

Summer Flounder 2023 Specifications Review



SSC July 26, 2022

Overview



- Stock status and data update
- Recent catch and landings
- Advisory Panel Fishery Performance Report
- Review 2023 ABC and consider if revisions needed
 - Staff recommend no changes

Stock Status: 2021 Management Track Assessment



SSB

- Not overfished in 2019
- 2019 SSB = 47,397
 mt, 86% of SSB_{MSY}
 = 55,217 mt

<u>F</u>

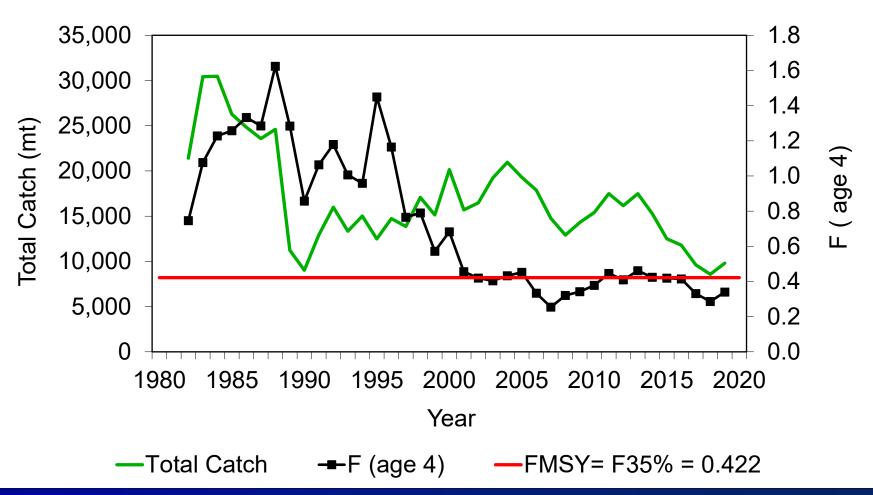
- Overfishing not occurring in 2019
- 2019 F = 0.340,
 81% of F_{MSY} proxy =
 0.422



