

Spotted Seatrout Gill Net Data

The following data were pulled June 30th, 2021 from the Texas Parks and Wildlife (TPWD) Coastal Fisheries Resource Monitoring database represent the preliminary data. The following figures depict trends in Spotted Seatrout (*Cynoscion nebulosus*) gill net catch rate, length distribution, and bag length distribution along the Texas coast. Please refer to figure captions for a complete description of each figure.

Things to note: 1) gill nets were not collected during 2020 due to the COVID-19 pandemic and associated restrictions; 2) the global means for each figure were calculated using 2021 data as omitting 2021 did not drastically change means.

Coastwide Mean Catch per hour 1976-2021

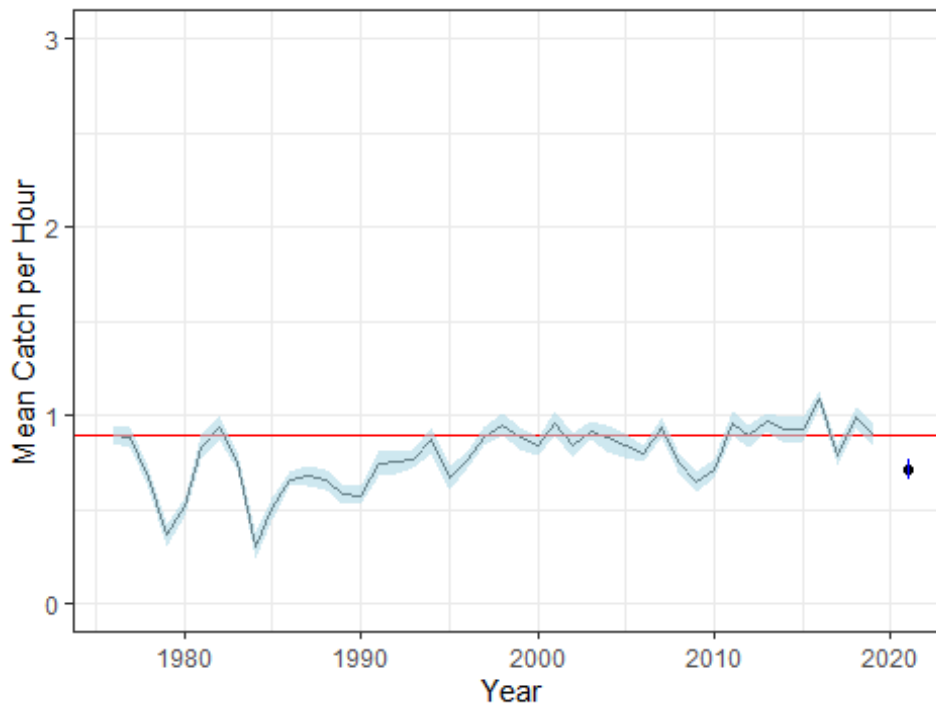


Figure 1. Annual mean spring gill net catch rate for the entire Texas coast (black line) from 1976-2021. 2021 catch rate is represented by the black dot (No data was available for 2020.) The blue shading/bar represents the standard error and the red line is the ten-year (2010-2021) mean.

