18.70	33.900	3.103
Temperature	2008	28.403	29.100	15.00	38.700	2.827
Temperature	2009	28.921	29.900	19.90	39.900	2.674
Temperature	2010	28.971	29.400	8.30	37.800	2.809
Temperature	2011	28.570	28.900	20.60	33.600	2.664
Temperature	2012	28.710	29.300	19.80	34.100	2.509
Temperature	2013	27.801	28.400	5.90	35.800	3.075
Temperature	2014	28.989	29.500	22.50	34.900	2.332
Temperature	2015	28.946	29.400	22.00	34.800	2.364
Temperature	2016	28.616	29.600	21.20	34.000	2.994

ParameterName	Year	mean	median	min	max	sd
Temperature	2017	28.998	29.100	19.20	36.100	2.682
Temperature	2018	29.059	30.000	20.30	36.700	2.526
Temperature	2019	29.434	29.735	22.20	35.700	2.142
Temperature	2020	29.803	29.900	25.10	34.000	1.866
Temperature	2021	28.541	29.200	19.20	32.900	2.573
Temperature	2022	29.071	30.100	19.30	33.700	2.797
Temperature	2023	28.683	28.500	22.20	33.578	3.074
Temperature	2024	26.357	25.550	23.00	31.300	2.537

Programs contributing WQ Data:

Table 470: Programs contributing WQ data for Water Temperature in Pine Island Sound Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	1990	2022	12673
Temperature	95	1954	2018	1406
Temperature	103	2004	2021	151
Temperature	115	2002	2004	14
Temperature	118	2015	2020	14
Temperature	303	2012	2023	1125
Temperature	456	2006	2011	40
Temperature	476	1998	2024	759
Temperature	509	1999	2008	414
Temperature	513	2002	2023	121
Temperature	5002	1994	2024	6034

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 303 - River, Estuary and Coastal Observing Network
- 456 - Oyster Sentinel
- 476 - Charlotte Harbor Estuaries Volunteer Water Quality Monitoring Network
- 509 - SERC Water Quality Monitoring Network
- 513 - Coastal Charlotte Harbor Monitoring Network
- 5002 - Florida STORET / WIN

Pinellas County Aquatic Preserve

Programs contributing SAV Data:

Table 471: Programs contributing SAV data in Pinellas County Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Braun Blanquet Score	565	1998	2023	15374
Modified Braun Blanquet Score	560	2021	2023	106
Percent Cover	560	2022	2023	122
Percent Cover	564	2011	2019	8342

SAV Program names:

- 565 - Tampa Bay Seagrass Monitoring
- 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
- 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
- 564 - Western Pinellas County Seagrass Monitoring

Chlorophyll-a (corrected & uncorrected)

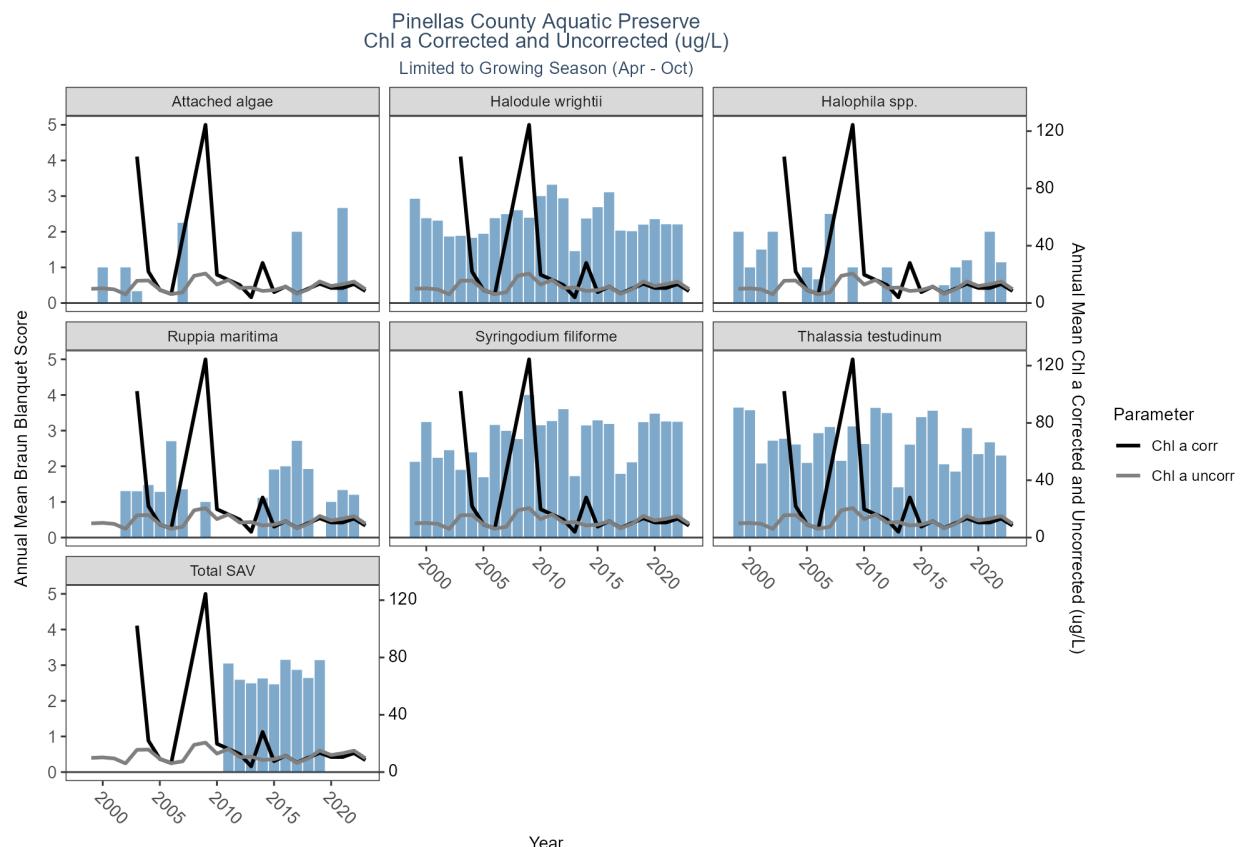


Table 472: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Pinellas County Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2003	102.233	150.000	1.700	155.000	87.100
Chl a corr	2004	21.954	1.300	0.850	155.000	40.039
Chl a corr	2005	9.156	7.050	0.850	28.000	8.708
Chl a corr	2006	6.280	1.180	0.850	39.000	10.365
Chl a corr	2009	124.400	105.000	85.000	190.000	38.071
Chl a corr	2010	19.783	10.500	4.500	110.000	25.564
Chl a corr	2011	16.159	17.000	5.000	30.000	7.065
Chl a corr	2012	12.554	9.950	3.900	32.000	7.012
Chl a corr	2013	4.000	3.900	2.600	6.300	1.488
Chl a corr	2014	28.000	28.000	28.000	28.000	NA
Chl a corr	2015	7.600	4.500	2.200	26.000	7.568
Chl a corr	2016	11.470	10.400	4.100	26.000	5.729
Chl a corr	2017	6.650	6.650	5.600	7.700	1.485
Chl a corr	2019	13.448	9.100	2.000	110.000	17.346
Chl a corr	2020	10.526	6.750	1.000	124.000	13.518
Chl a corr	2021	10.518	5.400	0.700	112.000	14.162
Chl a corr	2022	13.214	5.300	0.500	120.000	19.846
Chl a corr	2023	8.359	3.250	0.500	111.000	15.256
Chl a corr	2024	1.569	1.500	1.000	3.100	0.645
Chl a uncorr	1999	9.914	7.200	1.100	75.900	9.253
Chl a uncorr	2000	10.244	7.200	1.300	60.800	10.288
Chl a uncorr	2001	9.534	7.000	0.600	74.400	9.366
Chl a uncorr	2002	6.062	5.100	1.000	34.700	5.024
Chl a uncorr	2003	15.549	5.785	1.000	159.000	31.719
Chl a uncorr	2004	15.721	6.450	1.000	156.000	29.780
Chl a uncorr	2005	9.266	6.000	1.000	83.300	11.162
Chl a uncorr	2006	6.213	4.000	0.000	43.000	8.119
Chl a uncorr	2007	7.533	4.600	1.000	117.100	11.888
Chl a uncorr	2008	19.006	4.900	0.000	168.000	34.222
Chl a uncorr	2009	20.566	7.000	1.000	190.000	35.816
Chl a uncorr	2010	12.907	9.100	0.090	110.000	15.009
Chl a uncorr	2011	16.107	14.100	3.000	59.000	10.440
Chl a uncorr	2012	10.449	9.050	0.800	40.200	7.160
Chl a uncorr	2013	10.809	6.700	0.700	275.300	22.179
Chl a uncorr	2014	8.431	6.000	0.438	46.900	7.783
Chl a uncorr	2015	9.052	5.760	1.060	60.500	9.710
Chl a uncorr	2016	11.380	5.800	0.139	266.900	24.780
Chl a uncorr	2017	6.492	5.154	0.300	37.325	5.071
Chl a uncorr	2018	9.516	4.388	0.409	232.800	22.458
Chl a uncorr	2019	15.048	12.000	0.324	110.000	13.640
Chl a uncorr	2020	11.917	7.600	1.300	134.000	14.301
Chl a uncorr	2021	13.146	6.000	-1.000	111.000	18.107
Chl a uncorr	2022	14.952	6.600	0.380	131.000	22.532
Chl a uncorr	2023	9.660	4.000	0.700	124.000	16.686
Chl a uncorr	2024	3.310	3.000	1.000	8.200	1.927

Programs contributing WQ Data:

Table 473: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Pinellas County Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	103	2021	2021	400
Chl a corr	514	2019	2023	143
Chl a corr	5002	2003	2024	2191
Chl a corr	5008	2023	2024	63
Chl a uncorr	3	2018	2023	28
Chl a uncorr	60	2014	2014	6
Chl a uncorr	95	2000	2018	1029
Chl a uncorr	103	2000	2021	212
Chl a uncorr	115	2000	2004	9
Chl a uncorr	118	2010	2010	3
Chl a uncorr	514	2001	2023	683
Chl a uncorr	5002	1999	2024	3764
Chl a uncorr	5008	2023	2024	63

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

514 - Florida LAKEWATCH Program

5002 - Florida STORET / WIN

5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

3 - Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Synoptic Shipboard Surveys

60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey

95 - Harmful Algal Bloom Marine Observation Network

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

Colored Dissolved Organic Matter

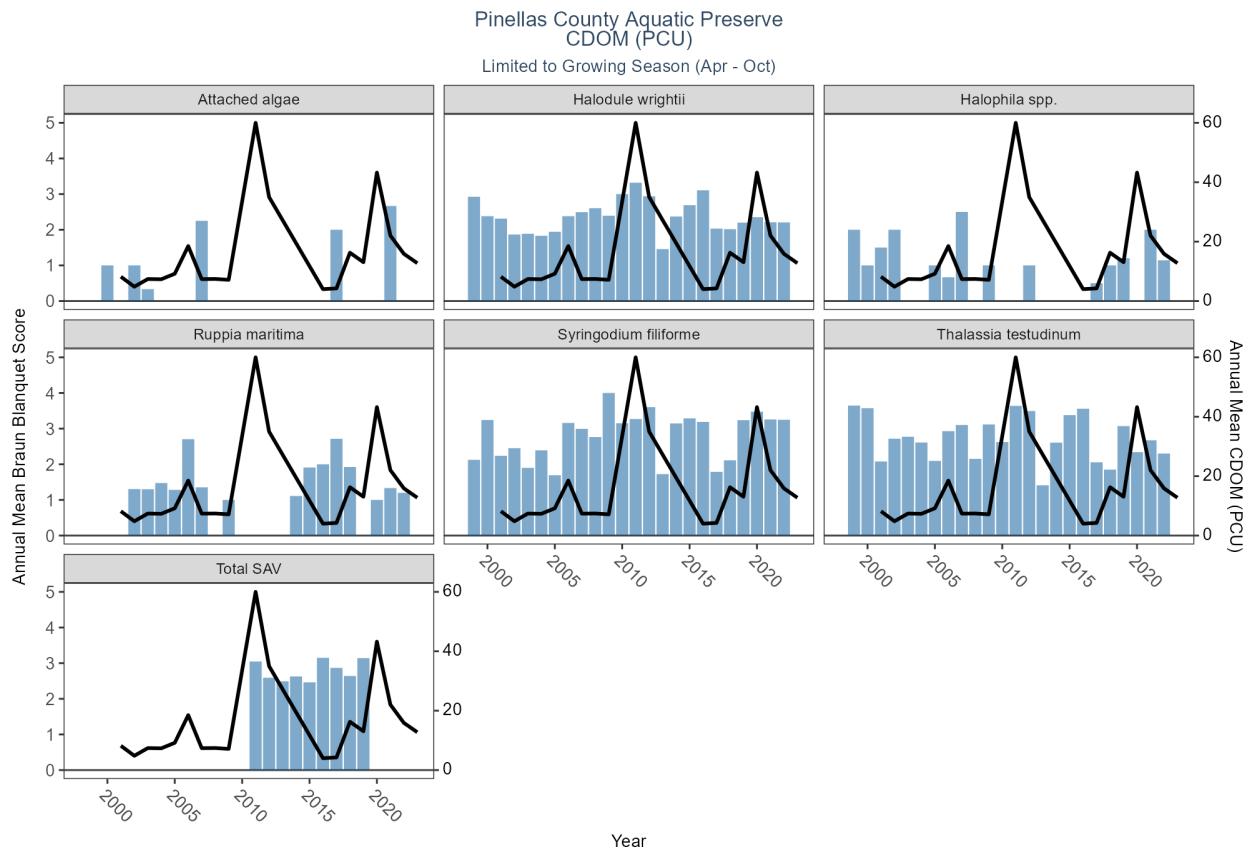


Table 474: WQ Summary for Colored Dissolved Organic Matter in Pinellas County Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
CDOM	2001	8.190	10.000	4.00	10.000	2.522
CDOM	2002	4.821	4.000	2.00	9.000	2.278
CDOM	2003	7.409	7.000	4.00	33.000	5.933
CDOM	2004	7.333	8.000	3.00	11.000	2.288
CDOM	2005	9.188	8.000	4.00	29.000	6.544
CDOM	2006	18.500	12.500	7.00	66.000	19.339
CDOM	2007	7.381	8.000	4.00	11.000	2.783
CDOM	2008	7.429	7.000	4.00	11.000	2.561
CDOM	2009	7.143	7.000	5.00	10.000	1.956
CDOM	2011	60.000	60.000	33.00	87.000	38.184
CDOM	2012	35.000	35.000	35.00	35.000	NA
CDOM	2016	4.000	4.000	4.00	4.000	0.000
CDOM	2017	4.260	4.260	4.26	4.260	0.000
CDOM	2018	16.269	18.000	4.28	24.000	6.742
CDOM	2019	13.074	13.000	3.73	21.000	5.059
CDOM	2020	43.241	37.000	4.00	260.000	50.774
CDOM	2021	22.051	13.111	4.28	170.000	22.083
CDOM	2022	15.900	8.286	3.20	127.000	18.282
CDOM	2023	12.744	7.000	3.40	45.000	11.397

ParameterName	Year	mean	median	min	max	sd
CDOM	2024	5.559	4.936	1.10	9.931	2.432

Programs contributing WQ Data:

Table 475: Programs contributing WQ data for Colored Dissolved Organic Matter in Pinellas County Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
CDOM	103	2021	2021	57
CDOM	479	2016	2023	30
CDOM	514	2001	2023	289
CDOM	5002	2020	2024	392
CDOM	5008	2021	2024	161

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

479 - Southwest Florida Water Management District - Water Quality Monitoring

514 - Florida LAKEWATCH Program

5002 - Florida STORET / WIN

5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Dissolved Oxygen

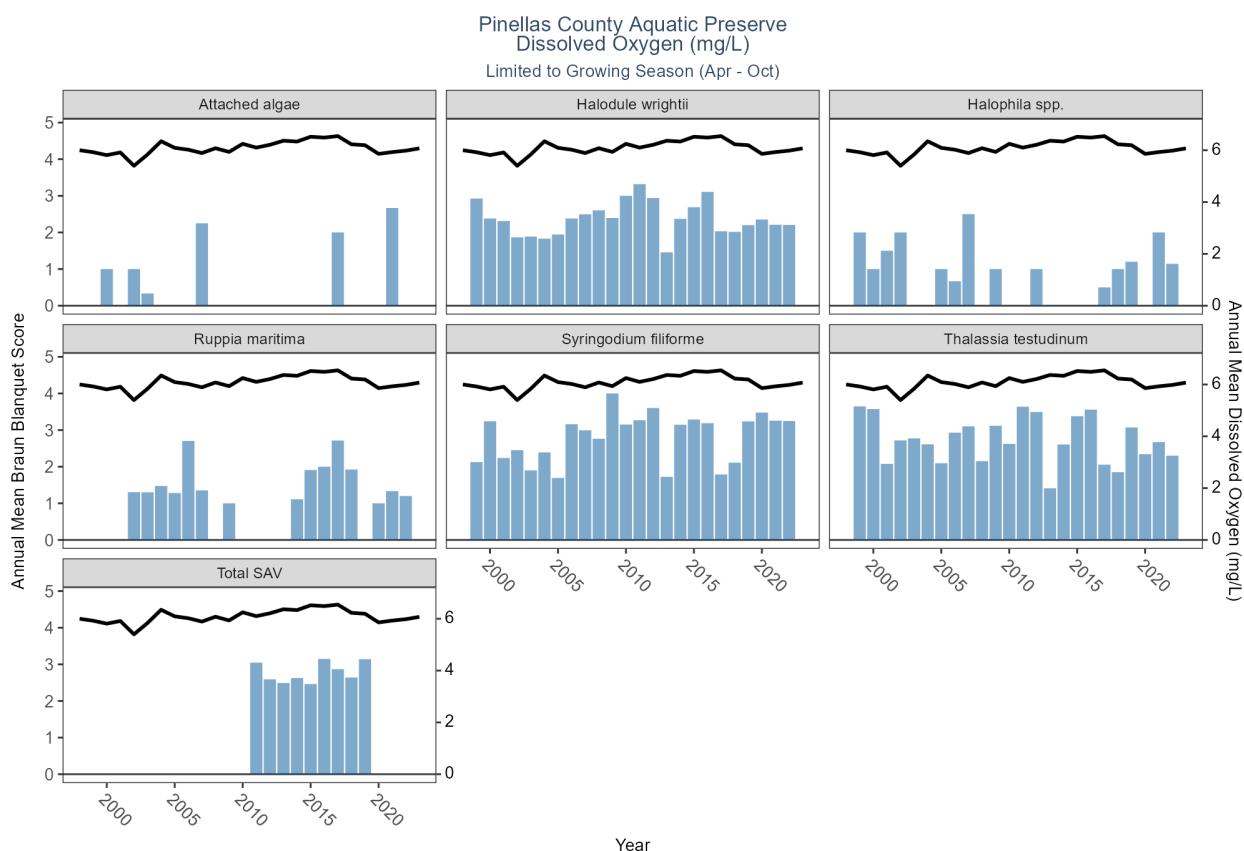


Table 476: WQ Summary for Dissolved Oxygen in Pinellas County Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	1998	6.001	6.000	0.38	15.90	1.511
Dissolved Oxygen	1999	5.924	5.930	0.23	15.14	1.540
Dissolved Oxygen	2000	5.812	5.945	0.06	11.50	1.595
Dissolved Oxygen	2001	5.914	5.940	0.11	20.00	1.791
Dissolved Oxygen	2002	5.399	5.685	0.10	16.25	1.810
Dissolved Oxygen	2003	5.838	5.890	0.18	16.10	1.524
Dissolved Oxygen	2004	6.347	6.280	0.08	13.90	1.623
Dissolved Oxygen	2005	6.093	6.060	0.16	16.70	1.762
Dissolved Oxygen	2006	6.021	6.020	0.23	14.30	1.549
Dissolved Oxygen	2007	5.892	5.805	0.08	13.50	1.556
Dissolved Oxygen	2008	6.079	6.000	0.62	14.52	1.592
Dissolved Oxygen	2009	5.936	5.780	0.15	14.10	1.672
Dissolved Oxygen	2010	6.248	6.140	0.09	16.20	1.550
Dissolved Oxygen	2011	6.101	6.100	0.11	18.20	1.674
Dissolved Oxygen	2012	6.211	6.140	0.14	16.80	1.517
Dissolved Oxygen	2013	6.367	6.250	0.01	14.60	1.566
Dissolved Oxygen	2014	6.336	6.300	0.12	14.08	1.506
Dissolved Oxygen	2015	6.521	6.490	0.05	14.49	1.627
Dissolved Oxygen	2016	6.489	6.410	0.03	17.24	1.697
Dissolved Oxygen	2017	6.546	6.400	0.01	19.52	1.778
Dissolved Oxygen	2018	6.229	6.200	0.19	14.42	1.602
Dissolved Oxygen	2019	6.195	6.200	0.11	13.17	1.834
Dissolved Oxygen	2020	5.860	5.970	0.19	13.80	1.492
Dissolved Oxygen	2021	5.929	5.990	0.26	16.90	1.520
Dissolved Oxygen	2022	5.984	6.000	0.31	17.18	1.599
Dissolved Oxygen	2023	6.073	6.110	0.01	16.29	1.470
Dissolved Oxygen	2024	6.871	6.530	4.50	14.34	1.702

Programs contributing WQ Data:

Table 477: Programs contributing WQ data for Dissolved Oxygen in Pinellas County Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	60	2014	2014	21
Dissolved Oxygen	69	1989	2022	19346
Dissolved Oxygen	95	1974	2018	1653
Dissolved Oxygen	103	2003	2021	1257
Dissolved Oxygen	115	2000	2004	29
Dissolved Oxygen	118	2015	2020	35
Dissolved Oxygen	479	2016	2023	21
Dissolved Oxygen	560	2021	2024	72
Dissolved Oxygen	4067	1993	2022	12057
Dissolved Oxygen	5002	1995	2024	38366
Dissolved Oxygen	5008	2021	2024	161

WQ Program names:

60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer

Shrimp/Groundfish Survey
 69 - Fisheries-Independent Monitoring (FIM) Program
 95 - Harmful Algal Bloom Marine Observation Network
 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
 115 - Environmental Monitoring Assessment Program
 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
 479 - Southwest Florida Water Management District - Water Quality Monitoring
 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
 4067 - Tampa Bay Benthic Monitoring
 5002 - Florida STORET / WIN
 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Dissolved Oxygen Saturation



Table 478: WQ Summary for Dissolved Oxygen Saturation in Pinellas County Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	1998	85.567	86.900	5.6	173.600	22.773
Dissolved Oxygen Saturation	1999	85.018	84.900	46.7	190.500	18.061
Dissolved Oxygen Saturation	2000	82.066	83.700	2.4	176.100	26.426
Dissolved Oxygen Saturation	2001	74.092	72.650	1.7	178.900	23.506
Dissolved Oxygen Saturation	2002	58.606	61.900	1.5	139.600	31.760
Dissolved Oxygen Saturation	2003	73.498	73.700	21.1	137.600	16.808
Dissolved Oxygen Saturation	2004	92.841	92.300	3.1	165.000	25.556

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2005	88.664	91.100	10.0	170.600	18.507
Dissolved Oxygen Saturation	2006	84.957	88.900	10.9	120.100	15.918
Dissolved Oxygen Saturation	2007	89.185	89.200	26.6	181.600	16.245
Dissolved Oxygen Saturation	2008	88.961	89.200	9.6	139.000	20.489
Dissolved Oxygen Saturation	2009	84.687	85.200	2.8	162.600	18.971
Dissolved Oxygen Saturation	2010	90.276	92.450	2.5	139.700	17.148
Dissolved Oxygen Saturation	2011	90.151	94.350	1.6	133.200	17.554
Dissolved Oxygen Saturation	2012	81.894	84.750	5.1	128.900	15.236
Dissolved Oxygen Saturation	2013	92.801	93.350	0.2	199.100	20.069
Dissolved Oxygen Saturation	2014	93.134	94.400	1.6	190.300	18.287
Dissolved Oxygen Saturation	2015	96.346	95.050	0.6	234.600	25.044
Dissolved Oxygen Saturation	2016	93.678	95.570	0.4	252.500	22.678
Dissolved Oxygen Saturation	2017	95.520	95.200	0.1	191.400	23.467
Dissolved Oxygen Saturation	2018	94.036	91.056	21.3	145.513	19.528
Dissolved Oxygen Saturation	2019	95.098	89.500	1.6	200.800	35.777
Dissolved Oxygen Saturation	2020	86.543	90.600	2.7	144.600	20.824
Dissolved Oxygen Saturation	2021	86.797	87.000	3.7	263.400	22.482
Dissolved Oxygen Saturation	2022	91.494	92.200	4.2	290.400	22.048
Dissolved Oxygen Saturation	2023	91.409	91.800	7.4	178.800	18.504
Dissolved Oxygen Saturation	2024	96.450	94.000	64.9	130.700	13.313

Programs contributing WQ Data:

Table 479: Programs contributing WQ data for Dissolved Oxygen Saturation in Pinellas County Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	60	2014	2014	15
Dissolved Oxygen Saturation	95	2002	2018	481
Dissolved Oxygen Saturation	102	1992	1992	66
Dissolved Oxygen Saturation	4067	1993	2022	11482
Dissolved Oxygen Saturation	5002	2004	2024	13981
Dissolved Oxygen Saturation	5008	2021	2024	161

WQ Program names:

- 60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey
- 95 - Harmful Algal Bloom Marine Observation Network
- 102 - National Status and Trends Mussel Watch
- 4067 - Tampa Bay Benthic Monitoring
- 5002 - Florida STORET / WIN
- 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

pH

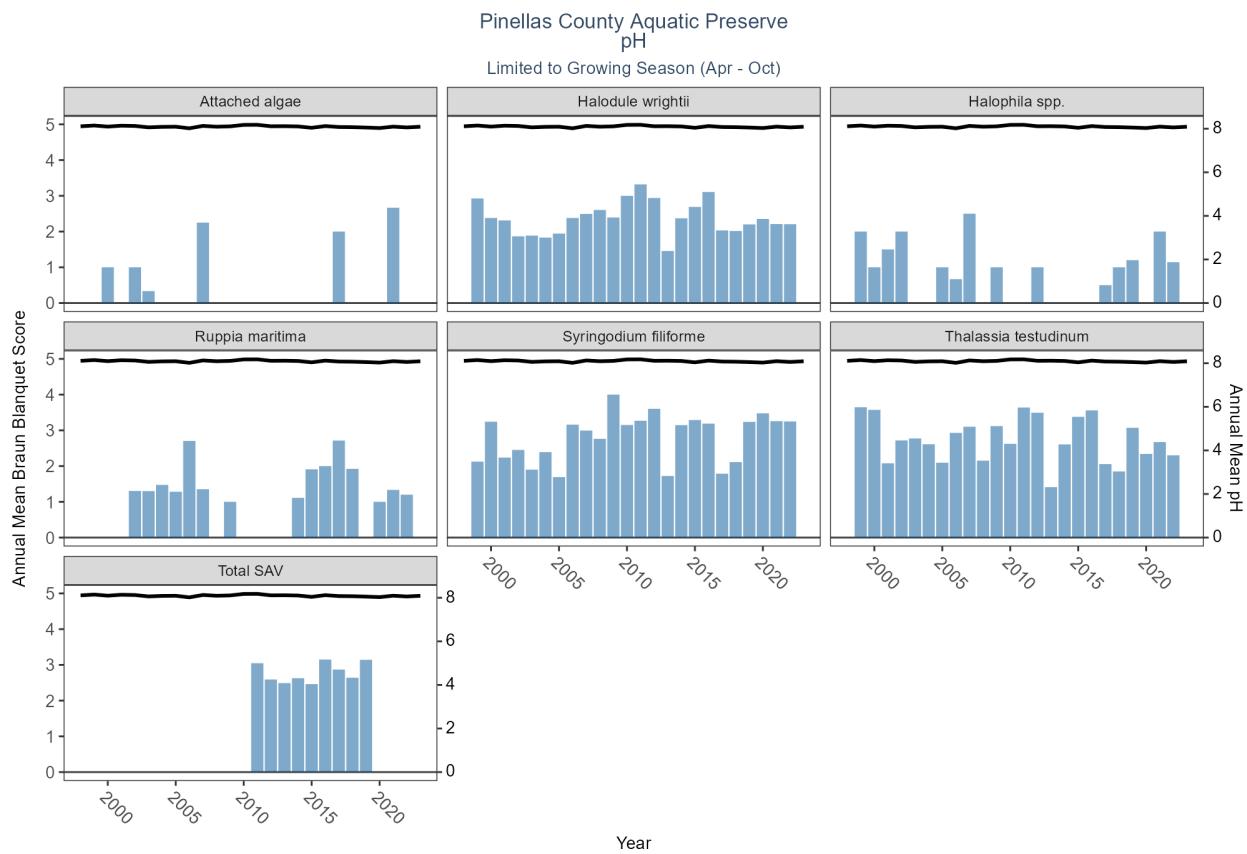


Table 480: WQ Summary for pH in Pinellas County Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	1998	8.110	8.17	6.300	9.80	0.305
pH	1999	8.146	8.14	2.710	9.44	0.370
pH	2000	8.096	8.10	6.430	9.39	0.296
pH	2001	8.138	8.12	6.000	9.45	0.323
pH	2002	8.125	8.10	6.380	9.68	0.348
pH	2003	8.062	8.07	6.440	9.40	0.251
pH	2004	8.085	8.12	6.400	9.50	0.287
pH	2005	8.091	8.10	4.920	11.62	0.349
pH	2006	8.018	8.12	3.040	9.50	0.667
pH	2007	8.128	8.10	6.400	9.60	0.290
pH	2008	8.092	8.10	6.580	9.54	0.245
pH	2009	8.107	8.10	6.650	9.49	0.226
pH	2010	8.175	8.18	6.430	9.70	0.256
pH	2011	8.179	8.20	6.690	9.38	0.249
pH	2012	8.111	8.11	6.580	9.70	0.266
pH	2013	8.115	8.11	6.420	9.25	0.274
pH	2014	8.104	8.11	4.160	10.99	0.304
pH	2015	8.041	8.08	6.000	9.90	0.339
pH	2016	8.120	8.13	6.300	9.11	0.268
pH	2017	8.078	8.10	6.383	9.48	0.290

ParameterName	Year	mean	median	min	max	sd
pH	2018	8.071	8.10	7.070	9.00	0.217
pH	2019	8.053	8.10	7.060	8.62	0.208
pH	2020	8.030	8.09	2.250	12.92	0.367
pH	2021	8.094	8.10	6.740	9.11	0.245
pH	2022	8.059	8.07	6.600	9.05	0.247
pH	2023	8.090	8.08	6.990	8.96	0.229
pH	2024	8.127	8.13	7.730	8.64	0.140

Programs contributing WQ Data:

Table 481: Programs contributing WQ data for pH in Pinellas County Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	1989	2022	19143
pH	95	1955	2018	1578
pH	103	2004	2021	1272
pH	115	2000	2004	29
pH	118	2015	2020	16
pH	479	2016	2023	21
pH	560	2021	2024	72
pH	4067	1993	2022	9438
pH	5002	1995	2024	37493
pH	5008	2021	2024	161

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 479 - Southwest Florida Water Management District - Water Quality Monitoring
- 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
- 4067 - Tampa Bay Benthic Monitoring
- 5002 - Florida STORET / WIN
- 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Salinity

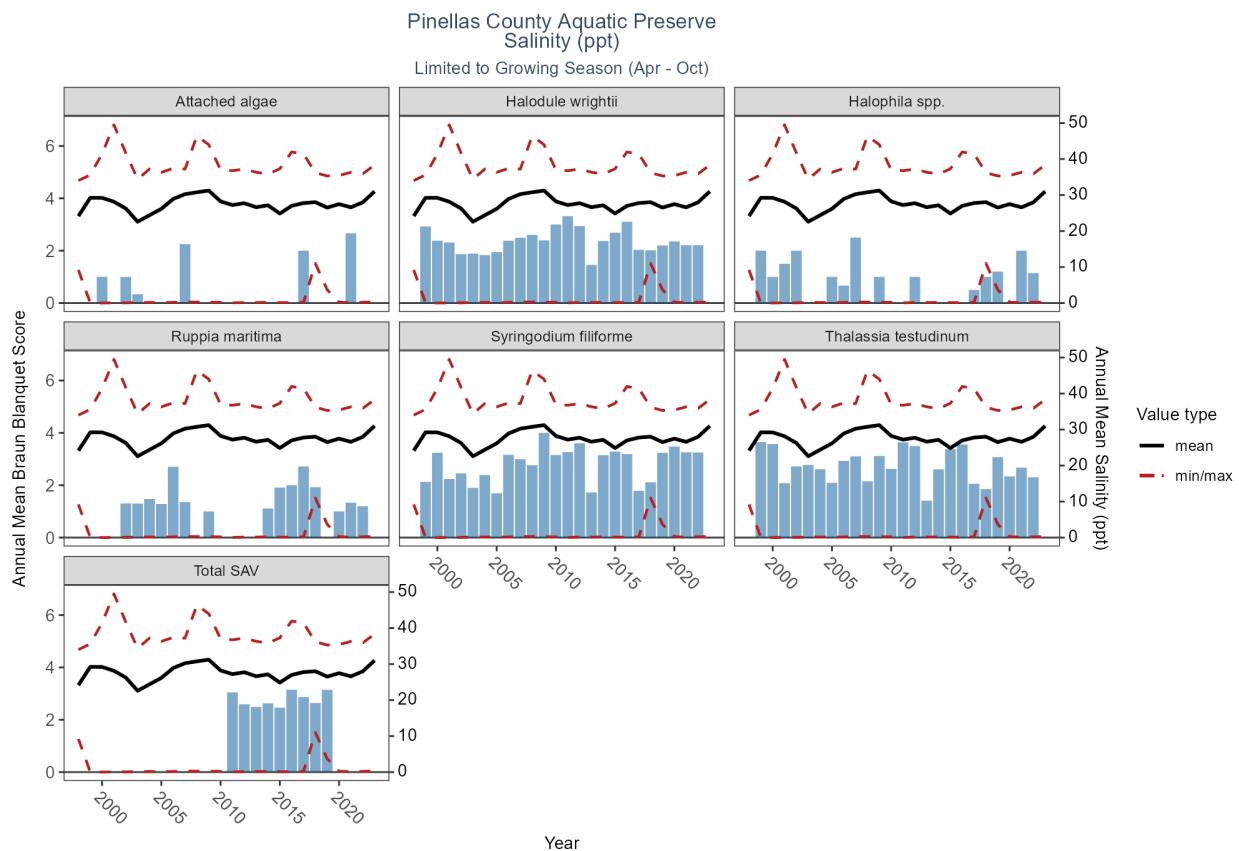


Table 482: WQ Summary for Salinity in Pinellas County Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	1998	24.139	23.900	9.20	34.00	5.496
Salinity	1999	29.226	30.800	0.03	35.60	5.314
Salinity	2000	29.210	29.505	0.01	41.44	7.236
Salinity	2001	28.136	30.050	0.05	49.50	7.589
Salinity	2002	26.262	30.180	0.05	41.66	10.449
Salinity	2003	22.586	21.540	0.13	34.38	7.272
Salinity	2004	24.382	26.760	0.16	37.21	9.368
Salinity	2005	26.161	26.950	0.11	36.30	7.529
Salinity	2006	28.903	31.000	0.18	37.40	7.225
Salinity	2007	30.241	32.010	0.28	37.20	7.504
Salinity	2008	30.763	32.800	0.26	46.40	7.567
Salinity	2009	31.230	33.880	0.23	43.99	7.487
Salinity	2010	28.234	30.900	0.19	37.00	7.546
Salinity	2011	27.214	29.500	0.05	36.75	8.235
Salinity	2012	27.727	30.595	0.13	37.21	8.217
Salinity	2013	26.620	29.065	0.14	36.33	8.299
Salinity	2014	27.146	29.000	0.18	35.81	8.036
Salinity	2015	24.864	27.190	0.12	37.29	9.226
Salinity	2016	26.989	29.300	0.12	41.96	7.756
Salinity	2017	27.772	29.910	0.17	41.42	8.527

ParameterName	Year	mean	median	min	max	sd
Salinity	2018	28.013	28.866	11.00	36.19	5.603
Salinity	2019	26.508	27.550	3.70	35.30	6.354
Salinity	2020	27.475	30.660	0.24	35.42	7.937
Salinity	2021	26.585	29.710	0.10	36.30	8.844
Salinity	2022	27.965	29.200	0.21	35.88	7.296
Salinity	2023	31.008	32.880	0.28	38.34	7.984
Salinity	2024	31.466	31.230	26.23	35.96	3.111

Programs contributing WQ Data:

Table 483: Programs contributing WQ data for Salinity in Pinellas County Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	3	2018	2023	47
Salinity	60	2014	2014	21
Salinity	69	1989	2022	19513
Salinity	95	1954	2018	5395
Salinity	102	1992	1992	66
Salinity	103	2004	2004	2
Salinity	115	2000	2004	29
Salinity	118	2015	2020	32
Salinity	560	2021	2024	72
Salinity	4067	1993	2022	7556
Salinity	5002	1995	2024	37413
Salinity	5008	2021	2024	175

WQ Program names:

- 3 - Atlantic Oceanographic and Meteorological Laboratory (AOML) South Florida Program Synoptic Shipboard Surveys
- 60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey
- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 102 - National Status and Trends Mussel Watch
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
- 4067 - Tampa Bay Benthic Monitoring
- 5002 - Florida STORET / WIN
- 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Secchi Depth

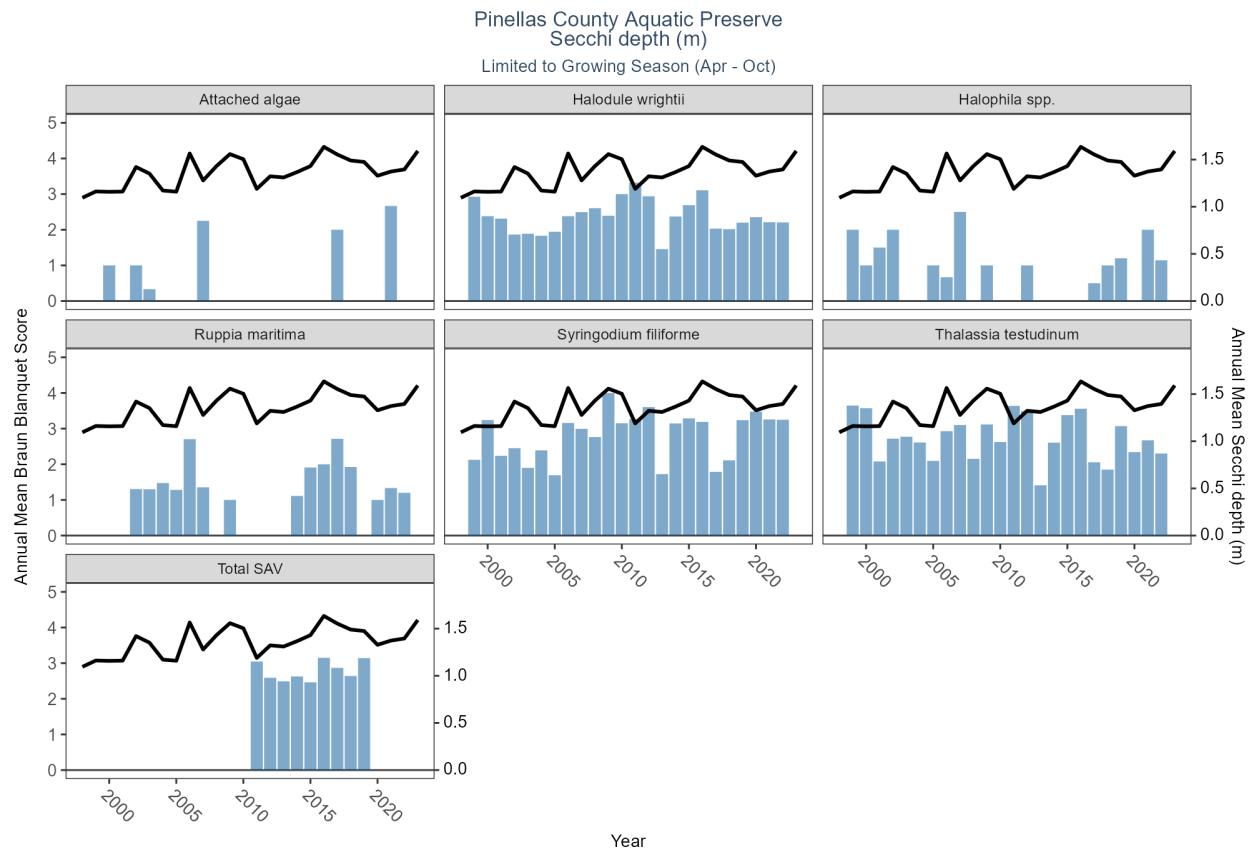


Table 484: WQ Summary for Secchi Depth in Pinellas County Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	1998	1.095	1.000	0.300	2.500	0.439
Secchi depth	1999	1.162	1.100	0.100	2.743	0.451
Secchi depth	2000	1.158	1.000	0.200	2.743	0.516
Secchi depth	2001	1.161	1.000	0.300	4.000	0.593
Secchi depth	2002	1.421	1.300	0.300	3.962	0.618
Secchi depth	2003	1.352	1.400	0.100	3.962	0.551
Secchi depth	2004	1.172	1.000	0.100	3.810	0.599
Secchi depth	2005	1.160	1.000	0.200	3.500	0.640
Secchi depth	2006	1.565	1.200	0.100	5.000	1.072
Secchi depth	2007	1.279	1.100	0.300	3.749	0.664
Secchi depth	2008	1.431	1.200	0.152	5.000	0.914
Secchi depth	2009	1.558	1.500	0.100	4.000	0.668
Secchi depth	2010	1.504	1.500	0.200	3.500	0.633
Secchi depth	2011	1.189	1.000	0.200	3.700	0.627
Secchi depth	2012	1.323	1.200	0.300	4.000	0.628
Secchi depth	2013	1.310	1.100	0.300	3.700	0.682
Secchi depth	2014	1.367	1.200	0.300	10.000	0.793
Secchi depth	2015	1.431	1.300	0.300	3.500	0.706
Secchi depth	2016	1.635	1.400	0.200	4.400	0.950

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2017	1.554	1.400	0.200	4.800	0.817
Secchi depth	2018	1.490	1.300	0.200	4.300	0.822
Secchi depth	2019	1.475	1.311	0.300	4.300	0.694
Secchi depth	2020	1.328	1.200	0.300	5.700	0.692
Secchi depth	2021	1.373	1.200	0.200	4.300	0.755
Secchi depth	2022	1.395	1.200	0.189	4.300	0.701
Secchi depth	2023	1.591	1.400	0.250	5.900	0.876
Secchi depth	2024	1.890	1.700	0.500	4.200	0.693

Programs contributing WQ Data:

Table 485: Programs contributing WQ data for Secchi Depth in Pinellas County Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	60	2014	2014	2
Secchi depth	69	1995	2022	17186
Secchi depth	103	2021	2021	498
Secchi depth	115	2000	2004	8
Secchi depth	118	2015	2020	4
Secchi depth	514	2001	2023	721
Secchi depth	560	2022	2024	54
Secchi depth	5002	1999	2024	1886
Secchi depth	5008	2021	2024	126

WQ Program names:

60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey

69 - Fisheries-Independent Monitoring (FIM) Program

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

514 - Florida LAKEWATCH Program

560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring

5002 - Florida STORET / WIN

5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Total Nitrogen & Total Phosphorus

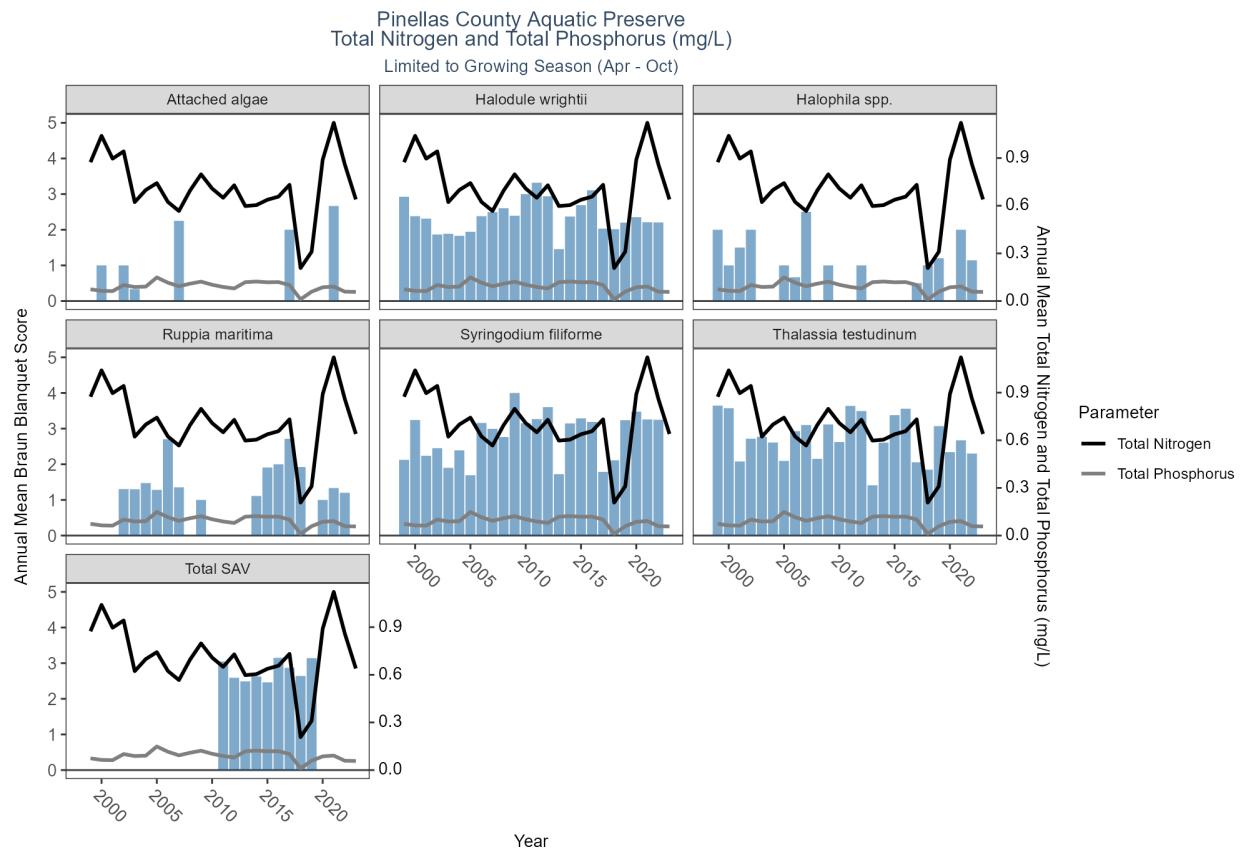


Table 486: WQ Summary for Total Nitrogen & Total Phosphorus in Pinellas County Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	1999	0.874	0.535	0.160	4.970	0.953
Total Nitrogen	2000	1.040	0.710	0.031	7.610	1.053
Total Nitrogen	2001	0.896	0.650	0.000	5.040	0.809
Total Nitrogen	2002	0.942	0.643	0.000	5.650	1.080
Total Nitrogen	2003	0.623	0.530	0.000	3.780	0.500
Total Nitrogen	2004	0.699	0.590	0.000	4.020	0.577
Total Nitrogen	2005	0.743	0.600	0.000	6.030	0.704
Total Nitrogen	2006	0.624	0.520	0.000	6.850	0.580
Total Nitrogen	2007	0.567	0.540	0.000	3.320	0.482
Total Nitrogen	2008	0.695	0.600	0.000	4.190	0.603
Total Nitrogen	2009	0.798	0.640	0.000	6.520	0.749
Total Nitrogen	2010	0.708	0.650	0.001	2.940	0.364
Total Nitrogen	2011	0.650	0.640	0.001	1.910	0.279
Total Nitrogen	2012	0.729	0.670	0.001	4.590	0.442
Total Nitrogen	2013	0.598	0.520	0.032	3.160	0.380
Total Nitrogen	2014	0.604	0.540	0.110	2.460	0.276
Total Nitrogen	2015	0.638	0.577	0.189	2.130	0.288
Total Nitrogen	2016	0.657	0.620	0.077	2.770	0.295
Total Nitrogen	2017	0.732	0.690	0.029	3.020	0.358

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2018	0.208	0.001	0.000	1.450	0.520
Total Nitrogen	2019	0.310	0.330	0.000	2.504	0.413
Total Nitrogen	2020	0.890	0.860	0.194	3.080	0.374
Total Nitrogen	2021	1.122	1.165	0.194	3.050	0.452
Total Nitrogen	2022	0.860	0.730	0.183	3.100	0.466
Total Nitrogen	2023	0.640	0.510	0.180	3.410	0.413
Total Nitrogen	2024	0.375	0.360	0.220	0.695	0.110
Total Phosphorus	1999	0.074	0.050	0.020	0.420	0.059
Total Phosphorus	2000	0.064	0.044	0.016	0.523	0.055
Total Phosphorus	2001	0.062	0.050	0.000	0.510	0.056
Total Phosphorus	2002	0.101	0.110	0.000	0.360	0.071
Total Phosphorus	2003	0.088	0.070	0.000	0.420	0.078
Total Phosphorus	2004	0.091	0.080	0.000	0.460	0.075
Total Phosphorus	2005	0.149	0.140	0.000	1.500	0.121
Total Phosphorus	2006	0.116	0.110	0.000	0.950	0.085
Total Phosphorus	2007	0.093	0.050	0.000	1.100	0.087
Total Phosphorus	2008	0.109	0.100	0.000	0.500	0.083
Total Phosphorus	2009	0.122	0.110	0.000	0.510	0.090
Total Phosphorus	2010	0.103	0.090	0.000	0.480	0.061
Total Phosphorus	2011	0.089	0.065	0.000	0.770	0.069
Total Phosphorus	2012	0.079	0.078	0.000	0.340	0.043
Total Phosphorus	2013	0.119	0.120	0.041	0.340	0.049
Total Phosphorus	2014	0.123	0.119	0.010	0.327	0.056
Total Phosphorus	2015	0.118	0.120	0.017	0.324	0.055
Total Phosphorus	2016	0.119	0.120	0.006	0.340	0.064
Total Phosphorus	2017	0.101	0.093	0.010	0.340	0.048
Total Phosphorus	2018	0.011	0.000	0.000	0.074	0.026
Total Phosphorus	2019	0.059	0.048	0.000	0.238	0.061
Total Phosphorus	2020	0.086	0.070	0.010	0.421	0.062
Total Phosphorus	2021	0.091	0.060	0.008	0.730	0.078
Total Phosphorus	2022	0.059	0.048	0.010	0.230	0.046
Total Phosphorus	2023	0.057	0.030	0.010	0.240	0.053
Total Phosphorus	2024	0.048	0.068	0.008	0.098	0.029

Programs contributing WQ Data:

Table 487: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Pinellas County Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	103	2000	2006	75
Total Nitrogen	115	2000	2004	9
Total Nitrogen	118	2010	2010	3
Total Nitrogen	479	2016	2023	30
Total Nitrogen	514	2001	2023	724
Total Nitrogen	5002	1999	2024	11965
Total Nitrogen	5008	2023	2024	63
Total Phosphorus	103	2000	2021	580
Total Phosphorus	115	2000	2004	9
Total Phosphorus	118	2010	2010	2
Total Phosphorus	479	2016	2023	30

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Phosphorus	514	2001	2023	730
Total Phosphorus	5002	1999	2024	10428
Total Phosphorus	5008	2023	2024	63

WQ Program names:

- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 479 - Southwest Florida Water Management District - Water Quality Monitoring
- 514 - Florida LAKEWATCH Program
- 5002 - Florida STORET / WIN
- 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Total Susepended Solids