Fishing Mortality 2021 MTA

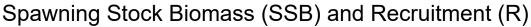


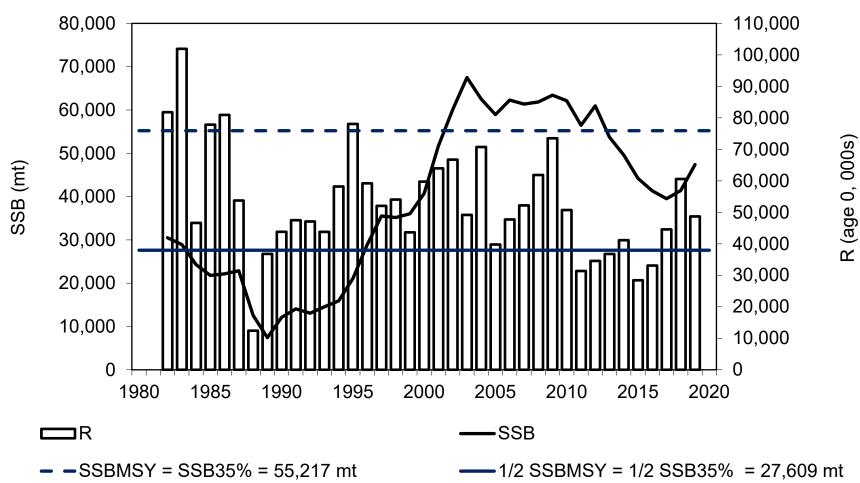




SSB and Recruitment 2021 MTA

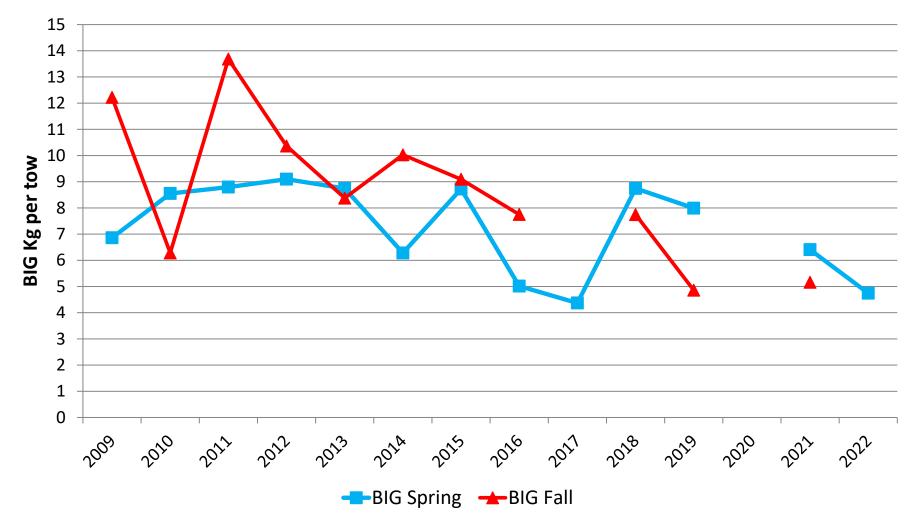






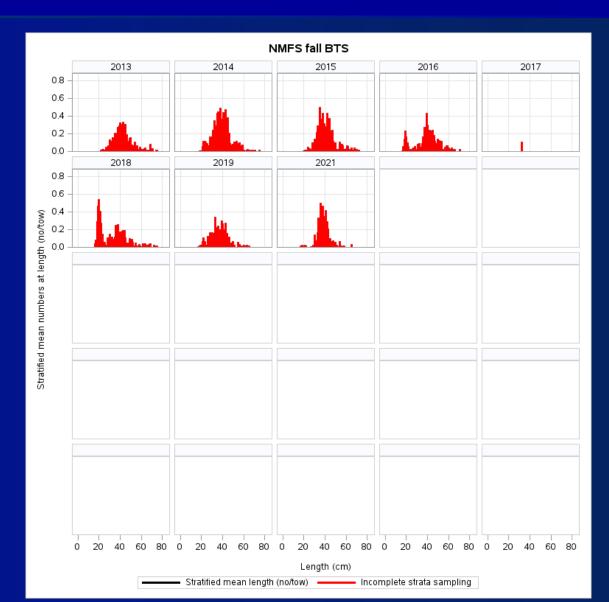
2022 Data Update





2022 Data Update

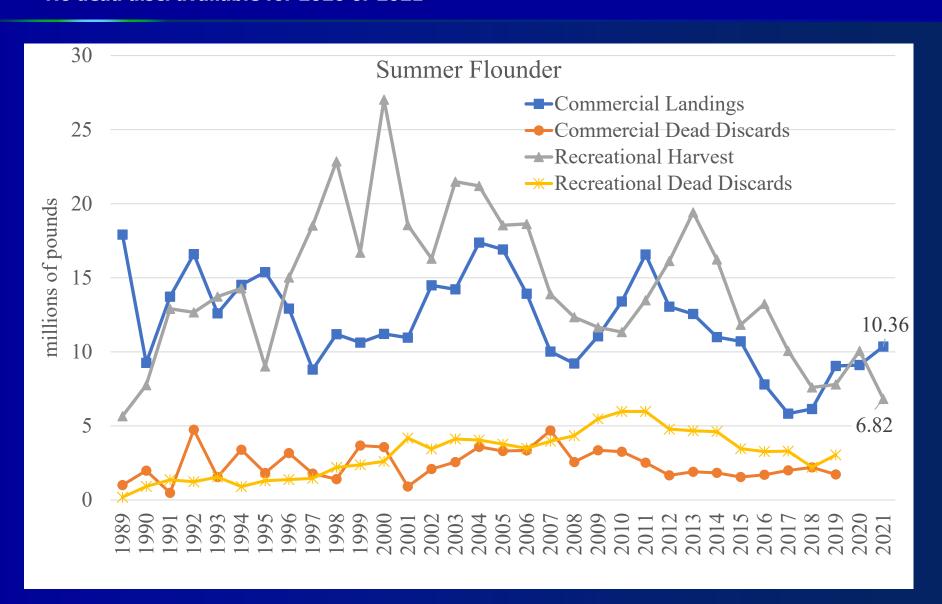
NEFSC fall survey length frequency distributions suggest above average year class in 2018 with average to below average recruitment since



Fishery Landings & Discards 1989-2021*



*No dead disc. available for 2020 or 2021



Recreational Fishery Performance



Year	Rec. land. old MRIP	Rec. land. new MRIP	RHL	RHL overage/ underage	Rec. dead catch old MRIP	Rec. dead catch new MRIP	ACL	ACL overage/ underage
2016	6.18	13.24	5.42	14%	7.66	16.51	6.84	12%
2017	3.19	10.09	3.77	-15%	4.13	13.39	4.72	-13%
2018	3.35	7.60	4.42	-24%	4.32	9.81	5.53	-22%
2019	NA	7.80	7.69	1%	NA	10.84	11.51	-6%
2020	NA	10.06	7.69	31%	NA	TBD	11.51	TBD
2021	NA	6.82	8.32	-18%	NA	TBD	12.48	TBD