Lower Laguna Madre

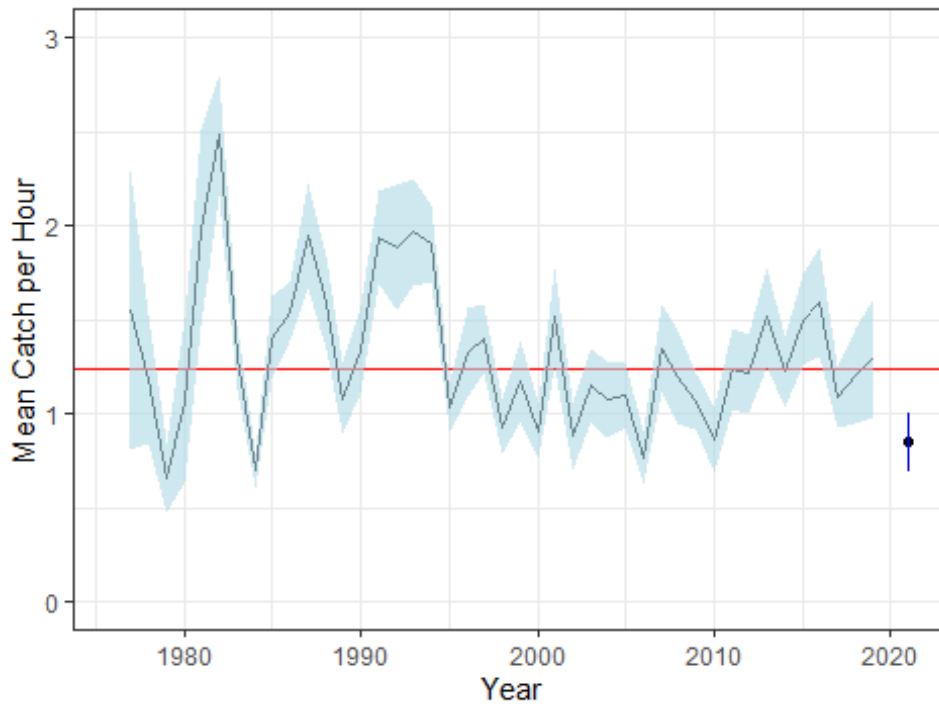


Figure 2. Annual mean spring gill net catch rate for the Lower Laguna Madre Bay system (black line) from 1976-2021. 2021 catch rate is represented by the black dot (No data was available for 2020.) The blue shading/bar represents the standard error and the red line is the 2010-2021 mean.

Upper Laguna Madre

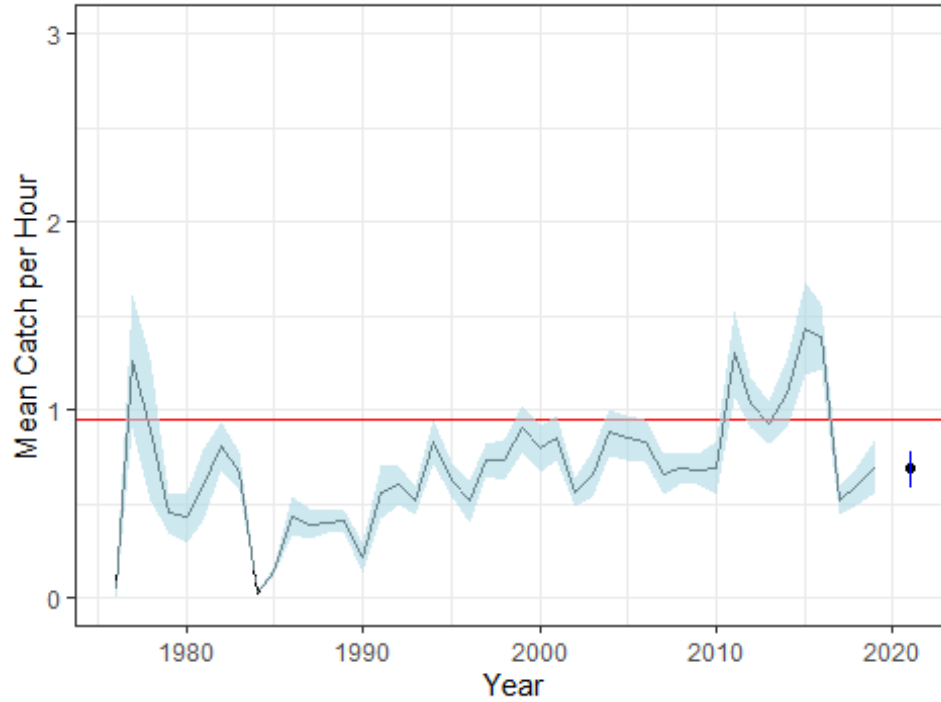


Figure 3. Annual mean spring gill net catch rate for the Upper Laguna Madre Bay system (black line) from 1976-2021. 2021 catch rate is represented by the black dot (No data was available for 2020.) The blue shading/bar represents the standard error and the red line is the 2010-2021 mean.