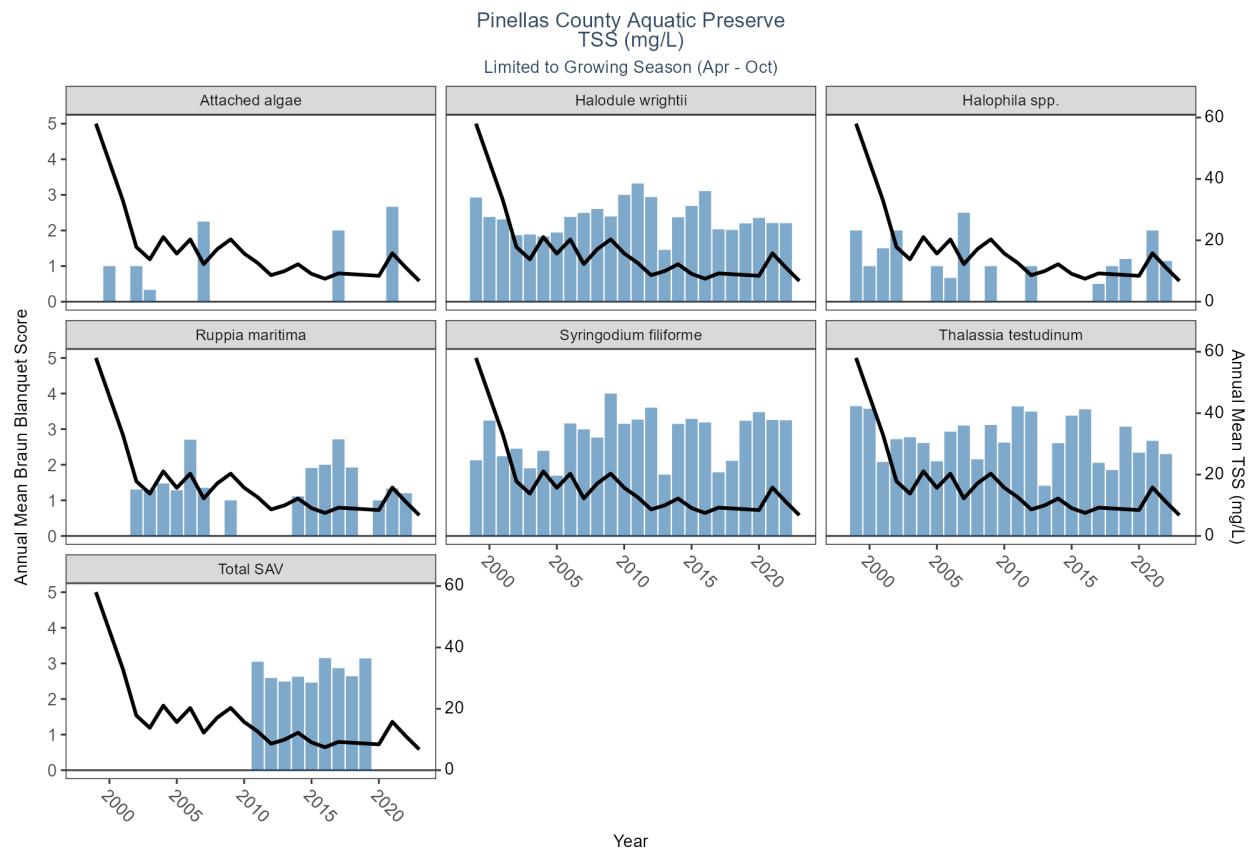


Table 488: WQ Summary for Total Susepended Solids in Pinellas County Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	1999	58.000	58.00	58.0	58	NA
TSS	2001	33.000	33.00	16.0	50	24.042
TSS	2002	17.814	15.00	5.0	80	12.318

ParameterName	Year	mean	median	min	max	sd
TSS	2003	13.798	12.00	2.0	50	7.311
TSS	2004	21.058	18.00	3.0	106	15.468
TSS	2005	15.670	13.00	1.0	104	10.541
TSS	2006	20.282	11.00	1.0	150	18.841
TSS	2007	12.231	10.00	5.0	90	10.005
TSS	2008	17.110	16.00	1.0	64	7.513
TSS	2009	20.307	19.00	5.0	92	10.667
TSS	2010	15.718	13.00	5.0	68	8.918
TSS	2011	12.636	9.70	1.8	68	9.469
TSS	2012	8.639	7.50	1.0	85	6.943
TSS	2013	9.972	9.00	1.0	39	5.106
TSS	2014	12.209	9.00	2.1	44	7.895
TSS	2015	9.070	8.00	1.0	34	5.181
TSS	2016	7.483	6.00	1.0	38	5.492
TSS	2017	9.221	7.15	1.0	80	9.152
TSS	2020	8.431	7.00	2.0	70	5.845
TSS	2021	15.770	12.00	0.5	930	43.662
TSS	2022	11.097	11.00	2.8	42	5.498
TSS	2023	6.765	6.00	2.0	39	4.787
TSS	2024	6.000	6.00	6.0	6	0.000

Programs contributing WQ Data:

Table 489: Programs contributing WQ data for Total Suspended Solids in Pinellas County Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	103	2021	2021	404
TSS	5002	1999	2024	9811

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

5002 - Florida STORET / WIN

Turbidity

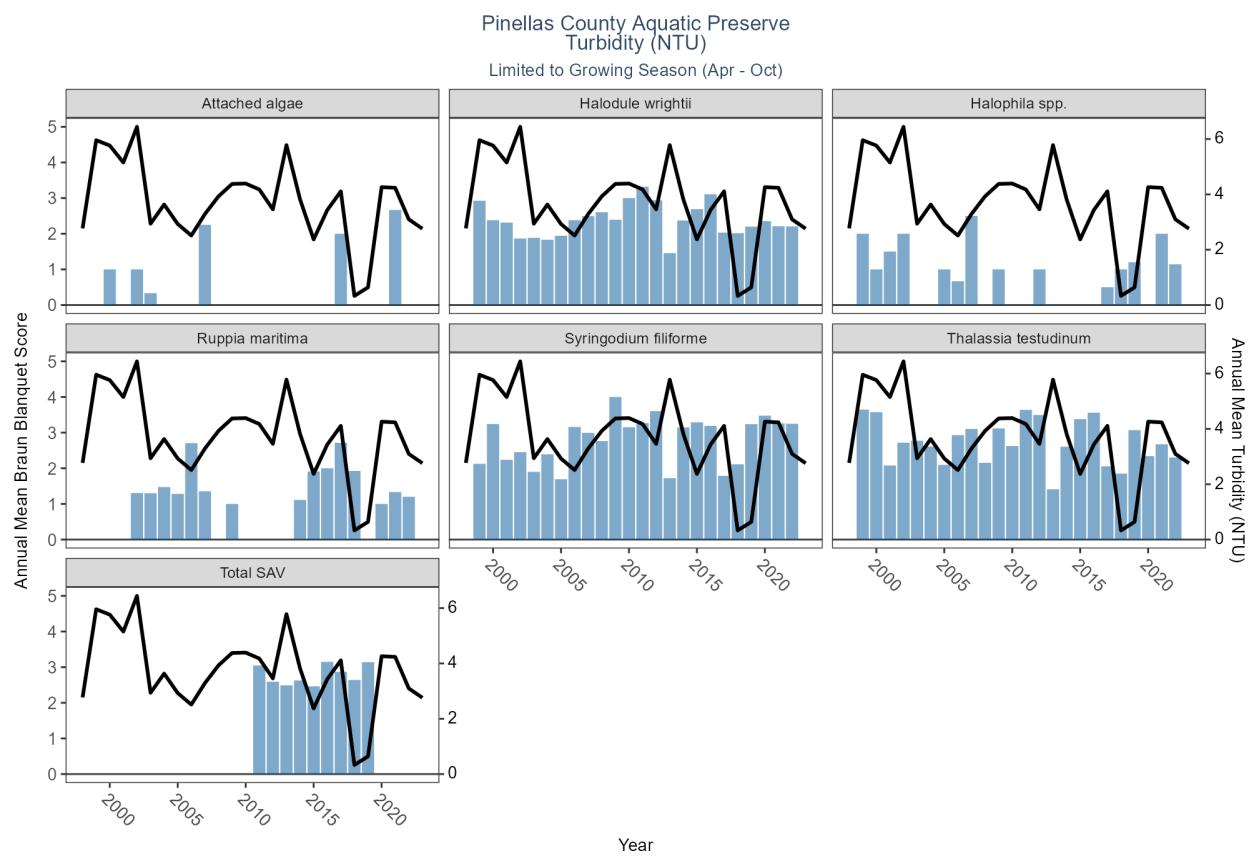


Table 490: WQ Summary for Turbidity in Pinellas County Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	1998	2.771	2.000	0.12	23.00	2.846
Turbidity	1999	5.958	4.100	0.38	45.00	6.812
Turbidity	2000	5.764	3.500	0.20	48.00	7.275
Turbidity	2001	5.152	3.200	0.03	36.00	5.699
Turbidity	2002	6.442	4.300	0.36	40.00	6.970
Turbidity	2003	2.939	2.000	0.23	31.00	3.273
Turbidity	2004	3.633	2.600	0.40	29.00	3.934
Turbidity	2005	2.929	1.900	0.50	30.00	3.725
Turbidity	2006	2.512	1.900	0.10	67.00	3.882
Turbidity	2007	3.289	2.200	0.50	37.00	4.164
Turbidity	2008	3.929	2.800	0.60	29.00	3.882
Turbidity	2009	4.378	2.700	0.40	50.00	5.619
Turbidity	2010	4.391	3.200	0.50	26.30	3.795
Turbidity	2011	4.178	3.000	0.50	70.00	4.707
Turbidity	2012	3.459	2.700	0.05	30.00	3.159
Turbidity	2013	5.781	1.900	0.30	2127.90	82.387
Turbidity	2014	3.819	2.935	0.30	25.00	3.356
Turbidity	2015	2.372	1.900	0.10	15.60	1.696
Turbidity	2016	3.431	2.555	0.40	20.00	2.933
Turbidity	2017	4.110	2.810	0.36	38.00	4.379

ParameterName	Year	mean	median	min	max	sd
Turbidity	2018	0.330	0.330	0.33	0.33	0.000
Turbidity	2019	0.640	0.640	0.64	0.64	0.000
Turbidity	2020	4.261	3.500	0.40	22.00	3.132
Turbidity	2021	4.237	3.030	0.10	38.00	3.948
Turbidity	2022	3.097	2.595	0.35	26.00	2.505
Turbidity	2023	2.759	2.000	0.30	31.20	2.823
Turbidity	2024	3.073	3.150	0.50	5.10	1.256

Programs contributing WQ Data:

Table 491: Programs contributing WQ data for Turbidity in Pinellas County Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	95	2000	2014	242
Turbidity	103	2006	2021	492
Turbidity	479	2016	2023	30
Turbidity	5002	1995	2024	16206

WQ Program names:

95 - Harmful Algal Bloom Marine Observation Network

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

479 - Southwest Florida Water Management District - Water Quality Monitoring

5002 - Florida STORET / WIN

Water Temperature

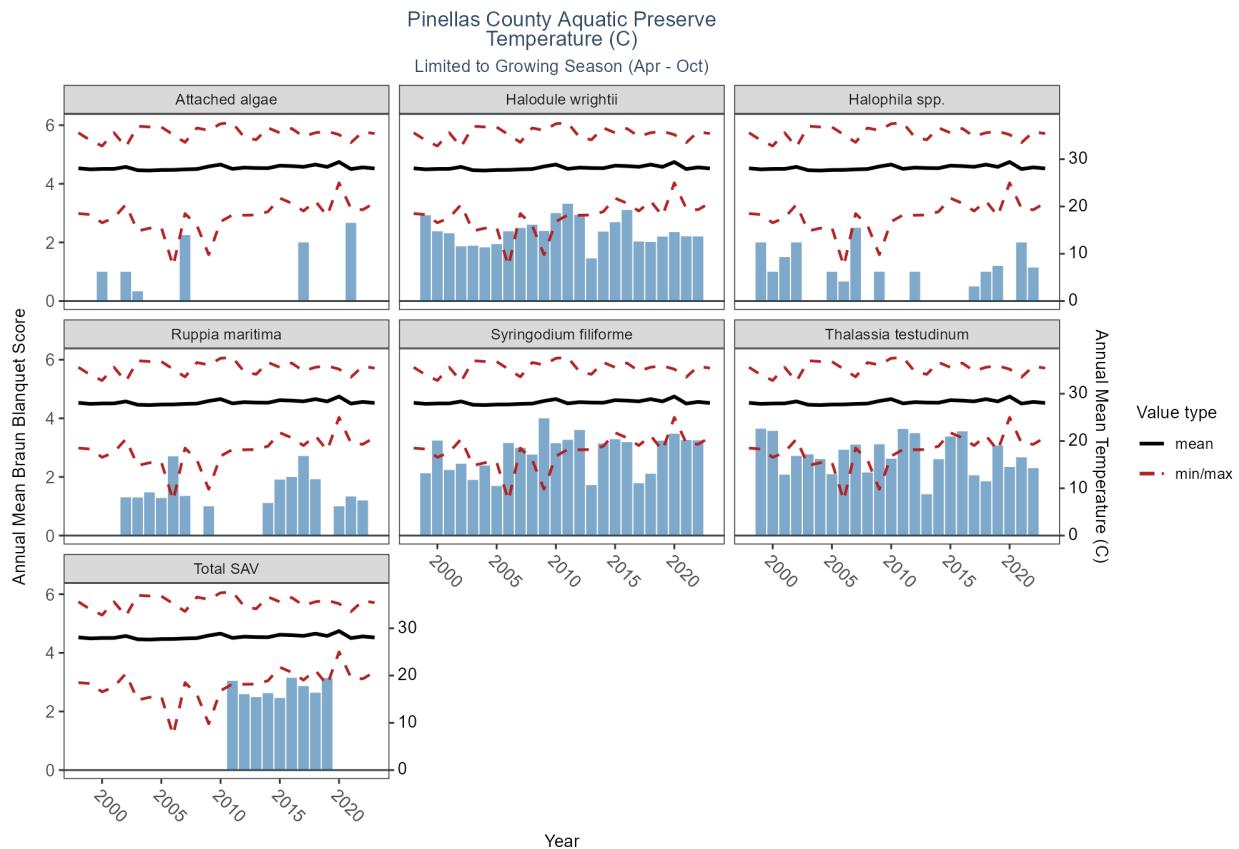


Table 492: WQ Summary for Water Temperature in Pinellas County Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	1998	28.078	28.470	18.50	35.60	2.112
Temperature	1999	27.857	27.900	18.30	34.00	2.367
Temperature	2000	27.942	28.865	16.55	32.80	2.750
Temperature	2001	27.956	28.890	17.61	35.60	3.289
Temperature	2002	28.373	28.700	20.40	32.60	1.852
Temperature	2003	27.672	28.200	14.81	36.98	2.645
Temperature	2004	27.604	28.475	15.40	36.82	3.451
Temperature	2005	27.721	28.690	15.56	36.80	3.637
Temperature	2006	27.736	28.740	7.40	35.20	3.248
Temperature	2007	27.851	28.000	18.50	33.57	3.040
Temperature	2008	27.918	29.000	16.03	36.60	2.703
Temperature	2009	28.466	29.400	9.80	36.10	3.174
Temperature	2010	28.870	29.275	16.80	37.50	2.909
Temperature	2011	27.959	28.800	18.20	37.70	3.089
Temperature	2012	28.224	28.320	18.15	34.65	2.117
Temperature	2013	28.133	28.600	18.20	34.11	2.648
Temperature	2014	28.103	29.000	18.90	36.64	3.103
Temperature	2015	28.639	28.980	21.76	35.58	2.208
Temperature	2016	28.545	29.310	20.68	36.50	2.974

ParameterName	Year	mean	median	min	max	sd
Temperature	2017	28.390	28.710	19.04	34.80	2.947
Temperature	2018	28.862	29.700	21.14	35.60	2.489
Temperature	2019	28.379	28.700	18.00	35.90	2.543
Temperature	2020	29.412	29.300	25.00	35.20	2.006
Temperature	2021	27.920	28.600	19.60	33.50	2.531
Temperature	2022	28.275	28.830	19.30	35.80	2.812
Temperature	2023	28.045	28.200	20.77	35.42	3.209
Temperature	2024	27.461	28.600	22.00	33.80	3.609

Programs contributing WQ Data:

Table 493: Programs contributing WQ data for Water Temperature in Pinellas County Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	60	2014	2014	18
Temperature	69	1989	2022	19564
Temperature	95	1954	2018	5695
Temperature	102	1992	1992	66
Temperature	103	2004	2021	1273
Temperature	115	2000	2004	29
Temperature	118	2015	2020	21
Temperature	479	2016	2023	21
Temperature	560	2021	2024	72
Temperature	4067	1993	2022	10916
Temperature	5002	1995	2024	39105
Temperature	5008	2021	2024	161

WQ Program names:

- 60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey
- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 102 - National Status and Trends Mussel Watch
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 479 - Southwest Florida Water Management District - Water Quality Monitoring
- 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
- 4067 - Tampa Bay Benthic Monitoring
- 5002 - Florida STORET / WIN
- 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Rookery Bay Aquatic Preserve

Programs contributing SAV Data:

Table 494: Programs contributing SAV data in Rookery Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Percent Cover	572	1998	2005	1220

SAV Program names:

572 - Rookery Bay National Estuarine Research Reserve Seagrass Monitoring

Chlorophyll-a (corrected & uncorrected)

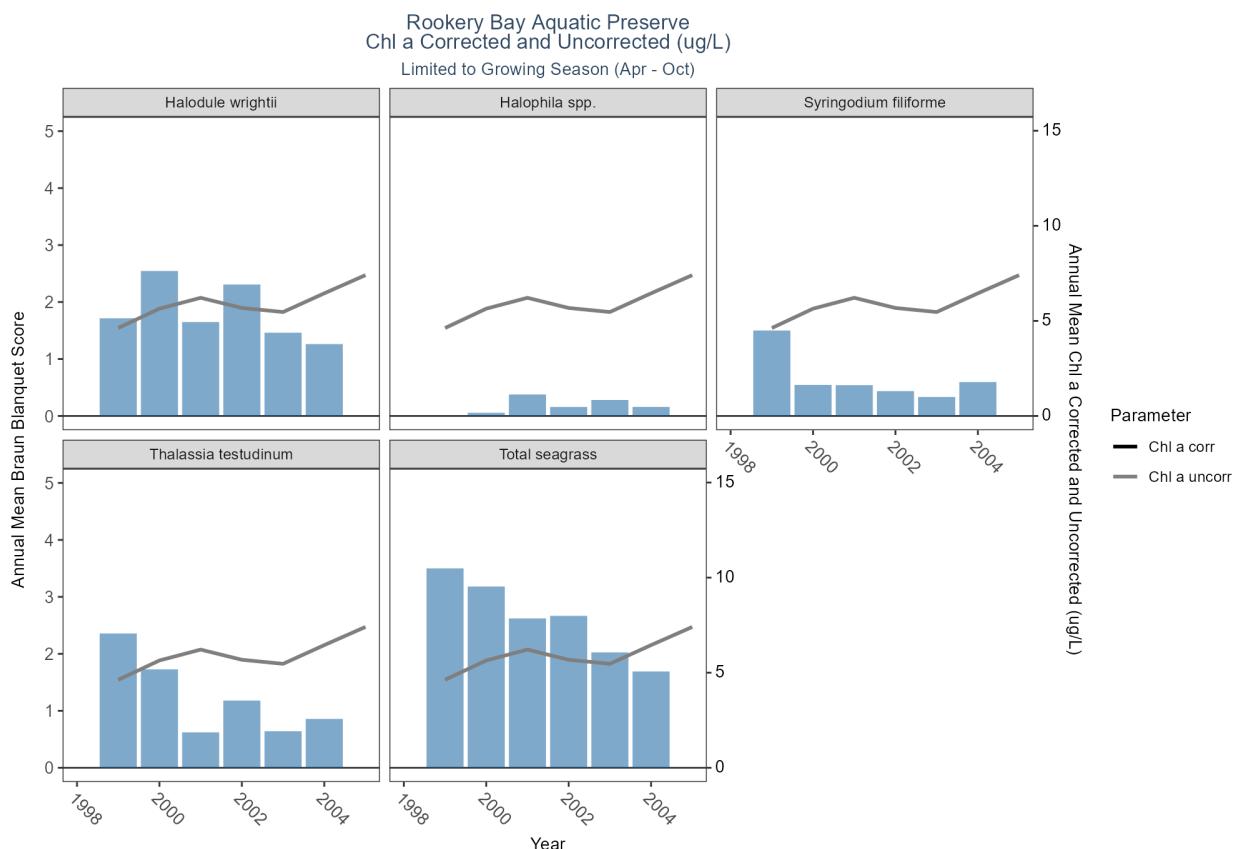


Table 495: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Rookery Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2002	14.000	14.000	14.000	14.000	NA
Chl a corr	2006	2.417	1.700	0.850	4.700	2.023
Chl a corr	2012	9.431	7.400	4.200	23.000	6.060
Chl a corr	2013	9.879	6.700	1.900	34.000	7.334
Chl a corr	2014	8.961	5.000	2.300	160.000	19.500

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2015	5.643	4.400	1.500	22.000	3.615
Chl a corr	2016	7.015	6.700	1.400	22.000	4.028
Chl a corr	2017	12.987	11.000	1.500	58.000	12.866
Chl a corr	2018	5.387	4.350	1.400	19.000	3.483
Chl a corr	2019	7.416	6.900	1.400	20.000	3.925
Chl a corr	2020	7.644	6.100	2.100	22.000	4.258
Chl a corr	2021	6.667	5.550	1.400	23.000	4.369
Chl a corr	2022	6.258	5.300	1.400	24.000	4.070
Chl a corr	2023	6.654	5.400	1.700	22.000	4.196
Chl a uncorr	1999	4.625	4.237	1.087	13.105	2.240
Chl a uncorr	2000	5.642	4.817	0.505	20.852	4.263
Chl a uncorr	2001	6.214	5.636	1.028	18.000	3.431
Chl a uncorr	2002	5.679	4.270	0.520	30.940	5.102
Chl a uncorr	2003	5.467	5.000	0.630	18.000	3.091
Chl a uncorr	2004	6.450	5.846	1.000	19.000	3.455
Chl a uncorr	2005	7.406	7.000	0.530	22.265	4.490
Chl a uncorr	2006	7.451	6.350	1.810	20.797	4.442
Chl a uncorr	2007	4.607	4.217	0.238	15.857	2.904
Chl a uncorr	2008	7.042	5.700	0.190	55.124	5.652
Chl a uncorr	2009	6.208	5.600	3.000	12.300	2.793
Chl a uncorr	2010	6.619	5.000	2.000	21.000	4.137
Chl a uncorr	2011	5.315	5.100	0.400	17.200	3.008
Chl a uncorr	2012	7.334	6.350	1.000	26.000	4.484
Chl a uncorr	2013	10.766	7.450	1.900	36.000	7.642
Chl a uncorr	2014	8.111	5.700	2.300	170.000	14.947
Chl a uncorr	2015	6.657	5.500	1.500	25.000	4.150
Chl a uncorr	2016	7.837	7.200	1.400	26.000	4.358
Chl a uncorr	2017	14.979	12.000	1.500	63.000	13.608
Chl a uncorr	2018	6.024	4.900	1.400	22.000	3.806
Chl a uncorr	2019	8.580	8.050	1.400	22.000	4.242
Chl a uncorr	2020	8.535	7.300	2.100	25.000	4.745
Chl a uncorr	2021	7.268	6.100	1.800	25.000	4.601
Chl a uncorr	2022	6.884	5.550	1.400	28.000	4.434
Chl a uncorr	2023	8.340	7.200	1.700	26.000	5.103

Programs contributing WQ Data:

Table 496: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Rookery Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	303	2022	2022	1
Chl a corr	354	2012	2023	921
Chl a corr	5002	2002	2023	57
Chl a uncorr	103	2021	2021	11
Chl a uncorr	354	2002	2023	2492
Chl a uncorr	509	1999	2008	724
Chl a uncorr	514	2001	2011	301
Chl a uncorr	5002	2001	2023	54

WQ Program names:

- 303 - River, Estuary and Coastal Observing Network
 354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
 5002 - Florida STORET / WIN
 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
 509 - SERC Water Quality Monitoring Network
 514 - Florida LAKEWATCH Program

Colored Dissolved Organic Matter

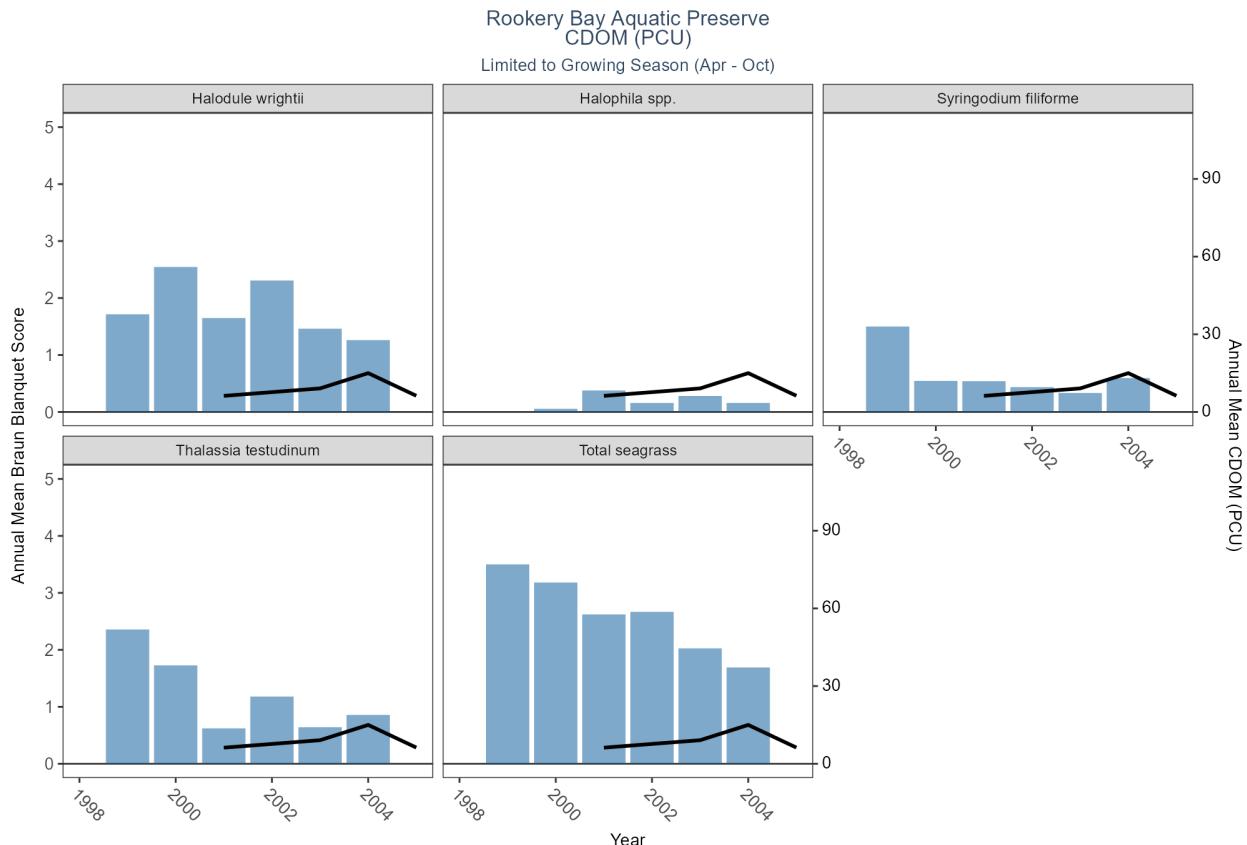


Table 497: WQ Summary for Colored Dissolved Organic Matter in Rookery Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
CDOM	2001	6.214	6.0	2	13	3.725
CDOM	2003	9.100	9.0	4	12	2.767
CDOM	2004	15.000	16.0	5	24	9.539
CDOM	2005	6.250	6.5	4	9	1.581
CDOM	2006	13.231	13.0	10	15	1.536
CDOM	2007	7.370	6.0	1	16	5.408
CDOM	2008	14.088	8.0	3	30	9.765
CDOM	2010	11.786	12.0	6	18	3.512
CDOM	2011	10.643	11.0	4	21	5.917
CDOM	2021	110.000	110.0	110	110	NA

Programs contributing WQ Data:

Table 498: Programs contributing WQ data for Colored Dissolved Organic Matter in Rookery Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
CDOM	514	2001	2011	137
CDOM	5002	2021	2021	1

WQ Program names:

514 - Florida LAKEWATCH Program
 5002 - Florida STORET / WIN

Dissolved Oxygen

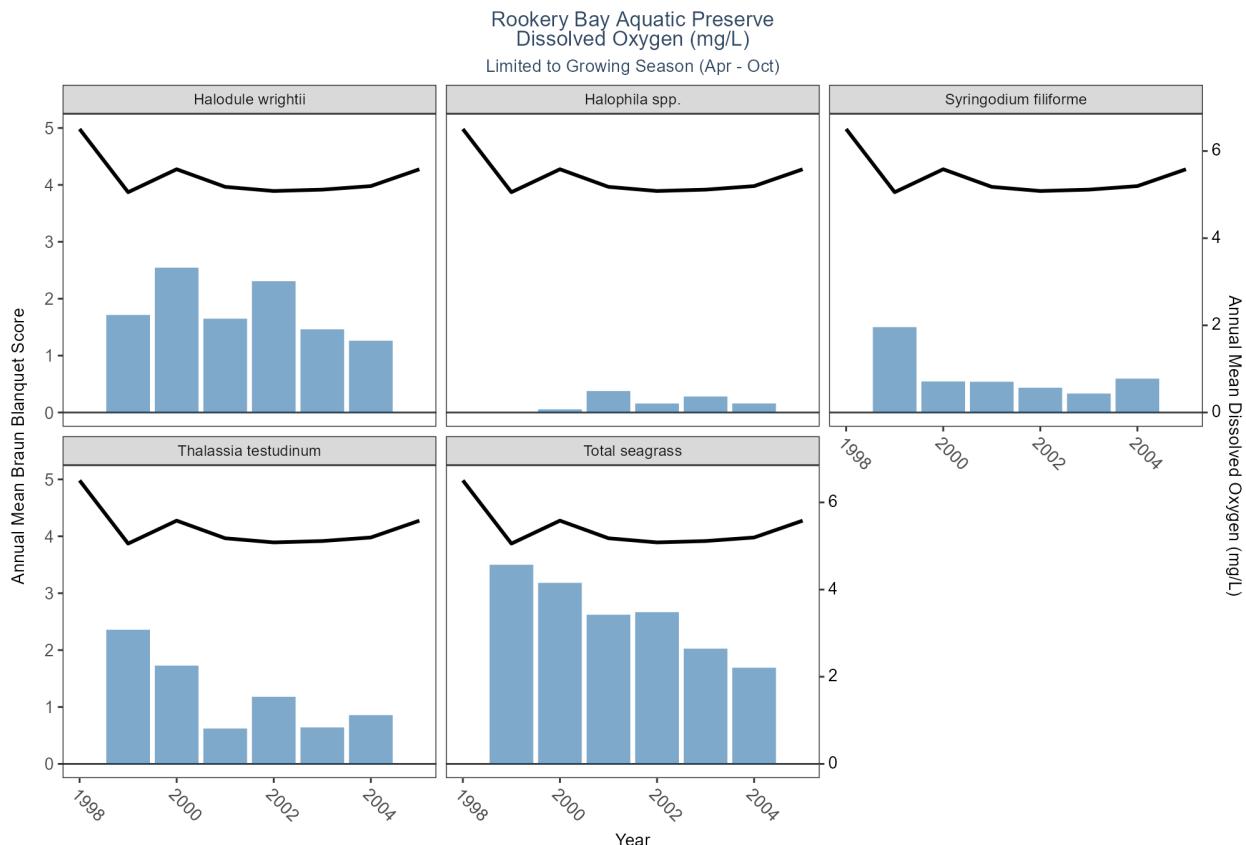


Table 499: WQ Summary for Dissolved Oxygen in Rookery Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	1998	6.505	6.450	5.63	7.90	0.571
Dissolved Oxygen	1999	5.055	5.000	2.30	12.17	1.239
Dissolved Oxygen	2000	5.582	5.800	1.30	8.50	1.296
Dissolved Oxygen	2001	5.177	5.100	1.50	9.50	1.450
Dissolved Oxygen	2002	5.083	5.075	2.95	8.00	0.983
Dissolved Oxygen	2003	5.114	5.160	2.95	7.91	0.908
Dissolved Oxygen	2004	5.195	5.060	2.80	7.94	1.028

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2005	5.581	5.520	1.81	8.51	0.986
Dissolved Oxygen	2006	5.659	5.730	2.63	8.57	1.168
Dissolved Oxygen	2007	5.737	5.780	3.00	7.51	0.900
Dissolved Oxygen	2008	5.922	5.890	3.50	9.90	0.991
Dissolved Oxygen	2009	4.638	4.900	2.20	6.90	1.080
Dissolved Oxygen	2010	5.258	4.800	0.34	13.40	2.353
Dissolved Oxygen	2011	4.341	4.200	0.20	7.70	1.369
Dissolved Oxygen	2012	5.943	6.000	3.47	7.80	0.937
Dissolved Oxygen	2013	5.050	4.420	3.41	7.90	1.715
Dissolved Oxygen	2014	5.022	5.085	2.85	7.10	1.016
Dissolved Oxygen	2015	5.447	5.450	2.81	8.00	1.216
Dissolved Oxygen	2016	6.528	6.345	4.30	13.10	1.368
Dissolved Oxygen	2017	6.215	6.300	4.80	7.60	0.654
Dissolved Oxygen	2018	6.250	6.065	5.40	7.56	0.739
Dissolved Oxygen	2020	4.260	4.305	3.52	4.91	0.744
Dissolved Oxygen	2021	5.096	5.260	1.07	6.34	0.970
Dissolved Oxygen	2022	5.409	5.210	3.71	6.57	0.928
Dissolved Oxygen	2023	4.600	4.975	2.23	5.93	1.063
Dissolved Oxygen	2024	6.287	6.325	5.41	7.09	0.691

Programs contributing WQ Data:

Table 500: Programs contributing WQ data for Dissolved Oxygen in Rookery Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	2001	2001	22
Dissolved Oxygen	95	2010	2018	25
Dissolved Oxygen	103	2021	2021	16
Dissolved Oxygen	354	2002	2014	361
Dissolved Oxygen	509	1999	2008	1430
Dissolved Oxygen	572	1998	2005	45
Dissolved Oxygen	4043	2000	2009	299
Dissolved Oxygen	5002	1989	2024	553

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
- 509 - SERC Water Quality Monitoring Network
- 572 - Rookery Bay National Estuarine Research Reserve Seagrass Monitoring
- 4043 - RBNERR Fish Assessment
- 5002 - Florida STORET / WIN

Dissolved Oxygen Saturation

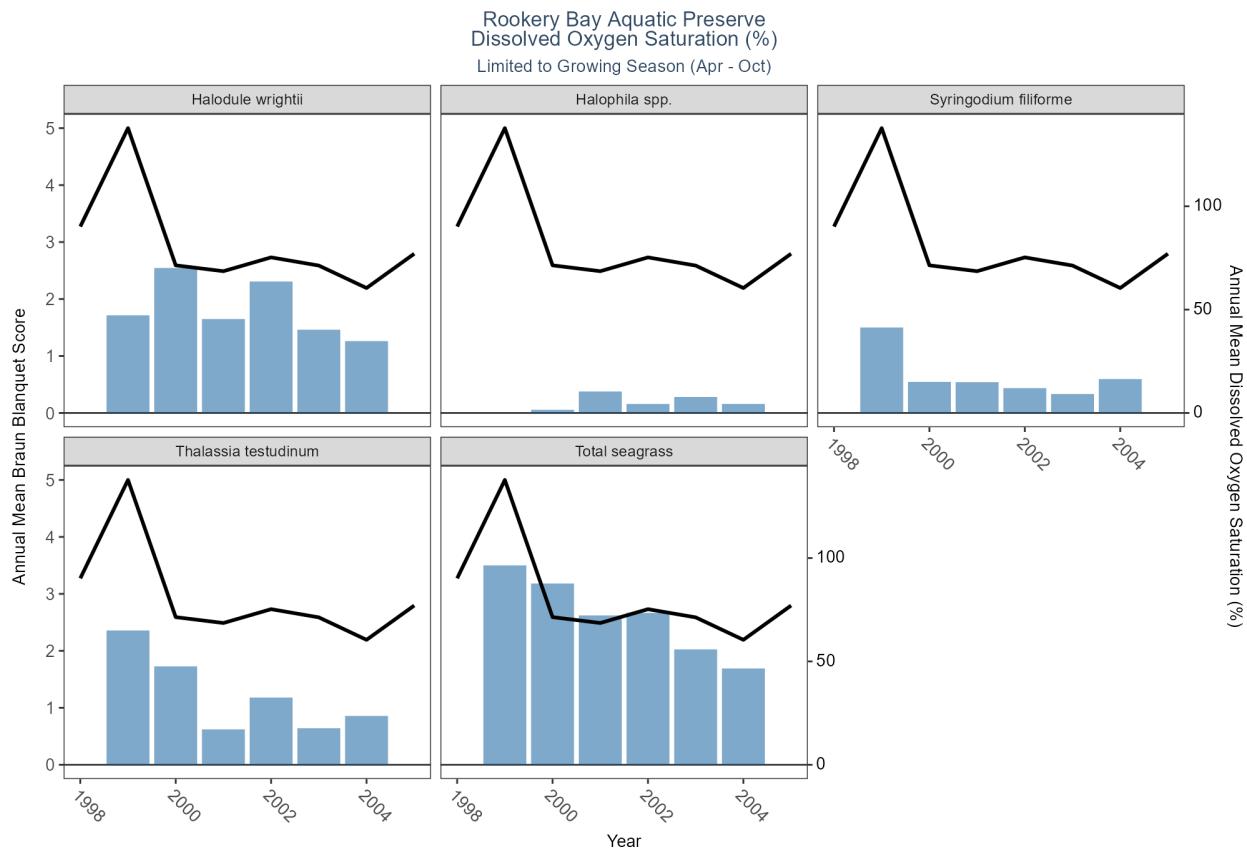


Table 501: WQ Summary for Dissolved Oxygen Saturation in Rookery Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	1998	90.200	90.20	90.20	90.2	NA
Dissolved Oxygen Saturation	1999	137.800	125.00	96.40	192.0	49.069
Dissolved Oxygen Saturation	2000	71.420	66.90	66.90	81.4	6.590
Dissolved Oxygen Saturation	2001	68.588	80.55	39.70	89.5	24.388
Dissolved Oxygen Saturation	2002	75.272	72.35	46.50	121.0	16.060
Dissolved Oxygen Saturation	2003	71.311	68.35	43.50	103.5	14.682
Dissolved Oxygen Saturation	2004	60.445	65.75	0.66	122.8	33.124
Dissolved Oxygen Saturation	2005	77.041	74.35	27.00	123.8	16.640
Dissolved Oxygen Saturation	2006	69.022	67.80	7.91	112.1	19.800
Dissolved Oxygen Saturation	2009	65.873	65.00	57.30	86.1	9.524
Dissolved Oxygen Saturation	2010	66.800	70.20	43.50	82.0	12.123
Dissolved Oxygen Saturation	2011	62.867	66.95	35.40	76.0	13.735
Dissolved Oxygen Saturation	2012	95.086	90.90	83.50	112.0	9.472
Dissolved Oxygen Saturation	2014	84.629	87.00	66.50	103.6	11.267
Dissolved Oxygen Saturation	2015	87.950	85.50	73.00	110.0	10.655
Dissolved Oxygen Saturation	2016	119.600	87.00	68.00	202.0	60.161
Dissolved Oxygen Saturation	2017	81.925	98.25	24.20	107.0	39.218
Dissolved Oxygen Saturation	2018	85.080	85.90	61.10	98.5	14.457
Dissolved Oxygen Saturation	2019	90.183	93.70	77.80	99.9	9.901

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2020	61.900	61.90	61.90	61.9	NA
Dissolved Oxygen Saturation	2021	76.025	83.55	15.10	98.0	23.409
Dissolved Oxygen Saturation	2022	82.620	81.10	63.80	101.0	14.625
Dissolved Oxygen Saturation	2023	72.456	75.60	37.90	114.3	20.549

Programs contributing WQ Data:

Table 502: Programs contributing WQ data for Dissolved Oxygen Saturation in Rookery Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	354	2002	2014	339
Dissolved Oxygen Saturation	572	1998	2005	45
Dissolved Oxygen Saturation	5002	2015	2023	81

WQ Program names:

354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program

572 - Rookery Bay National Estuarine Research Reserve Seagrass Monitoring

5002 - Florida STORET / WIN

pH

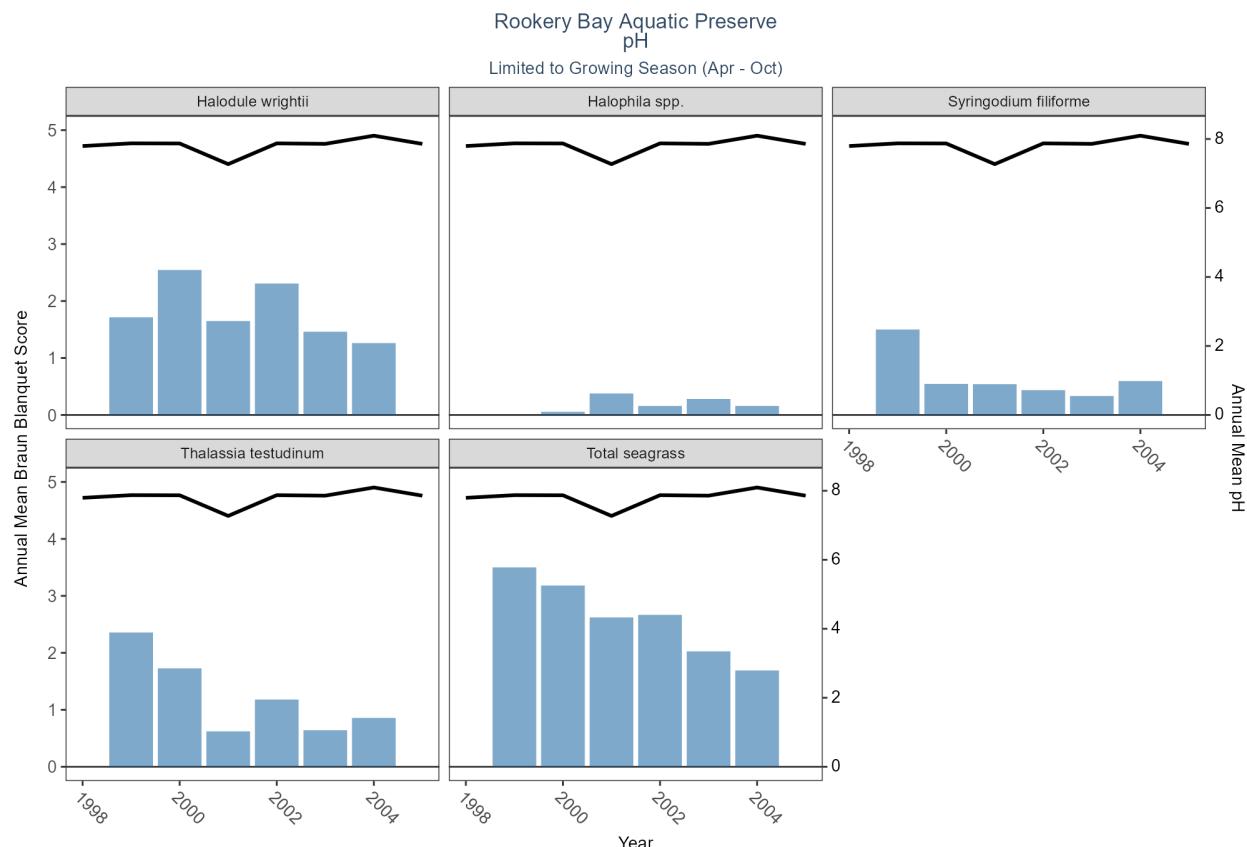


Table 503: WQ Summary for pH in Rookery Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	1998	7.796	7.800	7.60	7.900	0.106
pH	1999	7.874	7.900	7.80	8.000	0.073
pH	2000	7.870	7.900	7.60	8.300	0.163
pH	2001	7.271	7.700	5.18	8.600	1.078
pH	2002	7.873	7.860	5.81	8.565	0.347
pH	2003	7.859	7.852	7.49	8.275	0.167
pH	2004	8.096	7.800	7.08	12.300	1.192
pH	2005	7.858	7.880	7.35	8.190	0.165
pH	2006	7.817	7.815	7.23	8.095	0.138
pH	2007	7.867	7.910	6.44	8.190	0.245
pH	2008	7.891	7.990	5.19	8.700	0.423
pH	2009	7.819	7.800	7.60	8.100	0.133
pH	2010	7.631	7.705	7.10	8.100	0.312
pH	2011	7.432	7.450	7.00	7.910	0.297
pH	2012	7.385	7.300	7.00	8.000	0.261
pH	2013	7.275	7.200	6.90	8.100	0.358
pH	2014	7.300	7.300	7.10	7.500	0.141
pH	2015	7.868	7.900	7.20	8.700	0.342
pH	2016	8.104	8.200	7.50	8.400	0.205
pH	2017	8.257	8.100	7.39	9.200	0.411
pH	2018	7.902	7.990	7.60	8.100	0.181
pH	2019	7.868	7.990	7.53	8.120	0.269
pH	2020	7.674	7.670	7.60	7.800	0.083
pH	2021	7.823	7.850	6.74	8.100	0.254
pH	2022	8.013	8.025	7.70	8.340	0.173
pH	2023	7.944	7.940	7.70	8.140	0.101
pH	2024	7.950	7.950	7.90	8.000	0.058

Programs contributing WQ Data:

Table 504: Programs contributing WQ data for pH in Rookery Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	2001	2001	22
pH	95	1955	2018	38
pH	103	2021	2021	22
pH	354	2002	2008	319
pH	509	2001	2008	595
pH	5002	1989	2024	487

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program

509 - SERC Water Quality Monitoring Network

5002 - Florida STORET / WIN

Salinity

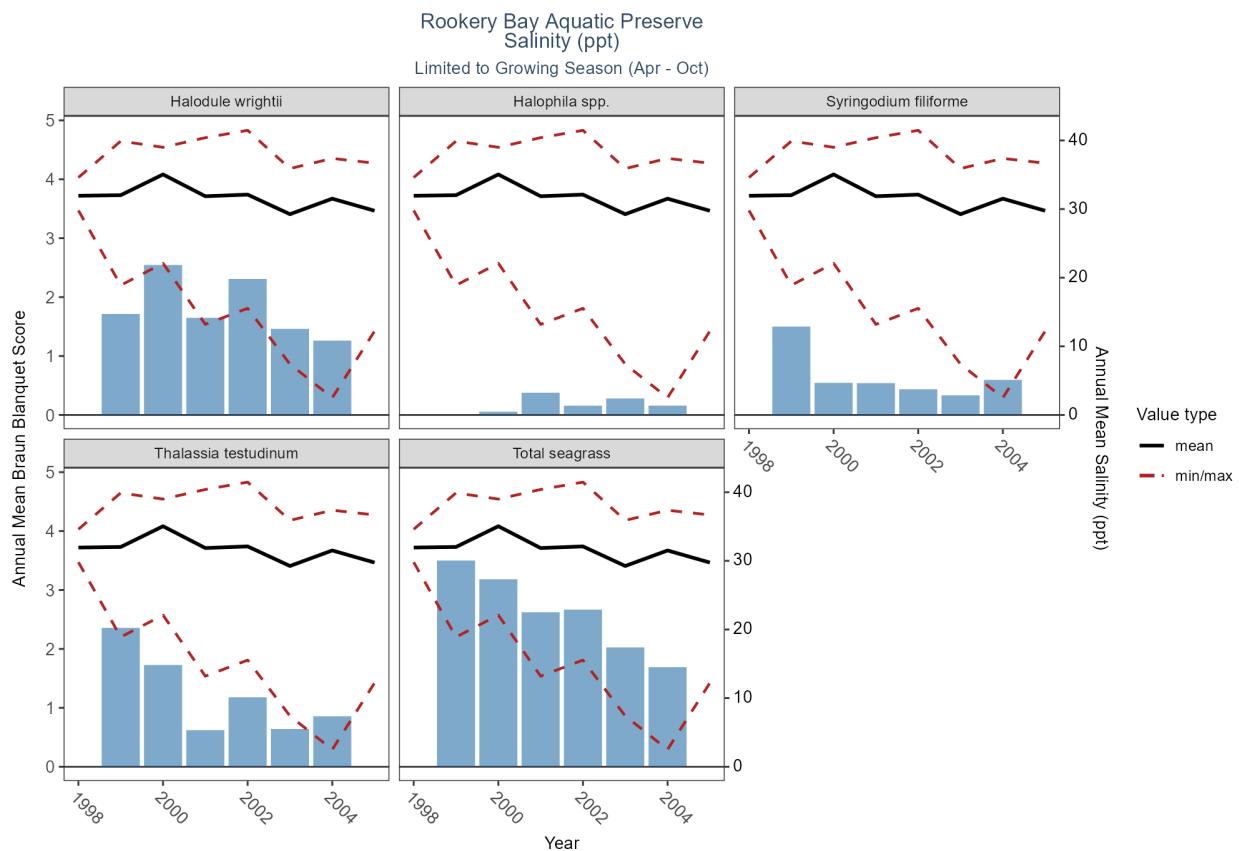


Table 505: WQ Summary for Salinity in Rookery Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	1998	31.939	32.000	29.80	34.60	1.233
Salinity	1999	32.025	33.500	18.90	39.90	4.518
Salinity	2000	35.045	36.100	22.10	39.00	3.080
Salinity	2001	31.868	32.250	13.20	40.40	5.925
Salinity	2002	32.107	32.860	15.54	41.47	5.345
Salinity	2003	29.255	30.320	7.40	35.90	5.563
Salinity	2004	31.515	34.100	2.51	37.38	6.642
Salinity	2005	29.755	30.500	12.22	36.69	5.025
Salinity	2006	31.383	34.225	3.92	38.27	6.766
Salinity	2007	35.616	35.635	30.00	38.49	1.604
Salinity	2008	32.002	35.680	2.87	40.30	8.240
Salinity	2009	34.521	36.450	5.80	40.80	5.339
Salinity	2010	32.507	32.300	22.00	37.50	3.009
Salinity	2011	33.148	34.300	20.00	37.00	3.429
Salinity	2012	33.218	35.000	20.80	37.00	4.597
Salinity	2013	35.000	35.000	33.00	37.00	1.414
Salinity	2014	31.310	33.000	15.00	38.40	5.484
Salinity	2015	32.796	32.500	28.50	36.80	2.417
Salinity	2016	33.570	34.280	23.50	38.50	4.013
Salinity	2017	30.806	31.600	12.00	41.50	6.323

ParameterName	Year	mean	median	min	max	sd
Salinity	2018	34.226	34.000	29.00	39.00	2.592
Salinity	2020	28.525	27.750	26.20	32.40	2.722
Salinity	2021	31.841	31.045	23.70	38.00	4.948
Salinity	2022	31.419	32.190	20.90	36.80	5.031
Salinity	2023	35.949	36.500	30.59	39.05	2.106
Salinity	2024	34.350	34.400	33.30	35.30	1.047

Programs contributing WQ Data:

Table 506: Programs contributing WQ data for Salinity in Rookery Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	2001	2001	22
Salinity	95	1954	2018	409
Salinity	354	2002	2014	400
Salinity	509	1999	2008	1449
Salinity	572	1998	2005	49
Salinity	4043	2000	2009	305
Salinity	5002	1989	2024	486