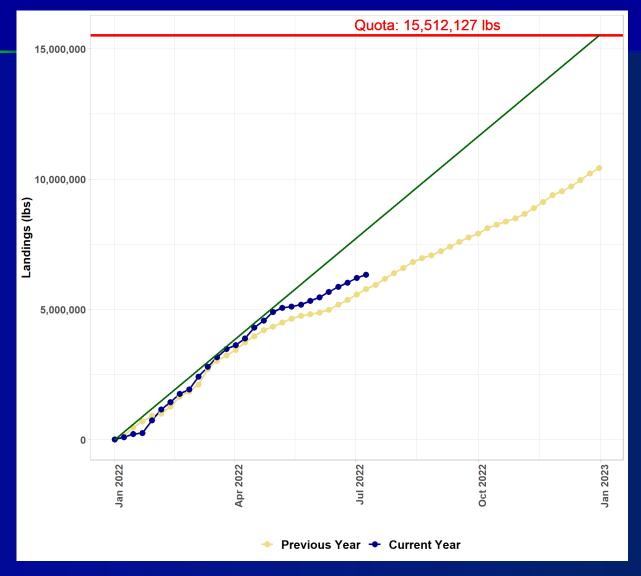
Commercial Fishery Performance



Year	Com. landings	Com. quota	Quota overage/ underage	Com. dead catch	ACL	ACL overage/ underage
2016	7.80	8.12	-4%	9.50	9.43	1%
2017	5.83	5.66	3%	7.83	6.57	19%
2018	6.14	6.63	-7%	8.34	7.70	8%
2019	9.05	10.98	-18%	10.79	13.53	-20%
2020	9.11	11.53	-21%	TBD	13.53	TBD
2021	10.36	12.49	-17%	TBD	18.48	TBD

2022 Commercial Landings







Market and Economic Issues

- January through April 2022, commercial fishermen reported unusually low prices (since recovered)
 - Possibly driven by lack of hotel/restaurant demand in NY
 - NY prices have now increased for the first time in years (\$5-6 range)
- Reiterated concerns about high fuel prices
 - Significantly eating into profits; not sustainable
 - Impacting willingness to steam to fish permits held in other states
 - May lead to lower landings in VA and NC and continued quota underages





Environmental and General Fishing Trends

- Current assessment shows increasing biomass 2017-2019 but recreational harvest did not show same increasing trend.
 - Interested in next update and if landings will track estimated biomass
- 3 advisors suggested summer flounder not inshore/in bays yet (as of June 21), fishing slow, possibly due to water temps





General Management Issues

- Decline in recruitment 2010-2019 due to regulations driving increased harvest of larger female fish
 - Need to recognize importance of BOFFFF





Recreational Management Issues

- 2022 recreational regulations in NJ include split slot limit (2 fish at 17-17.99 and 1 above 18")
 - One advisor supportive: hopes for positive impacts to female biomass and wider slot next year
 - Another hesitant: believes many more fish have been harvested this year already. People still want large fish; could negatively impact rec. fishery in long run





Research Recommendations

- Low recruitment caused not by number of eggs produced, but predation on larvae in first year of life. Determine what is eating them and associated impacts to stock
- Extensive wind farms possible: need to know impact to summer flounder migrations and optimal habitat (cables and magnetic fields)





Research Recommendations

- Need to know more about migration patterns of summer flounder beyond general East-West
 - Interplay with stock distribution shift; may be more complicated than oceanic factors
- Recruitment sampling locations should be adjusted to better account for distribution changes
- Find better, less destructive survey methods vs. bottom trawls





Email Comments (Summer Flounder)

- Flounder fishing is decent in Delaware; got off to a late start due to cold water sticking around into late spring
 - Size limit change in DE from 16.5 to 16 inches didn't make big difference; lack of shorts may indicate problems for future
- Concerned about impacts of climate change on habitat and migrations
- Recommend more research on breeding habits/location and potential harvest restrictions during spawning season





Email Comments (Summer Flounder)

- Commercial net size incorrect; should be 5" for all 3 species
- Consider recreational total length limit with no discarding and cell phone reporting; would benefit low income shore fishermen



Prior SSC Recommendations July 2021



- Recommended 2022-2023 constant & varying ABCs based on 2021 MTA projections
 - SSC-modified OFL probability distribution; OFL CV = 60%
 - Recruitment sampled from 9-yr below avg. recruitment (2011-2019)



Prior SSC Recommendations & Staff Recommendation for 2023



- Council/Board adopted constant ABCs for 2022-2023
- Staff recommend no changes; no new information to suggest substantial change in status

Variable ABCs							
Year	OFL	ABC	P*				
2022	36.28 mil lb 16,458 mt	33.96 mil lb 15,403 mt	0.452				
2023	34.74 mil lb 15,759 mt	32.27 mil lb 14,639 mt	0.447				
Constant ABCs*							
Year	OFL	ABC	P*				
2022	36.28 mil lb 16,458 mt	33.12 mil lb	0.435				
2023	34.98 mil lb 15,865 mt	15,021 mt	0.461				