Corpus Christi

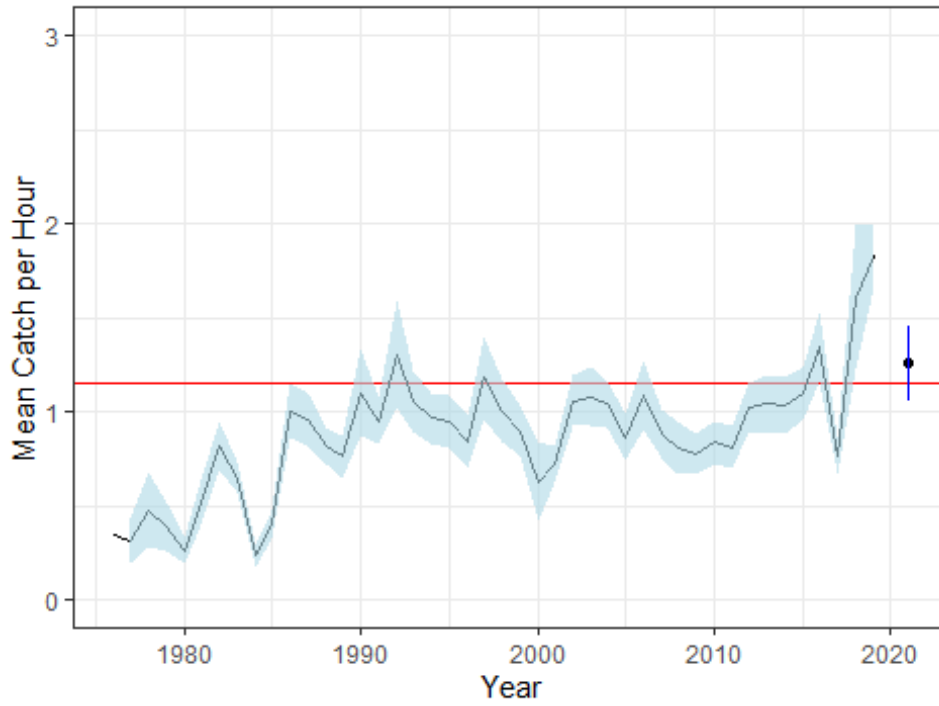


Figure 4. Annual mean spring gill net catch rate for the Corpus Christi Bay system (black line) from 1976-2021. 2021 catch rate is represented by the black dot (No data was available for 2020.) The blue shading/bar represents the standard error and the red line is the 2010-2021 mean.

Aransas Bay

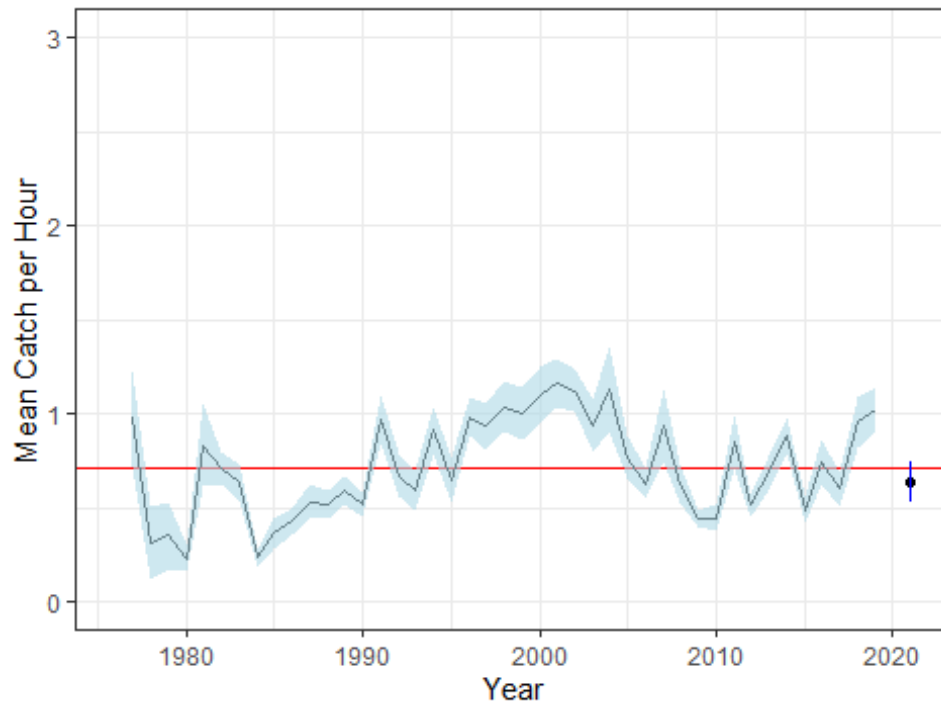


Figure 5. Annual mean spring gill net catch rate for the Aransas Bay system (black line) from 1976-2021. 2021 catch rate is represented by the black dot (No data was available for 2020.) The blue shading/bar represents the standard error and the red line is the 2010-2021 mean.