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program

509 - SERC Water Quality Monitoring Network

572 - Rookery Bay National Estuarine Research Reserve Seagrass Monitoring

4043 - RBNERR Fish Assessment

5002 - Florida STORET / WIN

Secchi Depth

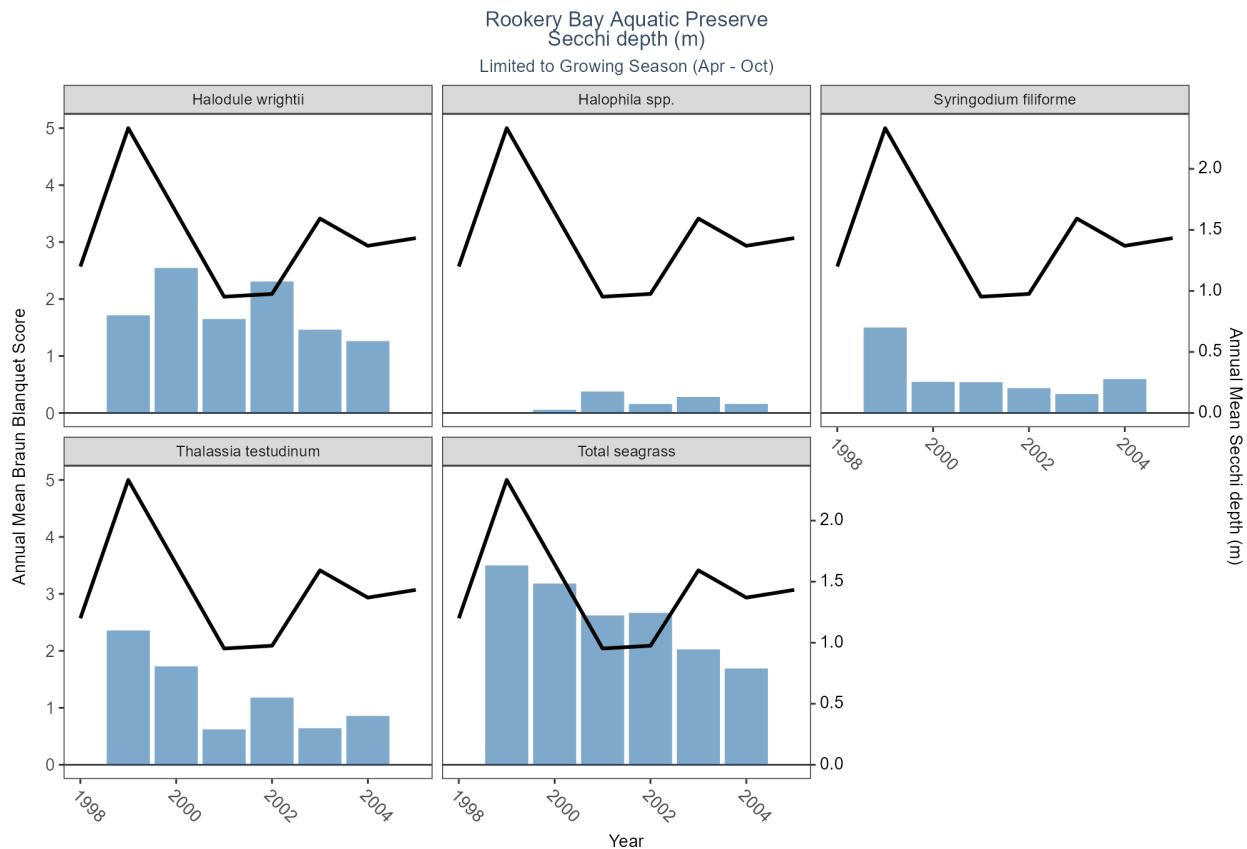


Table 507: WQ Summary for Secchi Depth in Rookery Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	1998	1.200	1.200	1.200	1.200	0.000
Secchi depth	1999	2.333	2.500	2.000	2.500	0.289
Secchi depth	2001	0.952	0.800	0.500	3.500	0.497
Secchi depth	2002	0.975	1.113	0.549	1.158	0.260
Secchi depth	2003	1.593	1.524	0.823	2.500	0.666
Secchi depth	2004	1.369	1.219	0.610	2.530	0.373
Secchi depth	2005	1.433	1.372	0.762	2.134	0.333
Secchi depth	2006	1.305	1.372	0.300	2.438	0.524
Secchi depth	2007	1.733	1.570	1.158	3.658	0.662
Secchi depth	2008	1.385	1.219	1.067	2.225	0.365
Secchi depth	2009	1.470	1.524	1.006	1.829	0.198
Secchi depth	2010	1.068	1.067	0.300	1.981	0.395
Secchi depth	2011	1.193	1.219	0.914	1.676	0.268
Secchi depth	2015	0.962	0.900	0.500	2.100	0.444
Secchi depth	2016	0.975	1.000	0.700	1.200	0.206
Secchi depth	2017	0.500	0.500	0.500	0.500	NA
Secchi depth	2020	1.250	1.050	1.000	1.900	0.436
Secchi depth	2021	1.066	0.900	0.600	2.500	0.507
Secchi depth	2022	1.217	1.100	0.600	2.000	0.488
Secchi depth	2023	1.365	1.250	0.300	2.300	0.600

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2024	0.950	0.950	0.800	1.100	0.129

Programs contributing WQ Data:

Table 508: Programs contributing WQ data for Secchi Depth in Rookery Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	2001	2001	22
Secchi depth	103	2021	2021	14
Secchi depth	514	2001	2011	164
Secchi depth	572	1998	2003	9
Secchi depth	5002	2002	2024	89

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 514 - Florida LAKEWATCH Program
- 572 - Rookery Bay National Estuarine Research Reserve Seagrass Monitoring
- 5002 - Florida STORET / WIN

Total Nitrogen & Total Phosphorus

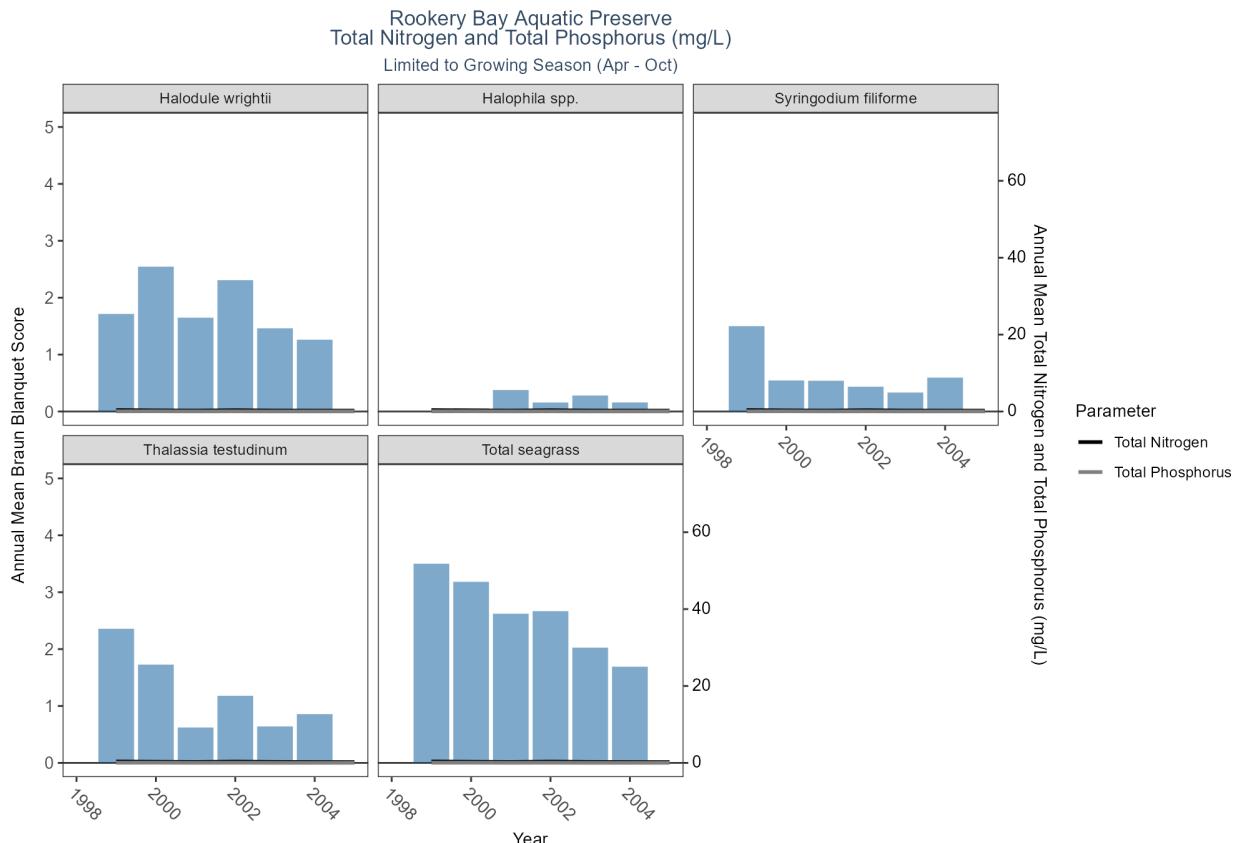


Table 509: WQ Summary for Total Nitrogen & Total Phosphorus
in Rookery Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	1999	0.366	0.354	0.199	0.547	0.079
Total Nitrogen	2000	0.290	0.276	0.137	0.501	0.080
Total Nitrogen	2001	0.234	0.270	0.000	0.671	0.180
Total Nitrogen	2002	0.332	0.299	0.000	1.092	0.258
Total Nitrogen	2003	0.246	0.262	0.000	0.802	0.160
Total Nitrogen	2004	0.225	0.245	0.000	0.758	0.177
Total Nitrogen	2005	0.221	0.248	0.000	0.951	0.166
Total Nitrogen	2006	0.210	0.220	0.000	1.304	0.177
Total Nitrogen	2007	0.262	0.253	0.000	0.906	0.195
Total Nitrogen	2008	0.218	0.243	0.000	1.174	0.167
Total Nitrogen	2009	0.185	0.145	0.000	0.560	0.191
Total Nitrogen	2010	0.175	0.115	0.000	0.530	0.185
Total Nitrogen	2011	0.207	0.130	0.000	0.700	0.222
Total Nitrogen	2012	0.956	0.956	0.928	0.984	0.040
Total Nitrogen	2013	0.717	0.702	0.440	1.105	0.217
Total Nitrogen	2014	73.999	0.614	0.314	1540.440	336.004
Total Nitrogen	2015	0.567	0.524	0.284	1.200	0.229
Total Nitrogen	2016	0.545	0.549	0.434	0.647	0.092
Total Nitrogen	2017	0.624	0.614	0.484	0.774	0.145
Total Nitrogen	2018	0.531	0.484	0.464	0.632	0.084
Total Nitrogen	2019	0.402	0.419	0.234	0.519	0.115
Total Nitrogen	2020	0.551	0.539	0.397	0.661	0.101
Total Nitrogen	2021	0.513	0.490	0.320	1.279	0.201
Total Nitrogen	2022	0.426	0.401	0.254	0.698	0.129
Total Nitrogen	2023	0.340	0.343	0.210	0.539	0.101
Total Nitrogen	2024	0.481	0.483	0.449	0.509	0.025
Total Phosphorus	1999	0.048	0.047	0.004	0.083	0.015
Total Phosphorus	2000	0.061	0.061	0.023	0.095	0.016
Total Phosphorus	2001	0.029	0.031	0.000	0.160	0.030
Total Phosphorus	2002	0.045	0.047	0.000	0.100	0.022
Total Phosphorus	2003	0.020	0.024	0.000	0.056	0.016
Total Phosphorus	2004	0.023	0.030	0.000	0.072	0.021
Total Phosphorus	2005	0.029	0.034	0.000	0.102	0.022
Total Phosphorus	2006	0.042	0.047	0.000	0.105	0.029
Total Phosphorus	2007	0.030	0.034	0.000	0.071	0.023
Total Phosphorus	2008	0.032	0.034	0.000	0.132	0.026
Total Phosphorus	2009	0.000	0.000	0.000	0.000	0.000
Total Phosphorus	2010	0.016	0.000	0.000	0.401	0.063
Total Phosphorus	2011	0.009	0.000	0.000	0.081	0.021
Total Phosphorus	2012	0.056	0.057	0.026	0.117	0.028
Total Phosphorus	2013	0.051	0.049	0.026	0.117	0.020
Total Phosphorus	2014	0.047	0.041	0.027	0.100	0.017
Total Phosphorus	2015	0.040	0.039	0.019	0.093	0.015
Total Phosphorus	2016	0.045	0.044	0.034	0.060	0.008
Total Phosphorus	2017	0.054	0.043	0.029	0.100	0.023
Total Phosphorus	2018	0.050	0.053	0.028	0.073	0.015
Total Phosphorus	2019	0.043	0.044	0.021	0.058	0.008
Total Phosphorus	2020	0.039	0.037	0.027	0.055	0.008
Total Phosphorus	2021	0.039	0.039	0.018	0.066	0.011

ParameterName	Year	mean	median	min	max	sd
Total Phosphorus	2022	0.040	0.037	0.022	0.074	0.013
Total Phosphorus	2023	0.037	0.036	0.006	0.084	0.017

Programs contributing WQ Data:

Table 510: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Rookery Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	303	2022	2022	1
Total Nitrogen	354	2002	2015	138
Total Nitrogen	509	1999	2008	736
Total Nitrogen	514	2001	2011	433
Total Nitrogen	5002	1989	2024	563
Total Phosphorus	103	2021	2021	18
Total Phosphorus	303	2022	2022	1
Total Phosphorus	354	2002	2023	261
Total Phosphorus	509	1999	2008	727
Total Phosphorus	514	2001	2011	420
Total Phosphorus	5002	2002	2023	134

WQ Program names:

303 - River, Estuary and Coastal Observing Network

354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program

509 - SERC Water Quality Monitoring Network

514 - Florida LAKEWATCH Program

5002 - Florida STORET / WIN

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

Total Suspended Solids

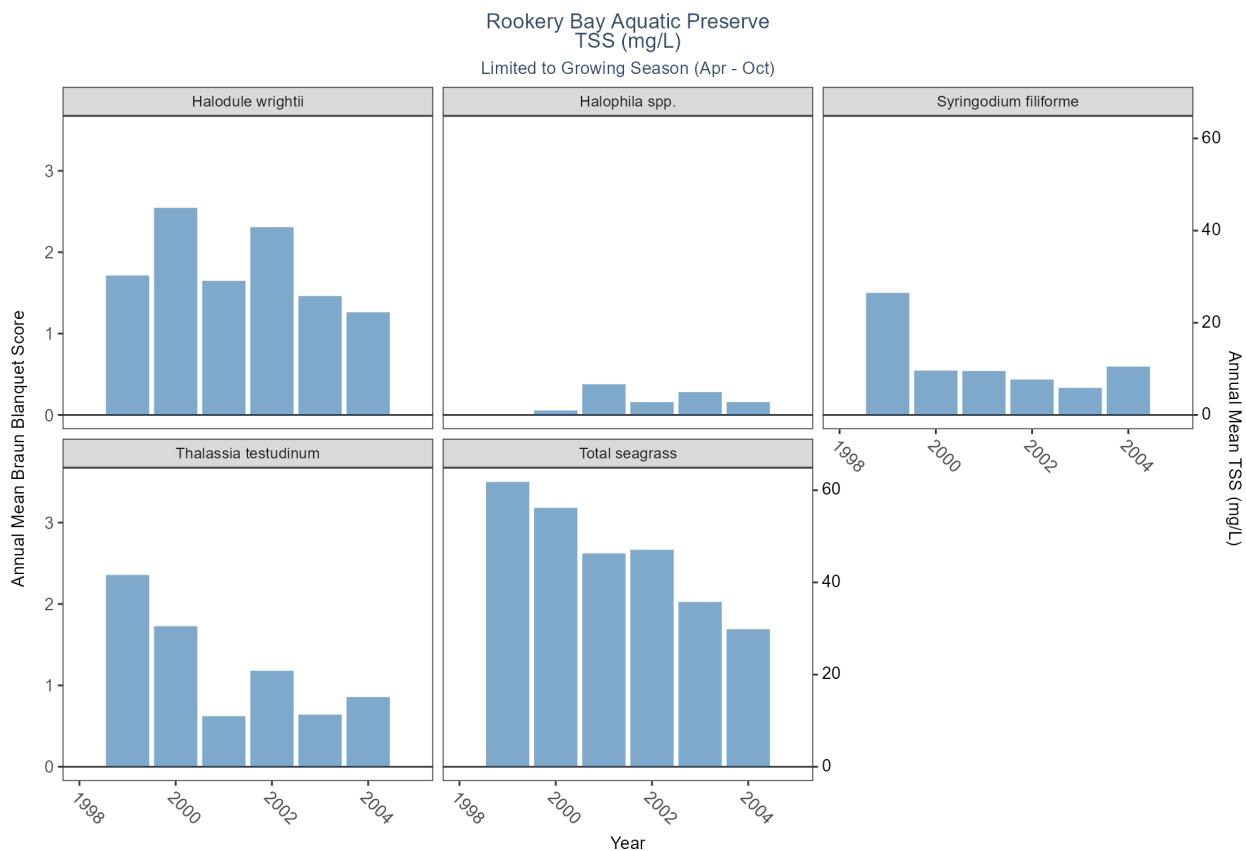


Table 511: WQ Summary for Total Suspended Solids in Rookery Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	2002	25.000	25.0	25	25	NA
TSS	2010	6.833	6.5	3	12	3.312
TSS	2011	3.571	4.0	3	4	0.535
TSS	2012	6.429	6.0	3	15	4.315
TSS	2013	3.286	3.0	3	4	0.488
TSS	2014	8.667	8.5	3	16	5.465
TSS	2015	9.632	7.0	3	21	7.025
TSS	2016	12.444	12.5	3	20	4.997
TSS	2017	7.067	6.0	4	12	2.463
TSS	2018	5.714	6.0	3	8	1.773
TSS	2019	8.526	8.0	4	15	4.033
TSS	2020	6.250	6.0	5	9	1.488
TSS	2021	7.667	8.0	2	12	2.410
TSS	2022	11.583	8.0	4	36	9.150
TSS	2023	10.643	10.0	6	15	3.104

Programs contributing WQ Data:

Table 512: Programs contributing WQ data for Total Suspended Solids in Rookery Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	354	2016	2023	109
TSS	5002	1989	2021	109

WQ Program names:

354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program

5002 - Florida STORET / WIN

Turbidity

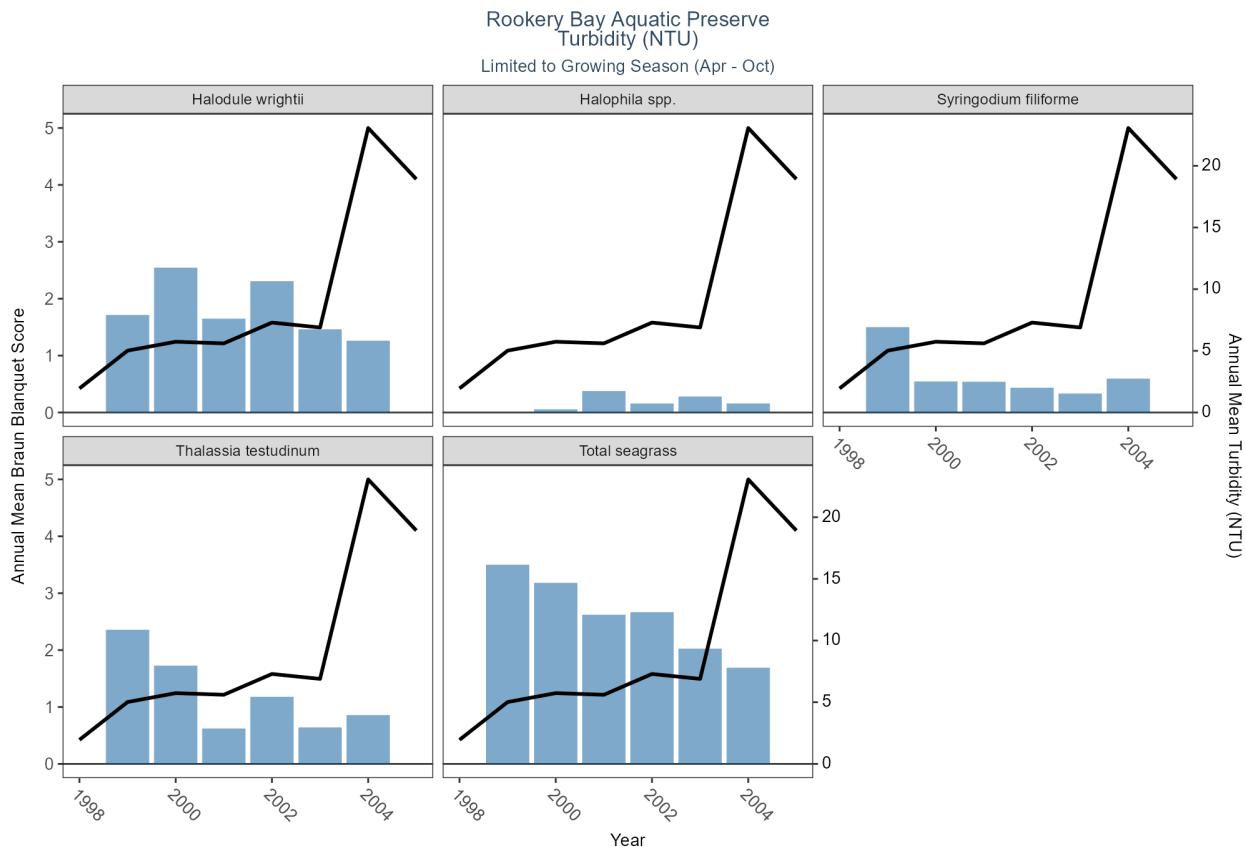


Table 513: WQ Summary for Turbidity in Rookery Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	1998	1.950	2.050	0.320	4.400	1.110
Turbidity	1999	5.014	4.390	0.300	34.800	4.089
Turbidity	2000	5.736	5.053	0.000	18.890	3.821
Turbidity	2001	5.604	5.090	0.160	22.950	3.708
Turbidity	2002	7.290	5.468	0.340	89.800	9.615
Turbidity	2003	6.892	6.572	0.400	22.400	4.249
Turbidity	2004	23.066	7.455	1.210	237.000	54.051

ParameterName	Year	mean	median	min	max	sd
Turbidity	2005	18.920	9.082	0.750	371.500	49.377
Turbidity	2006	9.552	7.525	1.635	47.800	7.592
Turbidity	2007	6.025	3.245	0.200	117.195	13.062
Turbidity	2008	7.083	6.750	1.070	16.500	3.432
Turbidity	2009	7.343	7.700	2.200	13.000	3.279
Turbidity	2010	6.110	6.600	2.500	9.300	2.635
Turbidity	2011	12.940	10.950	3.600	30.000	8.399
Turbidity	2012	9.550	9.550	9.400	9.700	0.212
Turbidity	2015	8.492	7.900	1.300	17.000	5.541
Turbidity	2016	7.300	6.100	5.000	12.000	3.202
Turbidity	2017	6.400	6.400	6.400	6.400	NA
Turbidity	2019	5.000	6.300	2.000	6.700	2.606
Turbidity	2020	5.933	4.950	1.800	11.000	3.864
Turbidity	2021	5.219	4.700	1.200	10.700	2.942
Turbidity	2022	6.100	4.400	2.200	10.900	3.261
Turbidity	2023	6.173	5.550	1.700	13.100	3.299
Turbidity	2024	11.450	11.300	9.200	14.000	2.049

Programs contributing WQ Data:

Table 514: Programs contributing WQ data for Turbidity in Rookery Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	95	2011	2011	1
Turbidity	103	2021	2021	18
Turbidity	354	2002	2006	297
Turbidity	509	1999	2008	736
Turbidity	572	2000	2003	6
Turbidity	5002	1989	2024	371

WQ Program names:

95 - Harmful Algal Bloom Marine Observation Network

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program

509 - SERC Water Quality Monitoring Network

572 - Rookery Bay National Estuarine Research Reserve Seagrass Monitoring

5002 - Florida STORET / WIN

Water Temperature

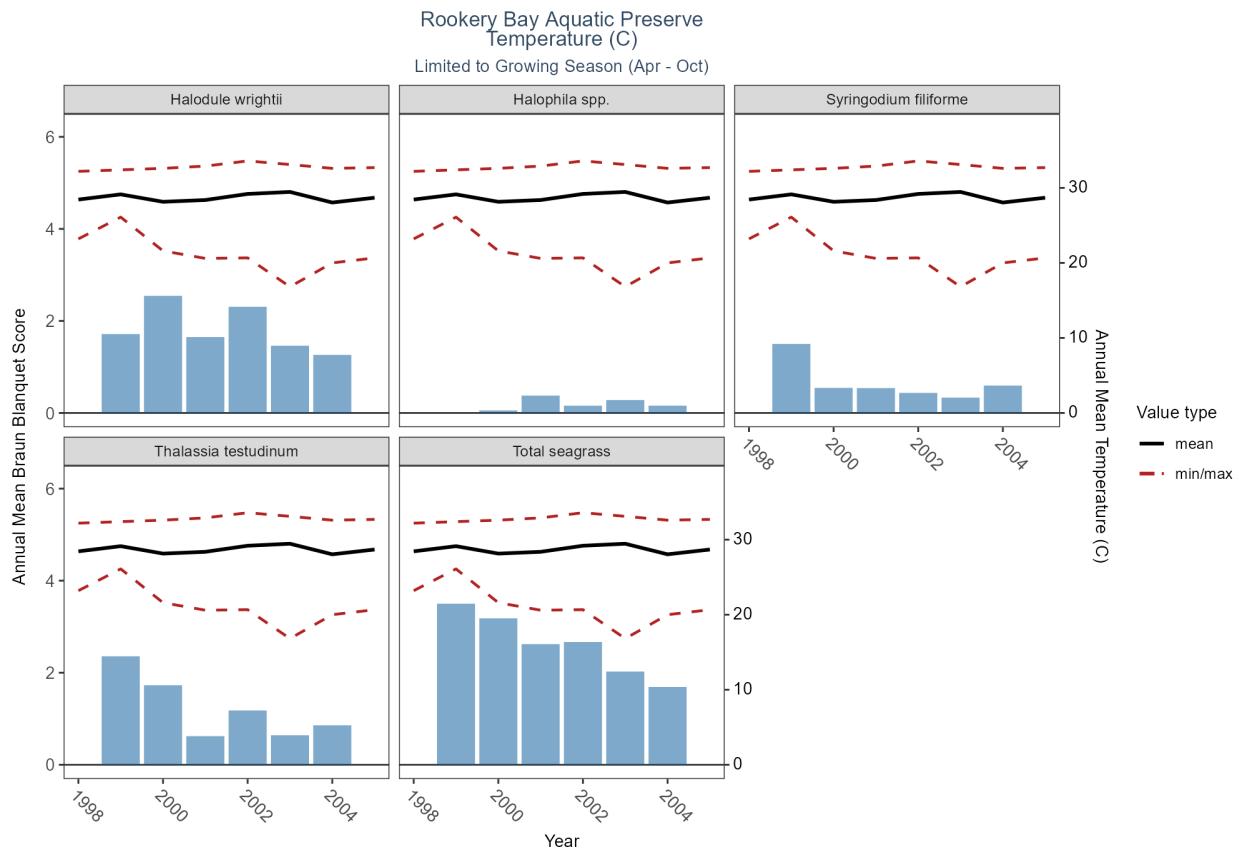


Table 515: WQ Summary for Water Temperature in Rookery Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	1998	28.443	28.700	23.20	32.20	2.526
Temperature	1999	29.134	29.100	26.10	32.40	1.528
Temperature	2000	28.144	29.600	21.60	32.60	2.786
Temperature	2001	28.380	29.700	20.60	32.90	3.196
Temperature	2002	29.192	29.400	20.67	33.59	1.960
Temperature	2003	29.457	30.015	16.82	33.11	2.153
Temperature	2004	28.047	29.050	20.00	32.60	2.992
Temperature	2005	28.686	29.605	20.66	32.70	2.733
Temperature	2006	28.405	28.565	23.03	37.96	2.626
Temperature	2007	28.321	29.060	21.47	33.00	2.888
Temperature	2008	28.897	29.630	21.00	35.60	2.748
Temperature	2009	28.333	28.700	21.20	31.90	2.522
Temperature	2010	28.373	29.100	20.00	33.80	3.372
Temperature	2011	28.806	28.900	22.80	33.00	2.510
Temperature	2012	28.569	29.300	4.40	34.00	4.322
Temperature	2013	27.607	28.050	23.80	30.80	2.572
Temperature	2014	29.086	29.600	24.60	32.50	2.237
Temperature	2015	28.667	29.400	22.80	35.00	2.542
Temperature	2016	29.190	29.900	25.00	34.00	2.413

ParameterName	Year	mean	median	min	max	sd
Temperature	2017	28.582	29.000	20.60	33.00	3.376
Temperature	2018	29.342	29.200	24.90	33.00	2.255
Temperature	2019	27.440	27.530	26.38	27.88	0.556
Temperature	2020	29.892	30.100	28.76	30.50	0.669
Temperature	2021	28.818	29.700	25.80	31.40	1.843
Temperature	2022	29.009	28.800	27.10	30.70	1.387
Temperature	2023	30.207	30.765	26.10	32.90	1.841
Temperature	2024	29.850	29.850	29.60	30.10	0.208

Programs contributing WQ Data:

Table 516: Programs contributing WQ data for Water Temperature in Rookery Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	2001	2001	22
Temperature	95	1954	2018	278
Temperature	103	2021	2021	22
Temperature	354	2002	2014	400
Temperature	509	1999	2008	1449
Temperature	572	1998	2005	48
Temperature	4043	2000	2009	304
Temperature	5002	1989	2024	604

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
- 509 - SERC Water Quality Monitoring Network
- 572 - Rookery Bay National Estuarine Research Reserve Seagrass Monitoring
- 4043 - RBNERR Fish Assessment
- 5002 - Florida STORET / WIN

Rookery Bay National Estuarine Research Reserve

Programs contributing SAV Data:

Table 517: Programs contributing SAV data in Rookery Bay National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Percent Cover	572	1998	2005	1220

SAV Program names:

572 - Rookery Bay National Estuarine Research Reserve Seagrass Monitoring

Chlorophyll-a (corrected & uncorrected)

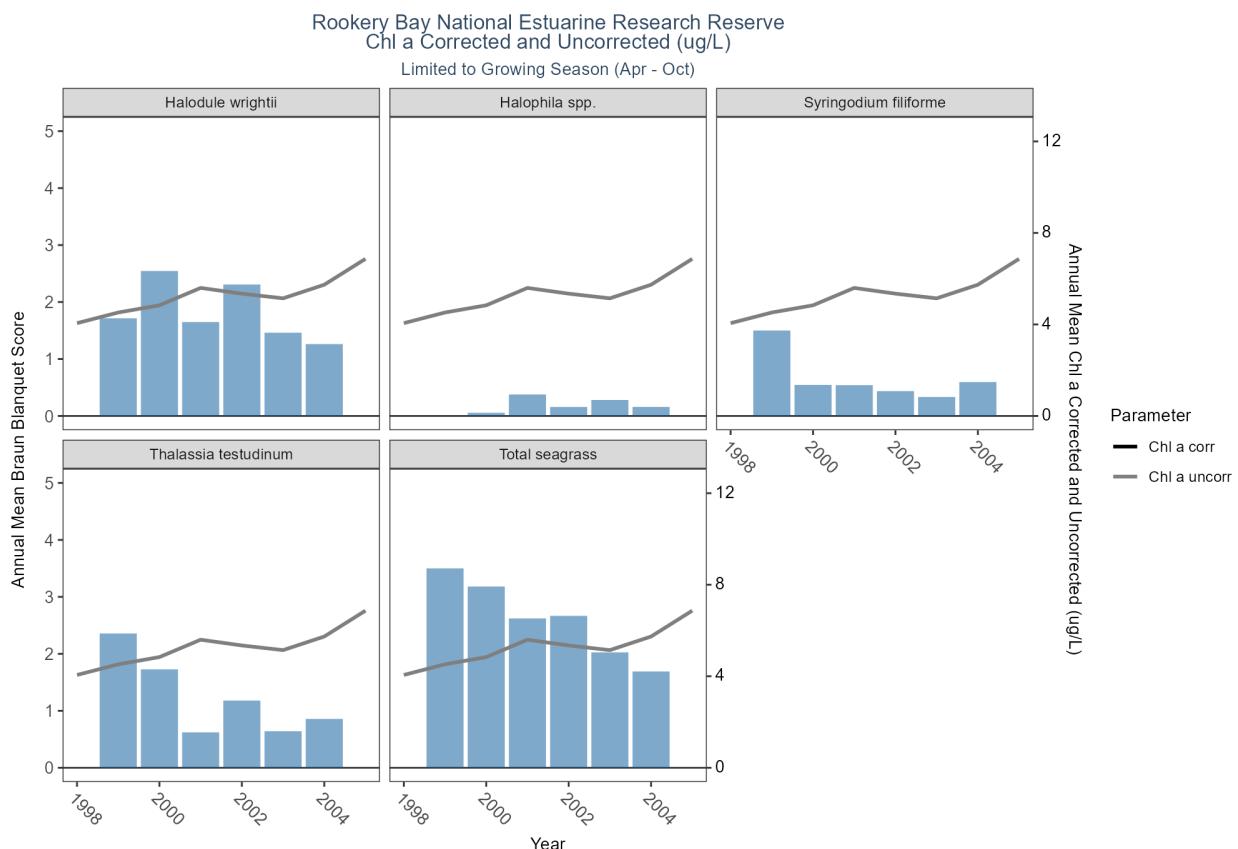


Table 518: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Rookery Bay National Estuarine Research Reserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2002	4.660	1.130	0.850	14.000	5.827
Chl a corr	2006	11.504	0.850	0.850	74.000	22.269
Chl a corr	2012	7.352	6.400	1.600	23.000	5.597
Chl a corr	2013	8.101	5.000	1.800	34.000	6.567
Chl a corr	2014	7.310	4.800	2.000	160.000	15.431

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2015	5.539	4.350	1.500	22.000	3.516
Chl a corr	2016	5.926	5.100	1.200	22.000	3.621
Chl a corr	2017	11.136	7.500	0.920	58.000	11.657
Chl a corr	2018	5.217	4.100	1.400	19.000	3.361
Chl a corr	2019	6.583	5.300	1.400	23.000	4.055
Chl a corr	2020	7.443	5.750	1.600	22.000	4.713
Chl a corr	2021	6.048	5.200	1.400	23.000	3.838
Chl a corr	2022	5.717	4.800	1.400	24.000	3.473
Chl a corr	2023	5.893	4.700	1.700	22.000	3.792
Chl a uncorr	1998	4.057	3.496	0.369	12.486	2.310
Chl a uncorr	1999	4.522	3.789	0.536	17.016	3.010
Chl a uncorr	2000	4.837	3.973	0.505	20.852	3.477
Chl a uncorr	2001	5.596	5.000	1.028	18.000	3.468
Chl a uncorr	2002	5.345	4.280	0.399	30.940	4.530
Chl a uncorr	2003	5.142	4.691	0.630	18.000	2.816
Chl a uncorr	2004	5.736	5.272	1.000	19.000	3.210
Chl a uncorr	2005	6.867	6.453	0.530	22.265	4.232
Chl a uncorr	2006	6.689	5.976	1.087	20.797	4.127
Chl a uncorr	2007	4.763	3.766	0.238	20.800	3.468
Chl a uncorr	2008	6.524	5.510	0.190	55.124	4.902
Chl a uncorr	2009	6.287	5.600	3.000	12.800	2.859
Chl a uncorr	2010	6.660	5.000	2.000	21.000	4.230
Chl a uncorr	2011	5.306	4.900	0.300	17.200	3.423
Chl a uncorr	2012	6.731	5.900	1.000	26.000	4.182
Chl a uncorr	2013	8.888	5.700	1.800	36.000	6.902
Chl a uncorr	2014	6.984	5.300	2.000	170.000	11.817
Chl a uncorr	2015	6.350	5.100	1.500	25.000	3.928
Chl a uncorr	2016	6.646	5.900	1.200	26.000	3.953
Chl a uncorr	2017	12.449	9.000	1.000	63.000	12.358
Chl a uncorr	2018	5.828	4.600	1.400	22.000	3.609
Chl a uncorr	2019	7.656	6.500	1.400	26.000	4.480
Chl a uncorr	2020	8.234	6.400	1.600	25.000	5.055
Chl a uncorr	2021	6.501	5.650	1.400	25.000	4.020
Chl a uncorr	2022	6.256	5.300	1.400	28.000	3.765
Chl a uncorr	2023	7.154	6.000	1.700	26.000	4.585

Programs contributing WQ Data:

Table 519: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Rookery Bay National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	303	2022	2022	1
Chl a corr	354	2012	2023	1513
Chl a corr	5002	2002	2023	108
Chl a uncorr	103	2021	2021	35
Chl a uncorr	118	2010	2010	1
Chl a uncorr	354	2002	2023	3981
Chl a uncorr	509	1994	2008	1609
Chl a uncorr	514	2001	2016	319

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a uncorr	5002	2001	2023	95

WQ Program names:

- 303 - River, Estuary and Coastal Observing Network
- 354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
- 5002 - Florida STORET / WIN
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 509 - SERC Water Quality Monitoring Network
- 514 - Florida LAKEWATCH Program

Colored Dissolved Organic Matter



Table 520: WQ Summary for Colored Dissolved Organic Matter in Rookery Bay National Estuarine Research Reserve

ParameterName	Year	mean	median	min	max	sd
CDOM	2001	9.091	8.5	2	24	5.935
CDOM	2003	9.100	9.0	4	12	2.767
CDOM	2004	15.000	16.0	5	24	9.539
CDOM	2005	6.250	6.5	4	9	1.581
CDOM	2006	13.231	13.0	10	15	1.536

ParameterName	Year	mean	median	min	max	sd
CDOM	2007	7.370	6.0	1	16	5.408
CDOM	2008	14.088	8.0	3	30	9.765
CDOM	2010	11.786	12.0	6	18	3.512
CDOM	2011	10.643	11.0	4	21	5.917
CDOM	2016	16.000	16.0	16	16	NA

Programs contributing WQ Data:

Table 521: Programs contributing WQ data for Colored Dissolved Organic Matter in Rookery Bay National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
CDOM	514	2001	2016	146

WQ Program names:

514 - Florida LAKEWATCH Program

Dissolved Oxygen

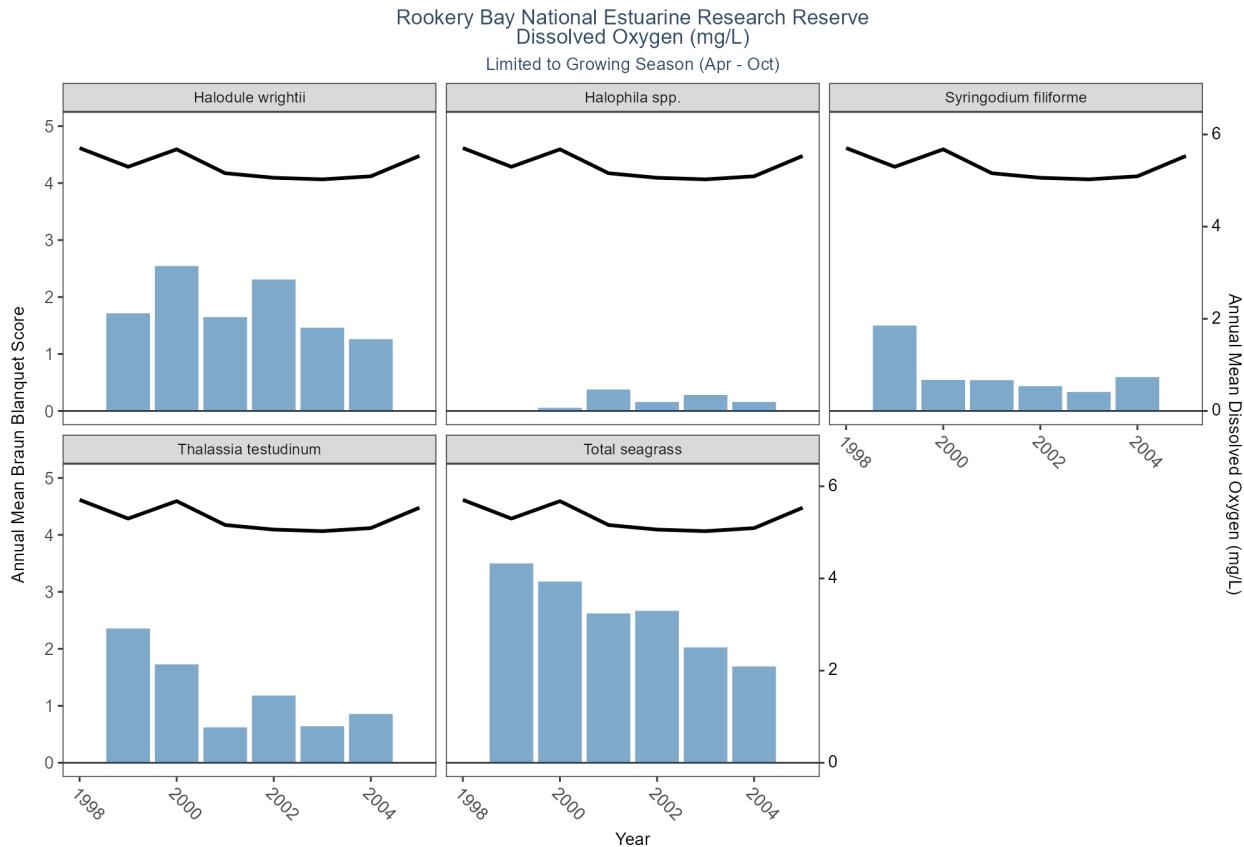


Table 522: WQ Summary for Dissolved Oxygen in Rookery Bay National Estuarine Research Reserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	1998	5.706	6.300	0.10	8.30	1.640
Dissolved Oxygen	1999	5.299	5.500	1.80	12.17	1.210
Dissolved Oxygen	2000	5.678	5.950	1.30	8.60	1.457
Dissolved Oxygen	2001	5.160	5.100	0.10	9.50	1.550
Dissolved Oxygen	2002	5.060	4.970	0.57	9.52	1.164
Dissolved Oxygen	2003	5.026	4.950	1.80	7.91	1.163
Dissolved Oxygen	2004	5.093	5.010	1.53	13.51	1.289
Dissolved Oxygen	2005	5.535	5.500	1.81	11.39	1.088
Dissolved Oxygen	2006	5.621	5.655	1.63	12.30	1.436
Dissolved Oxygen	2007	5.418	5.450	2.28	8.24	1.059
Dissolved Oxygen	2008	5.523	5.600	0.28	11.47	1.608
Dissolved Oxygen	2009	4.390	4.400	1.60	9.19	1.127
Dissolved Oxygen	2010	4.692	4.400	0.34	13.40	1.506
Dissolved Oxygen	2011	4.260	4.100	0.20	13.80	1.576
Dissolved Oxygen	2012	5.046	5.100	1.60	8.20	1.339
Dissolved Oxygen	2013	6.181	6.270	2.87	10.00	1.649
Dissolved Oxygen	2014	4.352	4.400	1.80	9.04	1.463
Dissolved Oxygen	2015	5.428	5.500	1.40	9.76	1.627
Dissolved Oxygen	2016	5.450	5.500	1.60	13.10	1.205
Dissolved Oxygen	2017	4.805	5.200	0.13	8.70	1.888
Dissolved Oxygen	2018	5.371	5.400	2.10	8.70	1.230
Dissolved Oxygen	2019	4.670	4.550	2.60	7.50	1.134
Dissolved Oxygen	2020	4.848	4.700	1.90	8.70	1.323
Dissolved Oxygen	2021	4.912	5.165	1.46	7.90	1.097
Dissolved Oxygen	2022	4.729	4.900	0.86	6.57	1.437
Dissolved Oxygen	2023	4.212	4.310	1.83	10.87	1.387
Dissolved Oxygen	2024	5.854	5.675	5.03	7.09	0.566

Programs contributing WQ Data:

Table 523: Programs contributing WQ data for Dissolved Oxygen in Rookery Bay National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	2001	2001	22
Dissolved Oxygen	95	2007	2018	250
Dissolved Oxygen	103	2021	2021	40
Dissolved Oxygen	118	2015	2021	10
Dissolved Oxygen	354	2002	2014	699
Dissolved Oxygen	509	1994	2008	3169
Dissolved Oxygen	572	1998	2005	45
Dissolved Oxygen	4043	2000	2020	1766
Dissolved Oxygen	5002	1989	2024	3310

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
 354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
 509 - SERC Water Quality Monitoring Network
 572 - Rookery Bay National Estuarine Research Reserve Seagrass Monitoring
 4043 - RBNERR Fish Assessment
 5002 - Florida STORET / WIN

Dissolved Oxygen Saturation

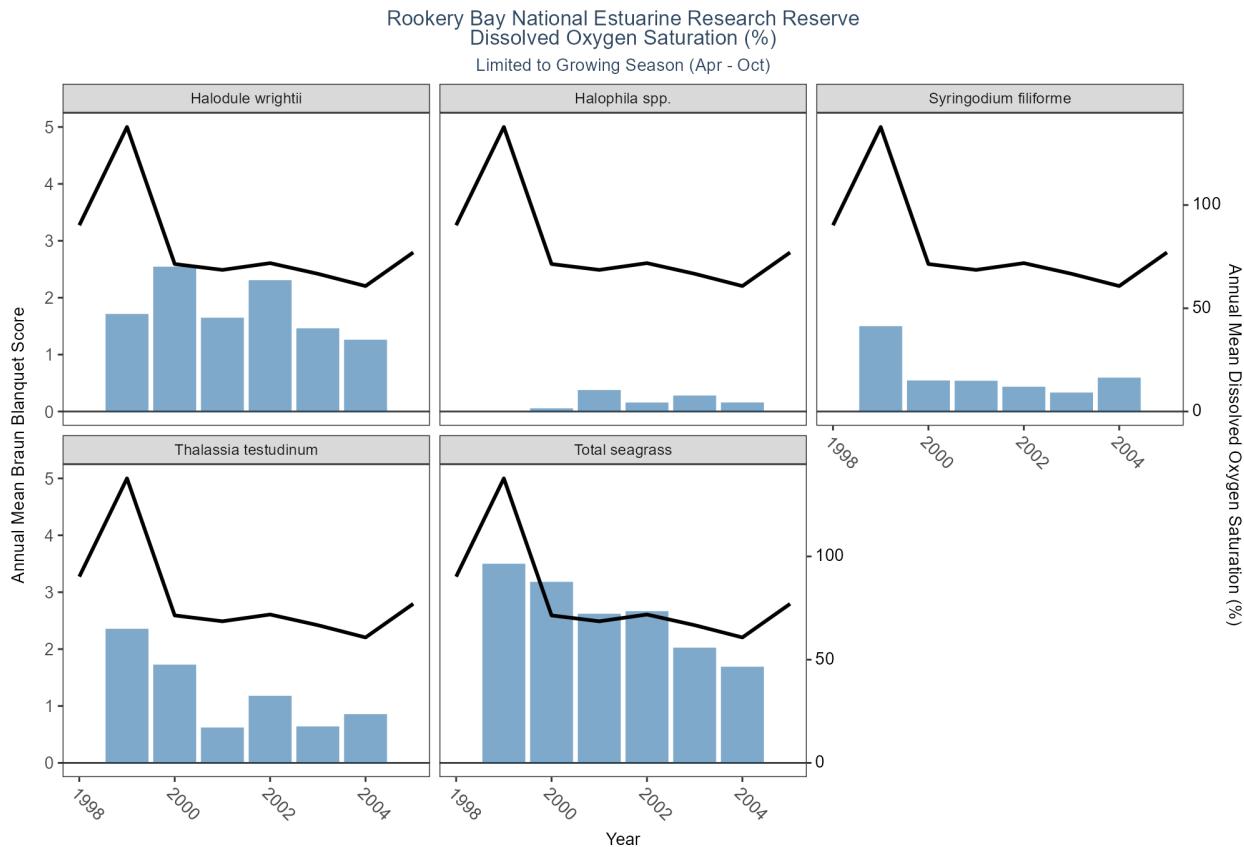


Table 524: WQ Summary for Dissolved Oxygen Saturation in Rookery Bay National Estuarine Research Reserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	1998	90.200	90.20	90.20	90.2	NA
Dissolved Oxygen Saturation	1999	137.800	125.00	96.40	192.0	49.069
Dissolved Oxygen Saturation	2000	71.420	66.90	66.90	81.4	6.590
Dissolved Oxygen Saturation	2001	68.588	80.55	39.70	89.5	24.388
Dissolved Oxygen Saturation	2002	71.862	70.48	42.66	121.0	16.181
Dissolved Oxygen Saturation	2003	66.698	63.30	39.45	103.5	16.376
Dissolved Oxygen Saturation	2004	60.762	65.05	0.66	122.8	28.731
Dissolved Oxygen Saturation	2005	77.041	74.35	27.00	123.8	16.640
Dissolved Oxygen Saturation	2006	67.366	67.65	7.91	112.1	20.270
Dissolved Oxygen Saturation	2009	58.806	58.25	30.00	103.0	15.783
Dissolved Oxygen Saturation	2010	74.361	73.80	41.00	110.5	16.318
Dissolved Oxygen Saturation	2011	78.217	71.65	35.40	143.5	28.626

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2012	68.921	69.70	23.30	112.0	25.346
Dissolved Oxygen Saturation	2014	64.426	66.50	27.10	103.6	20.686
Dissolved Oxygen Saturation	2015	87.950	85.50	73.00	110.0	10.655
Dissolved Oxygen Saturation	2016	119.600	87.00	68.00	202.0	60.161
Dissolved Oxygen Saturation	2017	56.150	57.35	3.70	109.0	50.490
Dissolved Oxygen Saturation	2018	70.892	79.30	30.50	98.5	25.112
Dissolved Oxygen Saturation	2019	82.285	77.80	61.00	99.9	12.086
Dissolved Oxygen Saturation	2020	58.580	58.80	52.60	66.4	5.851
Dissolved Oxygen Saturation	2021	70.704	71.90	19.50	98.0	21.558
Dissolved Oxygen Saturation	2022	66.831	69.85	11.30	101.0	27.589
Dissolved Oxygen Saturation	2023	67.619	72.40	24.60	156.4	28.728

Programs contributing WQ Data:

Table 525: Programs contributing WQ data for Dissolved Oxygen Saturation in Rookery Bay National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	354	2002	2014	615
Dissolved Oxygen Saturation	572	1998	2005	45
Dissolved Oxygen Saturation	5002	2015	2023	135

WQ Program names:

354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program

572 - Rookery Bay National Estuarine Research Reserve Seagrass Monitoring

5002 - Florida STORET / WIN

pH

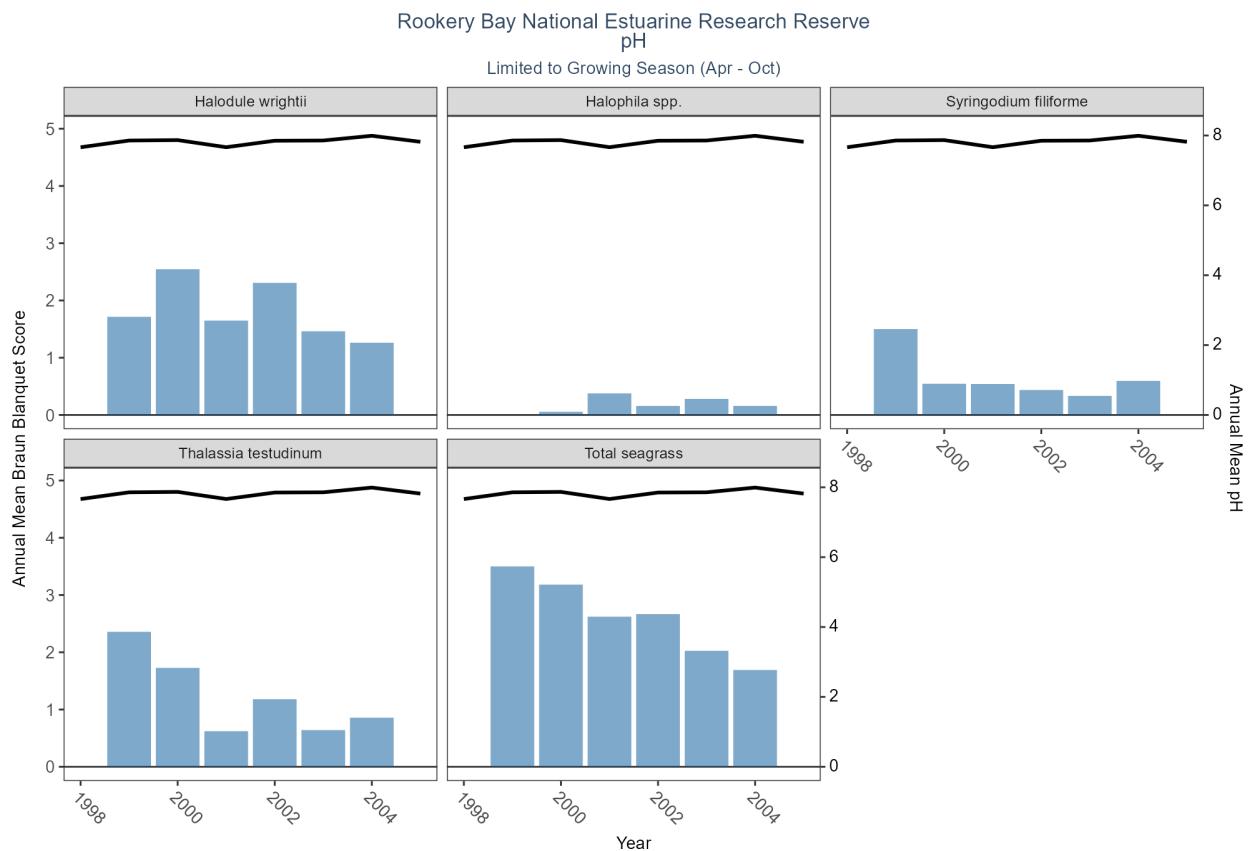


Table 526: WQ Summary for pH in Rookery Bay National Estuarine Research Reserve

ParameterName	Year	mean	median	min	max	sd
pH	1998	7.663	7.800	5.73	8.530	0.334
pH	1999	7.856	7.900	7.60	8.100	0.093
pH	2000	7.868	7.800	7.40	8.400	0.205
pH	2001	7.665	8.000	5.15	8.700	0.903
pH	2002	7.850	7.870	5.81	8.565	0.312
pH	2003	7.856	7.860	7.32	8.305	0.190
pH	2004	7.992	7.820	7.08	12.300	0.880
pH	2005	7.820	7.845	7.04	8.190	0.182
pH	2006	7.790	7.805	7.02	8.170	0.179
pH	2007	7.696	7.780	6.44	8.550	0.358
pH	2008	7.789	7.865	4.76	8.700	0.459
pH	2009	7.632	7.685	6.80	8.200	0.204
pH	2010	7.639	7.600	7.00	8.100	0.221
pH	2011	7.443	7.500	6.60	7.910	0.192
pH	2012	7.535	7.600	6.90	8.000	0.265
pH	2013	7.544	7.600	6.90	8.100	0.331
pH	2014	7.333	7.300	7.10	7.800	0.192
pH	2015	7.835	7.900	7.00	8.700	0.293
pH	2016	7.976	8.000	7.10	8.500	0.229
pH	2017	8.153	8.100	7.14	9.200	0.455