San Antonio Bay

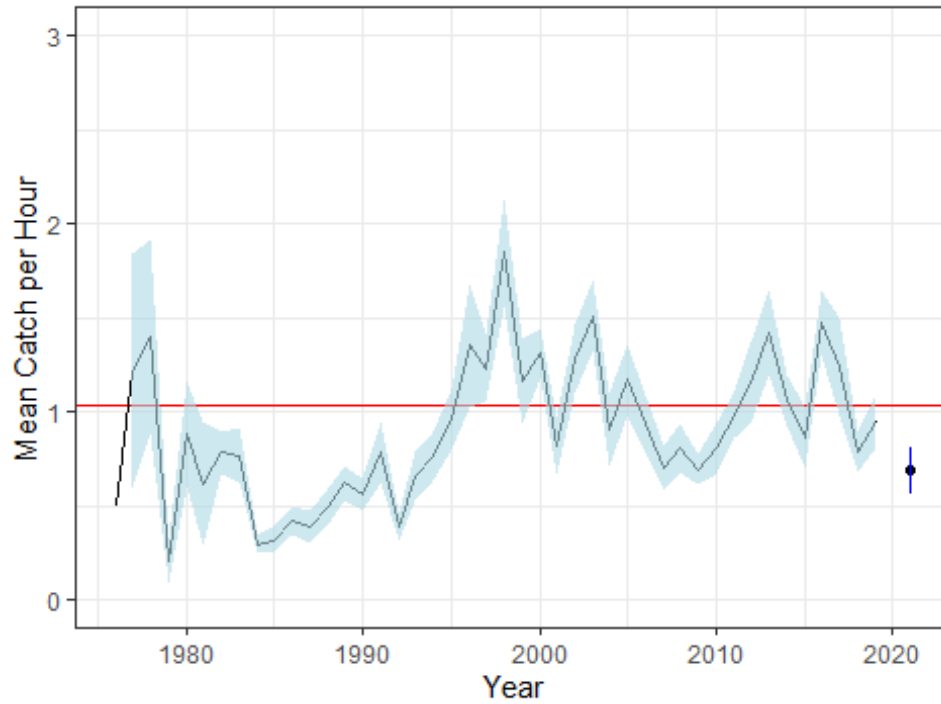


Figure 6. Annual mean spring gill net catch rate for the San Antonio Bay system (black line) from 1976-2021. 2021 catch rate is represented by the black dot (No data was available for 2020.) The blue shading/bar represents the standard error and the red line is the 2010-2021 mean.