ParameterName	Year	mean	median	min	max	sd
pH	2018	7.836	7.865	7.25	8.100	0.231
pH	2019	7.737	7.705	7.43	8.120	0.246
pH	2020	7.663	7.670	7.56	7.800	0.084
pH	2021	7.808	7.800	7.42	8.350	0.181
pH	2022	7.847	7.900	7.09	8.340	0.297
pH	2023	7.765	7.800	7.28	8.140	0.220
pH	2024	7.808	7.850	7.60	8.000	0.144

Programs contributing WQ Data:

Table 527: Programs contributing WQ data for pH in Rookery Bay National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	2001	2001	22
pH	95	1955	2018	297
pH	103	2021	2021	57
pH	118	2015	2021	7
pH	354	2002	2010	519
pH	509	2001	2008	1051
pH	5002	1989	2024	2535

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program

509 - SERC Water Quality Monitoring Network

5002 - Florida STORET / WIN

Salinity

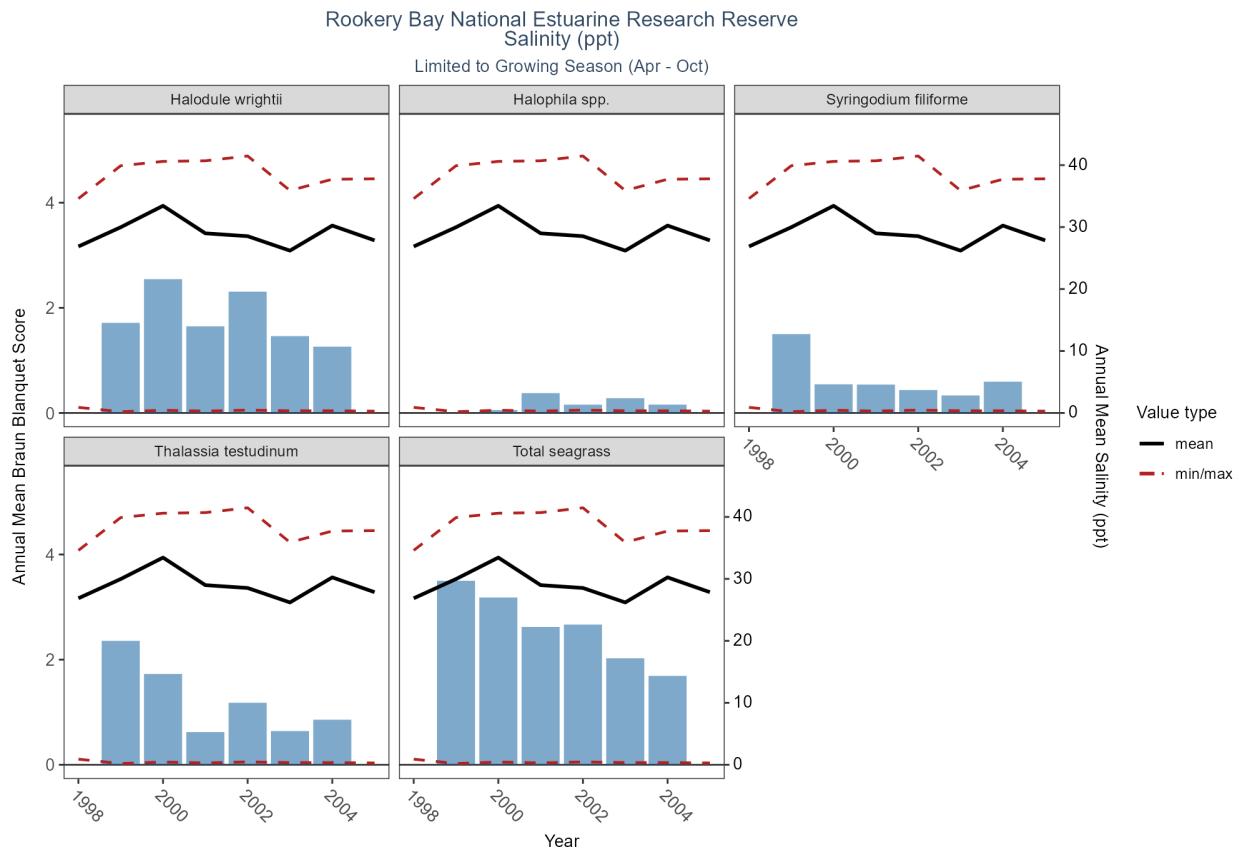


Table 528: WQ Summary for Salinity in Rookery Bay National Estuarine Research Reserve

ParameterName	Year	mean	median	min	max	sd
Salinity	1998	26.869	30.400	0.90	34.60	9.501
Salinity	1999	29.977	31.900	0.20	39.90	6.493
Salinity	2000	33.437	34.400	0.44	40.60	5.875
Salinity	2001	28.992	31.700	0.30	40.70	10.012
Salinity	2002	28.531	30.605	0.46	41.47	9.283
Salinity	2003	26.200	29.000	0.35	35.90	8.619
Salinity	2004	30.243	33.400	0.35	37.72	8.241
Salinity	2005	27.856	29.985	0.29	37.79	8.442
Salinity	2006	29.420	33.180	0.30	39.38	9.423
Salinity	2007	34.071	35.360	0.43	39.57	5.217
Salinity	2008	30.299	33.270	0.33	45.85	10.657
Salinity	2009	33.458	37.000	0.00	45.97	9.723
Salinity	2010	29.263	30.400	4.90	38.00	5.734
Salinity	2011	32.587	34.100	9.50	40.10	5.480
Salinity	2012	30.052	32.650	1.50	38.00	7.904
Salinity	2013	29.534	33.250	1.50	40.50	10.043
Salinity	2014	30.562	31.900	9.40	41.90	7.108
Salinity	2015	31.922	33.500	5.50	37.20	5.216
Salinity	2016	28.669	31.000	2.00	38.50	6.880
Salinity	2017	23.873	24.100	0.50	42.00	11.011

ParameterName	Year	mean	median	min	max	sd
Salinity	2018	27.263	28.080	3.00	39.50	8.821
Salinity	2019	26.798	26.850	13.70	35.80	6.059
Salinity	2020	27.608	27.900	4.80	38.70	7.610
Salinity	2021	28.169	29.800	0.31	38.30	10.037
Salinity	2022	25.763	29.255	0.38	36.90	12.195
Salinity	2023	32.169	34.750	2.74	39.05	8.845
Salinity	2024	33.617	33.450	32.10	35.30	1.102

Programs contributing WQ Data:

Table 529: Programs contributing WQ data for Salinity in Rookery Bay National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	2001	2001	22
Salinity	95	1954	2018	976
Salinity	118	2015	2021	8
Salinity	354	2002	2014	748
Salinity	509	1994	2008	3174
Salinity	572	1998	2005	49
Salinity	4043	2000	2020	1808
Salinity	5002	1989	2024	3266

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program

509 - SERC Water Quality Monitoring Network

572 - Rookery Bay National Estuarine Research Reserve Seagrass Monitoring

4043 - RBNERR Fish Assessment

5002 - Florida STORET / WIN

Secchi Depth

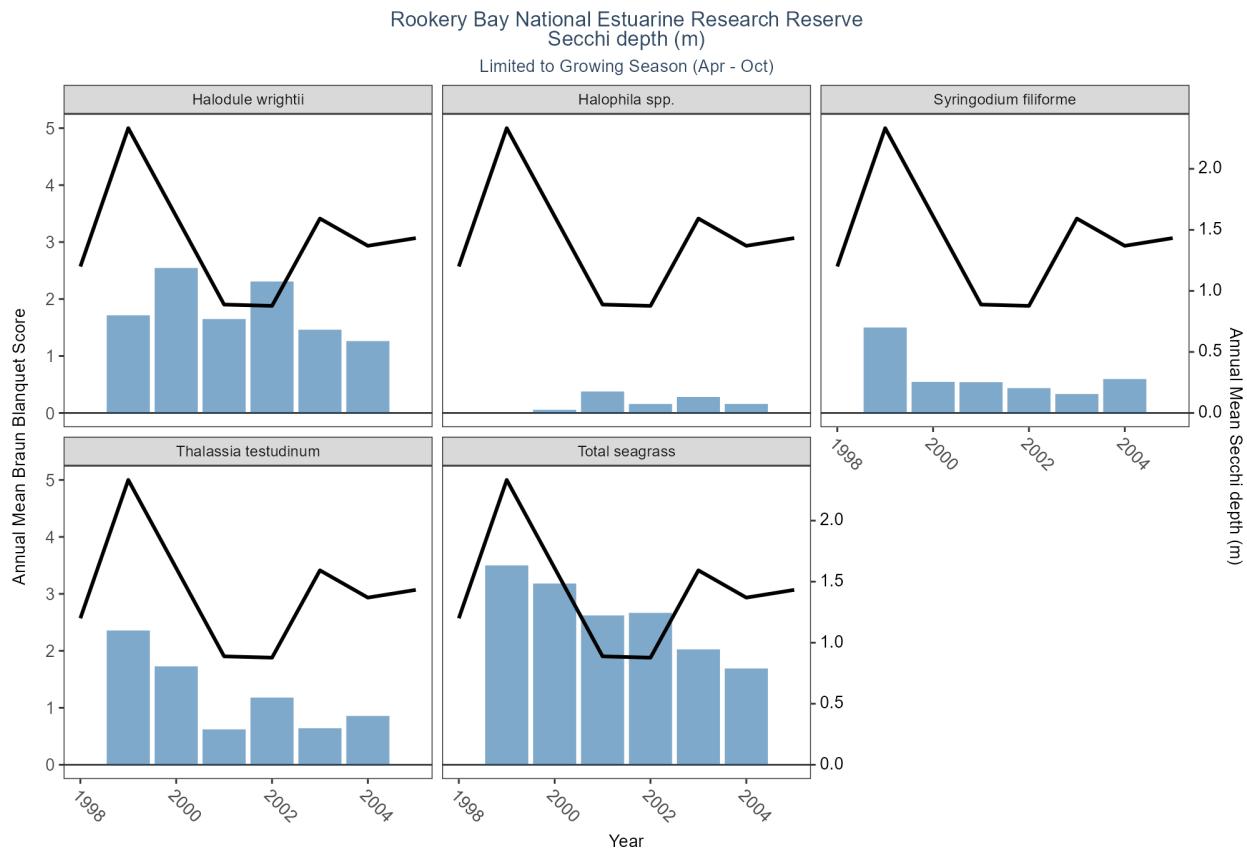


Table 530: WQ Summary for Secchi Depth in Rookery Bay National Estuarine Research Reserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	1998	1.200	1.200	1.200	1.200	0.000
Secchi depth	1999	2.333	2.500	2.000	2.500	0.289
Secchi depth	2001	0.888	0.762	0.305	3.500	0.459
Secchi depth	2002	0.877	0.760	0.480	1.200	0.273
Secchi depth	2003	1.593	1.524	0.823	2.500	0.666
Secchi depth	2004	1.369	1.219	0.610	2.530	0.373
Secchi depth	2005	1.433	1.372	0.762	2.134	0.333
Secchi depth	2006	1.146	1.067	0.300	2.438	0.539
Secchi depth	2007	1.733	1.570	1.158	3.658	0.662
Secchi depth	2008	1.385	1.219	1.067	2.225	0.365
Secchi depth	2009	1.470	1.524	1.006	1.829	0.198
Secchi depth	2010	1.030	1.067	0.300	1.981	0.370
Secchi depth	2011	1.193	1.219	0.914	1.676	0.268
Secchi depth	2015	0.961	0.900	0.500	2.100	0.427
Secchi depth	2016	0.949	0.914	0.700	1.200	0.149
Secchi depth	2017	0.400	0.400	0.300	0.500	0.100
Secchi depth	2020	1.250	1.050	1.000	1.900	0.436
Secchi depth	2021	1.122	1.000	0.200	3.600	0.610
Secchi depth	2022	1.079	1.000	0.200	2.400	0.495
Secchi depth	2023	1.049	0.900	0.300	2.300	0.529

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2024	0.958	0.850	0.600	1.700	0.320

Programs contributing WQ Data:

Table 531: Programs contributing WQ data for Secchi Depth in Rookery Bay National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	2001	2001	22
Secchi depth	103	2021	2021	38
Secchi depth	118	2015	2021	2
Secchi depth	514	2001	2016	179
Secchi depth	572	1998	2003	9
Secchi depth	5002	2002	2024	201

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

514 - Florida LAKEWATCH Program

572 - Rookery Bay National Estuarine Research Reserve Seagrass Monitoring

5002 - Florida STORET / WIN

Total Nitrogen & Total Phosphorus

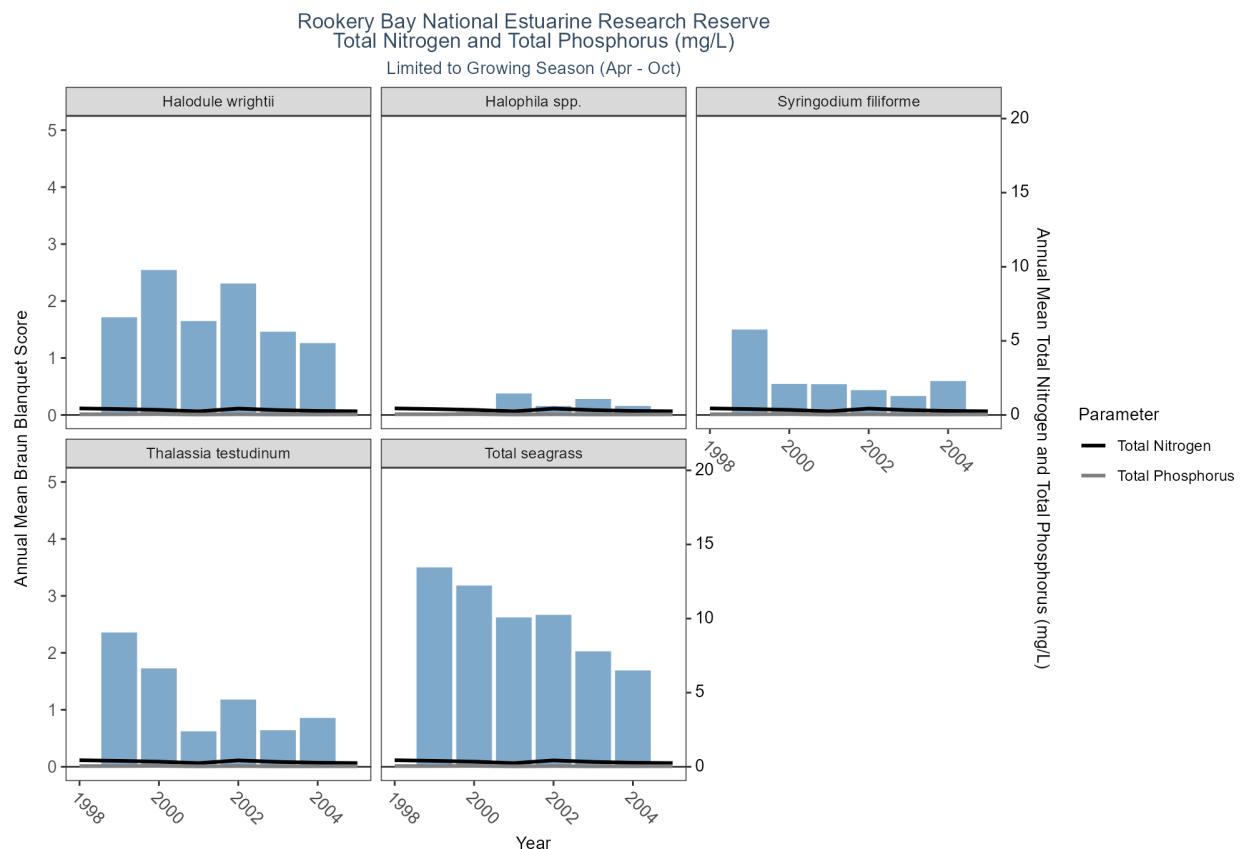


Table 532: WQ Summary for Total Nitrogen & Total Phosphorus in Rookery Bay National Estuarine Research Reserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	1998	0.442	0.414	0.309	0.955	0.109
Total Nitrogen	1999	0.399	0.380	0.158	0.879	0.133
Total Nitrogen	2000	0.342	0.334	0.137	0.649	0.101
Total Nitrogen	2001	0.244	0.253	0.000	0.671	0.184
Total Nitrogen	2002	0.429	0.329	0.000	2.911	0.384
Total Nitrogen	2003	0.327	0.350	0.000	0.847	0.166
Total Nitrogen	2004	0.272	0.305	0.000	0.758	0.162
Total Nitrogen	2005	0.248	0.260	0.000	0.951	0.158
Total Nitrogen	2006	0.264	0.231	0.000	1.930	0.251
Total Nitrogen	2007	0.281	0.272	0.000	0.906	0.166
Total Nitrogen	2008	0.267	0.280	0.000	1.174	0.168
Total Nitrogen	2009	0.185	0.145	0.000	0.560	0.191
Total Nitrogen	2010	0.182	0.230	0.000	0.704	0.194
Total Nitrogen	2011	0.207	0.130	0.000	0.700	0.222
Total Nitrogen	2012	0.915	0.934	0.698	1.109	0.140
Total Nitrogen	2013	0.683	0.689	0.415	1.105	0.157
Total Nitrogen	2014	19.219	0.643	0.314	1540.440	169.012
Total Nitrogen	2015	0.608	0.565	0.284	1.300	0.225
Total Nitrogen	2016	0.502	0.549	0.001	1.040	0.393

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2017	0.815	0.744	0.484	1.404	0.334
Total Nitrogen	2018	0.673	0.612	0.464	1.106	0.209
Total Nitrogen	2019	0.550	0.564	0.234	0.824	0.160
Total Nitrogen	2020	0.629	0.661	0.397	0.811	0.128
Total Nitrogen	2021	0.546	0.538	0.320	0.830	0.117
Total Nitrogen	2022	0.508	0.462	0.254	0.983	0.168
Total Nitrogen	2023	0.422	0.419	0.210	0.736	0.134
Total Nitrogen	2024	0.497	0.490	0.449	0.550	0.031
Total Phosphorus	1998	0.047	0.047	0.012	0.086	0.015
Total Phosphorus	1999	0.047	0.045	0.004	0.111	0.016
Total Phosphorus	2000	0.059	0.060	0.018	0.095	0.016
Total Phosphorus	2001	0.029	0.031	0.000	0.160	0.028
Total Phosphorus	2002	0.049	0.050	0.000	0.146	0.023
Total Phosphorus	2003	0.031	0.028	0.000	0.325	0.033
Total Phosphorus	2004	0.034	0.034	0.000	0.405	0.037
Total Phosphorus	2005	0.039	0.039	0.000	0.563	0.041
Total Phosphorus	2006	0.052	0.051	0.000	0.411	0.036
Total Phosphorus	2007	0.042	0.045	0.000	0.200	0.027
Total Phosphorus	2008	0.045	0.044	0.000	0.243	0.033
Total Phosphorus	2009	0.010	0.000	0.000	0.096	0.027
Total Phosphorus	2010	0.029	0.000	0.000	0.401	0.068
Total Phosphorus	2011	0.039	0.000	0.000	0.448	0.090
Total Phosphorus	2012	0.066	0.052	0.024	0.276	0.047
Total Phosphorus	2013	0.065	0.055	0.019	0.285	0.041
Total Phosphorus	2014	0.048	0.042	0.017	0.161	0.024
Total Phosphorus	2015	0.049	0.042	0.019	0.211	0.030
Total Phosphorus	2016	0.045	0.046	0.000	0.076	0.015
Total Phosphorus	2017	0.063	0.047	0.022	0.170	0.035
Total Phosphorus	2018	0.066	0.060	0.024	0.160	0.031
Total Phosphorus	2019	0.059	0.058	0.021	0.094	0.020
Total Phosphorus	2020	0.053	0.054	0.027	0.089	0.015
Total Phosphorus	2021	0.047	0.045	0.018	0.078	0.014
Total Phosphorus	2022	0.044	0.042	0.020	0.116	0.017
Total Phosphorus	2023	0.044	0.044	0.006	0.120	0.016
Total Phosphorus	2024	0.045	0.047	0.037	0.052	0.006

Programs contributing WQ Data:

Table 533: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Rookery Bay National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	118	2010	2010	1
Total Nitrogen	303	2022	2022	1
Total Nitrogen	354	2002	2015	587
Total Nitrogen	509	1994	2008	1622
Total Nitrogen	514	2001	2016	471
Total Nitrogen	5002	1989	2024	757
Total Phosphorus	103	2021	2021	54
Total Phosphorus	303	2022	2022	1

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Phosphorus	354	2002	2023	1206
Total Phosphorus	509	1994	2008	1604
Total Phosphorus	514	2001	2016	454
Total Phosphorus	5002	2002	2024	348

WQ Program names:

- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 303 - River, Estuary and Coastal Observing Network
- 354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
- 509 - SERC Water Quality Monitoring Network
- 514 - Florida LAKEWATCH Program
- 5002 - Florida STORET / WIN
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)

Total Suspended Solids

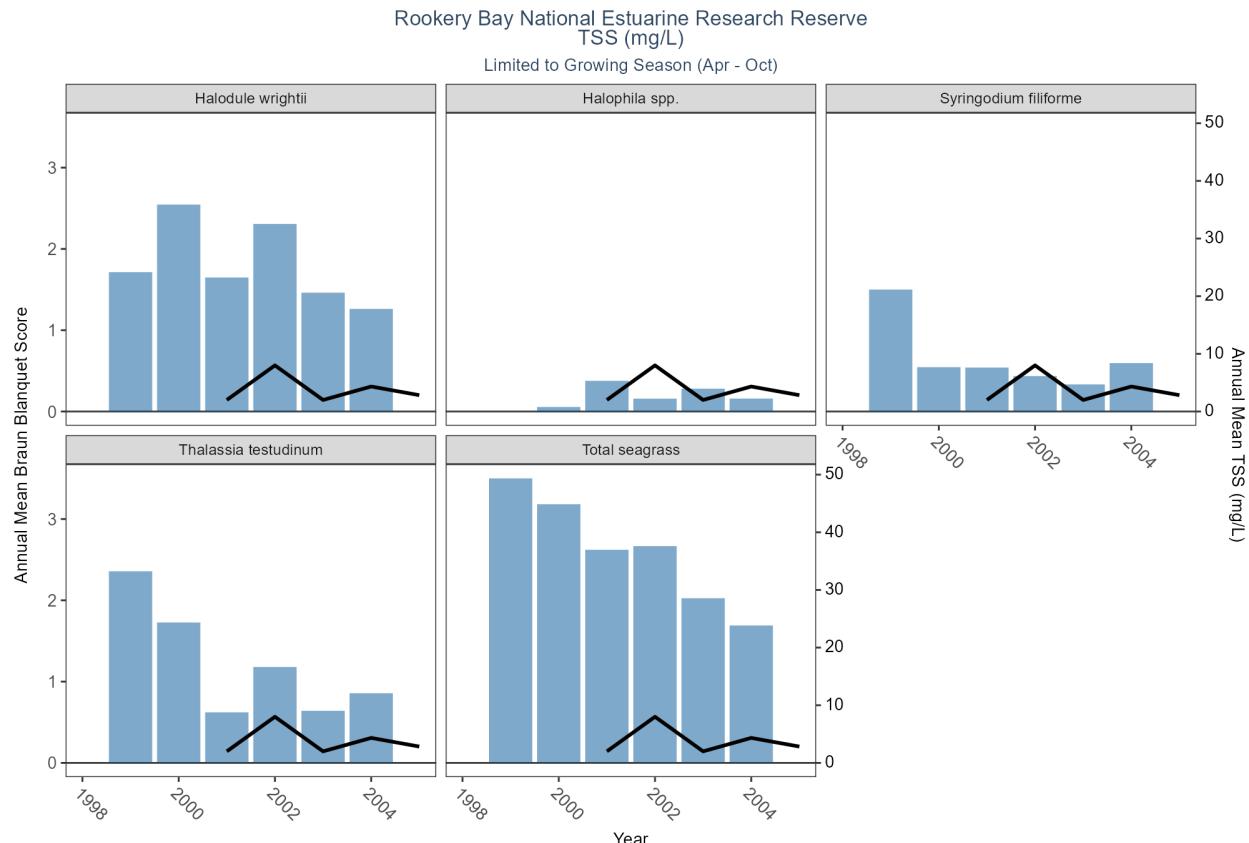


Table 534: WQ Summary for Total Suspended Solids in Rookery Bay National Estuarine Research Reserve

ParameterName	Year	mean	median	min	max	sd
TSS	2001	2.000	2.0	2	2	NA
TSS	2002	8.000	4.0	2	25	8.124

ParameterName	Year	mean	median	min	max	sd
TSS	2003	2.000	2.0	2	2	0.000
TSS	2004	4.333	3.5	2	8	2.582
TSS	2005	2.833	2.0	2	5	1.329
TSS	2006	4.571	2.0	2	12	4.158
TSS	2007	4.143	3.0	2	8	2.545
TSS	2008	4.429	5.0	2	9	2.637
TSS	2009	5.400	4.0	2	11	3.975
TSS	2010	5.583	5.0	3	12	2.746
TSS	2011	5.643	4.0	3	17	3.692
TSS	2012	6.000	6.0	3	15	3.282
TSS	2013	4.000	4.0	3	7	1.240
TSS	2014	6.667	5.0	3	16	4.292
TSS	2015	8.360	5.0	3	21	6.518
TSS	2016	11.219	12.0	3	28	5.460
TSS	2017	8.740	7.0	2	26	4.738
TSS	2018	6.620	6.0	2	19	3.819
TSS	2019	10.587	10.0	2	42	6.271
TSS	2020	8.575	9.0	3	16	3.672
TSS	2021	9.357	8.0	3	19	3.271
TSS	2022	8.971	8.0	2	36	5.738
TSS	2023	10.957	10.0	3	37	5.884

Programs contributing WQ Data:

Table 535: Programs contributing WQ data for Total Suspended Solids in Rookery Bay National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	354	2016	2023	533
TSS	5002	1989	2017	244

WQ Program names:

354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
 5002 - Florida STORET / WIN

Turbidity

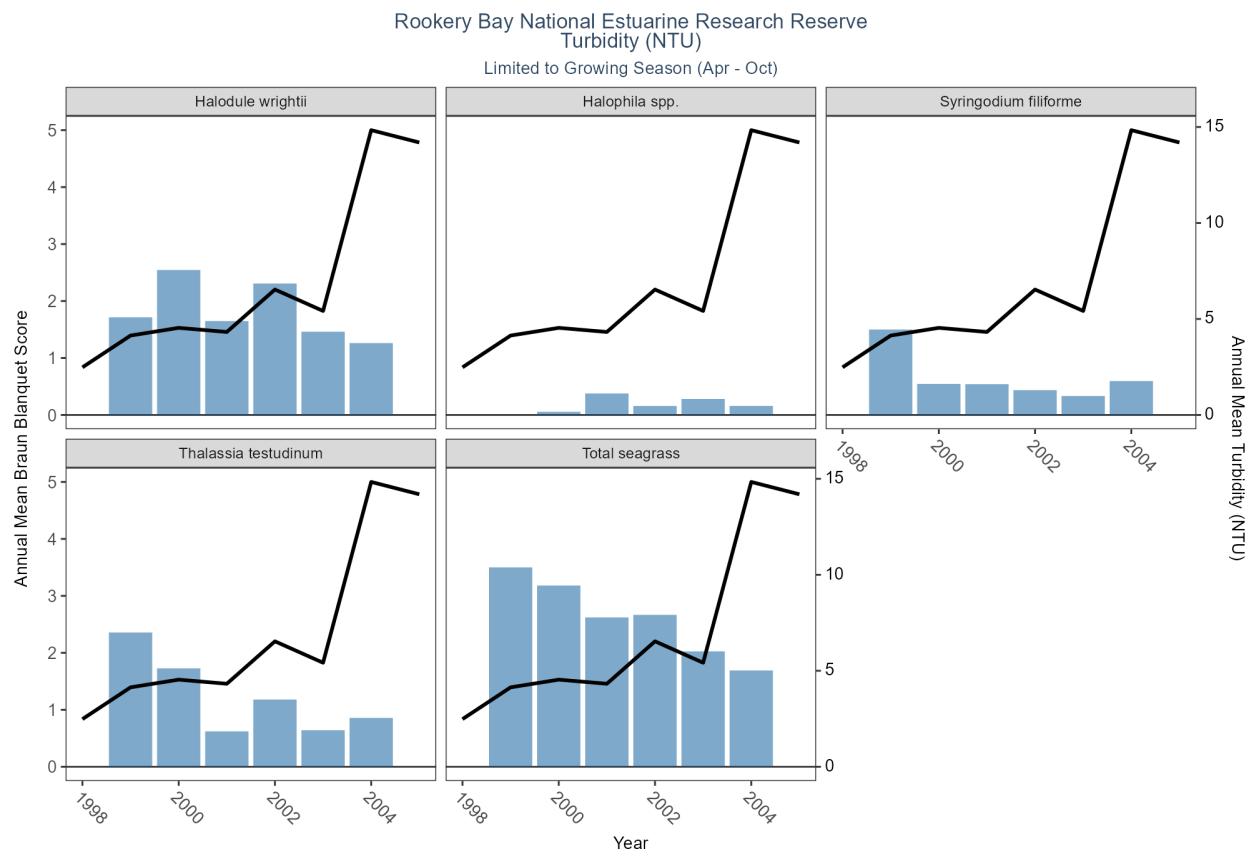


Table 536: WQ Summary for Turbidity in Rookery Bay National Estuarine Research Reserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	1998	2.482	2.000	0.20	11.760	2.068
Turbidity	1999	4.138	3.450	0.27	34.800	3.533
Turbidity	2000	4.537	4.105	0.00	18.890	3.358
Turbidity	2001	4.324	3.300	0.15	22.950	3.953
Turbidity	2002	6.535	5.300	0.30	89.800	7.356
Turbidity	2003	5.419	4.885	0.30	22.400	3.933
Turbidity	2004	14.837	6.160	1.20	237.000	39.455
Turbidity	2005	14.194	8.000	0.50	371.500	37.168
Turbidity	2006	8.241	6.485	1.40	60.300	7.069
Turbidity	2007	5.406	3.942	0.10	117.195	9.064
Turbidity	2008	6.467	5.965	0.80	16.500	3.257
Turbidity	2009	5.901	5.600	1.50	13.000	2.539
Turbidity	2010	4.842	4.500	1.50	9.300	1.765
Turbidity	2011	7.257	5.800	1.80	30.000	4.923
Turbidity	2012	7.160	6.500	4.80	9.700	2.268
Turbidity	2015	7.942	7.400	0.79	17.000	5.707
Turbidity	2016	7.300	6.100	5.00	12.000	3.202
Turbidity	2017	14.133	13.000	6.40	23.000	8.358
Turbidity	2019	4.914	5.700	2.00	6.900	1.978
Turbidity	2020	7.160	8.100	1.80	11.000	3.581

ParameterName	Year	mean	median	min	max	sd
Turbidity	2021	6.152	4.800	1.20	20.000	3.963
Turbidity	2022	8.019	6.800	2.20	30.300	6.345
Turbidity	2023	6.180	5.700	1.70	13.100	2.949
Turbidity	2024	9.917	9.700	5.70	14.500	2.714

Programs contributing WQ Data:

Table 537: Programs contributing WQ data for Turbidity in Rookery Bay National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	95	2011	2011	1
Turbidity	103	2021	2021	54
Turbidity	354	2002	2006	422
Turbidity	509	1994	2008	1621
Turbidity	572	2000	2003	6
Turbidity	5002	1989	2024	2216

WQ Program names:

95 - Harmful Algal Bloom Marine Observation Network

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program

509 - SERC Water Quality Monitoring Network

572 - Rookery Bay National Estuarine Research Reserve Seagrass Monitoring

5002 - Florida STORET / WIN

Water Temperature



Table 538: WQ Summary for Water Temperature in Rookery Bay National Estuarine Research Reserve

ParameterName	Year	mean	median	min	max	sd
Temperature	1998	28.605	28.700	22.50	33.80	2.463
Temperature	1999	29.209	28.900	22.80	32.60	2.004
Temperature	2000	27.920	29.000	21.40	32.60	2.830
Temperature	2001	28.814	29.600	20.60	38.40	3.141
Temperature	2002	29.067	29.400	20.67	33.60	1.969
Temperature	2003	29.021	29.900	16.82	33.11	2.658
Temperature	2004	27.912	28.690	20.00	33.50	2.946
Temperature	2005	28.374	29.380	20.66	33.80	3.122
Temperature	2006	28.199	28.480	23.03	37.96	2.550
Temperature	2007	28.570	29.535	21.47	33.59	3.035
Temperature	2008	28.417	29.200	20.90	35.60	2.495
Temperature	2009	28.290	28.900	21.20	32.20	2.234
Temperature	2010	28.853	29.400	20.00	33.80	3.129
Temperature	2011	29.266	29.200	22.80	37.00	2.169
Temperature	2012	28.966	29.600	4.40	34.00	2.653
Temperature	2013	29.589	30.700	23.80	34.00	2.551
Temperature	2014	28.376	29.200	22.00	32.50	2.379
Temperature	2015	27.474	29.000	22.30	35.00	3.187
Temperature	2016	29.276	29.800	23.50	34.00	2.110
Temperature	2017	28.734	29.300	20.00	33.20	3.214

ParameterName	Year	mean	median	min	max	sd
Temperature	2018	29.664	29.700	24.10	33.00	1.874
Temperature	2019	29.229	29.600	26.20	32.30	1.503
Temperature	2020	29.221	29.500	25.20	32.00	1.691
Temperature	2021	28.747	29.350	25.30	31.40	1.804
Temperature	2022	28.537	28.800	25.50	30.90	1.711
Temperature	2023	30.076	30.300	23.50	32.90	1.823
Temperature	2024	29.733	29.700	29.50	30.10	0.192

Programs contributing WQ Data:

Table 539: Programs contributing WQ data for Water Temperature in Rookery Bay National Estuarine Research Reserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	2001	2001	22
Temperature	95	1954	2018	722
Temperature	103	2021	2021	57
Temperature	118	2015	2021	9
Temperature	354	2002	2014	748
Temperature	509	1994	2008	3177
Temperature	572	1998	2005	48
Temperature	4043	2000	2020	1805
Temperature	5002	1989	2024	3606

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 354 - Rookery Bay National Estuarine Research Reserve System-Wide Monitoring Program
- 509 - SERC Water Quality Monitoring Network
- 572 - Rookery Bay National Estuarine Research Reserve Seagrass Monitoring
- 4043 - RBNERR Fish Assessment
- 5002 - Florida STORET / WIN

St. Andrews State Park Aquatic Preserve

Programs contributing SAV Data:

Table 540: Programs contributing SAV data in St. Andrews State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Braun Blanquet Score	557	2016	2023	703
Percent Cover	556	2000	2007	1652

SAV Program names:

557 - Central Panhandle Aquatic Preserves Seagrass Monitoring

556 - St. Andrew Bay Aquatic Preserve Seagrass Monitoring

Chlorophyll-a (corrected & uncorrected)

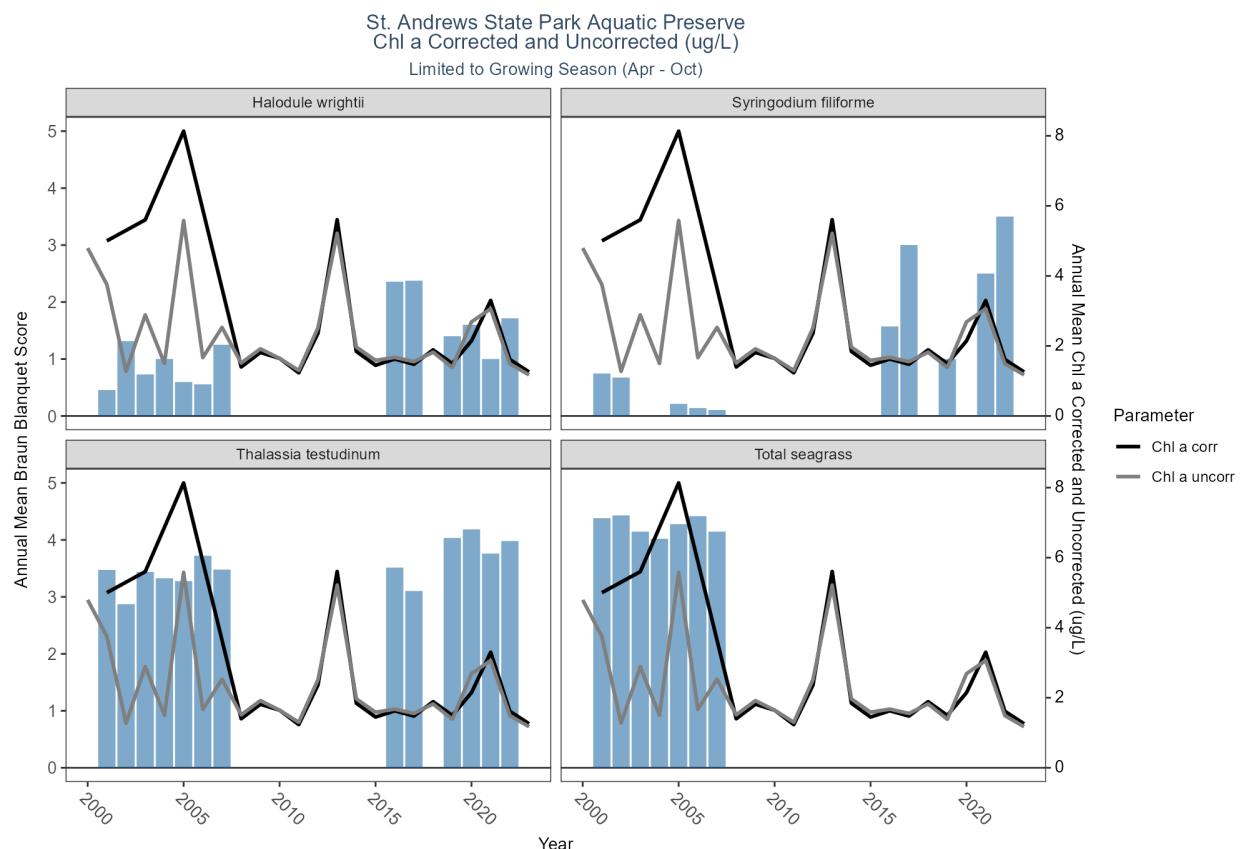


Table 541: WQ Summary for Chlorophyll-a (corrected & uncorrected) in St. Andrews State Park Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2001	5.000	5.000	5.000	5.000	0.000
Chl a corr	2003	5.600	5.600	5.600	5.600	0.000
Chl a corr	2005	8.133	9.100	5.900	9.400	1.735

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2008	1.399	1.350	0.630	3.200	0.565
Chl a corr	2009	1.814	1.450	0.600	8.100	1.313
Chl a corr	2010	1.645	1.350	0.620	5.000	1.043
Chl a corr	2011	1.233	1.000	0.550	3.700	0.612
Chl a corr	2012	2.363	1.900	0.550	6.900	1.820
Chl a corr	2013	5.605	1.600	0.680	39.000	8.605
Chl a corr	2014	1.844	1.500	0.000	5.500	1.184
Chl a corr	2015	1.448	1.200	0.000	5.000	0.787
Chl a corr	2016	1.627	1.300	0.000	5.000	1.081
Chl a corr	2017	1.477	1.400	0.640	2.900	0.589
Chl a corr	2018	1.887	1.400	0.550	9.800	1.641
Chl a corr	2019	1.496	1.100	0.820	7.600	1.197
Chl a corr	2020	2.144	1.350	1.000	6.400	1.588
Chl a corr	2021	3.298	1.500	0.830	17.000	4.500
Chl a corr	2022	1.613	1.250	0.960	3.600	0.724
Chl a corr	2023	1.256	1.000	0.820	2.000	0.371
Chl a corr	2024	1.150	1.150	1.000	1.300	0.173
Chl a uncorr	2000	4.794	5.000	1.915	5.000	0.778
Chl a uncorr	2001	3.753	5.000	0.000	5.000	1.759
Chl a uncorr	2002	1.275	1.275	1.275	1.275	0.000
Chl a uncorr	2003	2.887	2.235	1.000	7.000	2.162
Chl a uncorr	2004	1.500	1.000	0.000	4.000	1.160
Chl a uncorr	2005	5.580	4.500	1.000	18.000	4.340
Chl a uncorr	2006	1.667	1.000	1.000	4.000	1.231
Chl a uncorr	2007	2.529	1.550	0.400	12.400	3.117
Chl a uncorr	2008	1.512	1.400	0.520	5.000	0.743
Chl a uncorr	2009	1.917	1.600	0.530	9.100	1.440
Chl a uncorr	2010	1.645	1.450	0.440	5.400	1.059
Chl a uncorr	2011	1.299	1.050	0.540	3.700	0.672
Chl a uncorr	2012	2.515	2.000	0.400	9.000	2.101
Chl a uncorr	2013	5.217	1.600	0.560	41.000	8.518
Chl a uncorr	2014	1.968	1.600	0.780	6.000	1.268
Chl a uncorr	2015	1.586	1.400	0.920	5.000	0.839
Chl a uncorr	2016	1.675	1.200	0.490	7.000	1.241
Chl a uncorr	2017	1.551	1.400	0.530	3.200	0.675
Chl a uncorr	2018	1.821	1.300	0.000	10.000	1.667
Chl a uncorr	2019	1.385	1.000	0.600	8.100	1.278
Chl a uncorr	2020	2.688	1.400	1.000	7.800	2.104
Chl a uncorr	2021	3.062	1.300	0.000	18.000	4.579
Chl a uncorr	2022	1.489	1.100	0.700	3.600	0.780
Chl a uncorr	2023	1.172	1.000	0.600	2.000	0.470
Chl a uncorr	2024	0.955	0.955	0.810	1.100	0.167

Programs contributing WQ Data:

Table 542: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in St. Andrews State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	470	2001	2024	870
Chl a corr	514	2019	2023	49

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	5002	2011	2016	50
Chl a uncorr	103	2000	2021	62
Chl a uncorr	115	2000	2003	4
Chl a uncorr	470	2000	2024	930
Chl a uncorr	514	1990	2023	281
Chl a uncorr	5002	2011	2012	14

WQ Program names:

470 - St. Andrews Aquatic Preserve Water Quality Monitoring

514 - Florida LAKEWATCH Program

5002 - Florida STORET / WIN

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

115 - Environmental Monitoring Assessment Program

Colored Dissolved Organic Matter

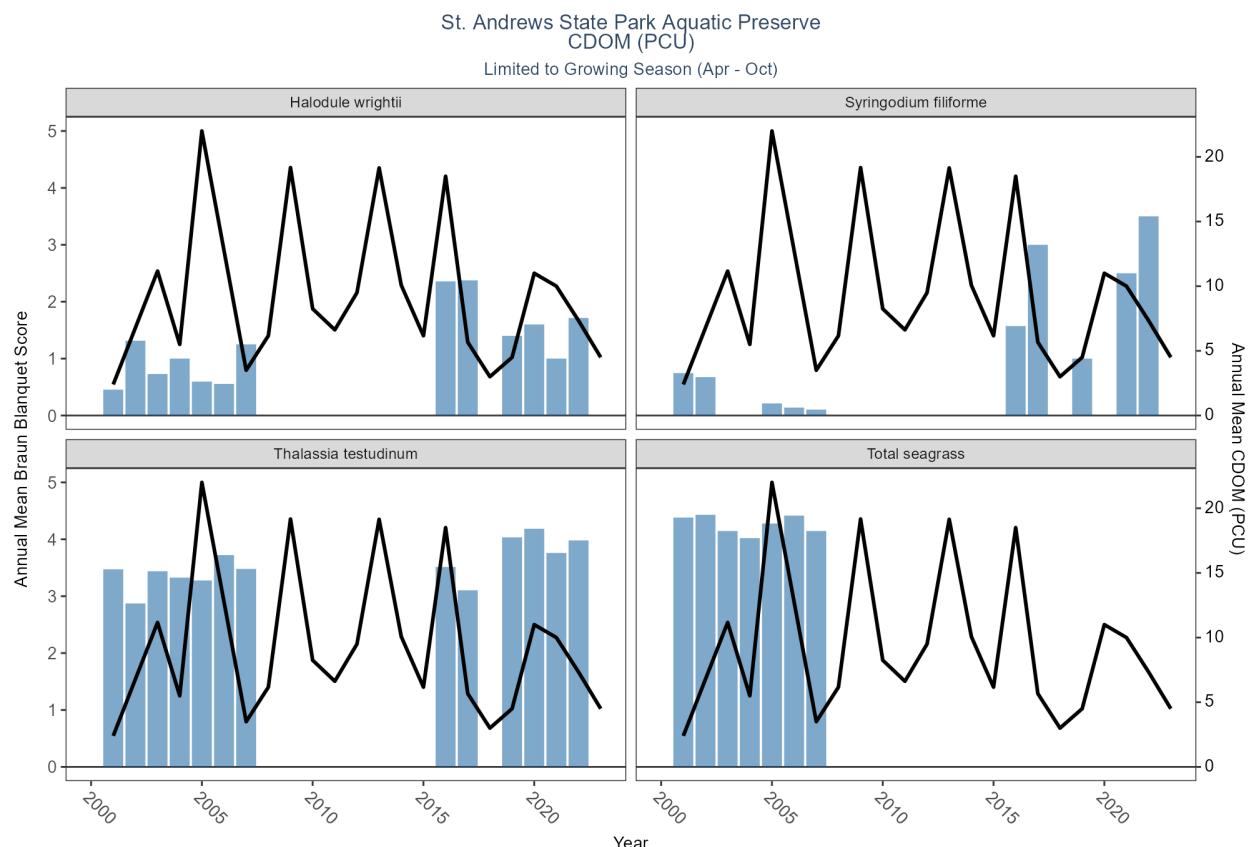


Table 543: WQ Summary for Colored Dissolved Organic Matter in St. Andrews State Park Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
CDOM	2001	2.400	2.0	0	7	2.119
CDOM	2003	11.167	7.0	4	35	11.754

ParameterName	Year	mean	median	min	max	sd
CDOM	2004	5.500	5.0	5	7	0.837
CDOM	2005	22.000	22.0	5	39	24.042
CDOM	2007	3.500	3.0	1	8	2.510
CDOM	2008	6.167	6.5	4	8	1.472
CDOM	2009	19.167	9.5	3	45	19.031
CDOM	2010	8.250	8.5	6	10	2.062
CDOM	2011	6.625	6.0	3	11	2.446
CDOM	2012	9.500	8.0	5	15	3.928
CDOM	2013	19.143	13.0	1	56	20.756
CDOM	2014	10.071	6.0	3	43	10.381
CDOM	2015	6.167	6.0	5	8	1.169
CDOM	2016	18.500	7.0	5	55	24.365
CDOM	2017	5.667	6.0	5	6	0.577
CDOM	2018	3.000	3.0	2	4	1.414
CDOM	2019	4.500	3.0	2	10	3.423
CDOM	2020	11.000	12.0	3	18	6.403
CDOM	2021	10.000	10.0	10	10	0.000
CDOM	2022	7.333	8.0	1	11	3.386
CDOM	2023	4.500	4.5	4	5	0.707

Programs contributing WQ Data:

Table 544: Programs contributing WQ data for Colored Dissolved Organic Matter in St. Andrews State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
CDOM	103	2021	2021	3
CDOM	514	2001	2023	122

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

514 - Florida LAKEWATCH Program

Dissolved Oxygen

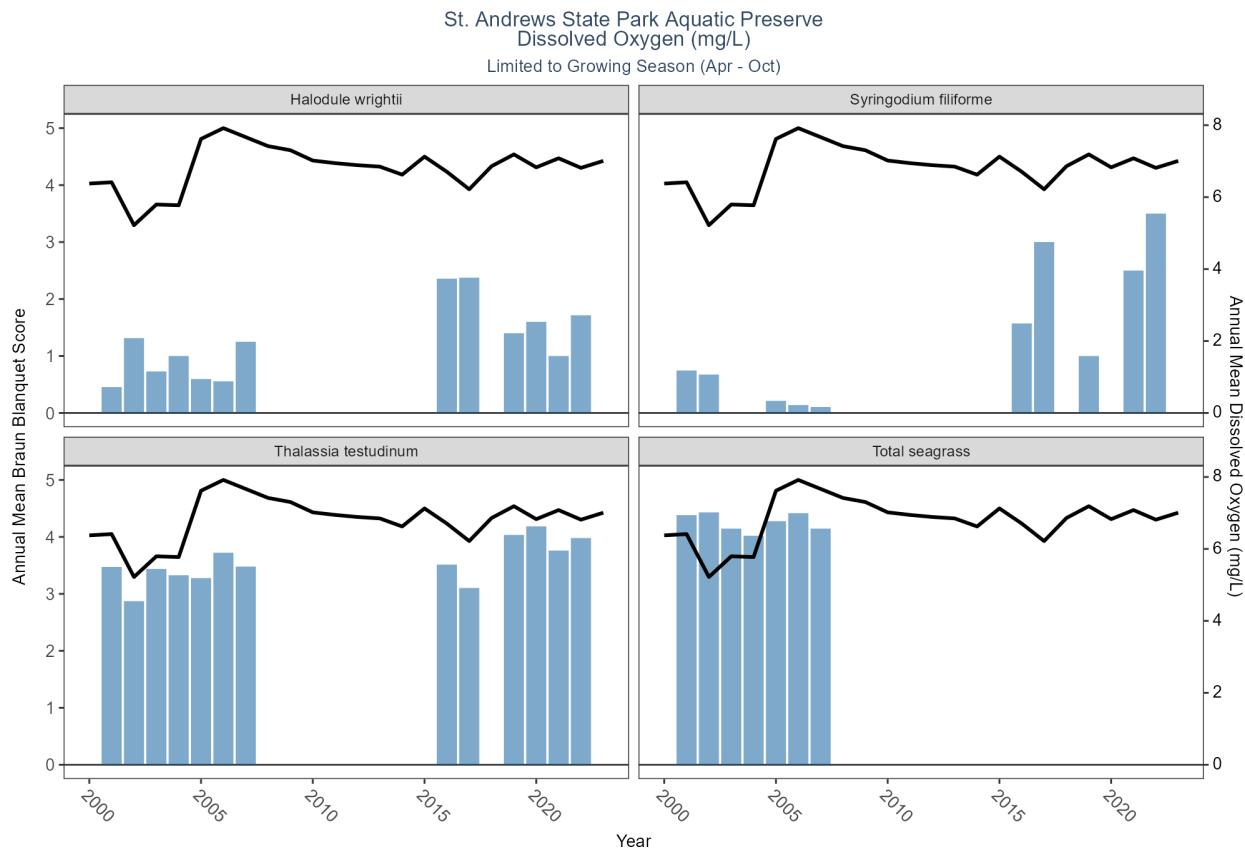


Table 545: WQ Summary for Dissolved Oxygen in St. Andrews State Park Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2000	6.377	6.460	3.20	9.30	1.432
Dissolved Oxygen	2001	6.413	6.350	3.91	8.40	1.184
Dissolved Oxygen	2002	5.220	5.200	4.80	5.50	0.253
Dissolved Oxygen	2003	5.795	6.050	4.04	6.98	0.904
Dissolved Oxygen	2004	5.774	5.820	5.32	6.20	0.369
Dissolved Oxygen	2005	7.618	8.165	4.00	10.37	1.472
Dissolved Oxygen	2006	7.918	7.710	6.91	9.87	0.789
Dissolved Oxygen	2008	7.417	7.200	5.80	9.56	1.018
Dissolved Oxygen	2009	7.304	7.400	5.64	11.29	0.986
Dissolved Oxygen	2010	7.017	6.930	3.83	10.70	1.311
Dissolved Oxygen	2011	6.945	7.165	3.10	10.75	1.572
Dissolved Oxygen	2012	6.888	7.075	1.53	9.42	1.179
Dissolved Oxygen	2013	6.848	7.100	1.69	10.10	1.531
Dissolved Oxygen	2014	6.624	6.700	3.80	10.40	1.295
Dissolved Oxygen	2015	7.126	7.000	2.40	9.70	1.197
Dissolved Oxygen	2016	6.705	6.550	4.10	10.50	0.951
Dissolved Oxygen	2017	6.218	6.500	0.30	9.03	1.414
Dissolved Oxygen	2018	6.860	6.740	1.58	11.50	1.218
Dissolved Oxygen	2019	7.188	7.100	2.70	10.42	1.119

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2020	6.828	6.675	5.41	8.68	0.764
Dissolved Oxygen	2021	7.080	7.170	3.60	9.84	0.916
Dissolved Oxygen	2022	6.813	7.000	4.44	8.60	0.972
Dissolved Oxygen	2023	7.007	6.890	4.41	10.54	0.824
Dissolved Oxygen	2024	7.700	7.700	7.63	7.77	0.081

Programs contributing WQ Data:

Table 546: Programs contributing WQ data for Dissolved Oxygen in St. Andrews State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	2001	2022	678
Dissolved Oxygen	95	1996	2018	438
Dissolved Oxygen	103	2003	2021	26
Dissolved Oxygen	115	2000	2003	17
Dissolved Oxygen	470	2000	2024	940
Dissolved Oxygen	557	2016	2023	315
Dissolved Oxygen	5002	2005	2023	315

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 470 - St. Andrews Aquatic Preserve Water Quality Monitoring
- 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
- 5002 - Florida STORET / WIN

Dissolved Oxygen Saturation

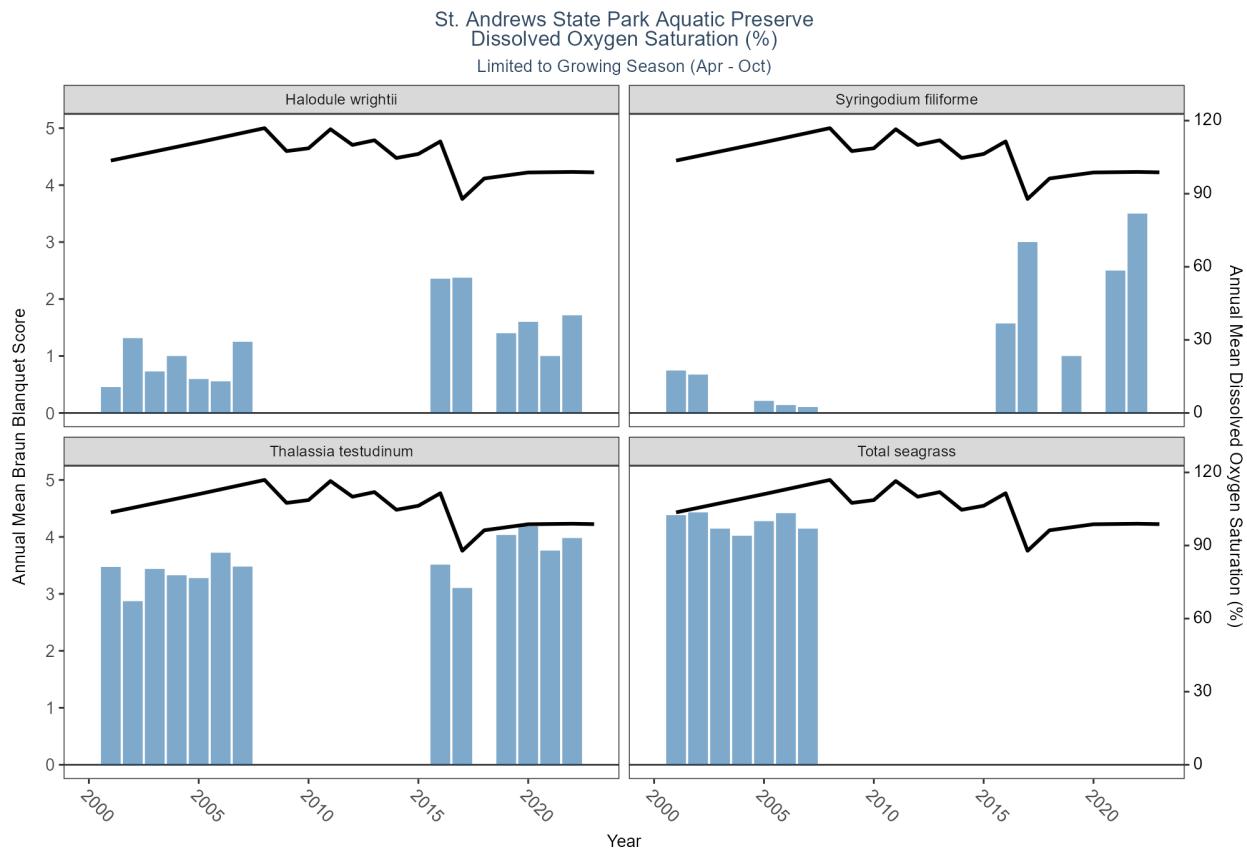


Table 547: WQ Summary for Dissolved Oxygen Saturation in St. Andrews State Park Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2001	103.606	97.40	76.5	137.6	16.090
Dissolved Oxygen Saturation	2005	111.100	111.10	111.1	111.1	NA
Dissolved Oxygen Saturation	2008	116.920	111.20	103.8	146.8	16.091
Dissolved Oxygen Saturation	2009	107.489	102.45	87.2	173.7	16.384
Dissolved Oxygen Saturation	2010	108.652	105.40	78.2	140.8	17.896
Dissolved Oxygen Saturation	2011	116.468	114.40	87.9	153.7	15.083
Dissolved Oxygen Saturation	2012	110.031	108.30	88.7	145.9	11.192
Dissolved Oxygen Saturation	2013	111.940	110.80	100.3	135.2	7.635
Dissolved Oxygen Saturation	2014	104.669	107.85	74.2	134.1	14.657
Dissolved Oxygen Saturation	2015	106.310	103.05	35.2	152.7	19.316
Dissolved Oxygen Saturation	2016	111.467	108.00	91.9	164.0	18.071
Dissolved Oxygen Saturation	2017	87.842	97.70	4.7	107.4	21.341
Dissolved Oxygen Saturation	2018	96.254	99.10	24.6	114.9	14.808
Dissolved Oxygen Saturation	2020	98.722	99.60	91.6	107.3	3.432
Dissolved Oxygen Saturation	2022	98.943	100.00	75.6	108.3	6.640
Dissolved Oxygen Saturation	2023	98.775	100.30	70.1	103.6	6.506

Programs contributing WQ Data:

Table 548: Programs contributing WQ data for Dissolved Oxygen Saturation in St. Andrews State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	95	2015	2018	134
Dissolved Oxygen Saturation	470	2001	2015	420
Dissolved Oxygen Saturation	5002	2005	2023	186

WQ Program names:

95 - Harmful Algal Bloom Marine Observation Network

470 - St. Andrews Aquatic Preserve Water Quality Monitoring

5002 - Florida STORET / WIN

pH

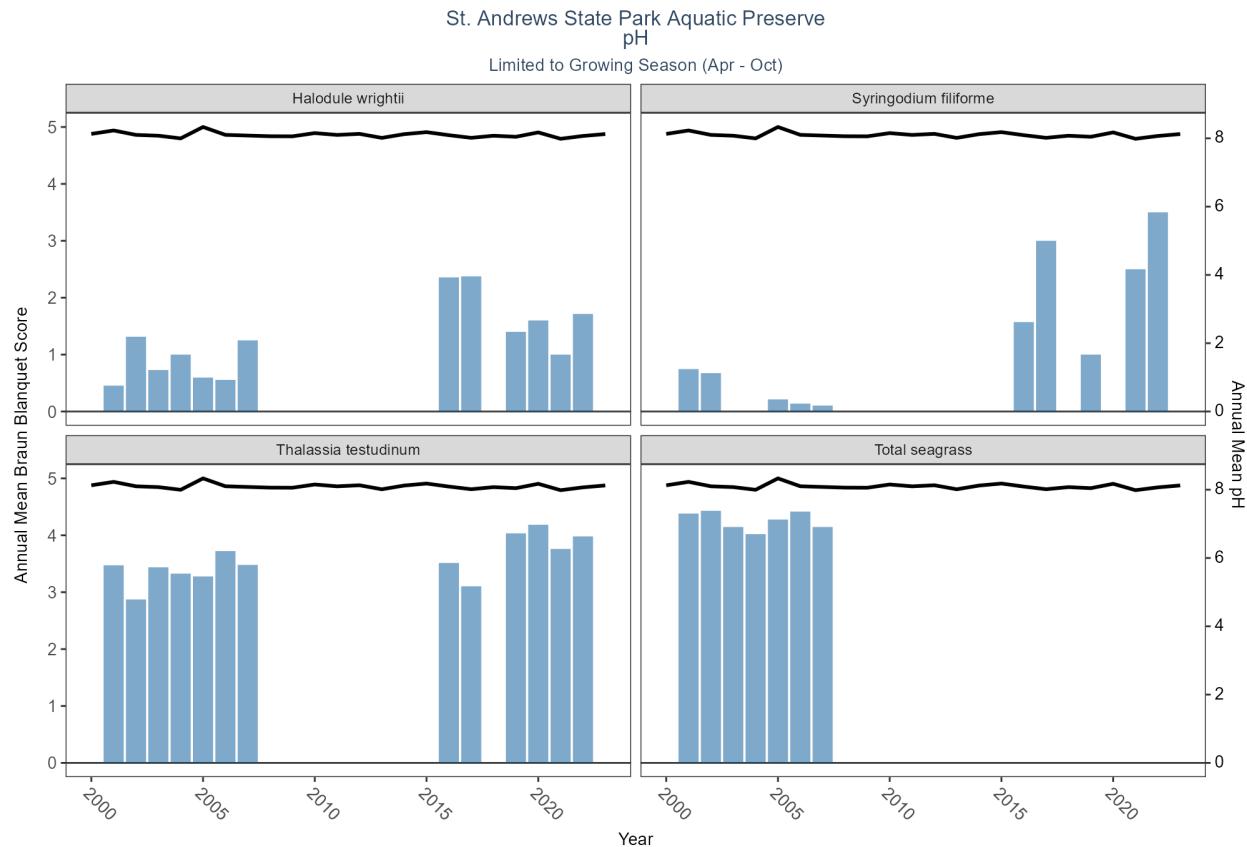


Table 549: WQ Summary for pH in St. Andrews State Park Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	2000	8.129	8.195	7.80	8.50	0.195
pH	2001	8.230	8.200	7.90	8.70	0.217
pH	2002	8.100	8.100	8.10	8.10	0.000
pH	2003	8.076	8.065	7.74	9.01	0.233
pH	2004	7.998	7.970	7.85	8.17	0.141

ParameterName	Year	mean	median	min	max	sd
pH	2005	8.332	8.355	7.99	8.43	0.095
pH	2006	8.101	8.070	8.03	8.32	0.087
pH	2008	8.061	8.100	7.90	8.34	0.127
pH	2009	8.058	8.100	7.76	8.32	0.143
pH	2010	8.153	8.200	7.72	8.45	0.151
pH	2011	8.099	8.100	7.63	8.38	0.132
pH	2012	8.130	8.100	6.70	8.69	0.223
pH	2013	8.013	8.090	7.17	8.50	0.224
pH	2014	8.122	8.160	6.97	8.60	0.210
pH	2015	8.181	8.200	7.84	8.50	0.127
pH	2016	8.092	8.070	7.68	8.60	0.165
pH	2017	8.015	8.000	7.30	8.50	0.185
pH	2018	8.076	8.060	7.77	8.40	0.149
pH	2019	8.045	8.060	7.62	8.40	0.145
pH	2020	8.173	8.150	7.72	9.38	0.376
pH	2021	7.986	8.040	7.18	8.80	0.224
pH	2022	8.069	8.030	7.16	8.76	0.224
pH	2023	8.125	8.110	7.96	8.30	0.065
pH	2024	8.065	8.065	8.05	8.08	0.017

Programs contributing WQ Data:

Table 550: Programs contributing WQ data for pH in St. Andrews State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	2001	2022	653
pH	95	1998	2018	407
pH	103	2021	2021	24
pH	115	2000	2003	17
pH	470	2000	2024	968
pH	557	2016	2023	228
pH	5002	2005	2023	312

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 470 - St. Andrews Aquatic Preserve Water Quality Monitoring
- 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
- 5002 - Florida STORET / WIN

Salinity

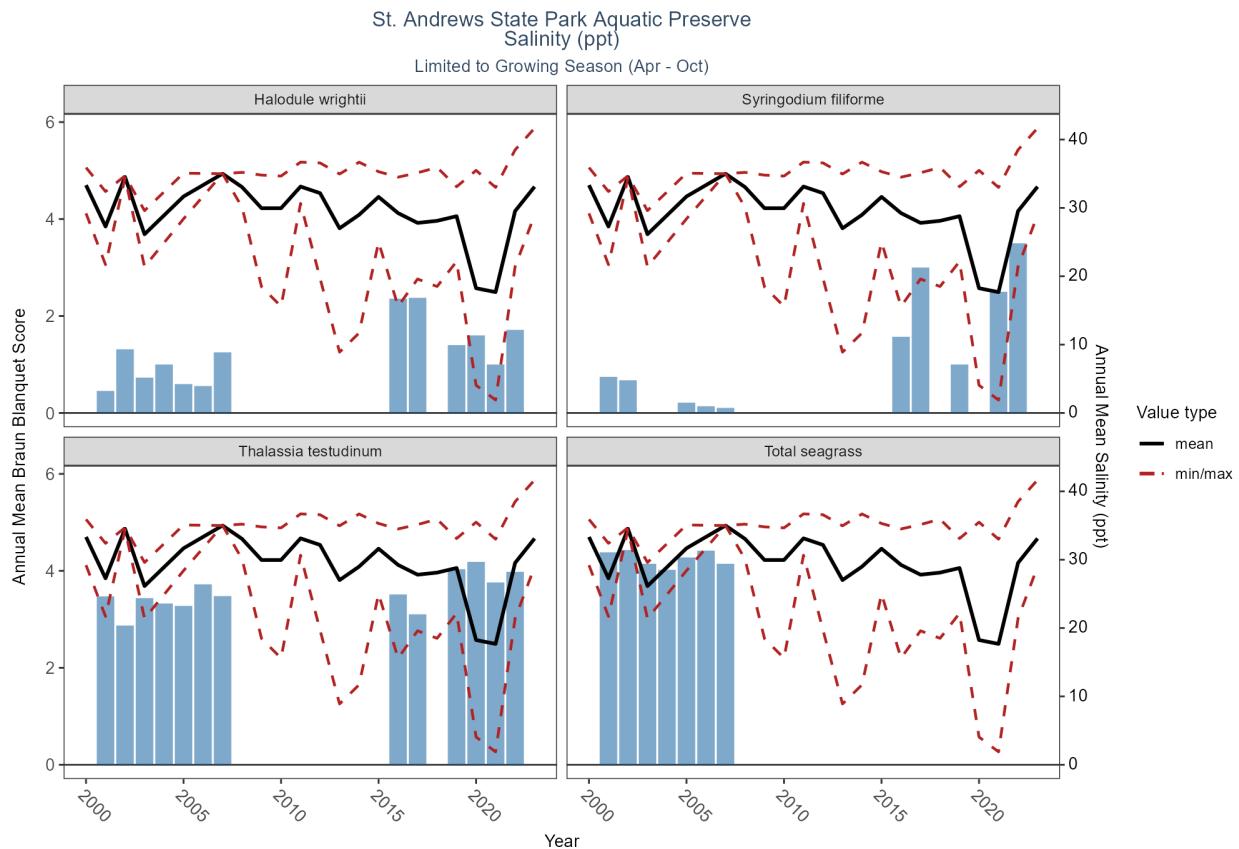


Table 551: WQ Summary for Salinity in St. Andrews State Park Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	2000	33.329	34.270	29.20	35.90	1.954
Salinity	2001	27.282	27.855	21.70	32.40	3.523
Salinity	2002	34.520	34.500	34.40	34.70	0.103
Salinity	2003	26.146	27.200	21.40	29.60	3.511
Salinity	2005	31.673	32.000	28.40	35.08	2.397
Salinity	2007	35.000	35.000	35.00	35.00	NA
Salinity	2008	33.049	33.300	30.10	35.20	1.216
Salinity	2009	29.957	30.990	18.45	34.80	3.671
Salinity	2010	29.956	30.700	15.60	34.66	3.571
Salinity	2011	33.123	33.035	30.65	36.70	1.278
Salinity	2012	32.162	32.870	19.71	36.58	3.362
Salinity	2013	27.018	30.090	8.90	34.96	7.273
Salinity	2014	28.990	30.500	11.70	36.69	4.514
Salinity	2015	31.611	31.900	25.00	35.30	2.427
Salinity	2016	29.239	30.100	15.60	34.50	3.885
Salinity	2017	27.807	28.700	19.60	35.14	3.688
Salinity	2018	28.111	28.400	18.50	35.93	3.844
Salinity	2019	28.786	28.800	22.17	33.10	2.235
Salinity	2020	18.246	6.820	4.06	35.49	12.685

ParameterName	Year	mean	median	min	max	sd
Salinity	2021	17.684	20.550	1.89	33.00	10.267
Salinity	2022	29.536	29.500	21.41	38.49	3.636
Salinity	2023	33.107	31.700	28.97	41.67	4.107

Programs contributing WQ Data:

Table 552: Programs contributing WQ data for Salinity in St. Andrews State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	2001	2022	679
Salinity	95	1974	2018	512
Salinity	103	2003	2003	3
Salinity	115	2000	2003	17
Salinity	470	2000	2017	524
Salinity	557	2016	2023	300
Salinity	5002	2005	2023	319

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 470 - St. Andrews Aquatic Preserve Water Quality Monitoring
- 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
- 5002 - Florida STORET / WIN

Secchi Depth

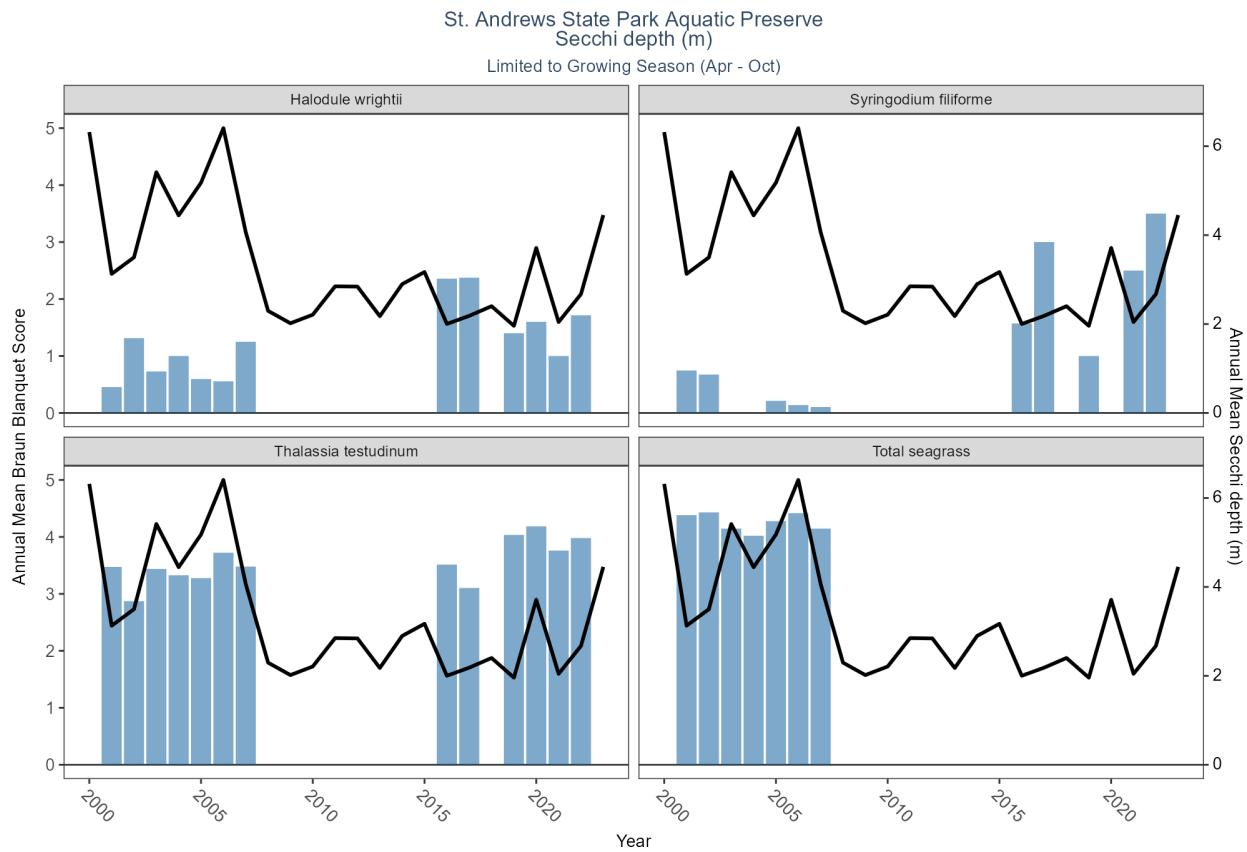


Table 553: WQ Summary for Secchi Depth in St. Andrews State Park Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2000	6.318	6.000	3.000	10.000	2.513
Secchi depth	2001	3.128	1.900	1.829	9.449	2.312
Secchi depth	2002	3.500	3.500	3.500	3.500	0.000
Secchi depth	2003	5.415	5.000	1.700	9.500	2.142
Secchi depth	2004	4.444	3.905	2.896	9.144	1.842
Secchi depth	2005	5.180	5.500	1.219	9.500	1.967
Secchi depth	2006	6.407	6.000	2.286	10.000	2.018
Secchi depth	2007	4.068	3.658	2.438	7.925	1.626
Secchi depth	2008	2.297	1.700	0.900	8.535	1.529
Secchi depth	2009	2.017	1.600	0.900	6.096	0.918
Secchi depth	2010	2.211	1.700	1.000	5.791	1.199
Secchi depth	2011	2.849	1.800	1.000	13.400	2.161
Secchi depth	2012	2.842	1.800	0.900	24.000	3.137
Secchi depth	2013	2.177	1.850	0.600	5.791	1.064
Secchi depth	2014	2.897	1.800	1.000	7.620	2.047
Secchi depth	2015	3.171	2.743	1.000	6.706	1.732
Secchi depth	2016	2.002	1.700	0.700	8.839	1.272
Secchi depth	2017	2.184	1.600	0.300	6.096	1.507
Secchi depth	2018	2.402	1.600	0.400	8.230	1.855

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2019	1.960	1.400	0.800	8.230	1.538
Secchi depth	2020	3.712	3.658	0.800	8.534	2.198
Secchi depth	2021	2.045	1.750	1.200	8.230	1.156
Secchi depth	2022	2.673	1.800	1.000	7.620	1.766
Secchi depth	2023	4.452	5.182	0.900	7.620	2.436

Programs contributing WQ Data:

Table 554: Programs contributing WQ data for Secchi Depth in St. Andrews State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	2001	2022	678
Secchi depth	115	2000	2002	3
Secchi depth	470	2000	2015	442
Secchi depth	514	1991	2023	283
Secchi depth	557	2016	2023	150
Secchi depth	5002	2010	2023	288

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 115 - Environmental Monitoring Assessment Program
- 470 - St. Andrews Aquatic Preserve Water Quality Monitoring
- 514 - Florida LAKEWATCH Program
- 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
- 5002 - Florida STORET / WIN

Total Nitrogen & Total Phosphorus

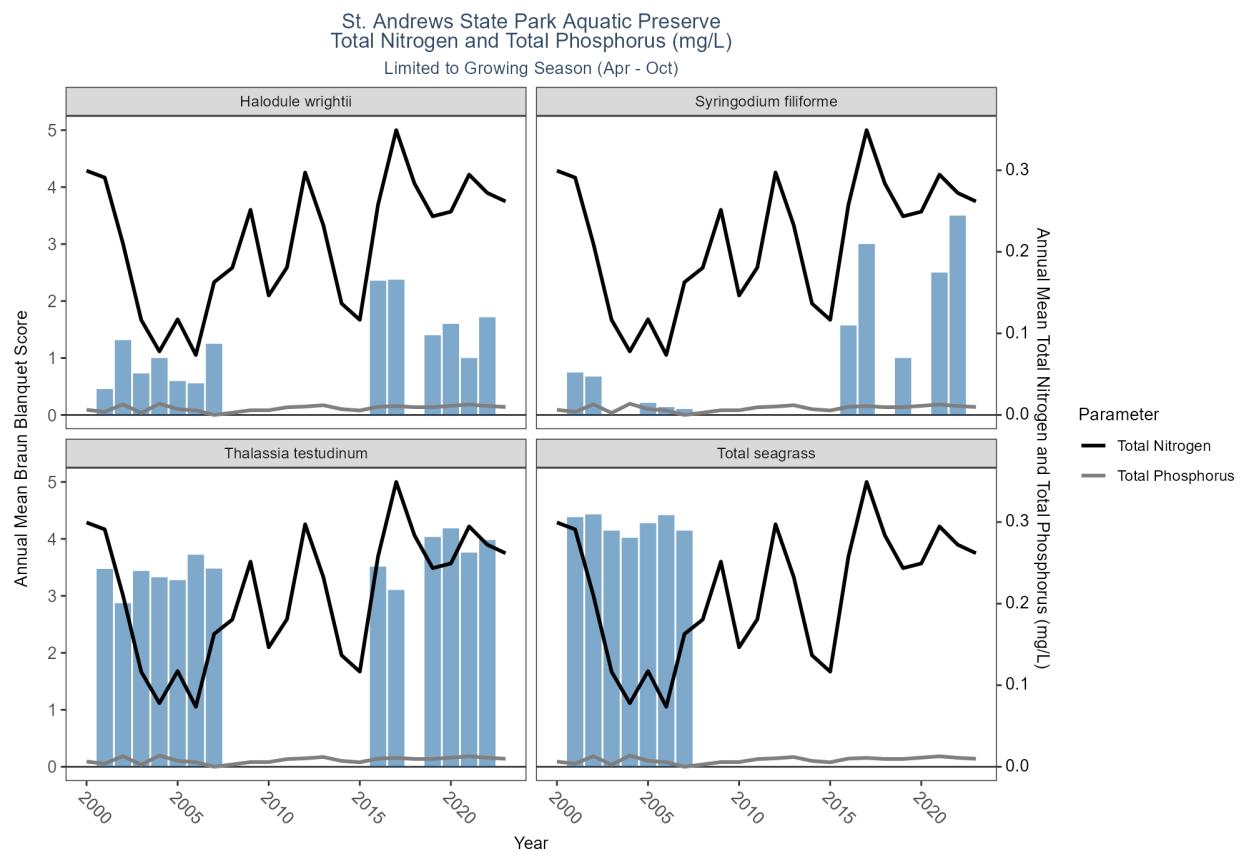


Table 555: WQ Summary for Total Nitrogen & Total Phosphorus in St. Andrews State Park Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2000	0.299	0.320	0.161	0.360	0.059
Total Nitrogen	2001	0.291	0.335	0.000	0.720	0.180
Total Nitrogen	2002	0.210	0.210	0.210	0.210	0.000
Total Nitrogen	2003	0.117	0.150	0.000	0.380	0.113
Total Nitrogen	2004	0.078	0.050	0.000	0.210	0.083
Total Nitrogen	2005	0.117	0.075	0.000	0.350	0.127
Total Nitrogen	2006	0.074	0.055	0.000	0.260	0.081
Total Nitrogen	2007	0.163	0.175	0.000	0.505	0.157
Total Nitrogen	2008	0.180	0.180	0.000	0.437	0.166
Total Nitrogen	2009	0.251	0.275	0.000	0.585	0.201
Total Nitrogen	2010	0.146	0.205	0.000	0.380	0.129
Total Nitrogen	2011	0.181	0.205	0.000	0.387	0.118
Total Nitrogen	2012	0.297	0.294	0.000	0.800	0.195
Total Nitrogen	2013	0.233	0.125	0.000	0.970	0.284
Total Nitrogen	2014	0.137	0.150	0.000	0.320	0.116
Total Nitrogen	2015	0.117	0.090	0.000	0.320	0.123
Total Nitrogen	2016	0.258	0.299	0.000	0.400	0.130
Total Nitrogen	2017	0.349	0.384	0.000	0.984	0.209
Total Nitrogen	2018	0.284	0.294	0.000	0.454	0.102

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2019	0.244	0.284	0.000	0.424	0.102
Total Nitrogen	2020	0.249	0.264	0.090	0.441	0.086
Total Nitrogen	2021	0.295	0.304	0.110	0.504	0.096
Total Nitrogen	2022	0.272	0.286	0.090	0.454	0.081
Total Nitrogen	2023	0.262	0.264	0.140	0.404	0.077
Total Nitrogen	2024	0.179	0.179	0.164	0.194	0.017
Total Phosphorus	2000	0.006	0.005	0.005	0.017	0.004
Total Phosphorus	2001	0.004	0.003	0.000	0.018	0.005
Total Phosphorus	2002	0.013	0.013	0.013	0.013	0.000
Total Phosphorus	2003	0.002	0.000	0.000	0.013	0.005
Total Phosphorus	2004	0.014	0.007	0.000	0.075	0.023
Total Phosphorus	2005	0.007	0.008	0.000	0.020	0.007
Total Phosphorus	2006	0.006	0.008	0.000	0.015	0.006
Total Phosphorus	2007	0.000	0.000	0.000	0.000	0.000
Total Phosphorus	2008	0.003	0.000	0.000	0.021	0.007
Total Phosphorus	2009	0.006	0.004	0.000	0.016	0.006
Total Phosphorus	2010	0.006	0.005	0.000	0.013	0.006
Total Phosphorus	2011	0.009	0.010	0.000	0.017	0.005
Total Phosphorus	2012	0.010	0.013	0.000	0.021	0.006
Total Phosphorus	2013	0.012	0.013	0.000	0.022	0.008
Total Phosphorus	2014	0.007	0.009	0.000	0.017	0.006
Total Phosphorus	2015	0.006	0.005	0.000	0.013	0.006
Total Phosphorus	2016	0.010	0.010	0.000	0.016	0.003
Total Phosphorus	2017	0.011	0.010	0.000	0.032	0.005
Total Phosphorus	2018	0.010	0.010	0.000	0.017	0.003
Total Phosphorus	2019	0.010	0.009	0.000	0.024	0.004
Total Phosphorus	2020	0.011	0.011	0.006	0.018	0.004
Total Phosphorus	2021	0.013	0.012	0.007	0.050	0.007
Total Phosphorus	2022	0.011	0.010	0.006	0.022	0.004
Total Phosphorus	2023	0.010	0.009	0.006	0.020	0.003
Total Phosphorus	2024	0.008	0.008	0.008	0.008	0.000

Programs contributing WQ Data:

Table 556: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in St. Andrews State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	103	2000	2003	12
Total Nitrogen	115	2000	2003	4
Total Nitrogen	470	2000	2024	456
Total Nitrogen	514	1990	2023	268
Total Nitrogen	5002	1990	2016	217
Total Phosphorus	103	2000	2021	36
Total Phosphorus	115	2000	2003	4
Total Phosphorus	470	2000	2024	598
Total Phosphorus	514	1990	2023	269
Total Phosphorus	5002	2011	2012	13

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

115 - Environmental Monitoring Assessment Program
 470 - St. Andrews Aquatic Preserve Water Quality Monitoring
 514 - Florida LAKEWATCH Program
 5002 - Florida STORET / WIN

Total Suspended Solids

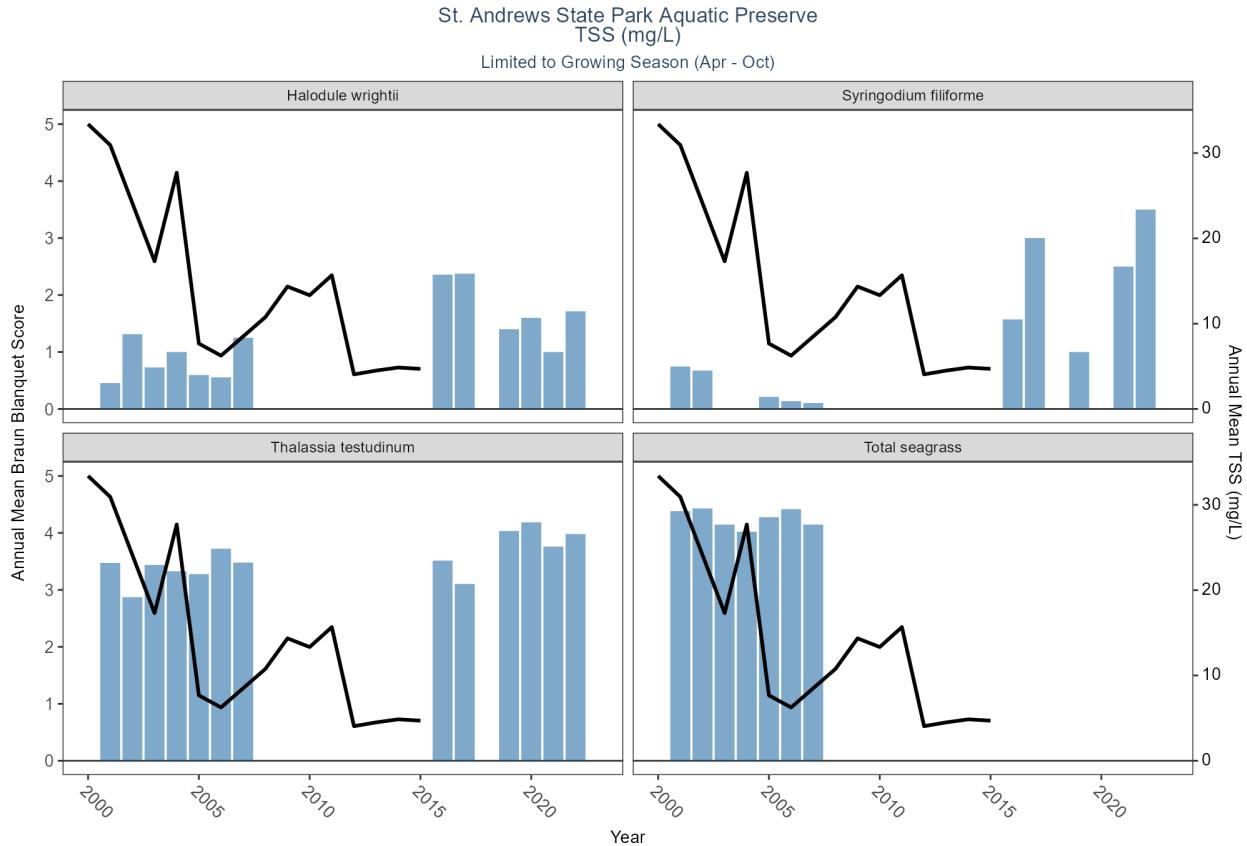


Table 557: WQ Summary for Total Suspended Solids in St. Andrews State Park Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	2000	33.394	31.0	10.0	58	10.915
TSS	2001	30.938	28.0	15.0	72	15.394
TSS	2003	17.312	13.5	6.0	36	11.727
TSS	2004	27.700	25.0	9.0	54	15.654
TSS	2005	7.667	8.0	6.0	9	1.366
TSS	2006	6.250	6.0	5.0	8	1.165
TSS	2008	10.765	5.0	4.0	26	9.202
TSS	2009	14.353	14.5	5.0	26	4.849
TSS	2010	13.333	14.0	4.0	20	4.389
TSS	2011	15.674	14.0	7.0	40	6.948
TSS	2012	4.056	4.0	2.5	8	1.275
TSS	2013	4.500	4.0	3.0	8	1.549
TSS	2014	4.857	5.0	3.0	9	1.880
TSS	2015	4.700	4.0	3.0	6	1.129

Programs contributing WQ Data:

Table 558: Programs contributing WQ data for Total Susepended Solids in St. Andrews State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	470	2000	2015	430
TSS	5002	2011	2012	12

WQ Program names:

470 - St. Andrews Aquatic Preserve Water Quality Monitoring

5002 - Florida STORET / WIN

Turbidity

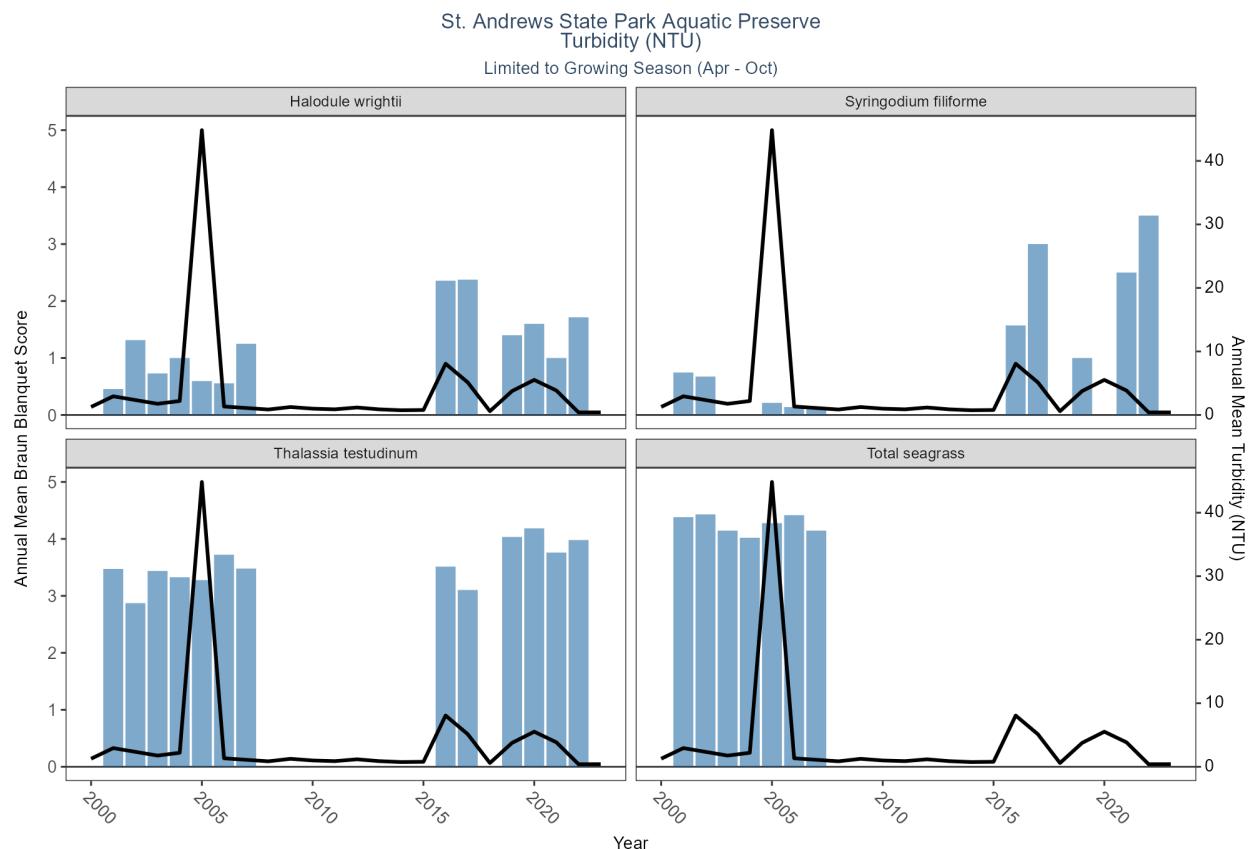


Table 559: WQ Summary for Turbidity in St. Andrews State Park Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	2000	1.267	1.000	0.00	3.00	0.861
Turbidity	2001	2.938	2.500	0.00	10.00	2.449
Turbidity	2003	1.760	2.000	1.00	4.00	0.870
Turbidity	2004	2.200	1.600	0.20	7.00	2.312
Turbidity	2005	44.842	1.000	1.00	830.00	190.135

ParameterName	Year	mean	median	min	max	sd
Turbidity	2006	1.333	1.000	1.00	3.00	0.686
Turbidity	2008	0.860	0.800	0.45	1.70	0.316
Turbidity	2009	1.250	0.950	0.50	4.60	0.896
Turbidity	2010	0.992	0.900	0.19	2.90	0.498
Turbidity	2011	0.887	0.760	0.20	3.00	0.478
Turbidity	2012	1.174	1.000	0.25	4.48	0.641
Turbidity	2013	0.885	0.700	0.20	2.79	0.506
Turbidity	2014	0.743	0.750	0.15	2.19	0.355
Turbidity	2015	0.782	0.625	0.29	2.40	0.441
Turbidity	2016	8.067	8.040	7.99	8.24	0.060
Turbidity	2017	5.127	7.940	0.33	8.13	3.590
Turbidity	2018	0.591	0.620	0.27	0.94	0.237
Turbidity	2019	3.765	0.950	0.35	8.16	3.637
Turbidity	2020	5.520	7.870	0.50	16.68	3.759
Turbidity	2021	3.847	1.000	0.45	8.00	3.530
Turbidity	2022	0.400	0.400	0.00	1.80	0.339
Turbidity	2023	0.407	0.310	0.00	2.61	0.523
Turbidity	2024	0.700	0.700	0.60	0.80	0.115

Programs contributing WQ Data:

Table 560: Programs contributing WQ data for Turbidity in St. Andrews State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	103	2021	2021	24
Turbidity	470	2000	2024	804
Turbidity	557	2016	2023	245
Turbidity	5002	2005	2023	224

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

470 - St. Andrews Aquatic Preserve Water Quality Monitoring

557 - Central Panhandle Aquatic Preserves Seagrass Monitoring

5002 - Florida STORET / WIN

Water Temperature

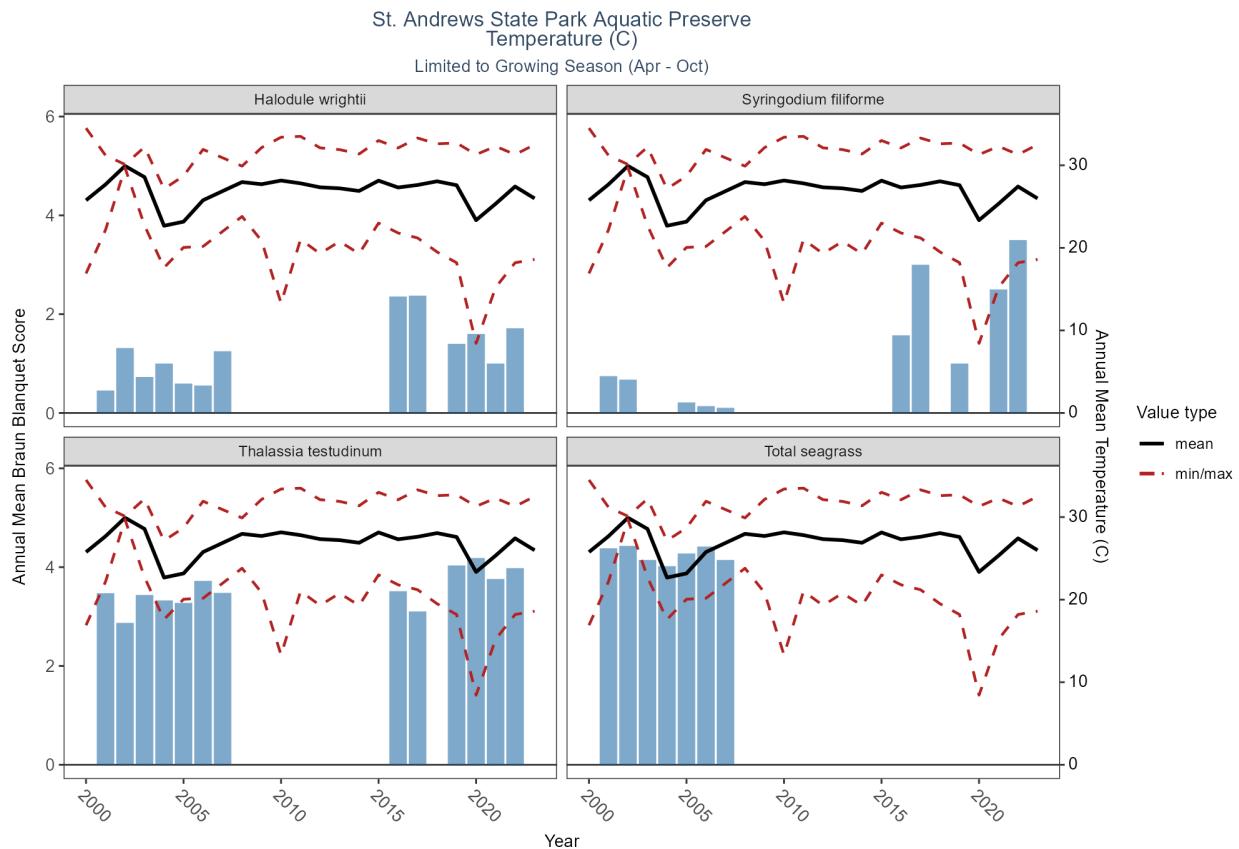


Table 561: WQ Summary for Water Temperature in St. Andrews State Park Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	2000	25.761	26.475	16.90	34.50	4.635
Temperature	2001	27.679	29.000	22.18	31.20	3.165
Temperature	2002	29.920	29.900	29.70	30.10	0.169
Temperature	2003	28.568	29.750	22.70	32.21	2.807
Temperature	2004	22.675	22.685	17.60	27.15	4.324
Temperature	2005	23.172	22.560	20.05	28.70	2.589
Temperature	2006	25.768	22.190	20.17	31.92	5.163
Temperature	2008	27.968	28.900	23.80	29.90	1.954
Temperature	2009	27.707	29.000	20.86	32.14	3.228
Temperature	2010	28.153	29.720	13.30	33.40	3.585
Temperature	2011	27.813	28.005	21.02	33.50	3.360
Temperature	2012	27.332	27.780	19.30	32.11	2.606
Temperature	2013	27.209	28.300	20.78	31.90	2.964
Temperature	2014	26.891	27.100	19.29	31.37	2.984
Temperature	2015	28.140	28.800	23.00	33.00	2.610
Temperature	2016	27.313	28.100	21.80	32.10	3.156
Temperature	2017	27.614	28.300	21.20	33.30	3.134
Temperature	2018	28.060	29.480	19.50	32.60	3.303
Temperature	2019	27.589	29.000	18.20	32.70	3.385

ParameterName	Year	mean	median	min	max	sd
Temperature	2020	23.355	24.900	8.43	31.30	5.509
Temperature	2021	25.334	27.010	15.20	32.30	4.795
Temperature	2022	27.428	28.500	18.20	31.30	3.265
Temperature	2023	25.985	25.800	18.60	32.50	3.140
Temperature	2024	22.050	22.050	21.70	22.40	0.404

Programs contributing WQ Data:

Table 562: Programs contributing WQ data for Water Temperature in St. Andrews State Park Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	2001	2022	682
Temperature	95	1974	2018	460
Temperature	103	2003	2021	25
Temperature	115	2000	2003	17
Temperature	470	2000	2024	1000
Temperature	557	2016	2023	303
Temperature	5002	2005	2023	319

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 470 - St. Andrews Aquatic Preserve Water Quality Monitoring
- 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
- 5002 - Florida STORET / WIN

St. Joseph Bay Aquatic Preserve

Programs contributing SAV Data:

Table 563: Programs contributing SAV data in St. Joseph Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Braun Blanquet Score	557	2005	2023	1272

SAV Program names:

557 - Central Panhandle Aquatic Preserves Seagrass Monitoring

Chlorophyll-a (corrected & uncorrected)

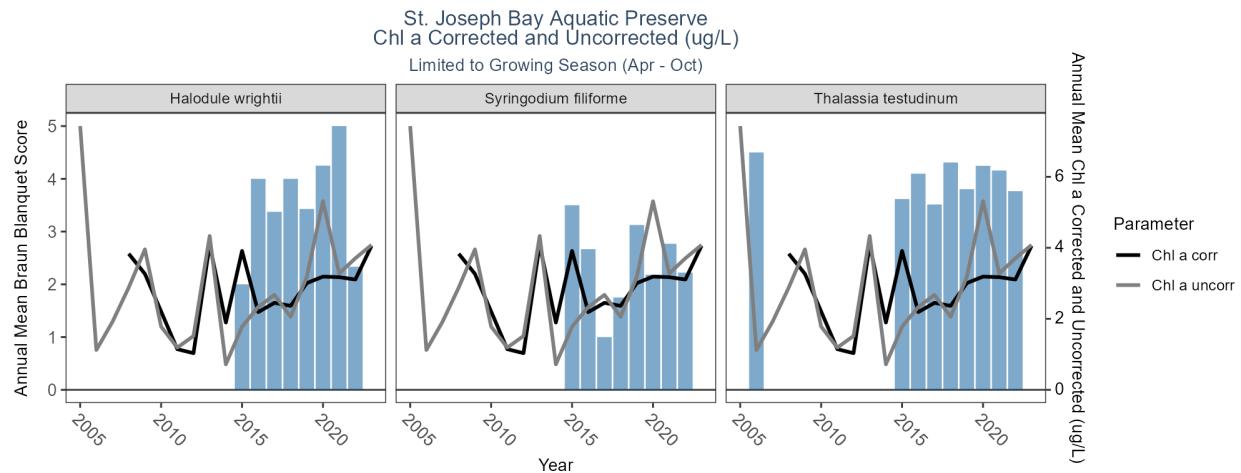


Table 564: WQ Summary for Chlorophyll-a (corrected & uncorrected) in St. Joseph Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2008	3.833	3.000	2.80	5.7	1.620
Chl a corr	2009	3.267	2.700	2.50	4.6	1.159
Chl a corr	2011	1.145	0.815	0.55	2.8	0.780
Chl a corr	2012	1.032	1.000	0.00	1.9	0.693
Chl a corr	2013	4.088	2.000	1.00	14.0	4.500
Chl a corr	2014	1.895	1.300	0.00	5.9	1.461
Chl a corr	2015	3.913	2.000	1.00	13.0	4.171
Chl a corr	2016	2.190	2.000	0.79	5.0	1.121
Chl a corr	2017	2.450	2.050	1.30	4.8	1.237
Chl a corr	2018	2.365	2.400	0.64	5.4	1.577
Chl a corr	2019	3.007	3.000	1.00	6.4	1.194
Chl a corr	2020	3.188	3.000	1.00	12.0	2.506
Chl a corr	2021	3.173	1.900	1.00	12.0	3.235
Chl a corr	2022	3.107	3.000	1.00	11.0	1.792
Chl a corr	2023	4.059	2.000	0.89	13.0	3.706
Chl a corr	2024	2.700	2.700	2.30	3.1	0.400

ParameterName	Year	mean	median	min	max	sd
Chl a uncorr	2005	7.429	4.500	1.00	32.0	9.196
Chl a uncorr	2006	1.121	1.000	0.00	2.0	0.650
Chl a uncorr	2007	1.920	1.750	0.30	5.0	1.191
Chl a uncorr	2008	2.882	2.000	0.00	9.0	2.052
Chl a uncorr	2009	3.957	3.000	0.90	11.4	2.730
Chl a uncorr	2010	1.781	1.000	0.00	10.0	2.273
Chl a uncorr	2011	1.190	0.760	0.30	3.6	1.041
Chl a uncorr	2012	1.516	1.100	0.20	4.0	0.895
Chl a uncorr	2013	4.333	3.000	2.00	8.0	3.215
Chl a uncorr	2014	0.718	0.534	0.00	2.0	0.684
Chl a uncorr	2015	1.778	2.000	1.00	3.0	0.667
Chl a uncorr	2016	2.334	2.000	0.69	5.0	1.220
Chl a uncorr	2017	2.675	2.000	1.00	7.0	1.483
Chl a uncorr	2018	2.057	2.000	0.00	5.7	1.238
Chl a uncorr	2019	3.182	3.000	0.00	8.0	1.501
Chl a uncorr	2020	5.312	5.000	2.00	14.0	3.017
Chl a uncorr	2021	3.276	2.000	-1.00	14.0	3.147
Chl a uncorr	2022	3.705	3.000	1.00	12.0	2.002
Chl a uncorr	2023	4.081	2.000	0.62	13.0	3.798
Chl a uncorr	2024	2.700	2.700	2.30	3.1	0.400

Programs contributing WQ Data:

Table 565: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in St. Joseph Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	470	2019	2024	78
Chl a corr	514	2019	2023	102
Chl a corr	540	2017	2019	26
Chl a corr	5002	2008	2016	102
Chl a uncorr	60	2014	2014	3
Chl a uncorr	103	2002	2021	81
Chl a uncorr	115	2002	2002	1
Chl a uncorr	118	2010	2010	1
Chl a uncorr	470	2019	2024	78
Chl a uncorr	514	2001	2023	545
Chl a uncorr	540	2017	2019	26
Chl a uncorr	5002	2008	2016	32

WQ Program names:

470 - St. Andrews Aquatic Preserve Water Quality Monitoring

514 - Florida LAKEWATCH Program

540 - Shellfish Harvest Area Classification Program

5002 - Florida STORET / WIN

60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

Colored Dissolved Organic Matter

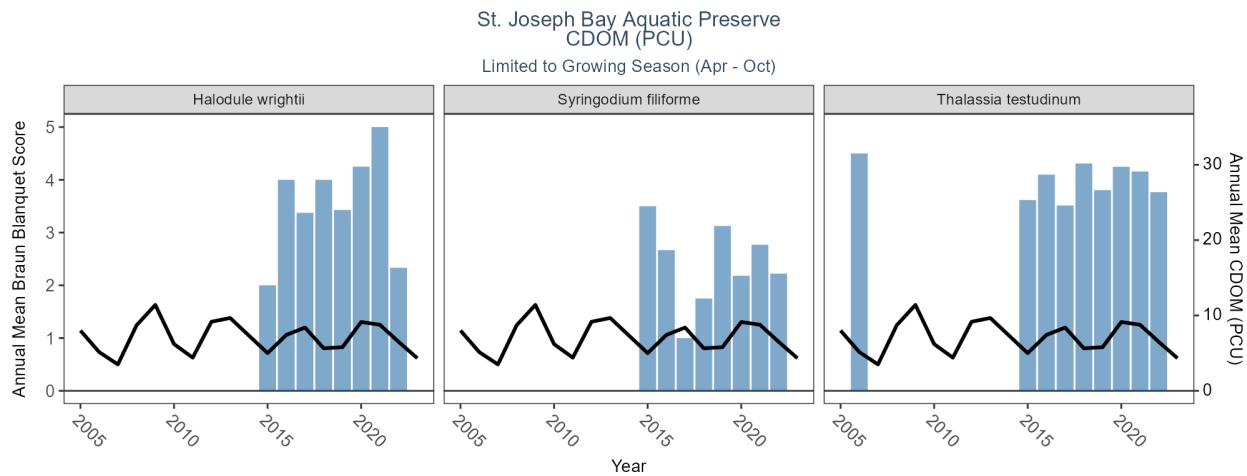


Table 566: WQ Summary for Colored Dissolved Organic Matter in St. Joseph Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
CDOM	2005	8.000	8.0	8	8	NA
CDOM	2006	5.143	5.0	4	6	0.900
CDOM	2007	3.500	3.0	2	6	1.179
CDOM	2008	8.700	8.0	7	14	2.111
CDOM	2009	11.400	8.0	1	28	10.480
CDOM	2010	6.200	6.0	5	10	1.373
CDOM	2011	4.400	5.0	3	6	1.342
CDOM	2012	9.167	7.5	4	37	7.254
CDOM	2013	9.667	8.0	5	18	4.555
CDOM	2015	5.000	5.0	3	8	1.732
CDOM	2016	7.417	7.0	5	10	1.730
CDOM	2017	8.396	7.5	2	25	5.857
CDOM	2018	5.640	5.0	2	17	3.965
CDOM	2019	5.791	5.0	2	19	3.849
CDOM	2020	9.133	7.0	4	28	6.010
CDOM	2021	8.767	8.0	6	19	2.956
CDOM	2022	6.500	7.0	1	11	2.229
CDOM	2023	4.333	4.5	3	6	1.211
CDOM	2024	35.000	35.0	35	35	NA

Programs contributing WQ Data:

Table 567: Programs contributing WQ data for Colored Dissolved Organic Matter in St. Joseph Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
CDOM	103	2021	2021	12
CDOM	514	2001	2023	270
CDOM	540	2017	2019	26
CDOM	5002	2024	2024	1

ParameterName	ProgramID	YearMin	YearMax	N_Data
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WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

514 - Florida LAKEWATCH Program

540 - Shellfish Harvest Area Classification Program

5002 - Florida STORET / WIN

Dissolved Oxygen

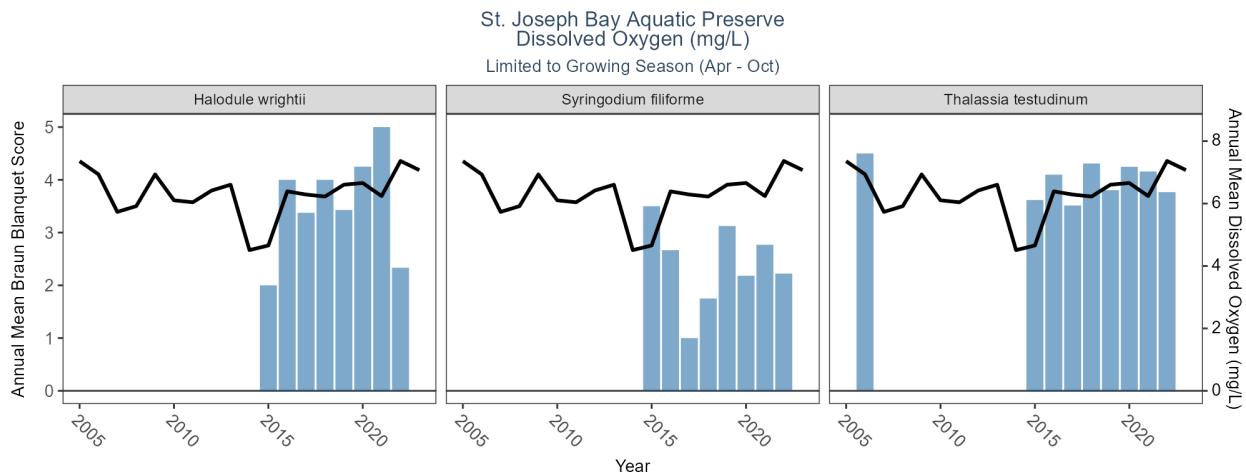


Table 568: WQ Summary for Dissolved Oxygen in St. Joseph Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2005	7.359	7.800	0.10	10.10	1.829
Dissolved Oxygen	2006	6.937	6.880	1.95	11.90	1.898
Dissolved Oxygen	2007	5.734	5.120	1.32	11.38	2.173
Dissolved Oxygen	2008	5.917	6.200	2.30	10.00	2.090
Dissolved Oxygen	2009	6.935	7.400	2.74	10.50	1.519
Dissolved Oxygen	2010	6.104	6.350	3.60	8.10	1.282
Dissolved Oxygen	2011	6.042	6.200	1.30	8.50	1.239
Dissolved Oxygen	2012	6.420	6.450	3.00	9.80	1.087
Dissolved Oxygen	2013	6.604	6.700	4.80	8.60	0.932
Dissolved Oxygen	2014	4.509	4.500	1.60	8.40	1.621
Dissolved Oxygen	2015	4.657	4.700	0.20	7.77	1.662
Dissolved Oxygen	2016	6.391	6.600	1.70	10.15	1.069
Dissolved Oxygen	2017	6.289	6.430	0.70	10.63	1.423
Dissolved Oxygen	2018	6.225	6.475	1.37	12.87	1.579
Dissolved Oxygen	2019	6.605	6.640	1.40	12.50	1.699
Dissolved Oxygen	2020	6.659	6.885	3.57	9.54	0.941
Dissolved Oxygen	2021	6.240	6.500	2.36	11.21	1.585
Dissolved Oxygen	2022	7.365	7.150	3.73	10.87	1.257
Dissolved Oxygen	2023	7.072	7.210	3.13	10.33	1.088
Dissolved Oxygen	2024	6.988	7.880	5.49	8.06	1.369

Programs contributing WQ Data:

Table 569: Programs contributing WQ data for Dissolved Oxygen in St. Joseph Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	60	2014	2014	11
Dissolved Oxygen	69	2001	2019	295
Dissolved Oxygen	95	1997	2018	645
Dissolved Oxygen	103	2021	2021	12
Dissolved Oxygen	115	1991	1991	4
Dissolved Oxygen	118	2015	2021	39
Dissolved Oxygen	469	2016	2023	310
Dissolved Oxygen	470	2019	2024	72
Dissolved Oxygen	540	2017	2019	24
Dissolved Oxygen	557	2003	2023	649
Dissolved Oxygen	5002	1995	2024	2582

WQ Program names:

- 60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey
- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 469 - Central Panhandle Aquatic Preserve WQ Monitoring
- 470 - St. Andrews Aquatic Preserve Water Quality Monitoring
- 540 - Shellfish Harvest Area Classification Program
- 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
- 5002 - Florida STORET / WIN

Dissolved Oxygen Saturation

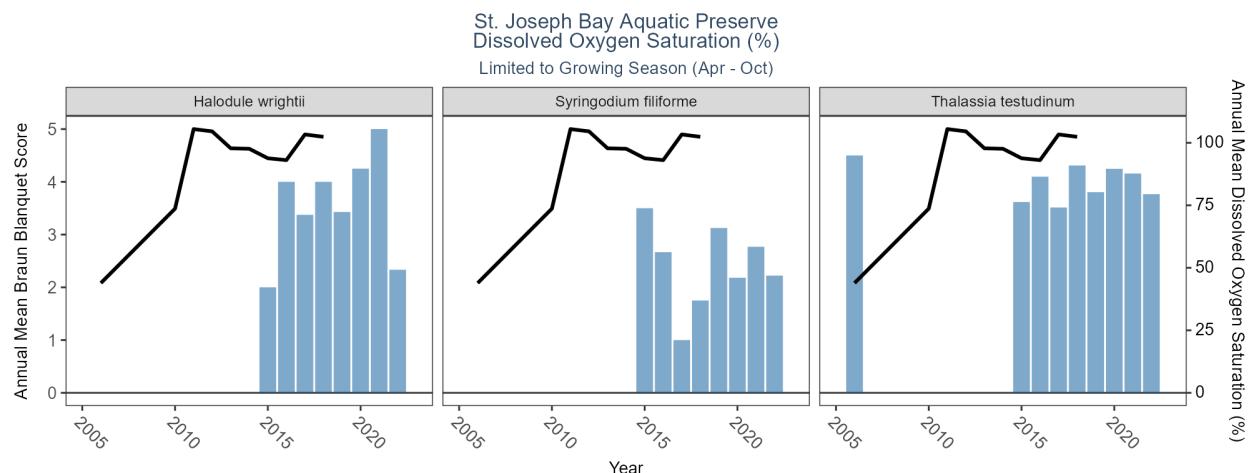


Table 570: WQ Summary for Dissolved Oxygen Saturation in St. Joseph Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2006	43.900	43.900	43.900	43.900	NA
Dissolved Oxygen Saturation	2010	73.675	74.850	58.300	86.700	13.317
Dissolved Oxygen Saturation	2011	105.492	105.100	88.500	131.400	7.993
Dissolved Oxygen Saturation	2012	104.578	108.150	84.000	114.300	9.061
Dissolved Oxygen Saturation	2013	97.800	97.800	93.200	102.400	6.505
Dissolved Oxygen Saturation	2014	97.616	97.588	97.327	98.164	0.248
Dissolved Oxygen Saturation	2015	93.818	94.650	64.200	117.900	13.557
Dissolved Oxygen Saturation	2016	93.074	94.700	67.000	119.600	13.106
Dissolved Oxygen Saturation	2017	103.347	102.850	60.600	150.700	17.583
Dissolved Oxygen Saturation	2018	102.395	101.450	82.400	132.700	11.261

Programs contributing WQ Data:

Table 571: Programs contributing WQ data for Dissolved Oxygen Saturation in St. Joseph Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	60	2014	2014	8
Dissolved Oxygen Saturation	95	2006	2018	118
Dissolved Oxygen Saturation	5002	2011	2013	44

WQ Program names:

60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey

95 - Harmful Algal Bloom Marine Observation Network

5002 - Florida STORET / WIN

pH

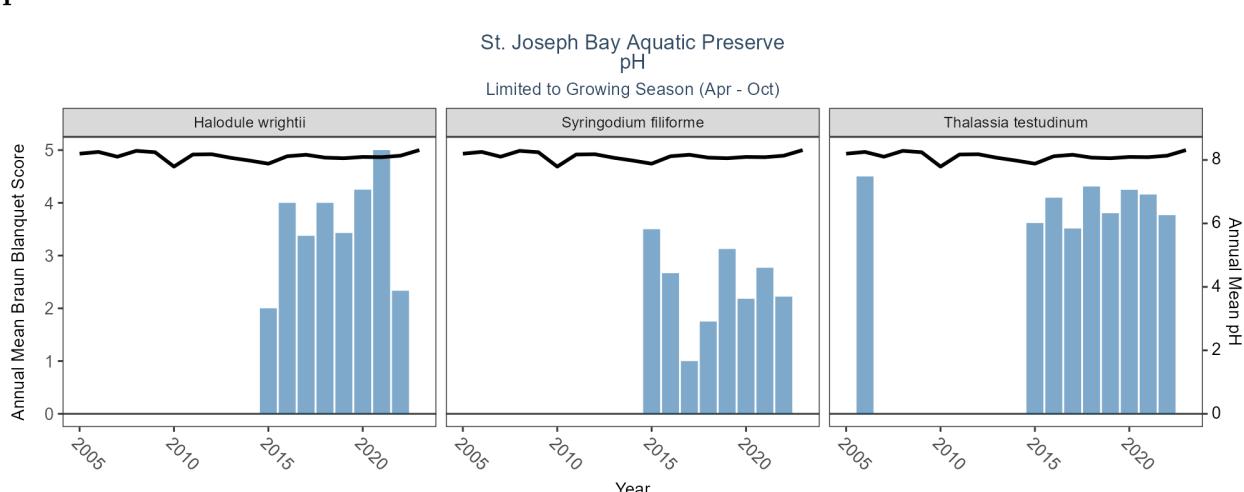


Table 572: WQ Summary for pH in St. Joseph Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	2005	8.198	8.200	7.76	8.60	0.175
pH	2006	8.253	8.300	7.66	9.20	0.383
pH	2007	8.103	8.100	7.01	8.50	0.279
pH	2008	8.287	8.200	8.00	8.80	0.207
pH	2009	8.244	8.200	7.80	8.80	0.207
pH	2010	7.791	7.720	7.40	8.30	0.298
pH	2011	8.172	8.200	7.80	8.50	0.123
pH	2012	8.180	8.150	7.80	8.54	0.186
pH	2013	8.068	8.100	7.70	8.40	0.204
pH	2014	7.982	8.100	7.40	8.70	0.276
pH	2015	7.883	7.980	7.00	8.50	0.333
pH	2016	8.117	8.100	7.10	8.60	0.200
pH	2017	8.163	8.100	7.40	10.27	0.357
pH	2018	8.074	8.100	7.30	8.70	0.224
pH	2019	8.055	8.010	7.53	8.87	0.208
pH	2020	8.095	7.960	7.64	9.84	0.454
pH	2021	8.088	8.105	7.10	8.44	0.169
pH	2022	8.135	8.140	7.57	8.55	0.222
pH	2023	8.311	8.330	7.73	9.10	0.254
pH	2024	7.978	8.060	7.82	8.10	0.145

Programs contributing WQ Data:

Table 573: Programs contributing WQ data for pH in St. Joseph Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	2001	2019	327
pH	95	2003	2018	561
pH	103	2021	2021	12
pH	115	1991	2002	16
pH	118	2015	2021	22
pH	469	2016	2023	311
pH	470	2019	2024	75
pH	540	2017	2019	24
pH	557	2003	2023	528
pH	5002	1995	2024	1438

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 469 - Central Panhandle Aquatic Preserve WQ Monitoring
- 470 - St. Andrews Aquatic Preserve Water Quality Monitoring
- 540 - Shellfish Harvest Area Classification Program
- 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
- 5002 - Florida STORET / WIN

Salinity

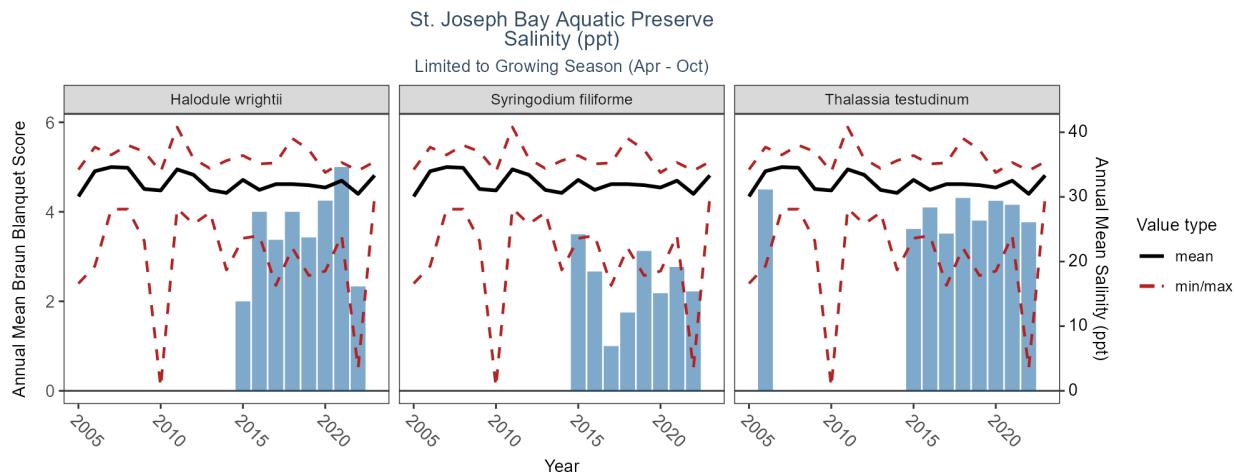


Table 574: WQ Summary for Salinity in St. Joseph Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	2005	30.064	30.475	16.60	34.230	3.608
Salinity	2006	33.975	34.620	19.30	37.700	2.082
Salinity	2007	34.614	34.800	28.10	36.500	1.389
Salinity	2008	34.505	34.100	28.10	38.000	1.837
Salinity	2009	31.222	31.300	23.20	37.000	2.090
Salinity	2010	30.995	31.450	0.60	33.900	4.780
Salinity	2011	34.258	34.600	28.20	40.800	4.094
Salinity	2012	33.414	33.825	25.80	35.900	1.965
Salinity	2013	31.072	30.650	27.60	34.400	1.463
Salinity	2014	30.616	31.300	18.70	35.614	3.080
Salinity	2015	32.629	32.900	23.60	36.400	1.666
Salinity	2016	31.088	31.410	24.00	35.100	1.842
Salinity	2017	31.972	31.995	16.30	35.260	1.655
Salinity	2018	31.973	32.400	22.10	39.050	2.393
Salinity	2019	31.814	32.040	17.83	37.300	2.570
Salinity	2020	31.451	32.210	18.52	33.770	2.490
Salinity	2021	32.511	33.120	24.04	35.320	2.151
Salinity	2022	30.464	31.220	3.47	34.060	4.750
Salinity	2023	33.324	33.330	30.00	35.450	0.872
Salinity	2024	9.290	9.290	9.29	9.290	0.000

Programs contributing WQ Data:

Table 575: Programs contributing WQ data for Salinity in St. Joseph Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	60	2014	2014	11
Salinity	69	2001	2019	328
Salinity	95	1995	2018	676

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	115	1991	2002	16
Salinity	118	2015	2021	39
Salinity	469	2016	2023	311
Salinity	540	2017	2019	21
Salinity	557	2003	2023	645
Salinity	5002	1995	2024	3015

WQ Program names:

- 60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey
 69 - Fisheries-Independent Monitoring (FIM) Program
 95 - Harmful Algal Bloom Marine Observation Network
 115 - Environmental Monitoring Assessment Program
 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
 469 - Central Panhandle Aquatic Preserve WQ Monitoring
 540 - Shellfish Harvest Area Classification Program
 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
 5002 - Florida STORET / WIN

Secchi Depth

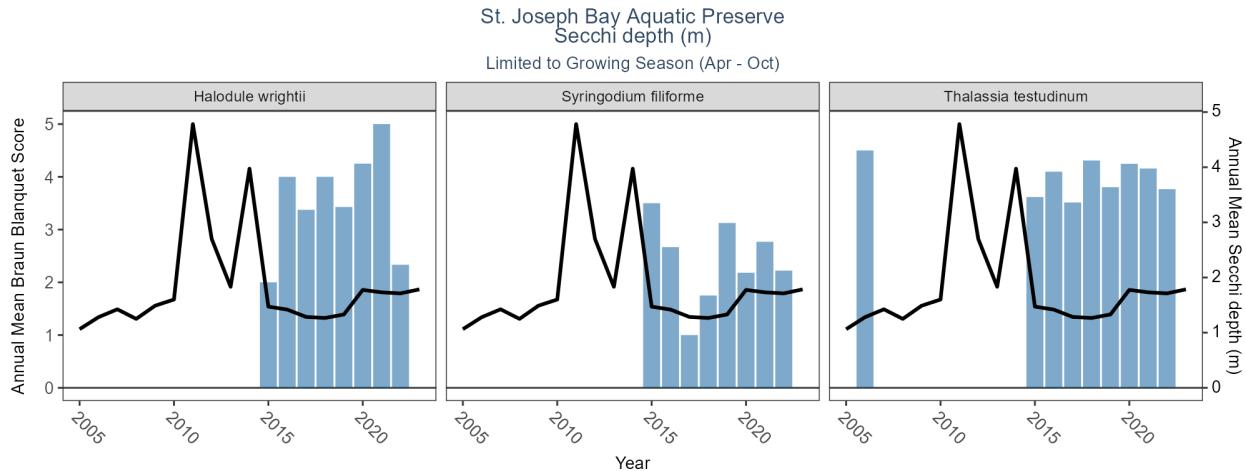


Table 576: WQ Summary for Secchi Depth in St. Joseph Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2005	1.063	1.000	0.457	2.286	0.420
Secchi depth	2006	1.281	1.006	0.488	4.663	0.884
Secchi depth	2007	1.424	1.143	0.600	3.962	0.801
Secchi depth	2008	1.250	1.067	0.500	3.353	0.606
Secchi depth	2009	1.489	1.300	0.700	3.200	0.638
Secchi depth	2010	1.601	1.189	0.488	3.962	1.015
Secchi depth	2011	4.782	4.500	0.884	8.500	2.751
Secchi depth	2012	2.699	1.875	1.158	7.800	1.673
Secchi depth	2013	1.832	1.615	0.914	3.658	0.994

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2014	3.974	2.377	1.524	11.000	3.996
Secchi depth	2015	1.472	1.210	0.900	3.292	0.711
Secchi depth	2016	1.418	1.100	0.300	4.420	0.981
Secchi depth	2017	1.285	0.900	0.300	4.115	0.892
Secchi depth	2018	1.266	1.000	0.300	6.858	0.865
Secchi depth	2019	1.330	1.000	0.300	3.700	0.846
Secchi depth	2020	1.776	1.615	0.457	5.944	0.941
Secchi depth	2021	1.731	1.676	0.457	5.200	0.913
Secchi depth	2022	1.713	1.678	0.396	3.810	0.922
Secchi depth	2023	1.785	1.600	0.900	4.300	0.779

Programs contributing WQ Data:

Table 577: Programs contributing WQ data for Secchi Depth in St. Joseph Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	60	2014	2014	1
Secchi depth	69	2001	2019	328
Secchi depth	115	1991	2002	3
Secchi depth	118	2015	2021	2
Secchi depth	469	2016	2023	129
Secchi depth	514	2001	2023	545
Secchi depth	557	2003	2023	424
Secchi depth	5002	2009	2012	17

WQ Program names:

60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey

69 - Fisheries-Independent Monitoring (FIM) Program

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

469 - Central Panhandle Aquatic Preserve WQ Monitoring

514 - Florida LAKEWATCH Program

557 - Central Panhandle Aquatic Preserves Seagrass Monitoring

5002 - Florida STORET / WIN

Total Nitrogen & Total Phosphorus

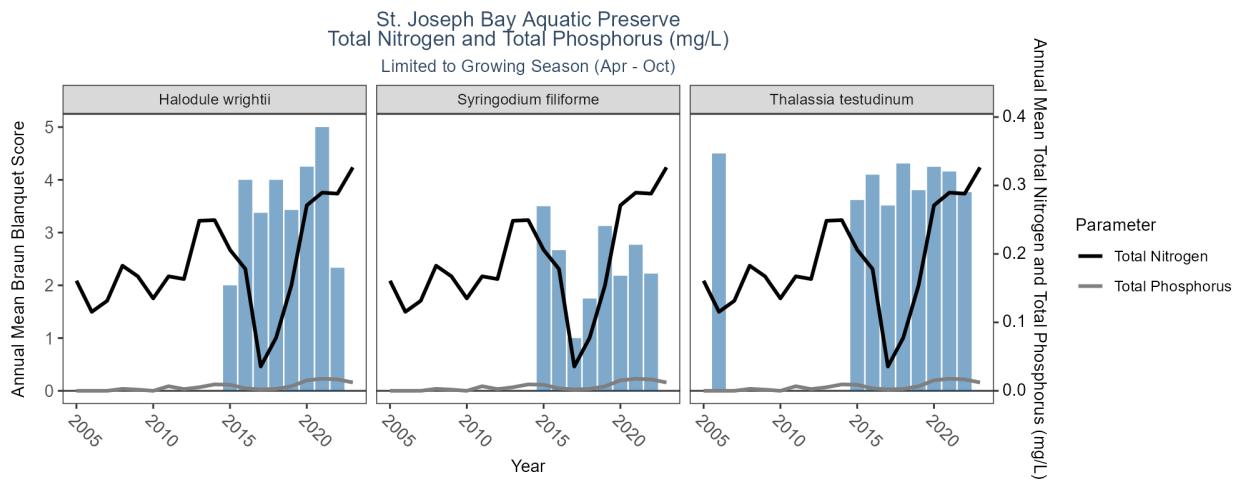


Table 578: WQ Summary for Total Nitrogen & Total Phosphorus in St. Joseph Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2005	0.161	0.090	0.000	0.560	0.181
Total Nitrogen	2006	0.115	0.075	0.000	0.420	0.126
Total Nitrogen	2007	0.132	0.070	0.000	0.490	0.141
Total Nitrogen	2008	0.183	0.245	0.000	0.770	0.197
Total Nitrogen	2009	0.167	0.175	0.000	0.600	0.176
Total Nitrogen	2010	0.135	0.190	0.000	0.400	0.141
Total Nitrogen	2011	0.167	0.205	0.000	0.305	0.113
Total Nitrogen	2012	0.163	0.220	0.000	0.600	0.158
Total Nitrogen	2013	0.248	0.260	0.000	0.810	0.240
Total Nitrogen	2014	0.249	0.284	0.000	0.434	0.138
Total Nitrogen	2015	0.206	0.264	0.000	0.444	0.167
Total Nitrogen	2016	0.178	0.220	0.000	0.560	0.161
Total Nitrogen	2017	0.036	0.000	0.000	0.444	0.103
Total Nitrogen	2018	0.078	0.000	0.000	0.464	0.141
Total Nitrogen	2019	0.154	0.162	0.000	0.630	0.157
Total Nitrogen	2020	0.271	0.280	0.130	0.510	0.085
Total Nitrogen	2021	0.290	0.280	0.100	0.595	0.105
Total Nitrogen	2022	0.288	0.270	0.180	0.654	0.092
Total Nitrogen	2023	0.326	0.294	0.120	0.794	0.161
Total Nitrogen	2024	0.385	0.404	0.284	0.468	0.093
Total Phosphorus	2005	0.000	0.000	0.000	0.000	0.000
Total Phosphorus	2006	0.000	0.000	0.000	0.000	0.000
Total Phosphorus	2007	0.000	0.000	0.000	0.000	0.000
Total Phosphorus	2008	0.003	0.000	0.000	0.031	0.008
Total Phosphorus	2009	0.002	0.000	0.000	0.015	0.004
Total Phosphorus	2010	0.000	0.000	0.000	0.000	0.000
Total Phosphorus	2011	0.007	0.009	0.000	0.014	0.006
Total Phosphorus	2012	0.003	0.000	0.000	0.013	0.005
Total Phosphorus	2013	0.005	0.000	0.000	0.014	0.006
Total Phosphorus	2014	0.009	0.011	0.000	0.017	0.006
Total Phosphorus	2015	0.009	0.000	0.000	0.030	0.011

ParameterName	Year	mean	median	min	max	sd
Total Phosphorus	2016	0.004	0.000	0.000	0.016	0.006
Total Phosphorus	2017	0.002	0.000	0.000	0.024	0.006
Total Phosphorus	2018	0.003	0.000	0.000	0.014	0.005
Total Phosphorus	2019	0.007	0.000	0.000	0.032	0.008
Total Phosphorus	2020	0.015	0.014	0.008	0.035	0.006
Total Phosphorus	2021	0.018	0.016	0.007	0.056	0.009
Total Phosphorus	2022	0.017	0.016	0.008	0.033	0.005
Total Phosphorus	2023	0.012	0.011	0.008	0.022	0.003
Total Phosphorus	2024	0.046	0.012	0.009	0.150	0.070

Programs contributing WQ Data:

Table 579: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in St. Joseph Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	103	2002	2002	2
Total Nitrogen	115	2002	2002	1
Total Nitrogen	118	2010	2010	1
Total Nitrogen	470	2019	2024	76
Total Nitrogen	514	2001	2023	563
Total Nitrogen	540	2017	2019	26
Total Nitrogen	5002	2001	2016	346
Total Phosphorus	103	2002	2021	37
Total Phosphorus	115	2002	2002	1
Total Phosphorus	470	2019	2024	77
Total Phosphorus	514	2001	2023	540
Total Phosphorus	540	2017	2019	26
Total Phosphorus	5002	2008	2024	60

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

470 - St. Andrews Aquatic Preserve Water Quality Monitoring

514 - Florida LAKEWATCH Program

540 - Shellfish Harvest Area Classification Program

5002 - Florida STORET / WIN

Turbidity

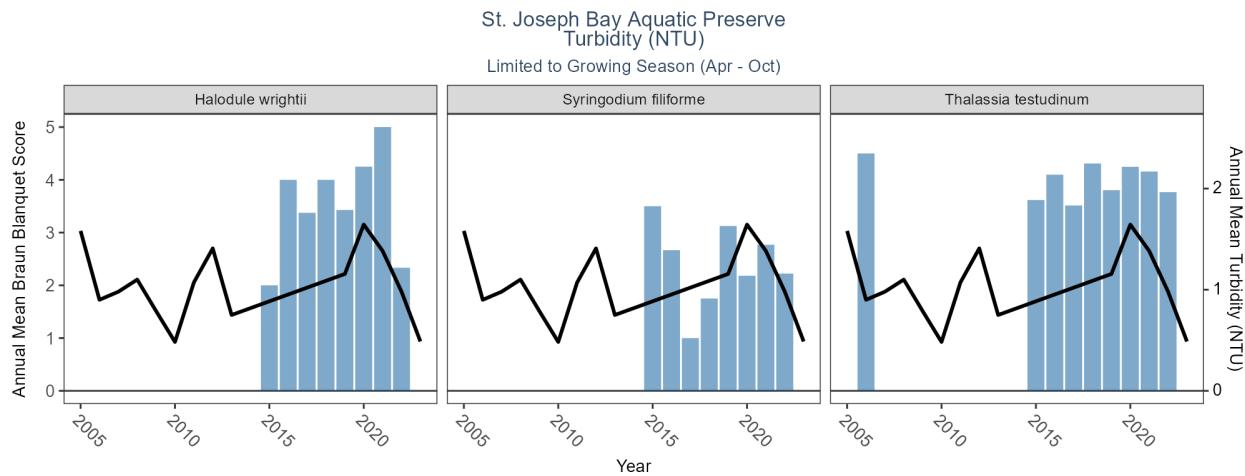


Table 580: WQ Summary for Turbidity in St. Joseph Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	2005	1.581	0.940	0.40	5.20	1.330
Turbidity	2006	0.900	0.860	0.28	2.30	0.321
Turbidity	2007	0.980	0.700	0.50	3.90	0.683
Turbidity	2008	1.100	1.000	0.60	2.40	0.401
Turbidity	2009	0.788	0.700	0.10	3.70	0.508
Turbidity	2010	0.483	0.450	0.10	1.10	0.306
Turbidity	2011	1.071	0.900	0.20	2.30	0.535
Turbidity	2012	1.408	1.400	0.75	2.10	0.531
Turbidity	2013	0.750	0.725	0.70	0.85	0.071
Turbidity	2019	1.156	0.900	0.60	2.80	0.769
Turbidity	2020	1.644	0.950	0.65	4.90	1.497
Turbidity	2021	1.383	1.050	0.30	3.90	0.863
Turbidity	2022	0.981	0.670	-0.60	12.75	1.620
Turbidity	2023	0.488	0.300	0.00	3.02	0.593
Turbidity	2024	2.608	3.000	0.85	4.12	1.625

Programs contributing WQ Data:

Table 581: Programs contributing WQ data for Turbidity in St. Joseph Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	103	2021	2021	12
Turbidity	469	2021	2023	126
Turbidity	470	2019	2024	72
Turbidity	557	2022	2023	81
Turbidity	5002	1995	2024	1806

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

469 - Central Panhandle Aquatic Preserve WQ Monitoring
 470 - St. Andrews Aquatic Preserve Water Quality Monitoring
 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
 5002 - Florida STORET / WIN

Water Temperature

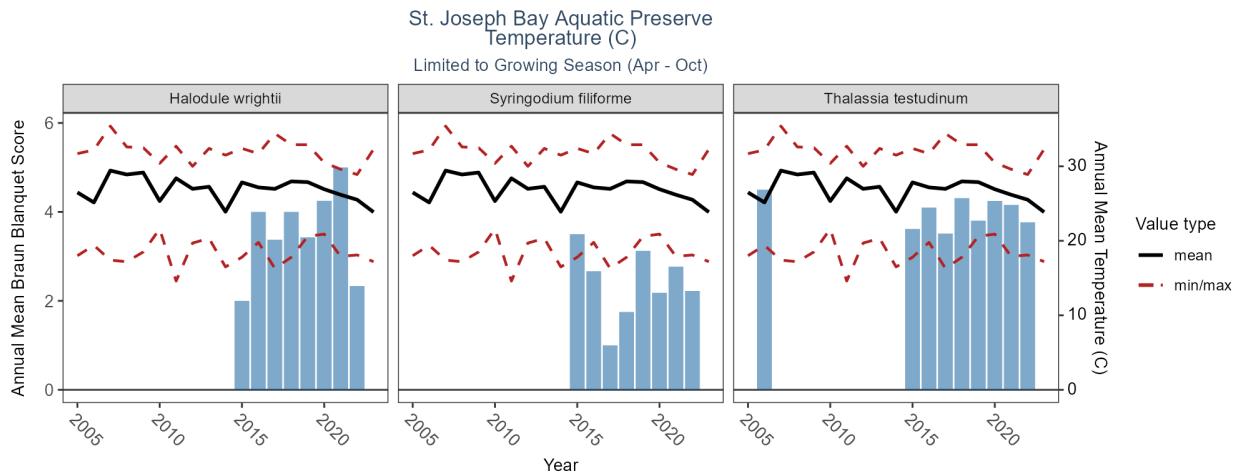


Table 582: WQ Summary for Water Temperature in St. Joseph Bay Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	2005	26.496	26.70	18.00	31.70	3.290
Temperature	2006	25.151	24.80	19.40	32.20	3.767
Temperature	2007	29.426	29.00	17.40	35.40	3.039
Temperature	2008	28.900	30.00	17.20	32.60	3.051
Temperature	2009	29.163	29.50	18.50	32.50	1.936
Temperature	2010	25.337	24.80	21.60	30.40	1.877
Temperature	2011	28.391	29.40	14.60	32.70	2.736
Temperature	2012	26.978	27.10	19.70	30.00	2.112
Temperature	2013	27.258	27.90	20.33	32.40	2.595
Temperature	2014	23.909	24.40	16.50	31.50	3.378
Temperature	2015	27.843	28.00	17.80	32.40	1.904
Temperature	2016	27.169	28.80	19.79	31.70	3.084
Temperature	2017	26.973	27.70	16.30	34.40	3.650
Temperature	2018	27.976	28.80	17.80	32.90	3.252
Temperature	2019	27.878	28.30	20.60	32.90	2.831
Temperature	2020	26.925	27.65	20.90	30.50	2.006
Temperature	2021	26.180	27.30	17.90	29.60	2.942
Temperature	2022	25.517	26.55	18.10	28.90	3.283
Temperature	2023	23.849	22.70	17.20	32.30	3.594
Temperature	2024	24.436	22.70	21.30	28.39	3.651

Programs contributing WQ Data:

Table 583: Programs contributing WQ data for Water Temperature in St. Joseph Bay Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	60	2014	2014	11
Temperature	69	2001	2019	328
Temperature	95	1996	2018	708
Temperature	103	2021	2021	12
Temperature	115	1991	2002	16
Temperature	118	2015	2021	35
Temperature	469	2016	2023	312
Temperature	470	2019	2024	75
Temperature	540	2017	2019	24
Temperature	557	2003	2023	649
Temperature	5002	1995	2024	3090

WQ Program names:

- 60 - Southeast Area Monitoring and Assessment Program (SEAMAP) - Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey
- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 469 - Central Panhandle Aquatic Preserve WQ Monitoring
- 470 - St. Andrews Aquatic Preserve Water Quality Monitoring
- 540 - Shellfish Harvest Area Classification Program
- 557 - Central Panhandle Aquatic Preserves Seagrass Monitoring
- 5002 - Florida STORET / WIN

St. Martins Marsh Aquatic Preserve

Programs contributing SAV Data:

Table 584: Programs contributing SAV data in St. Martins Marsh Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Modified Braun Blanquet Score	560	1997	2024	5366
Percent Cover	560	2022	2024	1008

SAV Program names:

560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring

560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring

Chlorophyll-a (corrected & uncorrected)

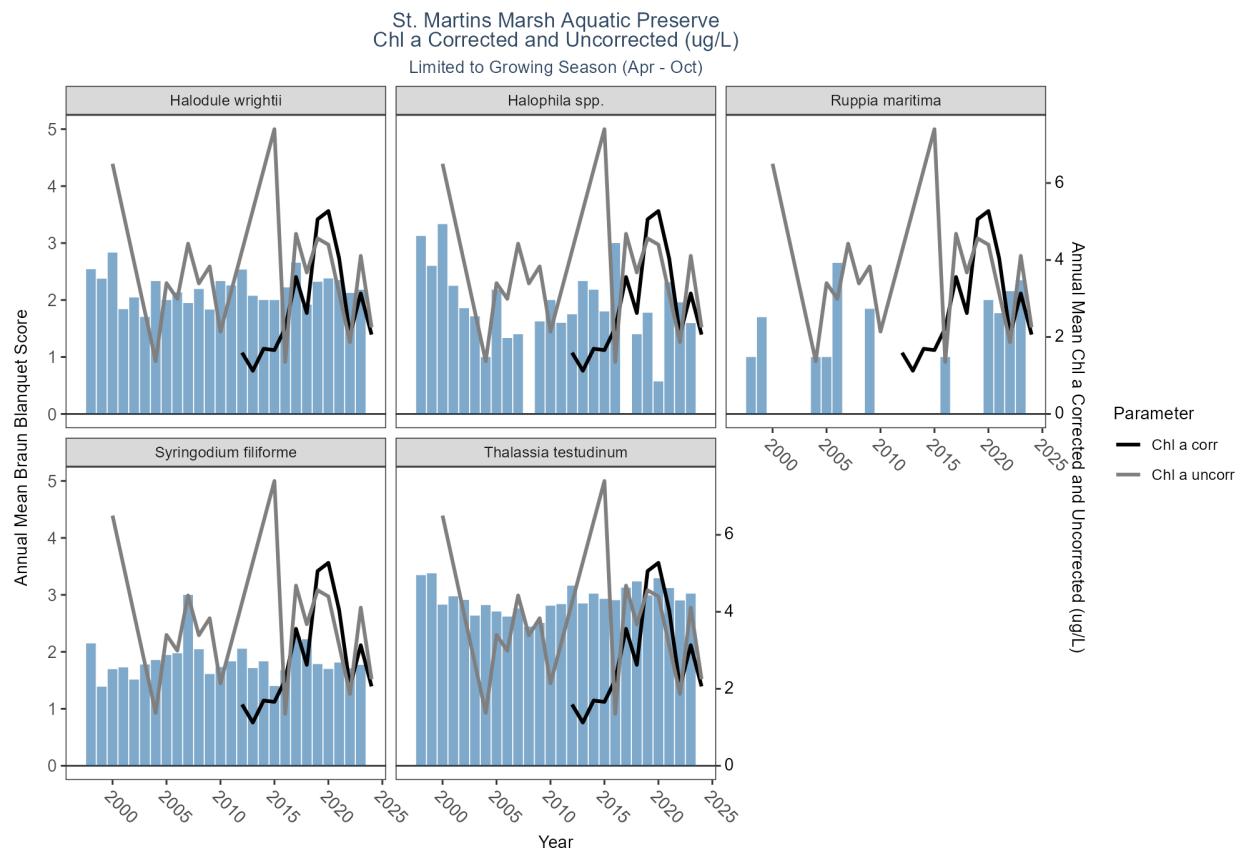


Table 585: WQ Summary for Chlorophyll-a (corrected & uncorrected) in St. Martins Marsh Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2012	1.593	1.100	0.550	5.700	1.486
Chl a corr	2013	1.122	0.895	0.550	1.900	0.594
Chl a corr	2014	1.694	1.300	0.550	4.400	1.244

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2015	1.659	1.600	0.560	5.500	1.309
Chl a corr	2016	2.231	1.615	0.550	11.430	2.168
Chl a corr	2017	3.559	2.570	0.550	9.410	2.937
Chl a corr	2018	2.621	1.855	1.000	11.000	2.155
Chl a corr	2019	5.058	2.510	0.870	46.400	8.023
Chl a corr	2020	5.273	3.845	1.000	22.700	5.107
Chl a corr	2021	4.041	2.600	0.820	13.000	4.209
Chl a corr	2022	2.057	1.000	1.000	9.850	2.235
Chl a corr	2023	3.132	2.000	1.000	13.000	2.844
Chl a corr	2024	2.062	1.000	1.000	8.000	1.879
Chl a uncorr	2000	6.500	6.500	6.000	7.000	0.548
Chl a uncorr	2004	1.371	1.371	1.371	1.371	0.000
Chl a uncorr	2005	3.400	3.400	3.400	3.400	NA
Chl a uncorr	2006	2.990	2.990	2.990	2.990	NA
Chl a uncorr	2007	4.426	3.000	0.400	27.600	5.492
Chl a uncorr	2008	3.390	2.850	0.500	11.600	2.435
Chl a uncorr	2009	3.833	3.000	1.000	23.000	4.066
Chl a uncorr	2010	2.140	2.140	2.140	2.140	NA
Chl a uncorr	2015	7.400	7.400	7.400	7.400	NA
Chl a uncorr	2016	1.350	1.045	0.510	3.400	1.029
Chl a uncorr	2017	4.682	4.400	0.480	9.500	3.725
Chl a uncorr	2018	3.675	1.650	1.200	12.000	3.881
Chl a uncorr	2019	4.561	4.400	0.760	10.000	3.236
Chl a uncorr	2020	4.400	5.250	1.500	5.600	1.941
Chl a uncorr	2021	3.129	2.000	-1.000	20.000	3.819
Chl a uncorr	2022	1.865	1.125	1.000	5.590	1.556
Chl a uncorr	2023	4.109	3.000	1.000	17.000	3.594
Chl a uncorr	2024	2.250	1.000	1.000	9.000	2.176

Programs contributing WQ Data:

Table 586: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in St. Martins Marsh Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	479	2016	2023	162
Chl a corr	540	2017	2018	12
Chl a corr	5002	2012	2021	84
Chl a corr	5008	2023	2024	72
Chl a uncorr	103	2004	2021	87
Chl a uncorr	115	2004	2004	1
Chl a uncorr	118	2010	2010	1
Chl a uncorr	479	2005	2023	156
Chl a uncorr	514	2000	2000	6
Chl a uncorr	540	2017	2018	12
Chl a uncorr	5002	2015	2021	32
Chl a uncorr	5008	2023	2024	72

WQ Program names:

479 - Southwest Florida Water Management District - Water Quality Monitoring

- 540 - Shellfish Harvest Area Classification Program
 5002 - Florida STORET / WIN
 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region
 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
 115 - Environmental Monitoring Assessment Program
 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
 514 - Florida LAKEWATCH Program

Colored Dissolved Organic Matter

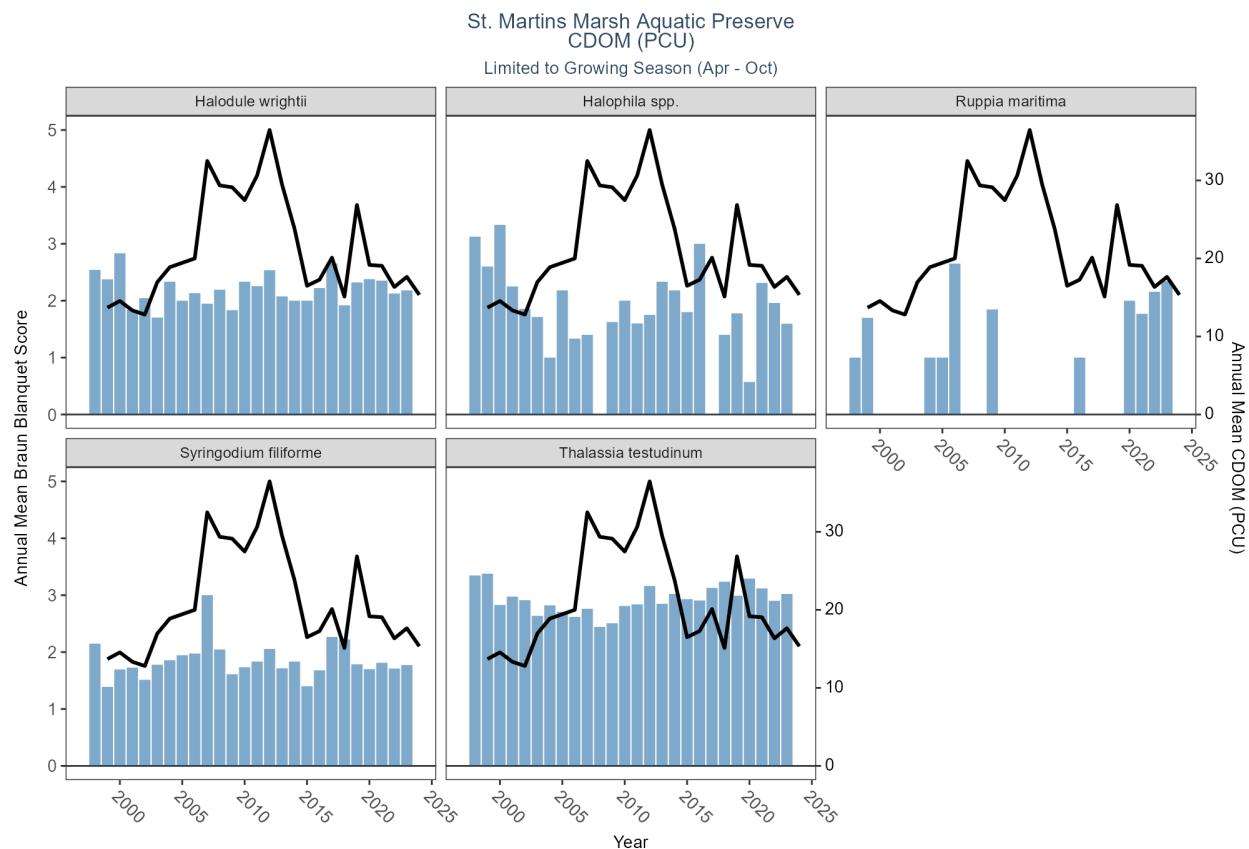


Table 587: WQ Summary for Colored Dissolved Organic Matter in St. Martins Marsh Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
CDOM	1999	13.694	12.500	5.000	28.000	5.476
CDOM	2000	14.548	13.000	6.000	45.000	7.626
CDOM	2001	13.342	11.000	7.000	43.000	7.778
CDOM	2002	12.810	11.000	6.000	29.000	5.283
CDOM	2003	16.974	14.000	9.000	54.000	9.252
CDOM	2004	18.881	15.000	7.000	103.000	15.450
CDOM	2006	20.000	17.500	15.000	30.000	7.071
CDOM	2007	32.500	30.000	20.000	50.000	12.583
CDOM	2008	29.365	30.000	26.020	31.440	2.331
CDOM	2009	29.125	30.650	23.100	32.100	4.076
CDOM	2010	27.475	24.000	20.100	41.800	9.890

ParameterName	Year	mean	median	min	max	sd
CDOM	2011	30.633	22.600	21.900	47.400	14.525
CDOM	2012	36.467	35.700	32.200	41.500	4.697
CDOM	2013	29.467	20.800	20.100	47.500	15.621
CDOM	2014	23.800	23.700	22.600	25.100	1.253
CDOM	2015	16.500	14.300	7.800	35.100	7.097
CDOM	2016	17.278	13.900	6.900	38.900	8.960
CDOM	2017	20.103	15.300	6.700	48.800	11.050
CDOM	2018	15.117	11.350	2.900	70.100	14.201
CDOM	2019	26.857	15.200	7.950	125.000	27.868
CDOM	2020	19.171	15.400	8.250	48.500	10.014
CDOM	2021	19.057	15.681	5.583	98.400	13.763
CDOM	2022	16.346	14.001	6.599	42.052	7.557
CDOM	2023	17.642	16.174	7.320	37.633	7.575
CDOM	2024	15.334	14.475	8.062	32.074	5.920

Programs contributing WQ Data:

Table 588: Programs contributing WQ data for Colored Dissolved Organic Matter in St. Martins Marsh Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
CDOM	479	1999	2023	466
CDOM	540	2017	2018	12
CDOM	5008	2021	2024	184

WQ Program names:

479 - Southwest Florida Water Management District - Water Quality Monitoring

540 - Shellfish Harvest Area Classification Program

5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Dissolved Oxygen

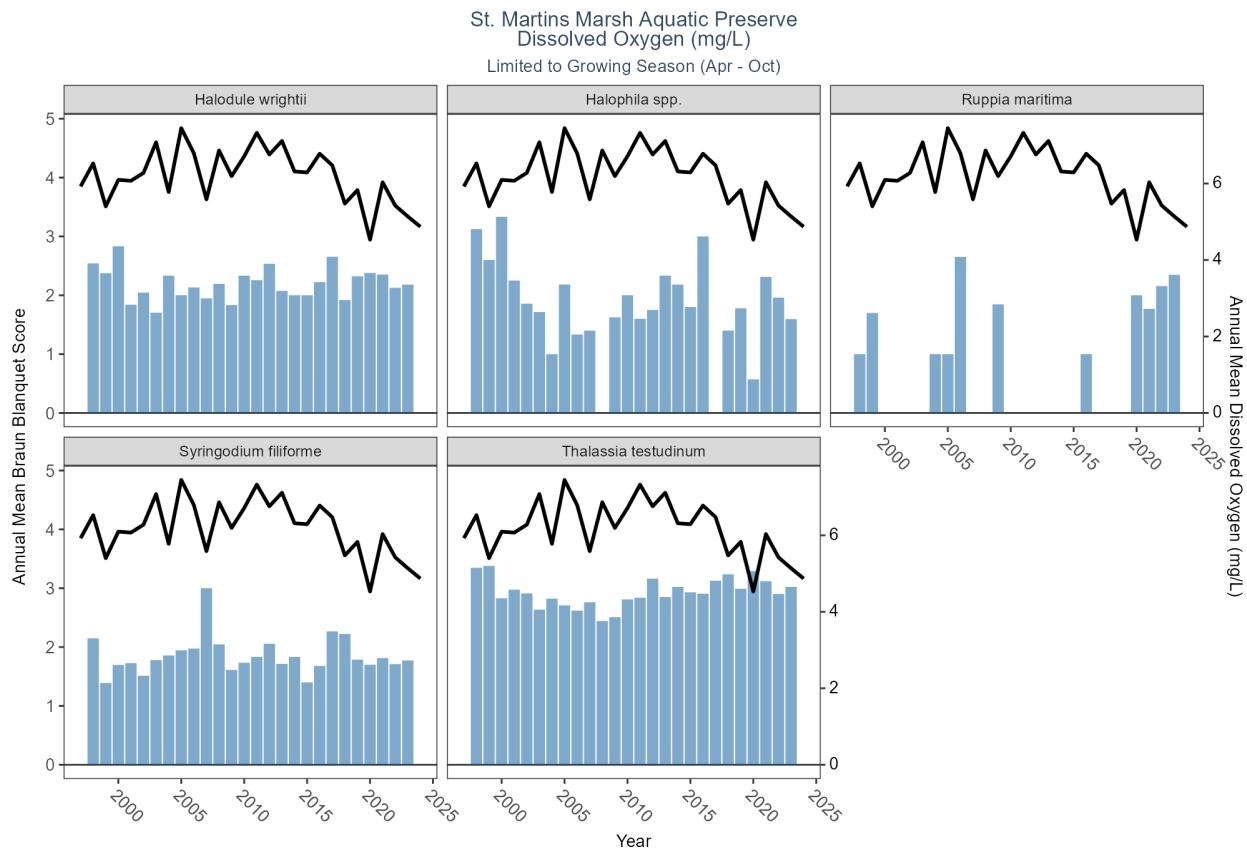


Table 589: WQ Summary for Dissolved Oxygen in St. Martins Marsh Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	1997	5.926	5.400	2.00	13.00	2.182
Dissolved Oxygen	1998	6.528	6.730	2.80	9.20	1.156
Dissolved Oxygen	1999	5.403	5.600	2.30	10.10	1.425
Dissolved Oxygen	2000	6.096	6.500	2.80	9.60	1.373
Dissolved Oxygen	2001	6.072	5.700	3.74	11.37	1.407
Dissolved Oxygen	2002	6.279	6.300	3.20	9.30	1.429
Dissolved Oxygen	2003	7.079	6.800	3.80	11.80	1.500
Dissolved Oxygen	2004	5.778	5.715	2.30	11.19	1.533
Dissolved Oxygen	2005	7.449	7.400	3.20	11.60	1.580
Dissolved Oxygen	2006	6.793	7.200	2.60	11.20	1.739
Dissolved Oxygen	2007	5.586	5.600	2.54	10.10	1.431
Dissolved Oxygen	2008	6.865	6.565	2.39	11.40	1.931
Dissolved Oxygen	2009	6.194	6.200	3.30	9.32	1.081
Dissolved Oxygen	2010	6.713	6.700	1.68	10.21	1.419
Dissolved Oxygen	2011	7.326	7.200	2.20	12.80	1.828
Dissolved Oxygen	2012	6.760	6.800	0.61	8.56	1.028
Dissolved Oxygen	2013	7.114	7.200	2.58	9.30	1.259
Dissolved Oxygen	2014	6.315	6.380	3.28	9.61	0.949
Dissolved Oxygen	2015	6.291	6.490	0.74	9.10	1.888