Matagorda Bay

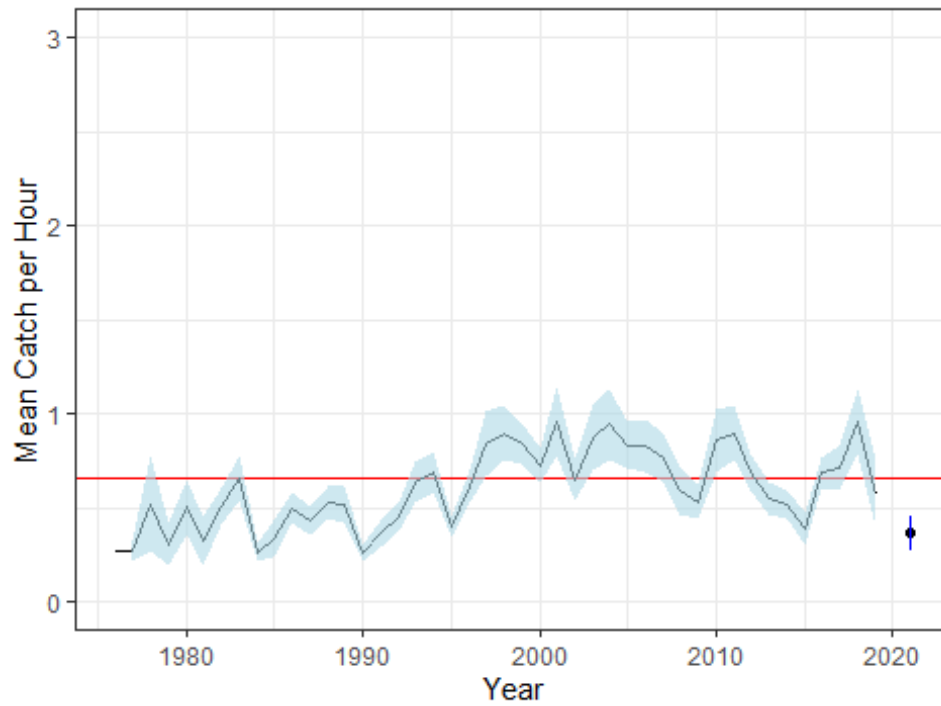


Figure 7. Annual mean spring gill net catch rate for the Matagorda Bay system (black line) from 1976-2021. 2021 catch rate is represented by the black dot (No data was available for 2020.) The blue shading/bar represents the standard error and the red line is the 2010-2021 mean.

East Matagorda

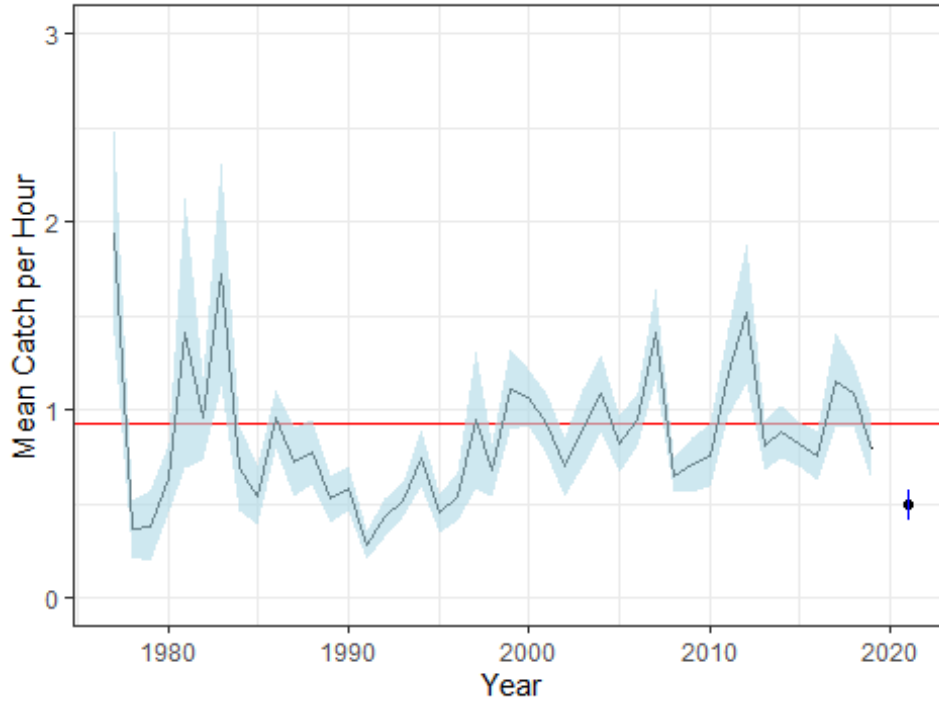


Figure 8. Annual mean spring gill net catch rate for the East Matagorda Bay system (black line) from 1977-2021. 2021 catch rate is represented by the black dot (No data was available for 2020.) The blue shading/bar represents the standard error and the red line is the 2010-2021 mean.

Galveston Bay

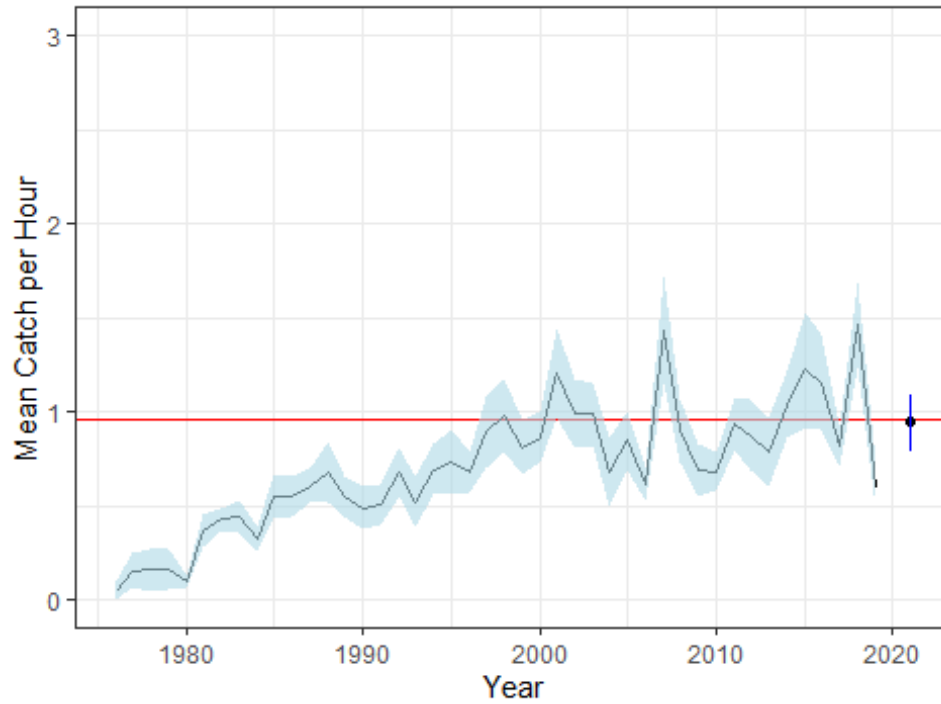


Figure 9. Annual mean spring gill net catch rate for the Galveston Bay system (black line) from 1976-2021. 2021 catch rate is represented by the black dot (No data was available for 2020.) The blue shading/bar represents the standard error and the red line is the 2010-2021 mean.

Sabine Lakes

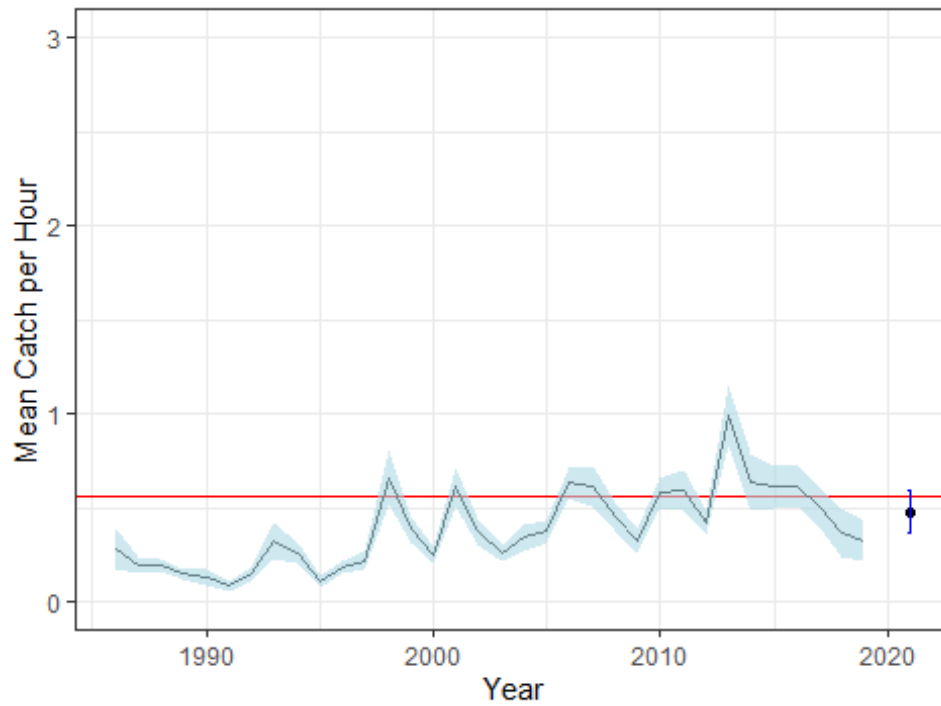


Figure 10. Annual mean spring gill net catch rate for the Sabine Lake Bay system (black line) from 1986-2021. 2021 catch rate is represented by the black dot with standard error bars (No data was available for 2020.) The blue shading/bar represents the standard error and the red line is the 2010-2021 mean.