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2016	6.780	7.000	1.56	11.00	1.914
Dissolved Oxygen	2017	6.475	6.400	3.41	10.70	1.363
Dissolved Oxygen	2018	5.474	5.500	2.73	8.17	1.242
Dissolved Oxygen	2019	5.829	5.520	3.05	10.28	1.814
Dissolved Oxygen	2020	4.531	4.385	2.26	6.19	1.190
Dissolved Oxygen	2021	6.032	6.370	1.67	8.84	1.490
Dissolved Oxygen	2022	5.425	5.500	1.71	11.20	1.818
Dissolved Oxygen	2023	5.139	4.830	1.39	9.05	1.782
Dissolved Oxygen	2024	4.870	4.940	1.59	9.41	1.660

Programs contributing WQ Data:

Table 590: Programs contributing WQ data for Dissolved Oxygen in St. Martins Marsh Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	2003	2008	138
Dissolved Oxygen	95	2011	2018	40
Dissolved Oxygen	103	2021	2021	6
Dissolved Oxygen	115	1991	2004	5
Dissolved Oxygen	118	2015	2020	9
Dissolved Oxygen	479	1997	2023	638
Dissolved Oxygen	540	2017	2018	12
Dissolved Oxygen	560	2006	2024	342
Dissolved Oxygen	5002	1995	2021	4150
Dissolved Oxygen	5008	2021	2024	184

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 479 - Southwest Florida Water Management District - Water Quality Monitoring
- 540 - Shellfish Harvest Area Classification Program
- 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
- 5002 - Florida STORET / WIN
- 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

pH

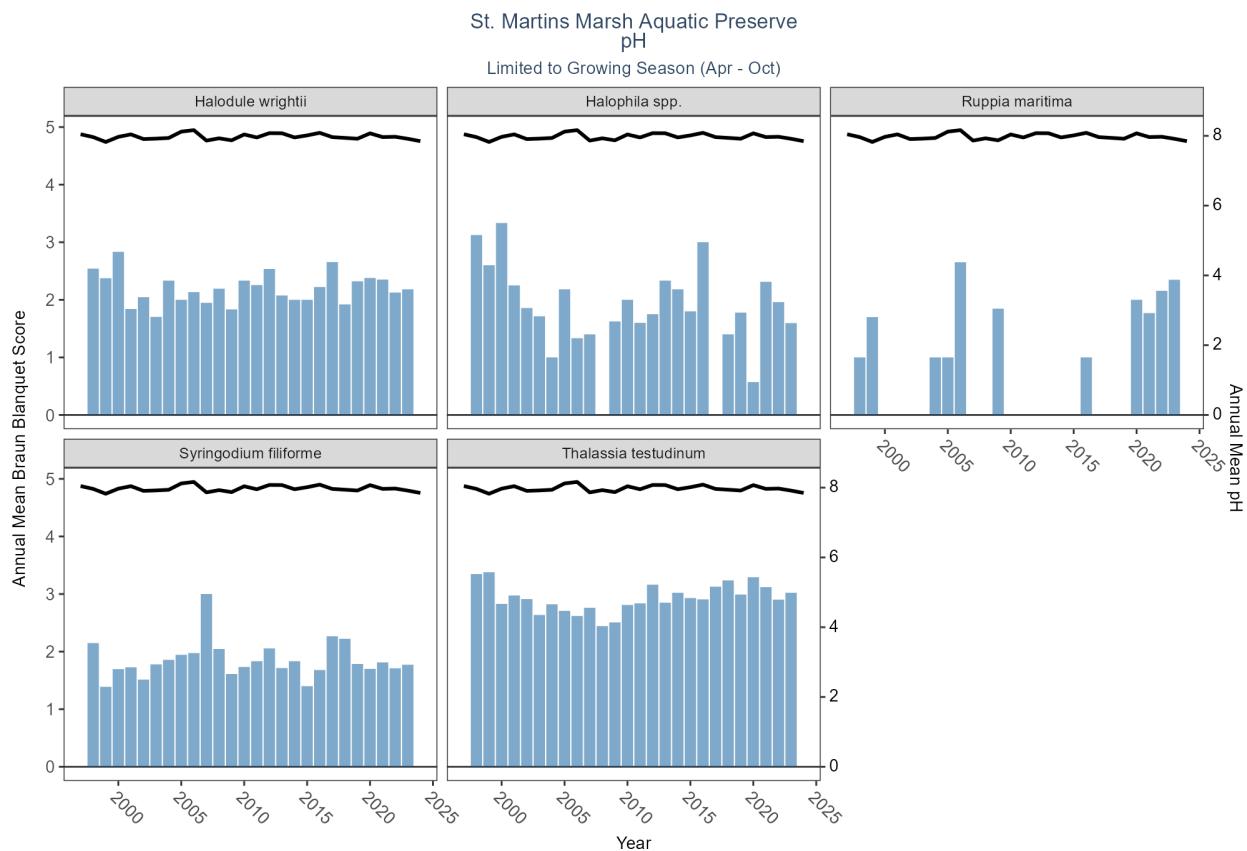


Table 591: WQ Summary for pH in St. Martins Marsh Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	1997	8.046	8.000	7.70	8.50	0.191
pH	1998	7.964	8.000	7.50	8.30	0.195
pH	1999	7.825	7.800	7.40	8.50	0.283
pH	2000	7.971	7.900	7.60	8.50	0.231
pH	2001	8.042	8.000	7.60	8.60	0.264
pH	2002	7.908	7.900	7.60	8.30	0.183
pH	2003	7.920	7.940	5.80	8.55	0.306
pH	2004	7.939	7.900	7.31	8.60	0.266
pH	2005	8.121	8.100	7.80	8.60	0.177
pH	2006	8.164	8.200	7.60	8.50	0.165
pH	2007	7.864	7.880	7.40	8.53	0.233
pH	2008	7.929	7.900	7.20	8.52	0.289
pH	2009	7.872	7.850	7.40	8.86	0.224
pH	2010	8.040	8.070	7.52	8.43	0.188
pH	2011	7.954	8.000	7.30	8.40	0.249
pH	2012	8.077	8.100	7.60	8.50	0.215
pH	2013	8.074	8.100	7.48	8.50	0.209
pH	2014	7.955	8.000	6.29	8.40	0.314
pH	2015	8.013	8.000	7.23	8.51	0.211
pH	2016	8.086	8.100	7.27	8.60	0.254

ParameterName	Year	mean	median	min	max	sd
pH	2017	7.963	8.035	7.27	8.40	0.263
pH	2018	7.941	7.950	7.46	8.31	0.195
pH	2019	7.917	8.010	7.25	8.44	0.320
pH	2020	8.072	8.220	6.18	8.49	0.511
pH	2021	7.965	7.960	7.36	8.60	0.262
pH	2022	7.974	7.950	7.49	8.64	0.247
pH	2023	7.916	7.940	7.26	8.39	0.245
pH	2024	7.848	7.880	7.22	8.33	0.246

Programs contributing WQ Data:

Table 592: Programs contributing WQ data for pH in St. Martins Marsh Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	2003	2008	138
pH	95	2011	2018	41
pH	103	2021	2021	6
pH	115	1991	2004	5
pH	118	2015	2020	6
pH	479	2003	2023	384
pH	540	2018	2018	4
pH	560	2008	2024	306
pH	5002	1995	2021	2136
pH	5008	2021	2024	180

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 479 - Southwest Florida Water Management District - Water Quality Monitoring
- 540 - Shellfish Harvest Area Classification Program
- 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
- 5002 - Florida STORET / WIN
- 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Salinity

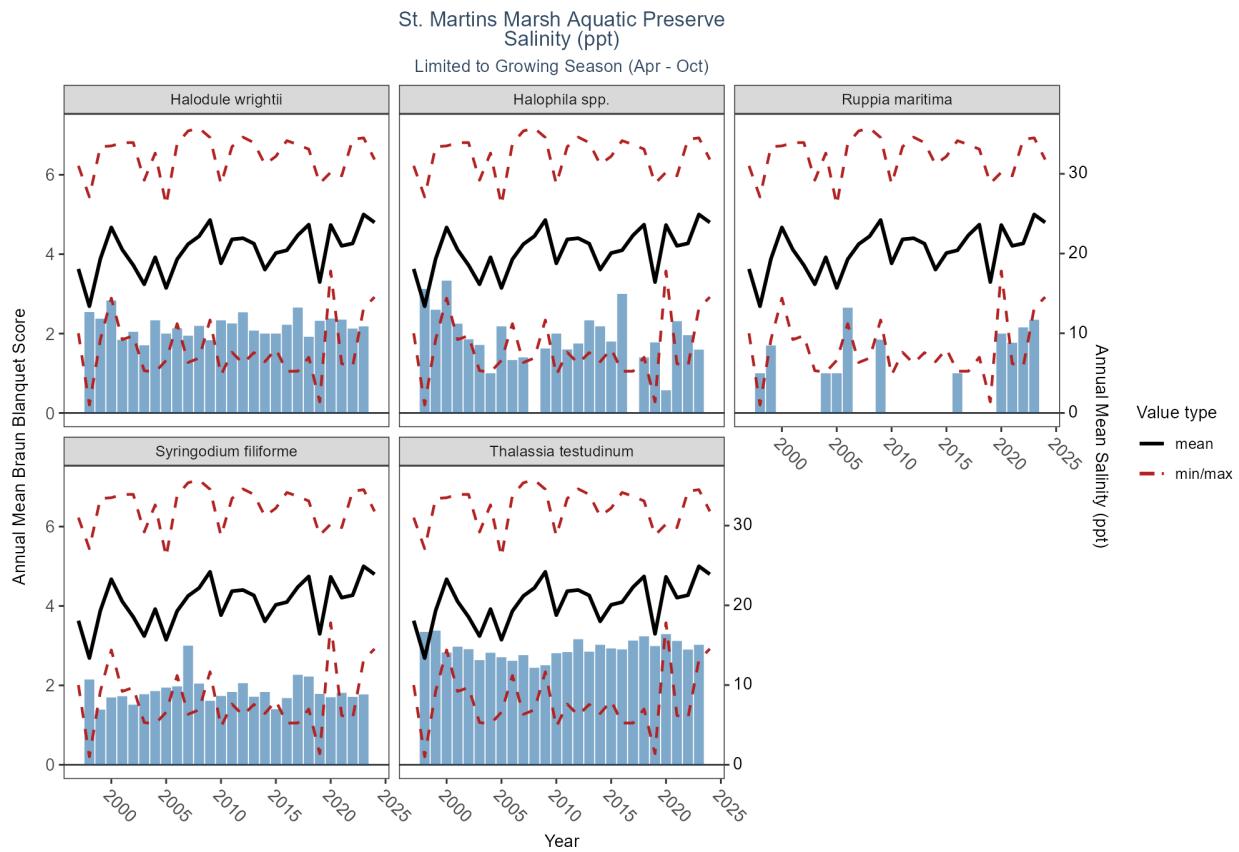


Table 593: WQ Summary for Salinity in St. Martins Marsh Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	1997	18.068	17.550	10.00	31.00	4.624
Salinity	1998	13.387	13.100	1.00	27.10	4.828
Salinity	1999	19.330	18.400	9.20	33.40	4.383
Salinity	2000	23.271	22.500	14.40	33.50	4.503
Salinity	2001	20.486	19.900	9.20	33.90	5.319
Salinity	2002	18.543	17.600	9.70	33.92	5.375
Salinity	2003	16.143	15.500	5.30	29.20	4.829
Salinity	2004	19.527	18.290	5.12	32.60	5.249
Salinity	2005	15.683	15.100	6.60	26.10	4.785
Salinity	2006	19.285	18.600	11.20	33.78	5.009
Salinity	2007	21.178	21.805	6.33	35.38	6.259
Salinity	2008	22.172	22.400	6.89	35.73	5.908
Salinity	2009	24.201	23.740	11.66	34.55	4.813
Salinity	2010	18.771	19.100	4.76	28.70	5.246
Salinity	2011	21.776	21.400	7.61	33.40	5.262
Salinity	2012	21.922	21.525	6.21	34.60	5.736
Salinity	2013	21.241	20.700	7.57	33.91	4.658
Salinity	2014	17.988	17.150	6.43	31.18	4.772
Salinity	2015	20.063	19.600	8.02	32.19	4.506
Salinity	2016	20.405	20.200	5.23	34.16	5.771

ParameterName	Year	mean	median	min	max	sd
Salinity	2017	22.292	22.800	5.24	33.67	6.150
Salinity	2018	23.624	25.440	6.99	33.09	6.109
Salinity	2019	16.420	18.290	1.39	28.80	8.174
Salinity	2020	23.573	23.590	17.81	30.19	3.239
Salinity	2021	20.964	21.900	6.18	29.75	5.260
Salinity	2022	21.268	21.500	5.84	34.31	5.648
Salinity	2023	24.899	25.140	13.15	34.51	4.241
Salinity	2024	23.898	23.790	14.54	31.79	4.087

Programs contributing WQ Data:

Table 594: Programs contributing WQ data for Salinity in St. Martins Marsh Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	2003	2008	138
Salinity	95	2011	2018	41
Salinity	115	1991	2004	5
Salinity	118	2015	2020	8
Salinity	479	1997	2023	629
Salinity	540	2017	2018	12
Salinity	560	2006	2024	342
Salinity	5002	1995	2021	4460
Salinity	5008	2021	2024	188

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 479 - Southwest Florida Water Management District - Water Quality Monitoring
- 540 - Shellfish Harvest Area Classification Program
- 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
- 5002 - Florida STORET / WIN
- 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Secchi Depth

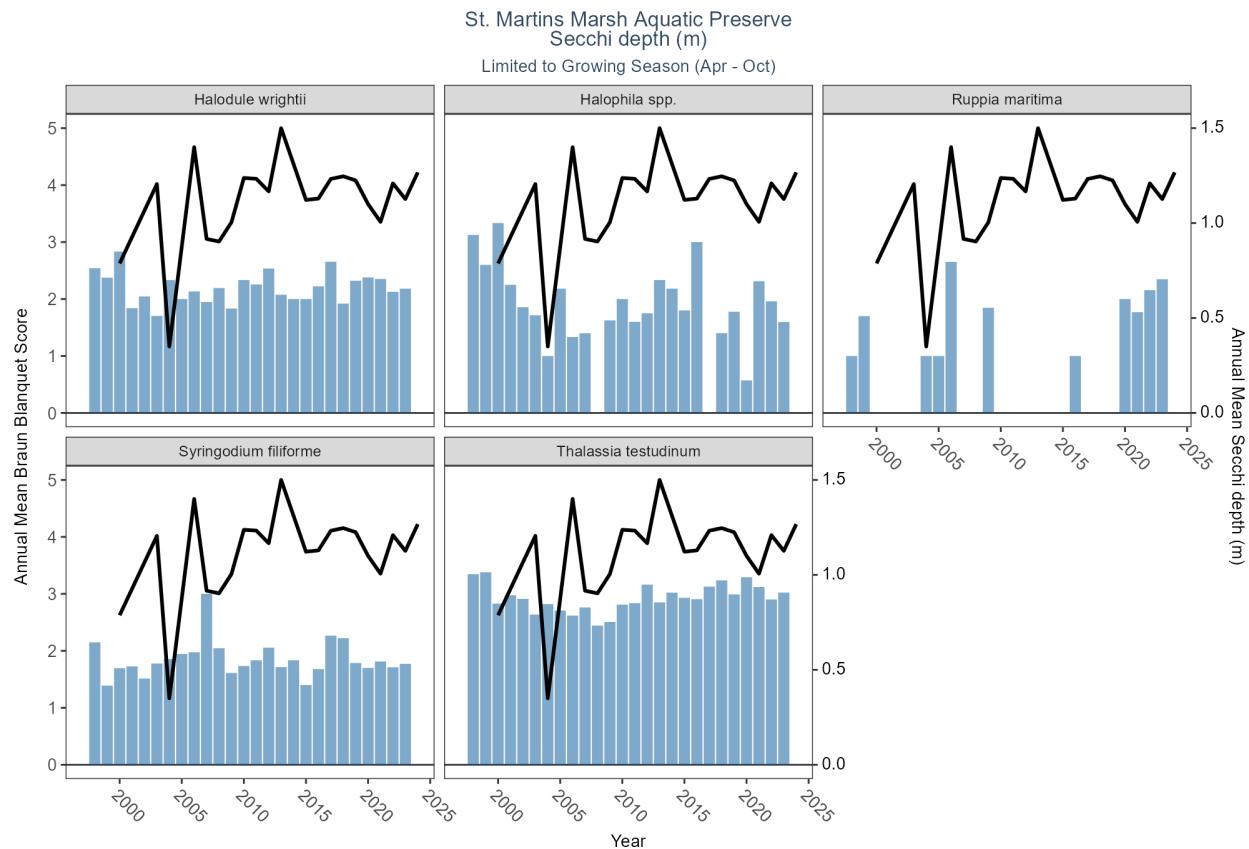


Table 595: WQ Summary for Secchi Depth in St. Martins Marsh Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2000	0.787	0.762	0.610	0.914	0.115
Secchi depth	2003	1.206	1.200	0.900	1.500	0.207
Secchi depth	2004	0.350	0.350	0.200	0.500	0.212
Secchi depth	2006	1.400	1.300	1.250	1.650	0.218
Secchi depth	2007	0.917	0.900	0.400	2.600	0.349
Secchi depth	2008	0.903	0.800	0.400	2.200	0.392
Secchi depth	2009	1.004	0.750	0.400	2.340	0.522
Secchi depth	2010	1.237	1.275	0.900	1.500	0.250
Secchi depth	2011	1.233	1.200	1.100	1.400	0.153
Secchi depth	2012	1.167	1.200	1.000	1.300	0.153
Secchi depth	2013	1.500	1.500	1.500	1.500	NA
Secchi depth	2015	1.122	1.000	0.420	2.600	0.484
Secchi depth	2016	1.129	1.015	0.500	2.240	0.460
Secchi depth	2017	1.233	1.040	0.600	3.800	0.690
Secchi depth	2018	1.246	1.000	0.500	2.500	0.580
Secchi depth	2019	1.225	1.160	0.450	2.060	0.426
Secchi depth	2020	1.100	1.100	1.100	1.100	NA
Secchi depth	2021	1.006	0.960	0.305	2.804	0.452
Secchi depth	2022	1.209	1.100	0.400	2.510	0.548

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2023	1.127	1.080	0.310	2.300	0.434
Secchi depth	2024	1.267	1.100	0.600	2.900	0.580

Programs contributing WQ Data:

Table 596: Programs contributing WQ data for Secchi Depth in St. Martins Marsh Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	2003	2008	138
Secchi depth	115	1991	2004	3
Secchi depth	118	2015	2020	2
Secchi depth	479	2006	2023	262
Secchi depth	514	2000	2000	6
Secchi depth	560	2022	2024	98
Secchi depth	5002	2015	2015	1
Secchi depth	5008	2021	2024	144

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

115 - Environmental Monitoring Assessment Program

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

479 - Southwest Florida Water Management District - Water Quality Monitoring

514 - Florida LAKEWATCH Program

560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring

5002 - Florida STORET / WIN

5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Total Nitrogen & Total Phosphorus

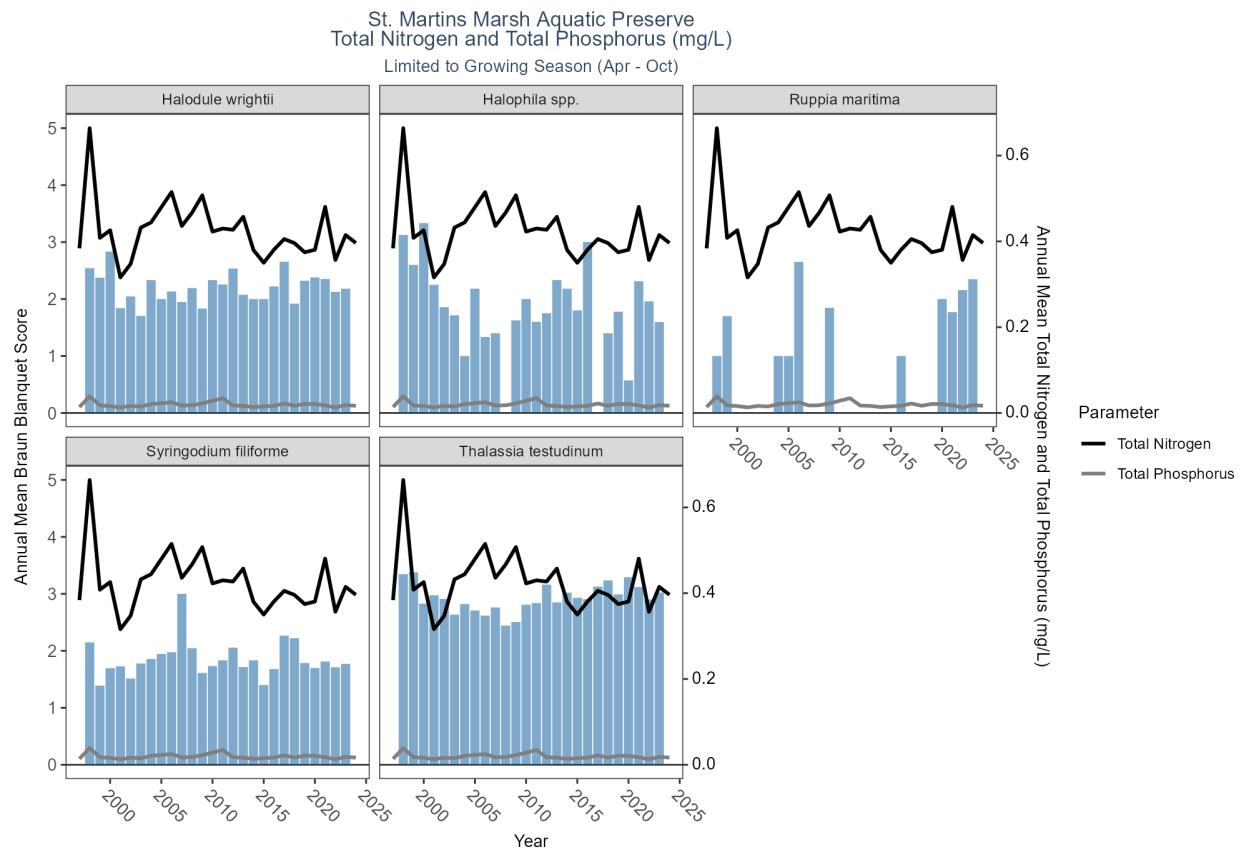


Table 597: WQ Summary for Total Nitrogen & Total Phosphorus in St. Martins Marsh Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	1997	0.384	0.375	0.170	0.600	0.103
Total Nitrogen	1998	0.664	0.635	0.240	1.360	0.216
Total Nitrogen	1999	0.408	0.395	0.260	0.610	0.092
Total Nitrogen	2000	0.426	0.430	0.001	1.160	0.230
Total Nitrogen	2001	0.316	0.310	0.110	0.560	0.109
Total Nitrogen	2002	0.347	0.355	0.170	0.580	0.109
Total Nitrogen	2003	0.432	0.445	0.230	0.650	0.115
Total Nitrogen	2004	0.444	0.410	0.220	0.840	0.131
Total Nitrogen	2006	0.515	0.485	0.400	0.690	0.124
Total Nitrogen	2007	0.436	0.425	0.180	0.690	0.136
Total Nitrogen	2008	0.467	0.460	0.210	0.700	0.119
Total Nitrogen	2009	0.508	0.500	0.140	1.000	0.166
Total Nitrogen	2010	0.423	0.474	0.310	0.490	0.086
Total Nitrogen	2011	0.430	0.470	0.330	0.490	0.087
Total Nitrogen	2012	0.427	0.420	0.276	0.516	0.081
Total Nitrogen	2013	0.457	0.424	0.290	0.646	0.113
Total Nitrogen	2014	0.380	0.384	0.307	0.457	0.036
Total Nitrogen	2015	0.350	0.358	0.180	0.459	0.064
Total Nitrogen	2016	0.381	0.400	0.210	0.540	0.087

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2017	0.405	0.400	0.240	0.664	0.106
Total Nitrogen	2018	0.396	0.350	0.230	0.680	0.122
Total Nitrogen	2019	0.375	0.340	0.220	0.721	0.121
Total Nitrogen	2020	0.380	0.380	0.220	0.606	0.095
Total Nitrogen	2021	0.481	0.487	0.314	0.670	0.114
Total Nitrogen	2022	0.357	0.365	0.200	0.600	0.112
Total Nitrogen	2023	0.415	0.410	0.220	0.680	0.096
Total Nitrogen	2024	0.396	0.385	0.300	0.510	0.069
Total Phosphorus	1997	0.014	0.012	0.003	0.038	0.008
Total Phosphorus	1998	0.039	0.036	0.006	0.079	0.019
Total Phosphorus	1999	0.018	0.016	0.008	0.047	0.009
Total Phosphorus	2000	0.016	0.013	0.000	0.112	0.016
Total Phosphorus	2001	0.013	0.011	0.004	0.030	0.007
Total Phosphorus	2002	0.016	0.014	0.006	0.060	0.010
Total Phosphorus	2003	0.015	0.010	0.005	0.048	0.011
Total Phosphorus	2004	0.021	0.016	0.007	0.073	0.013
Total Phosphorus	2006	0.025	0.024	0.023	0.028	0.002
Total Phosphorus	2007	0.017	0.014	0.006	0.038	0.009
Total Phosphorus	2008	0.018	0.016	0.008	0.030	0.007
Total Phosphorus	2009	0.022	0.020	0.006	0.054	0.011
Total Phosphorus	2010	0.028	0.027	0.019	0.039	0.007
Total Phosphorus	2011	0.034	0.035	0.028	0.040	0.006
Total Phosphorus	2012	0.017	0.016	0.009	0.032	0.008
Total Phosphorus	2013	0.016	0.014	0.010	0.030	0.007
Total Phosphorus	2014	0.014	0.010	0.008	0.026	0.006
Total Phosphorus	2015	0.015	0.014	0.005	0.041	0.008
Total Phosphorus	2016	0.017	0.016	0.005	0.034	0.008
Total Phosphorus	2017	0.022	0.024	0.005	0.042	0.011
Total Phosphorus	2018	0.017	0.016	0.005	0.044	0.010
Total Phosphorus	2019	0.021	0.018	0.005	0.073	0.015
Total Phosphorus	2020	0.021	0.022	0.005	0.044	0.011
Total Phosphorus	2021	0.018	0.015	0.007	0.046	0.008
Total Phosphorus	2022	0.013	0.010	0.005	0.029	0.008
Total Phosphorus	2023	0.018	0.016	0.005	0.039	0.008
Total Phosphorus	2024	0.017	0.014	0.009	0.033	0.007

Programs contributing WQ Data:

Table 598: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in St. Martins Marsh Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	118	2010	2010	1
Total Nitrogen	479	1997	2023	677
Total Nitrogen	514	2000	2000	6
Total Nitrogen	540	2017	2018	12
Total Nitrogen	5002	2000	2021	91
Total Nitrogen	5008	2023	2024	72
Total Phosphorus	103	2021	2021	46
Total Phosphorus	118	2010	2010	1
Total Phosphorus	479	1997	2023	684

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Phosphorus	514	2000	2000	6
Total Phosphorus	540	2017	2018	10
Total Phosphorus	5002	2012	2021	83
Total Phosphorus	5008	2023	2024	72

WQ Program names:

- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
 479 - Southwest Florida Water Management District - Water Quality Monitoring
 514 - Florida LAKEWATCH Program
 540 - Shellfish Harvest Area Classification Program
 5002 - Florida STORET / WIN
 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region
 103 - EPA STOrage and RETrieval Data Warehouse (STORET)

Total Suspended Solids

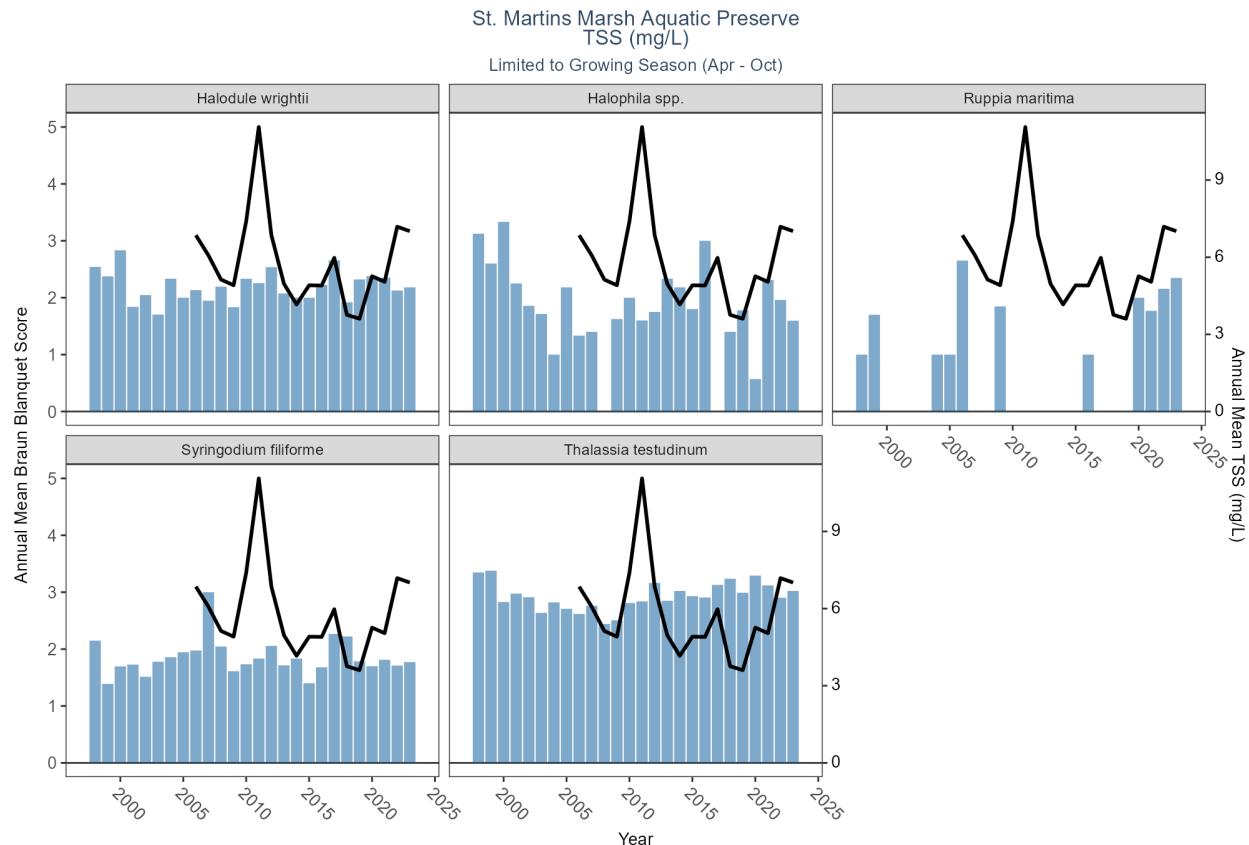


Table 599: WQ Summary for Total Suspended Solids in St. Martins Marsh Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	2006	6.855	5.980	4.26	11.20	3.111
TSS	2007	6.072	5.650	5.56	7.43	0.909

ParameterName	Year	mean	median	min	max	sd
TSS	2008	5.130	4.875	3.34	7.43	1.708
TSS	2009	4.910	4.520	4.25	6.35	0.968
TSS	2010	7.398	7.295	6.08	8.92	1.484
TSS	2011	11.063	13.100	6.09	14.00	4.330
TSS	2012	6.860	5.590	5.41	9.58	2.357
TSS	2013	4.967	5.500	3.68	5.72	1.120
TSS	2014	4.163	3.990	3.86	4.64	0.418
TSS	2015	4.907	4.085	2.73	13.70	2.552
TSS	2016	4.900	4.515	2.48	9.01	2.015
TSS	2017	5.975	5.500	2.41	16.40	3.203
TSS	2018	3.759	2.860	1.10	9.68	2.258
TSS	2019	3.607	3.015	1.10	8.02	1.745
TSS	2020	5.260	4.365	1.19	20.50	4.061
TSS	2021	5.043	4.660	3.99	6.48	1.289
TSS	2022	7.186	6.675	2.94	15.10	3.013
TSS	2023	7.013	6.290	1.55	15.60	3.889

Programs contributing WQ Data:

Table 600: Programs contributing WQ data for Total Susepended Solids in St. Martins Marsh Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	479	2006	2023	224
TSS	5002	2015	2015	1

WQ Program names:

479 - Southwest Florida Water Management District - Water Quality Monitoring

5002 - Florida STORET / WIN

Turbidity

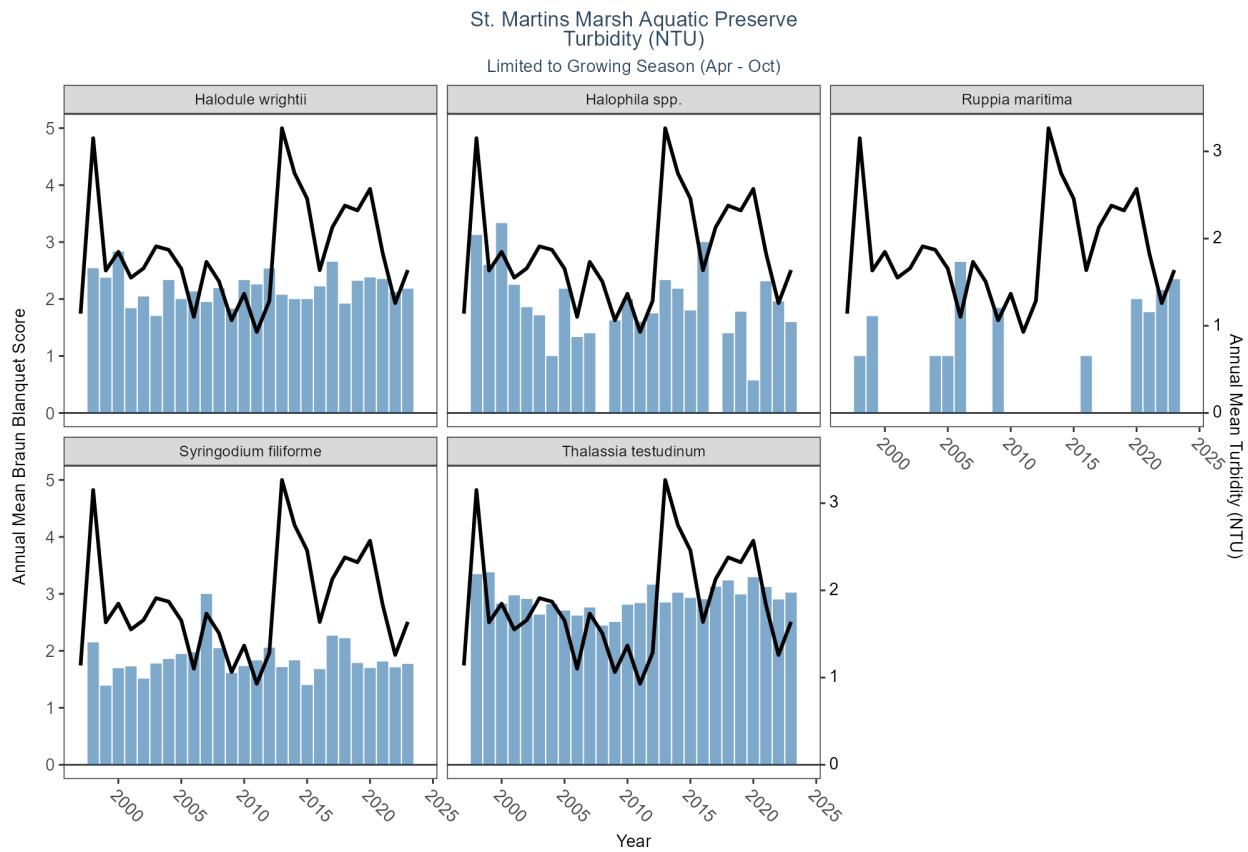


Table 601: WQ Summary for Turbidity in St. Martins Marsh Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	1997	1.139	0.900	0.50	5.90	0.762
Turbidity	1998	3.152	2.900	0.25	6.50	1.272
Turbidity	1999	1.633	1.450	0.62	4.90	0.736
Turbidity	2000	1.848	1.800	0.82	4.50	0.762
Turbidity	2001	1.551	1.400	0.28	4.20	0.943
Turbidity	2002	1.659	1.500	0.53	5.50	0.952
Turbidity	2003	1.911	1.700	0.40	9.50	1.244
Turbidity	2004	1.871	1.500	0.30	5.80	1.235
Turbidity	2005	1.655	1.500	0.50	4.20	0.881
Turbidity	2006	1.102	0.900	0.40	5.34	0.769
Turbidity	2007	1.733	1.200	0.40	6.70	1.299
Turbidity	2008	1.508	1.300	0.40	5.60	0.919
Turbidity	2009	1.063	0.900	0.10	3.49	0.729
Turbidity	2010	1.367	1.300	0.30	5.22	0.894
Turbidity	2011	0.929	0.800	0.20	5.54	0.872
Turbidity	2012	1.286	0.700	0.30	5.36	1.586
Turbidity	2013	3.267	2.910	2.46	4.43	1.032
Turbidity	2014	2.750	2.840	2.41	3.00	0.305
Turbidity	2015	2.458	1.705	0.90	7.87	1.767

ParameterName	Year	mean	median	min	max	sd
Turbidity	2016	1.637	1.200	0.50	5.15	1.033
Turbidity	2017	2.128	1.700	0.40	4.90	1.170
Turbidity	2018	2.379	1.785	0.52	5.71	1.531
Turbidity	2019	2.322	2.150	0.47	5.60	1.503
Turbidity	2020	2.570	2.410	0.40	10.10	1.920
Turbidity	2021	1.837	1.400	0.55	3.90	1.188
Turbidity	2022	1.259	0.795	0.33	3.63	0.988
Turbidity	2023	1.639	1.220	0.28	3.94	1.145

Programs contributing WQ Data:

Table 602: Programs contributing WQ data for Turbidity in St. Martins Marsh Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	103	2021	2021	6
Turbidity	479	2005	2023	229
Turbidity	5002	1995	2021	1732

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

479 - Southwest Florida Water Management District - Water Quality Monitoring

5002 - Florida STORET / WIN

Water Temperature

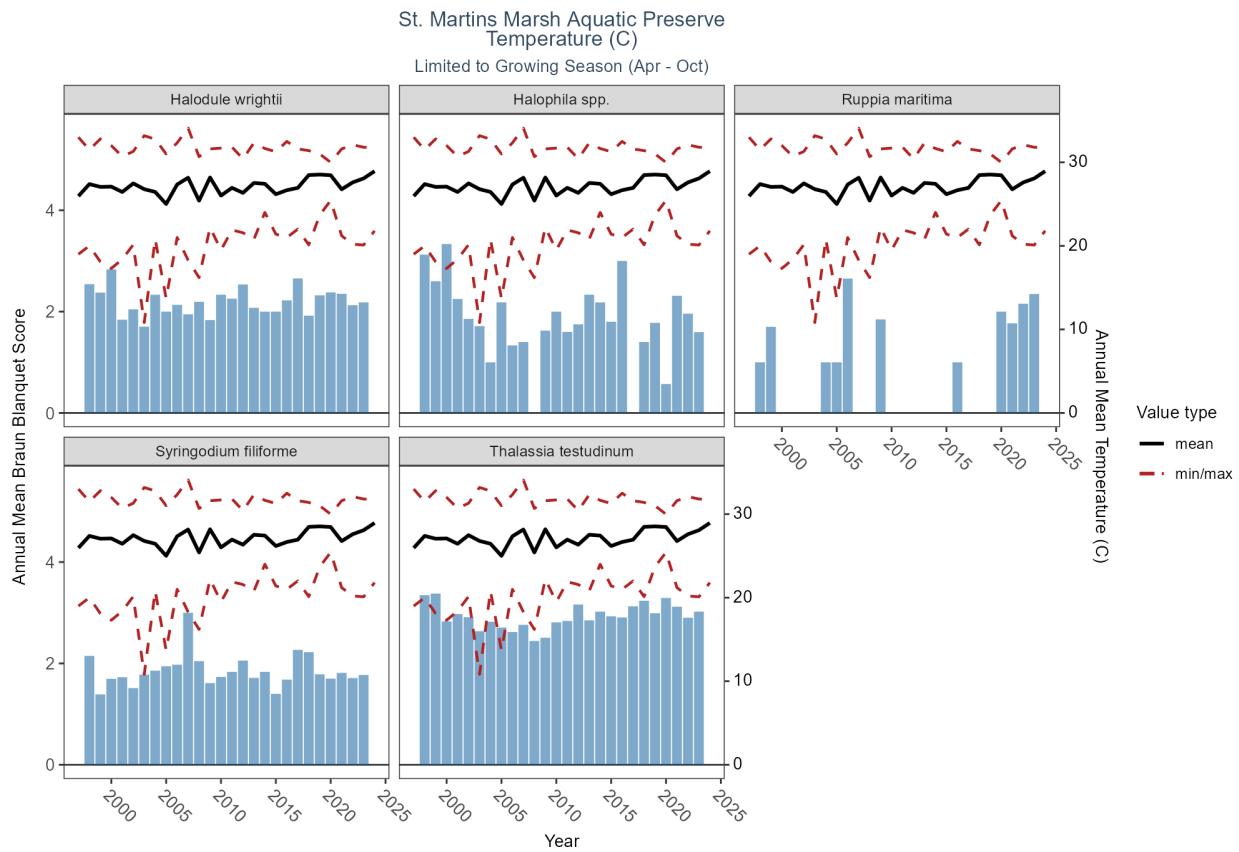


Table 603: WQ Summary for Water Temperature in St. Martins Marsh Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	1997	25.951	27.600	19.00	33.000	3.776
Temperature	1998	27.391	27.800	20.00	31.500	2.999
Temperature	1999	27.057	27.500	18.10	32.800	2.741
Temperature	2000	27.088	28.200	17.30	32.000	3.402
Temperature	2001	26.447	27.800	18.40	30.700	3.304
Temperature	2002	27.479	27.600	20.14	31.300	1.658
Temperature	2003	26.786	27.900	10.82	33.190	3.895
Temperature	2004	26.454	26.900	20.80	32.770	2.612
Temperature	2005	25.010	26.900	13.70	31.000	5.048
Temperature	2006	27.346	27.700	21.00	32.330	2.943
Temperature	2007	28.155	27.700	18.29	34.090	2.383
Temperature	2008	25.412	26.225	16.20	30.670	3.573
Temperature	2009	28.183	28.400	22.20	31.600	2.923
Temperature	2010	26.019	28.200	19.50	31.700	4.362
Temperature	2011	26.947	28.400	21.90	31.820	2.984
Temperature	2012	26.344	26.700	21.57	30.420	2.194
Temperature	2013	27.530	29.000	20.80	32.320	3.626
Temperature	2014	27.429	27.200	24.00	31.650	2.072
Temperature	2015	26.182	27.000	21.40	31.270	3.152

ParameterName	Year	mean	median	min	max	sd
Temperature	2016	26.663	26.300	21.00	32.500	3.753
Temperature	2017	26.938	28.100	22.00	31.600	2.829
Temperature	2018	28.474	29.410	20.12	31.400	2.662
Temperature	2019	28.533	29.259	23.70	31.000	2.057
Temperature	2020	28.457	29.107	25.43	29.987	1.400
Temperature	2021	26.770	27.983	21.20	31.602	2.727
Temperature	2022	27.593	28.550	20.20	32.100	3.000
Temperature	2023	28.072	29.100	20.10	31.800	2.838
Temperature	2024	28.941	29.850	21.80	31.800	2.445

Programs contributing WQ Data:

Table 604: Programs contributing WQ data for Water Temperature in St. Martins Marsh Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	2003	2008	138
Temperature	95	2011	2018	38
Temperature	103	2021	2021	6
Temperature	115	1991	2004	5
Temperature	118	2015	2020	5
Temperature	479	1997	2023	529
Temperature	540	2017	2018	12
Temperature	560	2006	2024	341
Temperature	5002	1995	2021	4474
Temperature	5008	2021	2024	184

WQ Program names:

- 69 - Fisheries-Independent Monitoring (FIM) Program
- 95 - Harmful Algal Bloom Marine Observation Network
- 103 - EPA STOrage and RETrieval Data Warehouse (STORET)
- 115 - Environmental Monitoring Assessment Program
- 118 - National Aquatic Resource Surveys, National Coastal Condition Assessment
- 479 - Southwest Florida Water Management District - Water Quality Monitoring
- 540 - Shellfish Harvest Area Classification Program
- 560 - Big Bend Seagrasses & Nature Coast Aquatic Preserves - Seagrass Monitoring
- 5002 - Florida STORET / WIN
- 5008 - Project COAST (Coastal Assessment Team) - Springs Coast Ecosystem Region

Terra Ceia Aquatic Preserve

Programs contributing SAV Data:

Table 605: Programs contributing SAV data in Terra Ceia Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Braun Blanquet Score	565	1999	2023	3968

SAV Program names:

565 - Tampa Bay Seagrass Monitoring

Chlorophyll-a (corrected & uncorrected)

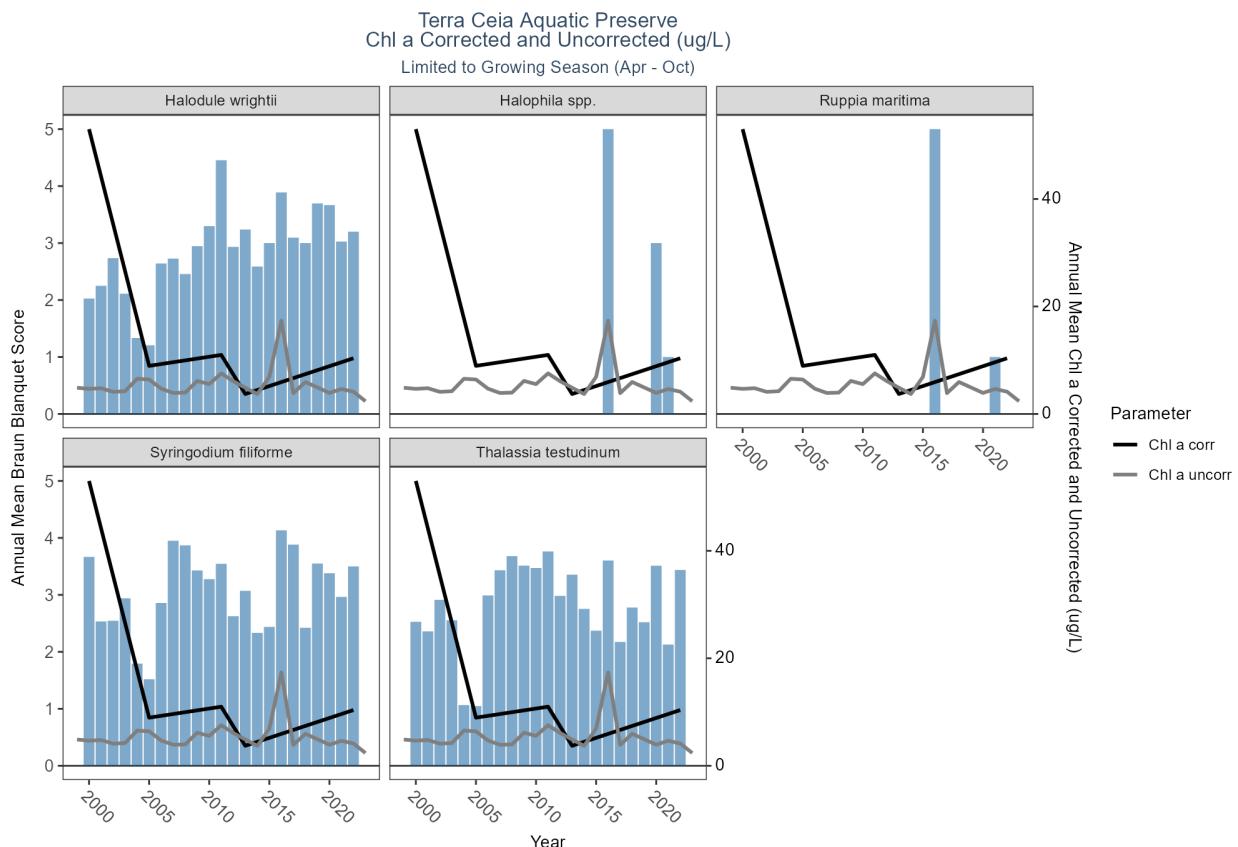


Table 606: WQ Summary for Chlorophyll-a (corrected & uncorrected) in Terra Ceia Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Chl a corr	2000	53.000	53.00	53.00	53.00	NA
Chl a corr	2005	8.950	5.20	0.85	56.00	12.625
Chl a corr	2011	10.988	11.00	7.80	17.00	2.695
Chl a corr	2013	3.717	4.10	1.50	4.90	1.311
Chl a corr	2022	10.367	11.00	5.10	15.00	4.980

ParameterName	Year	mean	median	min	max	sd
Chl a uncorr	1999	4.880	3.95	0.80	12.50	3.341
Chl a uncorr	2000	4.672	4.30	2.00	9.00	2.051
Chl a uncorr	2001	4.790	4.60	0.70	8.80	2.314
Chl a uncorr	2002	4.114	4.00	0.80	8.10	2.116
Chl a uncorr	2003	4.238	3.03	0.95	13.01	3.055
Chl a uncorr	2004	6.548	4.40	2.40	30.36	6.044
Chl a uncorr	2005	6.414	4.80	2.40	18.00	4.381
Chl a uncorr	2006	4.704	2.80	1.10	15.60	3.621
Chl a uncorr	2007	3.907	2.95	0.90	9.10	2.354
Chl a uncorr	2008	3.971	3.60	1.30	10.60	2.156
Chl a uncorr	2009	6.150	5.40	1.50	17.50	3.949
Chl a uncorr	2010	5.553	4.00	1.30	18.00	4.141
Chl a uncorr	2011	7.553	6.70	3.10	19.00	4.706
Chl a uncorr	2012	6.104	5.40	3.10	15.80	3.332
Chl a uncorr	2013	4.880	4.70	3.10	15.10	2.386
Chl a uncorr	2014	3.711	3.10	3.10	7.90	1.203
Chl a uncorr	2015	6.901	5.40	1.60	31.80	5.073
Chl a uncorr	2016	17.374	4.40	1.10	295.30	45.305
Chl a uncorr	2017	3.878	2.45	0.20	18.20	3.858
Chl a uncorr	2018	5.948	3.60	0.30	88.50	11.251
Chl a uncorr	2020	3.917	3.60	1.30	9.10	2.151
Chl a uncorr	2021	4.646	3.50	1.60	11.80	2.776
Chl a uncorr	2022	4.144	2.80	1.30	17.00	3.714
Chl a uncorr	2023	2.371	2.10	1.30	5.10	0.993
Chl a uncorr	2024	2.175	1.60	1.30	4.70	1.305

Programs contributing WQ Data:

Table 607: Programs contributing WQ data for Chlorophyll-a (corrected & uncorrected) in Terra Ceia Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Chl a corr	5002	2000	2022	37
Chl a uncorr	95	2015	2018	204
Chl a uncorr	103	2000	2021	30
Chl a uncorr	118	2010	2010	1
Chl a uncorr	5002	1999	2024	593

WQ Program names:

5002 - Florida STORET / WIN

95 - Harmful Algal Bloom Marine Observation Network

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

Dissolved Oxygen

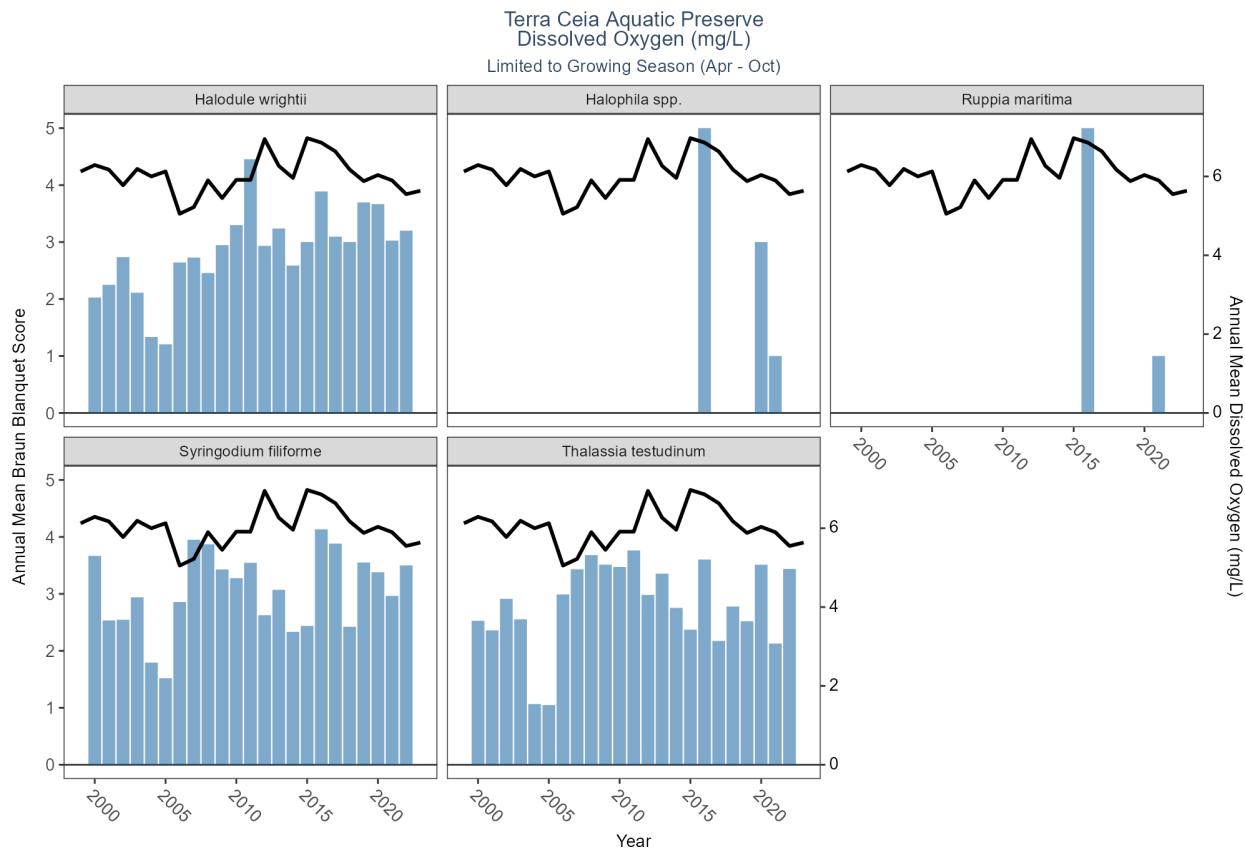


Table 608: WQ Summary for Dissolved Oxygen in Terra Ceia Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	1999	6.124	6.295	0.62	10.20	1.648
Dissolved Oxygen	2000	6.289	6.300	3.30	12.70	0.995
Dissolved Oxygen	2001	6.173	6.100	3.30	11.40	1.162
Dissolved Oxygen	2002	5.776	5.900	1.30	11.20	1.258
Dissolved Oxygen	2003	6.190	6.200	1.90	10.70	1.237
Dissolved Oxygen	2004	6.000	6.000	1.30	13.60	1.725
Dissolved Oxygen	2005	6.127	6.000	1.00	12.80	1.668
Dissolved Oxygen	2006	5.053	4.900	0.30	17.00	2.342
Dissolved Oxygen	2007	5.223	5.270	0.70	13.90	2.190
Dissolved Oxygen	2008	5.900	5.700	1.30	11.20	1.604
Dissolved Oxygen	2009	5.452	5.390	1.80	12.00	1.624
Dissolved Oxygen	2010	5.913	5.800	2.30	15.80	1.505
Dissolved Oxygen	2011	5.912	5.900	1.50	17.10	1.679
Dissolved Oxygen	2012	6.948	6.500	0.70	16.90	2.120
Dissolved Oxygen	2013	6.268	6.200	0.22	14.40	1.522
Dissolved Oxygen	2014	5.961	5.970	1.03	13.20	1.858
Dissolved Oxygen	2015	6.972	6.680	2.10	16.44	1.812
Dissolved Oxygen	2016	6.858	6.700	2.40	15.10	1.684
Dissolved Oxygen	2017	6.634	6.485	1.40	15.30	1.487

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen	2018	6.176	6.100	1.70	12.65	1.542
Dissolved Oxygen	2019	5.880	5.900	2.00	9.00	1.263
Dissolved Oxygen	2020	6.036	5.800	2.60	12.30	1.498
Dissolved Oxygen	2021	5.899	5.840	2.20	14.57	1.157
Dissolved Oxygen	2022	5.550	5.800	0.77	9.07	1.337
Dissolved Oxygen	2023	5.637	5.670	2.84	7.20	0.772
Dissolved Oxygen	2024	6.320	6.490	5.33	7.37	0.596

Programs contributing WQ Data:

Table 609: Programs contributing WQ data for Dissolved Oxygen in Terra Ceia Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen	69	1989	2022	6210
Dissolved Oxygen	95	1999	2018	748
Dissolved Oxygen	103	2021	2021	109
Dissolved Oxygen	118	2015	2020	19
Dissolved Oxygen	4067	1993	2022	1974
Dissolved Oxygen	5002	1995	2024	6945

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

4067 - Tampa Bay Benthic Monitoring

5002 - Florida STORET / WIN

Dissolved Oxygen Saturation

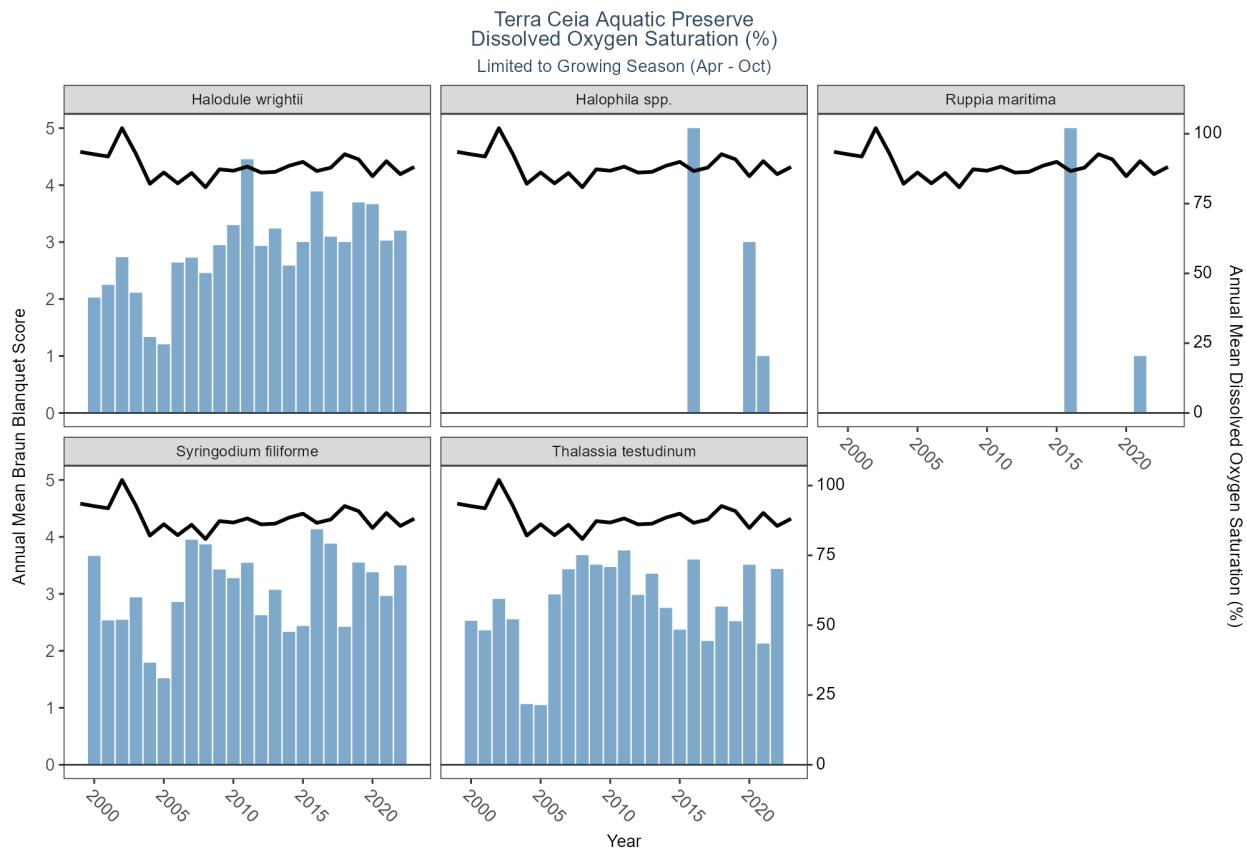


Table 610: WQ Summary for Dissolved Oxygen Saturation in Terra Ceia Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	1999	93.529	88.65	9.9	159.7	31.576
Dissolved Oxygen Saturation	2000	92.650	92.00	77.1	132.9	9.997
Dissolved Oxygen Saturation	2001	91.871	85.70	63.4	123.1	20.584
Dissolved Oxygen Saturation	2002	102.029	100.65	45.6	132.1	20.755
Dissolved Oxygen Saturation	2003	92.814	93.80	61.3	108.7	12.568
Dissolved Oxygen Saturation	2004	82.096	83.35	51.0	101.2	9.566
Dissolved Oxygen Saturation	2005	86.152	89.40	50.2	114.3	12.710
Dissolved Oxygen Saturation	2006	82.251	81.25	36.5	127.5	13.648
Dissolved Oxygen Saturation	2007	85.970	85.80	42.1	124.4	11.272
Dissolved Oxygen Saturation	2008	80.860	83.40	38.2	100.5	11.500
Dissolved Oxygen Saturation	2009	87.282	87.10	47.6	168.7	16.623
Dissolved Oxygen Saturation	2010	86.766	86.35	55.9	107.9	9.363
Dissolved Oxygen Saturation	2011	88.249	87.85	66.1	114.8	8.208
Dissolved Oxygen Saturation	2012	86.105	86.50	48.9	130.7	14.205
Dissolved Oxygen Saturation	2013	86.357	87.50	3.1	132.3	20.735
Dissolved Oxygen Saturation	2014	88.533	89.50	48.0	110.7	10.742
Dissolved Oxygen Saturation	2015	89.946	90.00	55.9	141.0	11.698
Dissolved Oxygen Saturation	2016	86.658	88.70	38.3	129.2	13.705
Dissolved Oxygen Saturation	2017	87.868	89.00	26.8	127.0	11.431

ParameterName	Year	mean	median	min	max	sd
Dissolved Oxygen Saturation	2018	92.688	91.85	52.7	148.5	15.364
Dissolved Oxygen Saturation	2019	90.857	93.55	51.5	104.8	11.384
Dissolved Oxygen Saturation	2020	84.793	86.25	45.6	113.4	12.932
Dissolved Oxygen Saturation	2021	90.204	88.50	58.6	206.3	18.150
Dissolved Oxygen Saturation	2022	85.541	89.30	11.5	134.5	16.207
Dissolved Oxygen Saturation	2023	88.134	87.70	41.6	116.0	10.551
Dissolved Oxygen Saturation	2024	94.405	94.50	84.5	110.0	5.848

Programs contributing WQ Data:

Table 611: Programs contributing WQ data for Dissolved Oxygen Saturation in Terra Ceia Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Dissolved Oxygen Saturation	95	2014	2018	45
Dissolved Oxygen Saturation	4067	1993	2022	1998
Dissolved Oxygen Saturation	5002	2004	2024	1762

WQ Program names:

95 - Harmful Algal Bloom Marine Observation Network

4067 - Tampa Bay Benthic Monitoring

5002 - Florida STORET / WIN

pH

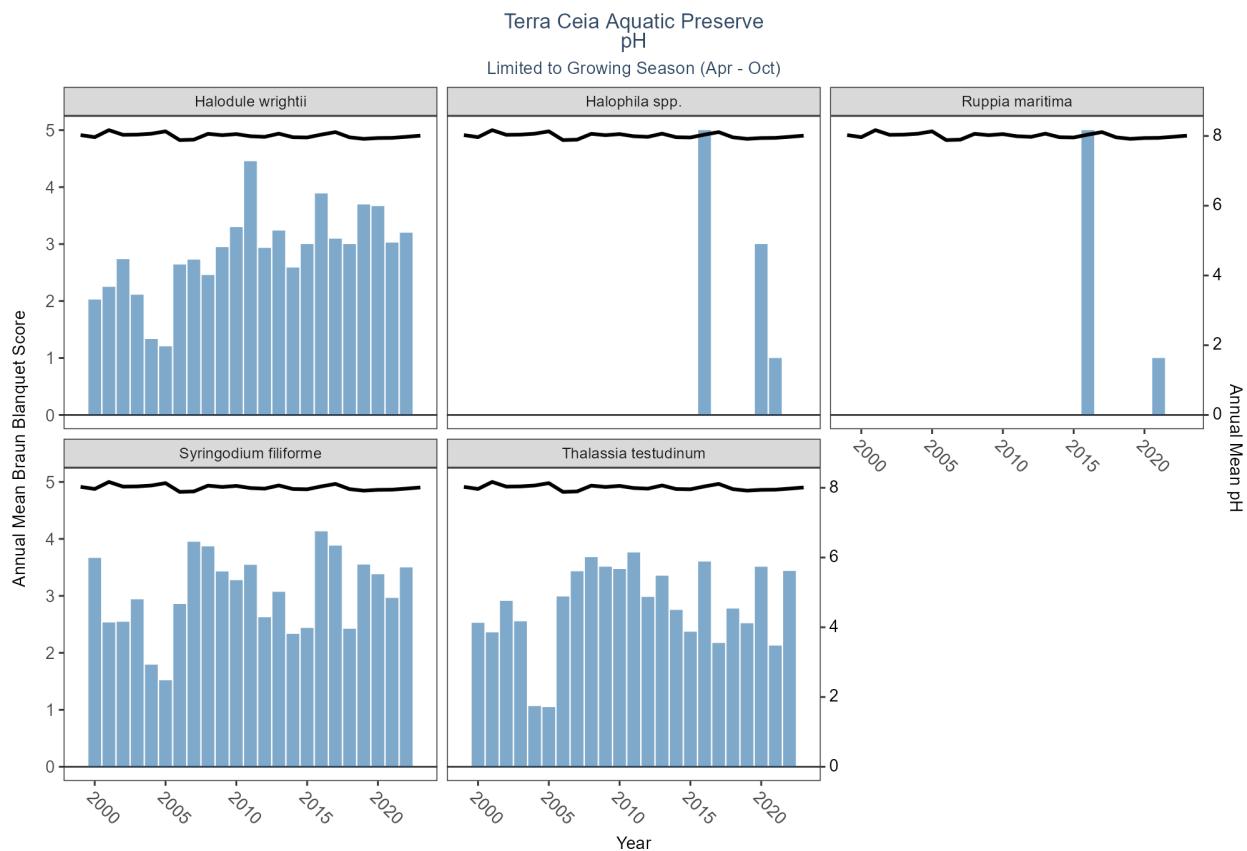


Table 612: WQ Summary for pH in Terra Ceia Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
pH	1999	8.026	8.05	7.40	8.50	0.164
pH	2000	7.967	7.99	6.97	8.85	0.228
pH	2001	8.168	8.10	7.10	8.70	0.207
pH	2002	8.033	8.00	7.20	9.10	0.226
pH	2003	8.039	8.00	6.10	8.90	0.226
pH	2004	8.065	8.10	7.10	8.50	0.213
pH	2005	8.133	8.10	7.40	10.20	0.379
pH	2006	7.882	8.00	6.80	8.80	0.330
pH	2007	7.895	8.00	7.10	9.10	0.421
pH	2008	8.062	8.10	7.34	8.80	0.216
pH	2009	8.023	8.07	5.00	8.40	0.242
pH	2010	8.054	8.10	6.60	8.90	0.252
pH	2011	7.992	8.00	7.10	8.40	0.161
pH	2012	7.975	8.00	6.70	8.69	0.295
pH	2013	8.067	8.07	6.90	9.26	0.307
pH	2014	7.964	8.00	5.34	12.70	0.422
pH	2015	7.957	8.00	5.10	8.32	0.240
pH	2016	8.039	8.03	6.02	8.80	0.214
pH	2017	8.111	8.10	6.57	9.70	0.314
pH	2018	7.961	8.00	6.52	8.50	0.262

ParameterName	Year	mean	median	min	max	sd
pH	2019	7.918	8.00	5.73	8.30	0.287
pH	2020	7.941	8.00	5.86	8.40	0.316
pH	2021	7.946	8.00	6.10	8.50	0.328
pH	2022	7.976	8.00	6.20	8.60	0.269
pH	2023	8.009	8.01	7.30	8.30	0.176
pH	2024	8.080	8.10	7.50	8.24	0.118

Programs contributing WQ Data:

Table 613: Programs contributing WQ data for pH in Terra Ceia Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
pH	69	1989	2022	6145
pH	95	1999	2018	759
pH	103	2021	2021	109
pH	118	2015	2020	13
pH	4067	1993	2022	1693
pH	5002	1995	2024	5960

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

4067 - Tampa Bay Benthic Monitoring

5002 - Florida STORET / WIN

Salinity

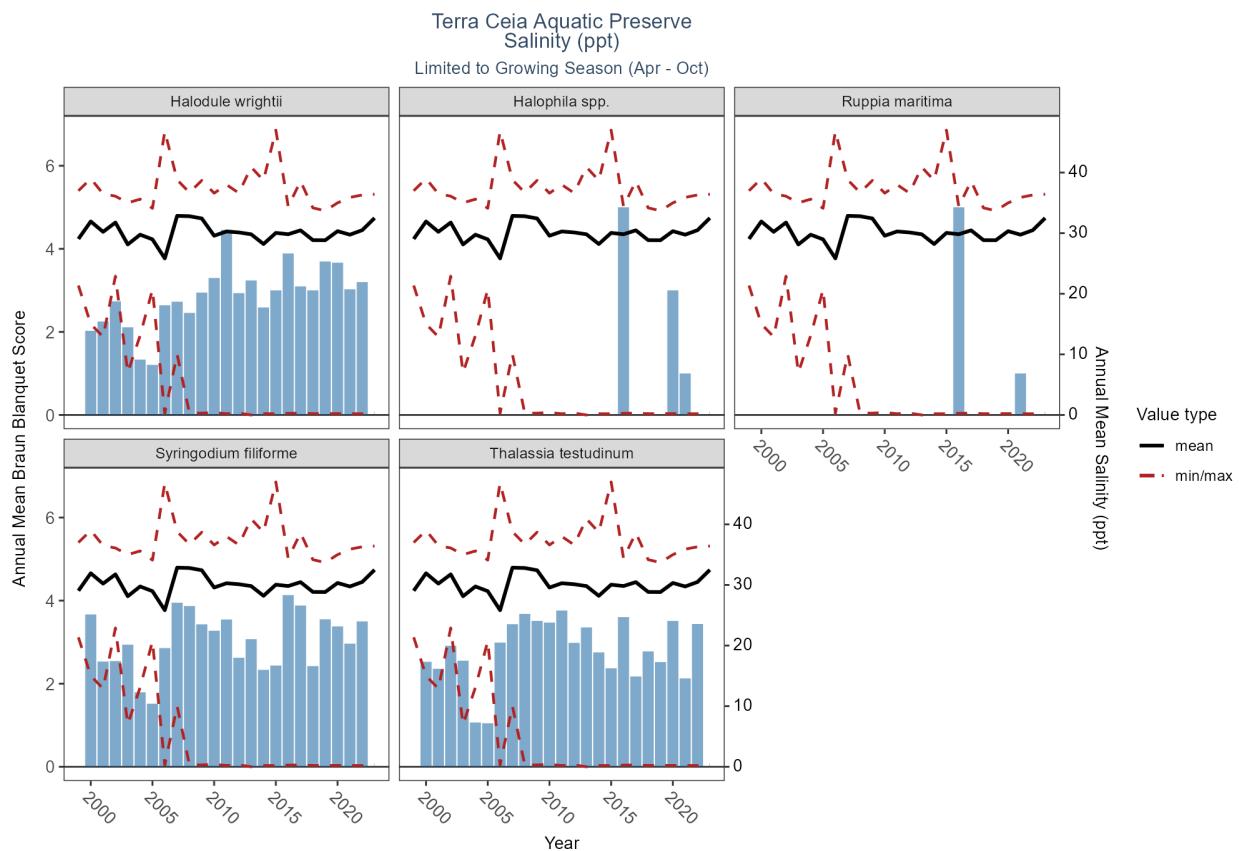


Table 614: WQ Summary for Salinity in Terra Ceia Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Salinity	1999	29.044	29.000	21.36	37.00	2.300
Salinity	2000	31.930	32.000	15.00	39.00	2.642
Salinity	2001	30.222	30.500	12.90	36.50	3.645
Salinity	2002	31.753	31.800	22.90	36.10	2.295
Salinity	2003	28.140	29.800	7.00	35.00	4.430
Salinity	2004	29.750	30.700	13.10	35.61	3.077
Salinity	2005	28.978	29.275	20.70	34.10	2.428
Salinity	2006	25.835	29.600	0.30	46.80	9.610
Salinity	2007	32.855	33.900	10.00	38.80	3.948
Salinity	2008	32.797	33.400	0.30	36.70	4.135
Salinity	2009	32.426	32.360	0.30	38.70	4.098
Salinity	2010	29.574	30.200	0.40	36.60	4.269
Salinity	2011	30.282	30.800	0.20	38.00	4.109
Salinity	2012	30.119	29.800	0.30	36.62	4.412
Salinity	2013	29.816	29.600	0.00	40.90	5.232
Salinity	2014	28.207	30.600	0.20	38.70	7.222
Salinity	2015	30.045	31.410	0.20	47.00	4.823
Salinity	2016	29.823	30.310	0.27	34.40	3.215
Salinity	2017	30.467	30.500	0.29	38.58	4.340
Salinity	2018	28.847	29.720	0.21	34.17	4.909

ParameterName	Year	mean	median	min	max	sd
Salinity	2019	28.835	30.200	0.21	33.70	5.401
Salinity	2020	30.329	31.155	0.22	35.00	4.467
Salinity	2021	29.750	30.100	0.20	35.90	4.708
Salinity	2022	30.494	31.600	0.20	36.30	5.009
Salinity	2023	32.500	33.990	0.30	36.42	7.836
Salinity	2024	33.270	33.990	12.40	35.70	3.537

Programs contributing WQ Data:

Table 615: Programs contributing WQ data for Salinity in Terra Ceia Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Salinity	69	1989	2022	6238
Salinity	95	1966	2018	1151
Salinity	118	2015	2020	30
Salinity	4067	1993	2022	1710
Salinity	5002	1995	2024	6851

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

4067 - Tampa Bay Benthic Monitoring

5002 - Florida STORET / WIN

Secchi Depth

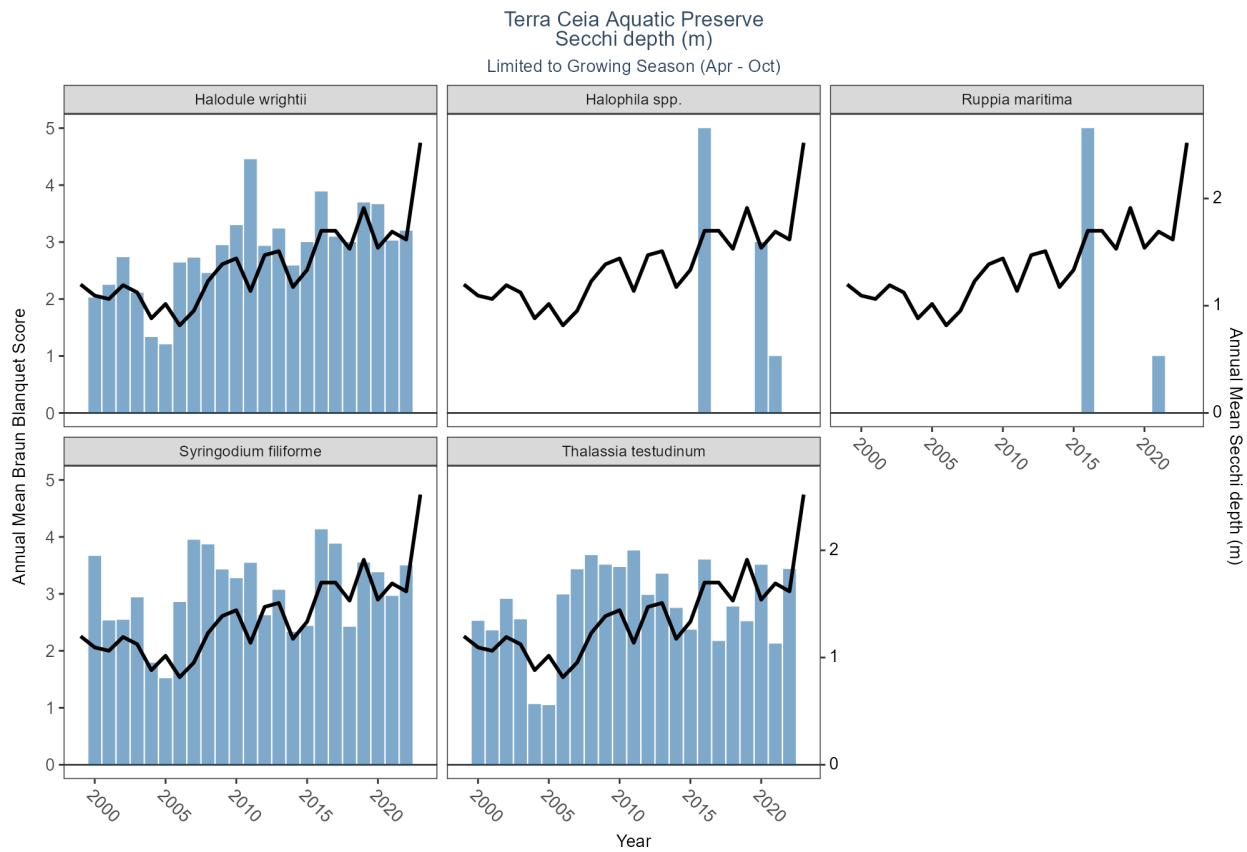


Table 616: WQ Summary for Secchi Depth in Terra Ceia Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Secchi depth	1999	1.199	1.3	0.4	2.00	0.451
Secchi depth	2000	1.094	1.0	0.3	4.20	0.610
Secchi depth	2001	1.063	1.0	0.3	2.70	0.501
Secchi depth	2002	1.191	1.0	0.3	3.20	0.736
Secchi depth	2003	1.124	1.0	0.2	3.10	0.567
Secchi depth	2004	0.882	0.8	0.2	3.00	0.466
Secchi depth	2005	1.016	0.9	0.3	3.50	0.601
Secchi depth	2006	0.817	0.6	0.1	4.50	0.797
Secchi depth	2007	0.953	0.7	0.3	3.50	0.755
Secchi depth	2008	1.229	1.1	0.3	3.00	0.531
Secchi depth	2009	1.387	1.2	0.3	3.00	0.665
Secchi depth	2010	1.441	1.0	0.3	4.00	1.010
Secchi depth	2011	1.138	1.0	0.2	3.00	0.587
Secchi depth	2012	1.472	1.2	0.3	3.20	0.807
Secchi depth	2013	1.509	1.3	0.3	4.00	0.865
Secchi depth	2014	1.174	0.9	0.3	3.80	0.769
Secchi depth	2015	1.334	1.2	0.3	6.43	0.762
Secchi depth	2016	1.699	1.7	0.3	4.70	0.892
Secchi depth	2017	1.699	1.4	0.4	4.50	0.975
Secchi depth	2018	1.530	1.3	0.2	4.00	0.814

ParameterName	Year	mean	median	min	max	sd
Secchi depth	2019	1.912	1.5	0.2	5.20	1.146
Secchi depth	2020	1.540	1.3	0.2	4.70	0.830
Secchi depth	2021	1.691	1.7	0.4	4.40	0.868
Secchi depth	2022	1.617	1.4	0.3	5.10	0.931
Secchi depth	2023	2.520	2.5	0.5	6.00	1.115
Secchi depth	2024	2.656	2.8	1.0	4.90	0.900

Programs contributing WQ Data:

Table 617: Programs contributing WQ data for Secchi Depth in Terra Ceia Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Secchi depth	69	1995	2022	5554
Secchi depth	103	2021	2021	53
Secchi depth	118	2015	2020	3
Secchi depth	5002	2000	2024	363

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

5002 - Florida STORET / WIN

Total Nitrogen & Total Phosphorus

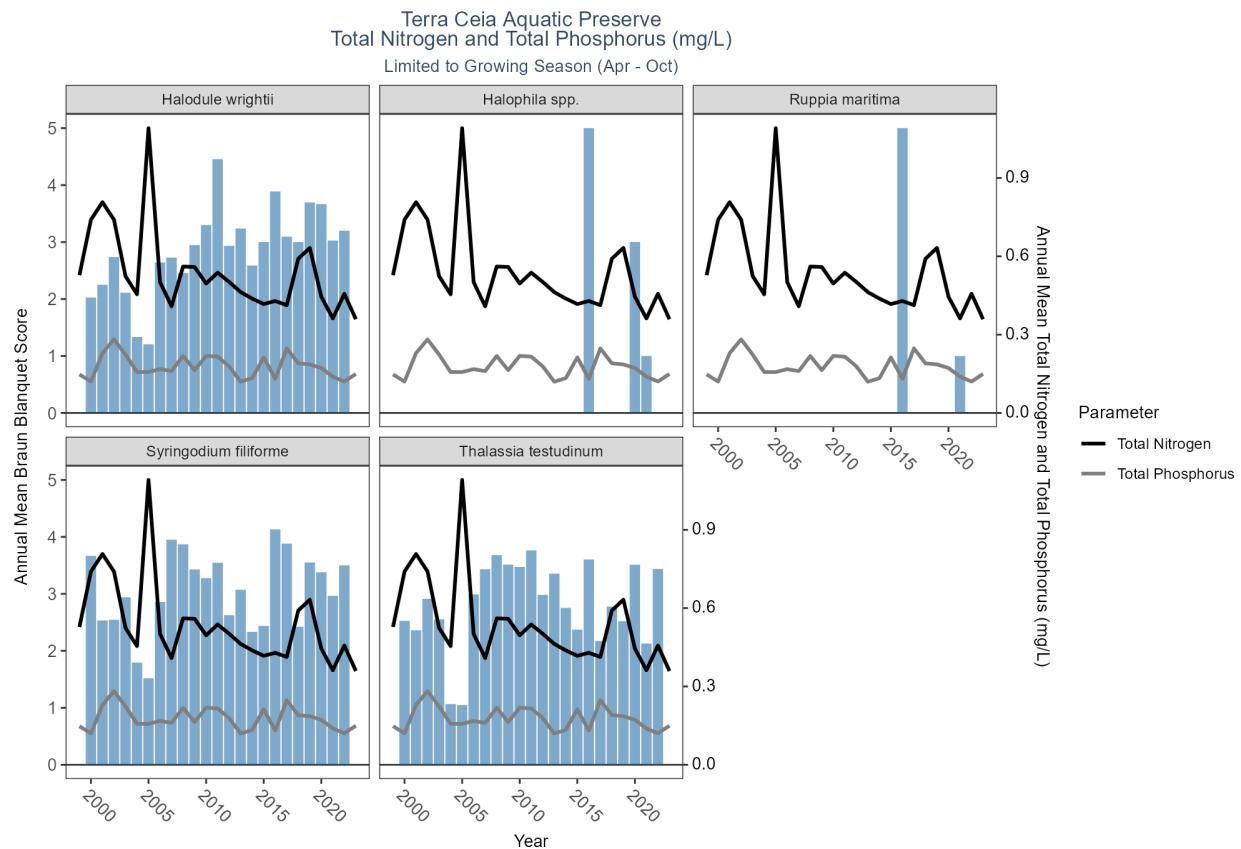


Table 618: WQ Summary for Total Nitrogen & Total Phosphorus in Terra Ceia Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	1999	0.528	0.505	0.214	0.951	0.162
Total Nitrogen	2000	0.740	0.710	0.158	2.134	0.358
Total Nitrogen	2001	0.807	0.760	0.382	2.297	0.334
Total Nitrogen	2002	0.740	0.665	0.269	2.028	0.333
Total Nitrogen	2003	0.524	0.486	0.243	1.302	0.243
Total Nitrogen	2004	0.455	0.390	0.020	1.240	0.254
Total Nitrogen	2005	1.091	0.470	0.180	39.006	4.551
Total Nitrogen	2006	0.501	0.342	0.030	2.340	0.545
Total Nitrogen	2007	0.409	0.337	0.040	1.509	0.280
Total Nitrogen	2008	0.561	0.404	0.096	2.650	0.483
Total Nitrogen	2009	0.559	0.492	0.264	2.420	0.374
Total Nitrogen	2010	0.496	0.388	0.080	2.040	0.377
Total Nitrogen	2011	0.537	0.357	0.094	1.920	0.431
Total Nitrogen	2012	0.502	0.337	0.040	2.070	0.470
Total Nitrogen	2013	0.463	0.333	0.110	1.970	0.407
Total Nitrogen	2014	0.438	0.319	0.040	2.170	0.506
Total Nitrogen	2015	0.417	0.358	0.031	1.390	0.258
Total Nitrogen	2016	0.429	0.339	0.191	1.940	0.298
Total Nitrogen	2017	0.413	0.264	0.016	1.890	0.436

ParameterName	Year	mean	median	min	max	sd
Total Nitrogen	2018	0.591	0.421	0.280	1.773	0.433
Total Nitrogen	2019	0.632	0.458	0.320	1.999	0.414
Total Nitrogen	2020	0.445	0.392	0.194	1.576	0.289
Total Nitrogen	2021	0.362	0.284	0.136	1.571	0.273
Total Nitrogen	2022	0.457	0.338	0.136	1.513	0.344
Total Nitrogen	2023	0.359	0.269	0.136	1.399	0.268
Total Nitrogen	2024	0.557	0.459	0.313	1.348	0.240
Total Phosphorus	1999	0.148	0.151	0.011	0.449	0.084
Total Phosphorus	2000	0.120	0.111	0.022	0.350	0.068
Total Phosphorus	2001	0.229	0.131	0.031	1.570	0.254
Total Phosphorus	2002	0.282	0.209	0.037	1.550	0.228
Total Phosphorus	2003	0.224	0.200	0.020	1.800	0.181
Total Phosphorus	2004	0.157	0.135	0.030	0.670	0.113
Total Phosphorus	2005	0.157	0.140	0.040	0.690	0.113
Total Phosphorus	2006	0.168	0.110	0.037	0.840	0.168
Total Phosphorus	2007	0.160	0.098	0.056	1.667	0.221
Total Phosphorus	2008	0.218	0.121	0.033	1.140	0.234
Total Phosphorus	2009	0.164	0.096	0.050	1.010	0.216
Total Phosphorus	2010	0.219	0.098	0.056	2.720	0.417
Total Phosphorus	2011	0.216	0.089	0.036	0.980	0.252
Total Phosphorus	2012	0.178	0.100	0.052	1.220	0.234
Total Phosphorus	2013	0.120	0.065	0.048	0.750	0.150
Total Phosphorus	2014	0.133	0.078	0.056	0.880	0.174
Total Phosphorus	2015	0.213	0.088	0.030	1.000	0.251
Total Phosphorus	2016	0.131	0.096	0.030	0.560	0.137
Total Phosphorus	2017	0.247	0.082	0.019	0.977	0.312
Total Phosphorus	2018	0.190	0.094	0.019	0.931	0.241
Total Phosphorus	2019	0.186	0.095	0.035	0.771	0.195
Total Phosphorus	2020	0.172	0.106	0.021	0.830	0.171
Total Phosphorus	2021	0.139	0.116	0.019	0.730	0.112
Total Phosphorus	2022	0.120	0.050	0.036	0.770	0.163
Total Phosphorus	2023	0.149	0.140	0.019	0.702	0.135
Total Phosphorus	2024	0.097	0.068	0.019	0.669	0.127

Programs contributing WQ Data:

Table 619: Programs contributing WQ data for Total Nitrogen & Total Phosphorus in Terra Ceia Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Total Nitrogen	103	2000	2000	6
Total Nitrogen	118	2010	2010	1
Total Nitrogen	5002	1996	2024	1338
Total Phosphorus	103	2000	2021	58
Total Phosphorus	5002	1996	2024	1742

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

5002 - Florida STORET / WIN

Total Suspended Solids

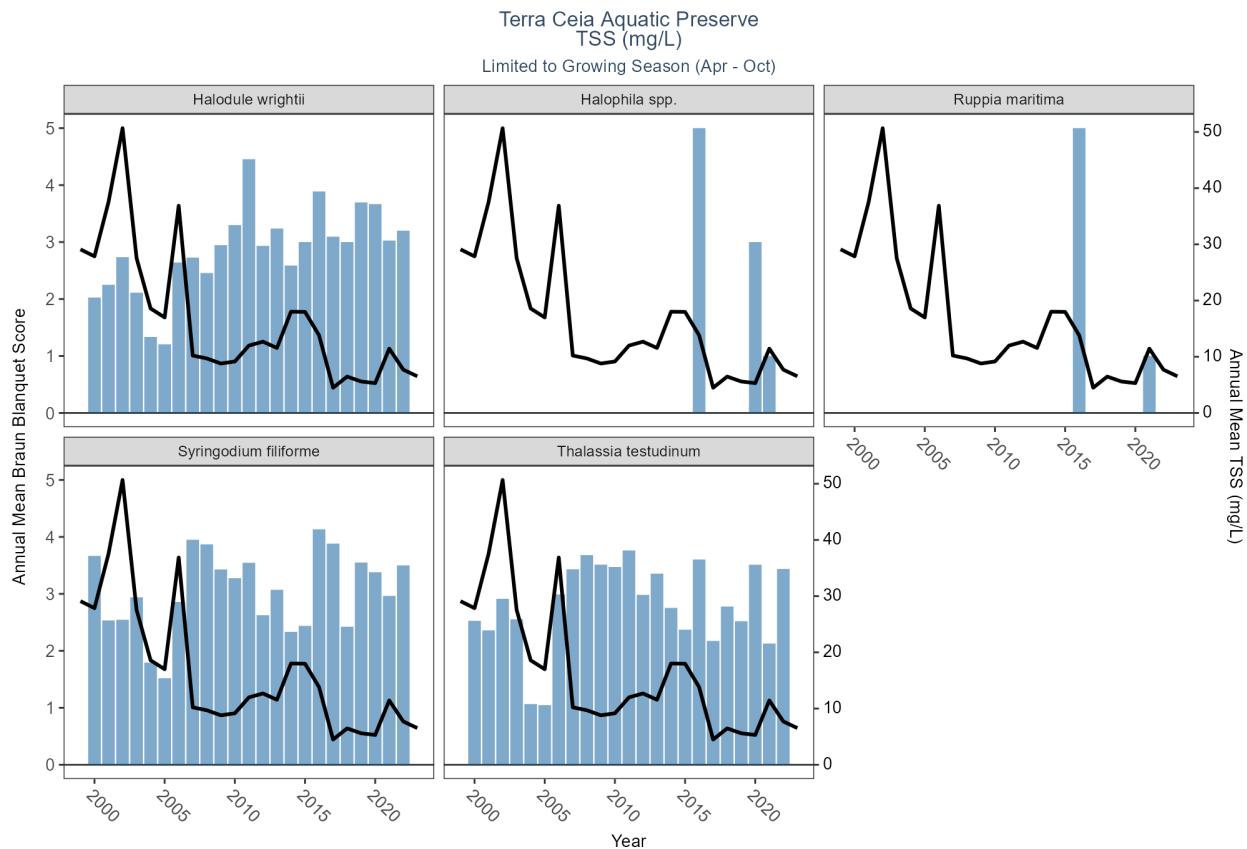


Table 620: WQ Summary for Total Suspended Solids in Terra Ceia Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
TSS	1999	29.110	27.00	21.0	58.4	8.882
TSS	2000	27.866	27.80	2.0	50.0	13.633
TSS	2001	37.529	31.80	21.2	91.2	15.560
TSS	2002	50.677	40.80	4.8	97.6	22.671
TSS	2003	27.534	23.00	15.0	55.0	10.939
TSS	2004	18.583	18.90	6.0	42.4	9.531
TSS	2005	16.996	15.80	2.6	52.6	11.885
TSS	2006	36.876	9.20	0.5	312.0	82.092
TSS	2007	10.216	9.70	1.8	44.0	7.649
TSS	2008	9.700	9.20	3.0	28.0	4.758
TSS	2009	8.800	8.80	1.6	17.6	4.091
TSS	2010	9.158	8.90	2.8	22.1	3.184
TSS	2011	11.989	10.60	4.6	57.8	8.515
TSS	2012	12.686	10.60	2.4	104.0	15.715
TSS	2013	11.565	10.30	2.0	25.0	6.132
TSS	2014	18.017	14.20	4.6	32.2	9.124
TSS	2015	17.983	21.00	2.8	24.8	6.996
TSS	2016	13.817	9.70	1.8	28.4	10.286
TSS	2017	4.489	4.50	2.0	8.6	1.686

ParameterName	Year	mean	median	min	max	sd
TSS	2018	6.474	6.50	1.8	16.0	3.270
TSS	2019	5.600	4.45	1.5	13.1	3.439
TSS	2020	5.307	5.40	2.5	12.1	2.272
TSS	2021	11.446	12.00	1.9	25.4	4.955
TSS	2022	7.703	7.60	2.3	13.3	3.298
TSS	2023	6.524	5.00	1.3	14.6	4.080
TSS	2024	10.912	11.40	3.6	20.2	3.782

Programs contributing WQ Data:

Table 621: Programs contributing WQ data for Total Suspended Solids in Terra Ceia Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
TSS	103	2021	2021	26
TSS	5002	1996	2024	965

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

5002 - Florida STORET / WIN

Turbidity

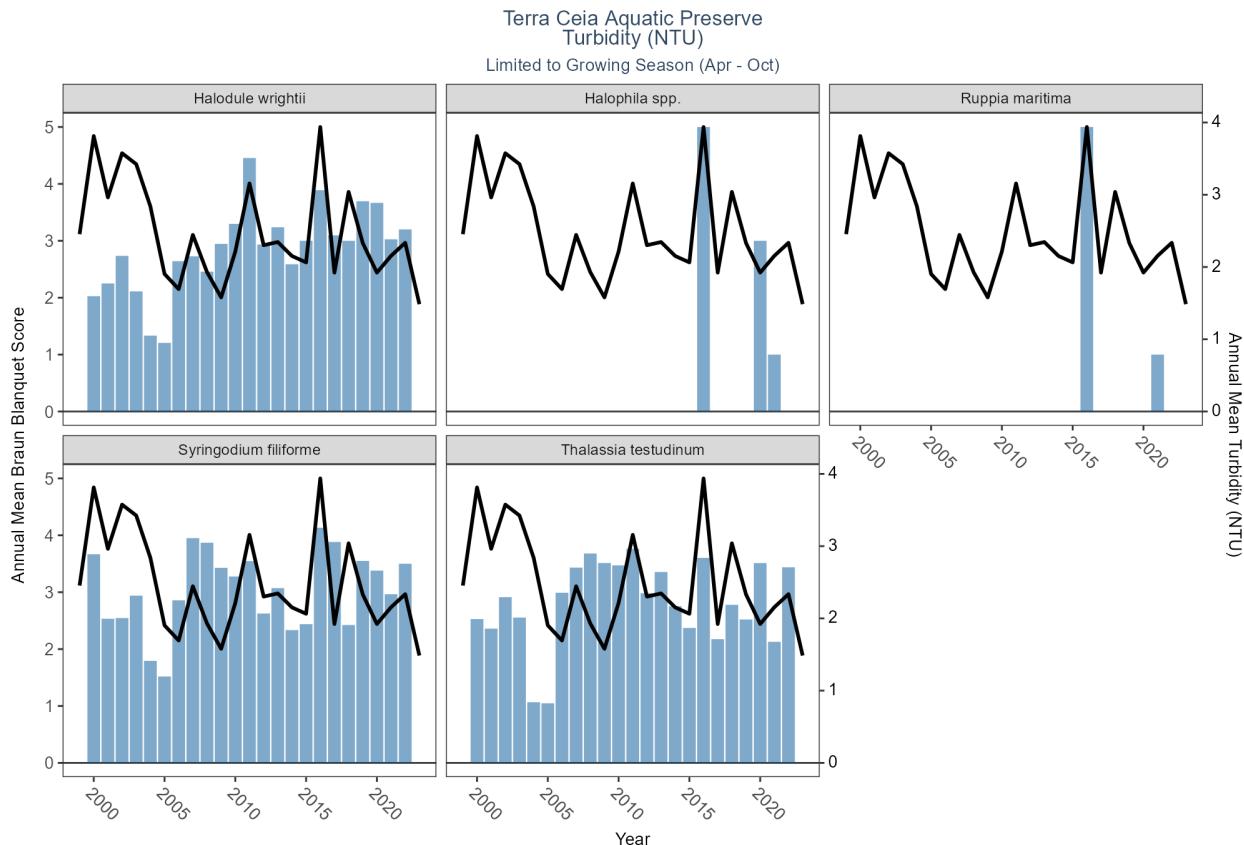


Table 622: WQ Summary for Turbidity in Terra Ceia Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Turbidity	1999	2.454	1.60	0.00	31.0	3.414
Turbidity	2000	3.813	2.90	0.53	22.0	3.142
Turbidity	2001	2.963	2.10	0.39	21.0	2.666
Turbidity	2002	3.575	2.90	0.49	13.9	2.349
Turbidity	2003	3.424	2.80	0.53	27.2	2.518
Turbidity	2004	2.839	2.00	0.30	22.0	2.575
Turbidity	2005	1.903	1.40	0.32	12.2	1.833
Turbidity	2006	1.694	1.20	0.20	13.0	1.409
Turbidity	2007	2.444	1.50	0.30	68.0	5.378
Turbidity	2008	1.929	1.60	0.40	8.7	1.229
Turbidity	2009	1.579	1.30	0.40	9.2	1.352
Turbidity	2010	2.215	1.90	0.22	8.0	1.207
Turbidity	2011	3.157	1.80	0.70	62.4	6.142
Turbidity	2012	2.302	2.00	0.90	6.4	1.319
Turbidity	2013	2.345	1.50	0.20	18.3	3.058
Turbidity	2014	2.152	1.30	0.60	14.1	2.416
Turbidity	2015	2.064	1.65	0.50	13.5	1.757
Turbidity	2016	3.938	4.40	0.90	9.6	2.296
Turbidity	2017	1.922	1.30	0.50	16.0	2.360
Turbidity	2018	3.039	1.50	0.50	18.2	3.969
Turbidity	2019	2.332	1.50	0.80	11.8	2.291
Turbidity	2020	1.923	1.45	0.90	7.8	1.434
Turbidity	2021	2.155	1.70	0.20	14.3	1.852
Turbidity	2022	2.335	1.50	0.40	12.4	2.639
Turbidity	2023	1.486	1.25	0.50	6.6	0.881
Turbidity	2024	2.040	1.70	1.00	6.8	1.287

Programs contributing WQ Data:

Table 623: Programs contributing WQ data for Turbidity in Terra Ceia Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Turbidity	103	2021	2021	51
Turbidity	5002	1995	2024	4897

WQ Program names:

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

5002 - Florida STORET / WIN

Water Temperature

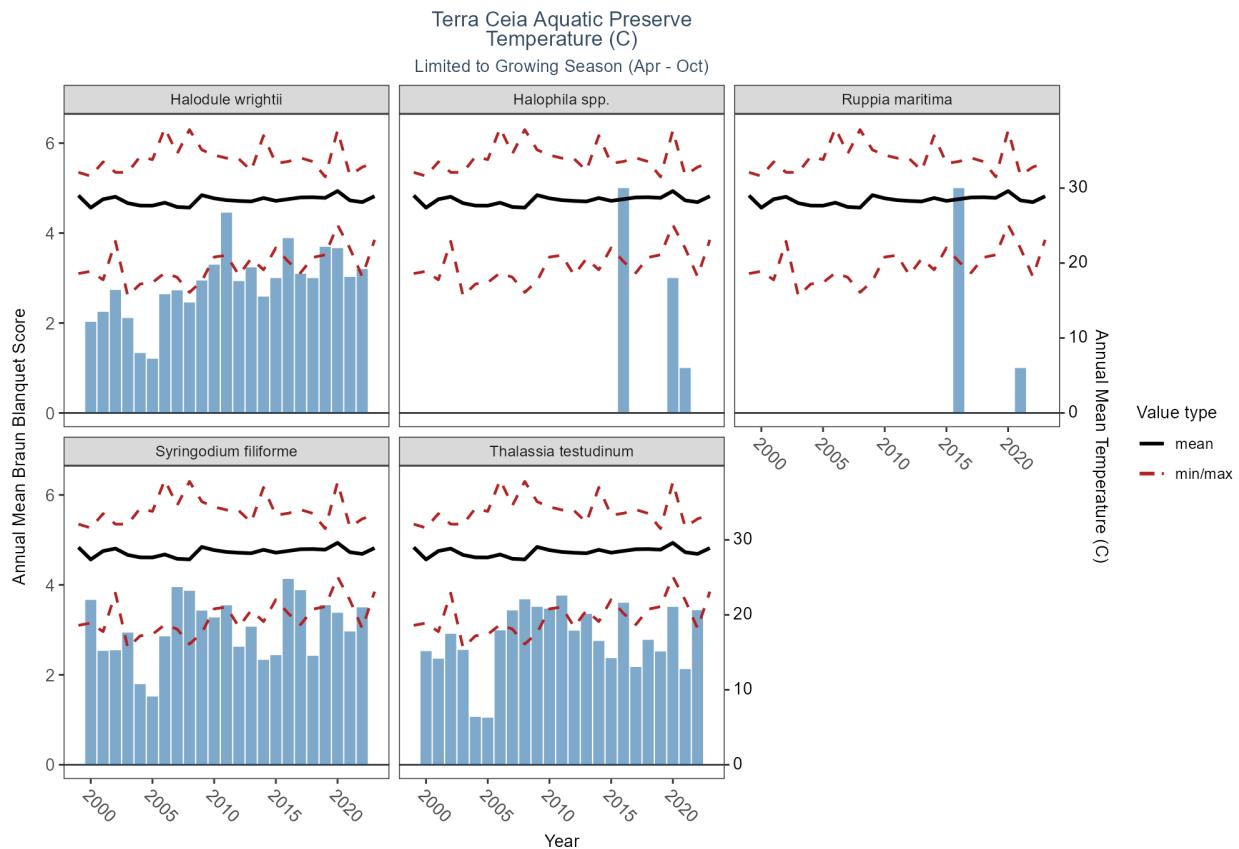


Table 624: WQ Summary for Water Temperature in Terra Ceia Aquatic Preserve

ParameterName	Year	mean	median	min	max	sd
Temperature	1999	29.014	29.405	18.60	32.10	2.497
Temperature	2000	27.388	28.270	18.90	31.60	2.822
Temperature	2001	28.513	29.000	17.76	33.50	2.760
Temperature	2002	28.843	29.100	22.90	32.10	1.884
Temperature	2003	27.992	29.000	15.60	32.10	3.318
Temperature	2004	27.668	28.000	17.20	34.20	3.206
Temperature	2005	27.658	29.000	17.40	33.80	3.863
Temperature	2006	28.054	28.800	18.69	38.00	2.929
Temperature	2007	27.480	28.000	18.10	34.60	3.463
Temperature	2008	27.399	29.200	16.09	37.80	4.105
Temperature	2009	29.060	29.700	17.60	35.10	2.629
Temperature	2010	28.637	29.000	20.80	34.40	2.707
Temperature	2011	28.394	28.900	21.04	34.00	2.755
Temperature	2012	28.285	28.300	18.40	33.90	2.232
Temperature	2013	28.220	28.940	20.60	32.34	2.653
Temperature	2014	28.681	29.300	19.10	37.00	2.821
Temperature	2015	28.299	28.610	22.03	33.30	1.917
Temperature	2016	28.526	29.400	20.20	33.55	2.892
Temperature	2017	28.754	29.315	18.70	34.03	2.985

ParameterName	Year	mean	median	min	max	sd
Temperature	2018	28.778	29.600	20.75	33.54	2.469
Temperature	2019	28.700	29.200	21.10	31.50	1.714
Temperature	2020	29.605	30.200	25.08	37.70	1.946
Temperature	2021	28.359	28.830	21.96	31.71	2.105
Temperature	2022	28.131	29.500	18.20	32.80	2.948
Temperature	2023	28.915	29.765	23.10	33.40	2.887
Temperature	2024	26.050	28.270	22.04	30.70	3.252

Programs contributing WQ Data:

Table 625: Programs contributing WQ data for Water Temperature in Terra Ceia Aquatic Preserve

ParameterName	ProgramID	YearMin	YearMax	N_Data
Temperature	69	1989	2022	6255
Temperature	95	1966	2018	1167
Temperature	103	2021	2021	109
Temperature	118	2015	2020	18
Temperature	4067	1993	2022	1877
Temperature	5002	1995	2024	7254

WQ Program names:

69 - Fisheries-Independent Monitoring (FIM) Program

95 - Harmful Algal Bloom Marine Observation Network

103 - EPA STOrage and RETrieval Data Warehouse (STORET)

118 - National Aquatic Resource Surveys, National Coastal Condition Assessment

4067 - Tampa Bay Benthic Monitoring

5002 - Florida STORET / WIN