Cedar Lakes

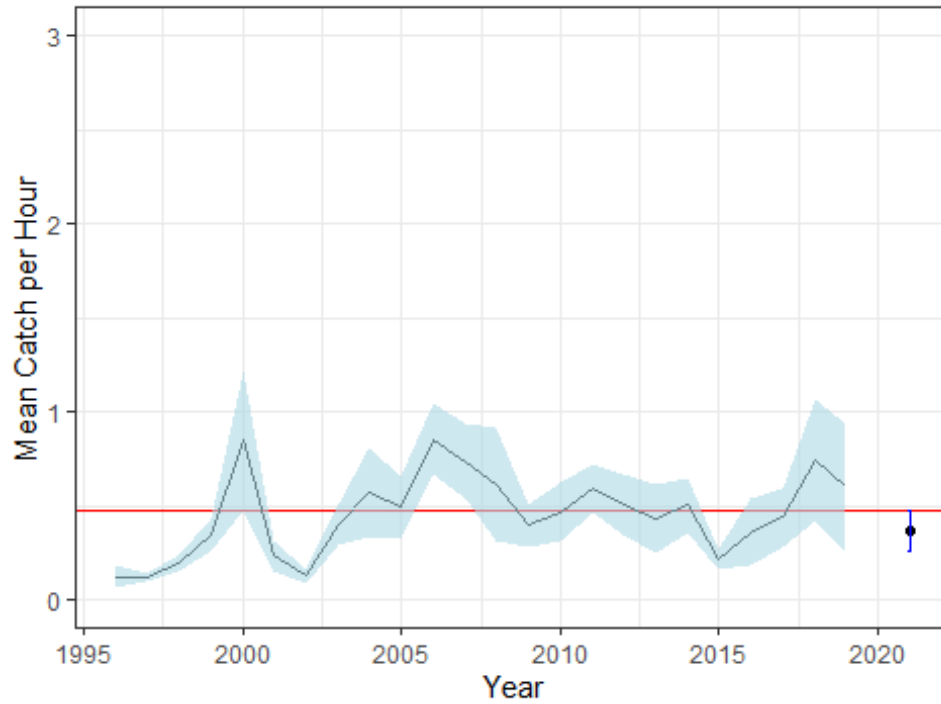


Figure 11. Annual mean spring gill net catch rate for the Cedar Lakes Bay system (black line) from 1996-2021. 2021 catch rate is represented by the black dot (No data was available for 2020.) The blue shading/bar represents the standard error and the red line is the 2010-2021 mean.

Table 1. Mean salinity across a ten-year (2010-2021) average by bay compared to 2021 mean. Values with * indicate mean is outside of ten year mean -standard error.

month	Bay	10 yr mean	2021 mean
4	Sabine Lake	6.04	7.64
5	Sabine Lake	7.84	3.64*
6	Sabine Lake	7.65	2.06*
4	Galveston	16.35	18.45
5	Galveston	17.48	13.81*
6	Galveston	12.95	8.93*
4	Matagorda	21.49	25.37
5	Matagorda	19.82	8.18*
6	Matagorda	18.27	3.39*
4	San Antonio	26.90	26.53
5	San Antonio	21.00	18.67*
6	San Antonio	8.06	7.19*
4	Aransas	21.36	27.07
5	Aransas	20.01	17.26*
6	Aransas	17.44	6.72*
4	Corpus Christi	29.32	31.86
5	Corpus Christi	29.18	27.36*
6	Corpus Christi	28.09	25.82*
4	Upper Laguna Madre	41.04	43.37
5	Upper Laguna Madre	41.02	36.39*
6	Upper Laguna Madre	37.76	31.41*
4	Lower Laguna Madre	30.63	33.42
5	Lower Laguna Madre	30.80	25.04*
6	Lower Laguna Madre	30.64	25.72*
4	East Matagorda	24.34	23.88
5	East Matagorda	22.81	18.41*
6	East Matagorda	22.45	13.88*
4	Cedar Lakes	17.09	20.93
5	Cedar Lakes	16.06	7.95*
6	Cedar Lakes	15	1.1*