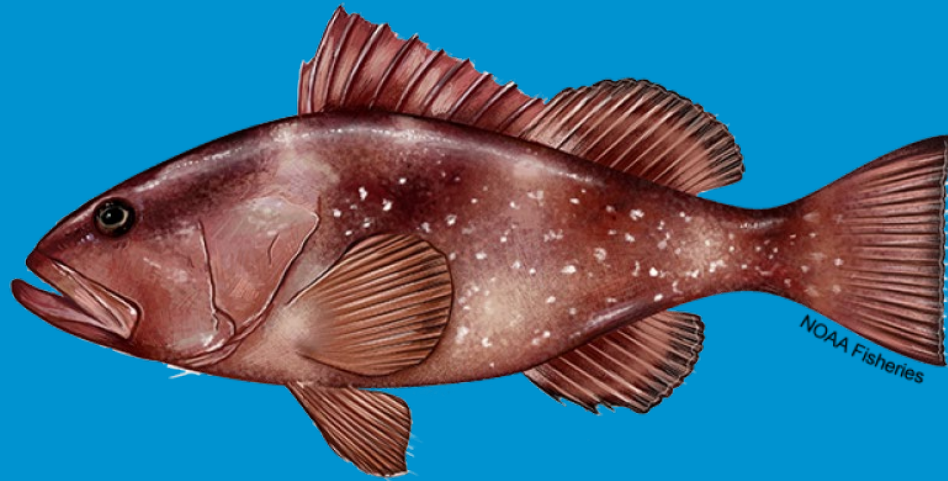




**NOAA**  
**FISHERIES**

SEFSC

Gulf Fisheries Branch



# SEDAR 88: Gulf Red Grouper Updated Projections

May 6-8, 2025

# Overview

- Request to provide SEDAR 61 projections with SRFS data inputs
  - SEDAR 61 used MRIP-FES currency
- Provided projections for:
  - SEDAR 61 original model with SRFS data
  - SEDAR 61 Interim Analysis (adjusted recreational weight)
- Request for SEDAR 88 projections with management beginning in 2025
  - SEDAR 88 projections presented at February SSC had management beginning in 2027



# SEDAR 88 Overview

Current best practice  
TORs

Notable **changes** compared with the SEDAR 61 Standard assessment model (TY 2017):

- Year specific **commercial and recreational landings and discards standard errors**
- Improved **commercial discards** using the catch per unit of effort (CPUE)-expansion approach
- Recreational landings and discards changed from Marine Recreational Information Program Fishing Effort Survey (**MRIP-FES**) to Florida's State Reef Fish Survey (**SRFS**) data (for private mode only)
- Updated **weighted age compositions** methodologies for both commercial and recreational compositions
- Fit to **mean weight of landings** for recreational fleet
- **Dirichlet-Multinomial** approach for age and length compositions
- Included **mean length at age** for three fishing fleets (lightly fit in model)
- Updated **combined video index**
- Removed **MRIP index** and **Repetitive Time Drop Survey**
- Updated **natural mortality** point estimate to current best practices
- **Age selectivity** for commercial handline, longline and recreational fleets
- **Asymptotic** longline selectivity
- Estimated **steepness**
- Estimated growth ( $L_{\infty}$  and  $K$ )
- Empirical **selectivity-at-age** for Red Tide years

# SEDAR 61 Projections

- Not possible to capture effect of all changes made to SEDAR 88 in projections for SEDAR 61
- Can show effect of using SRFS data in lieu of MRIP-FES:

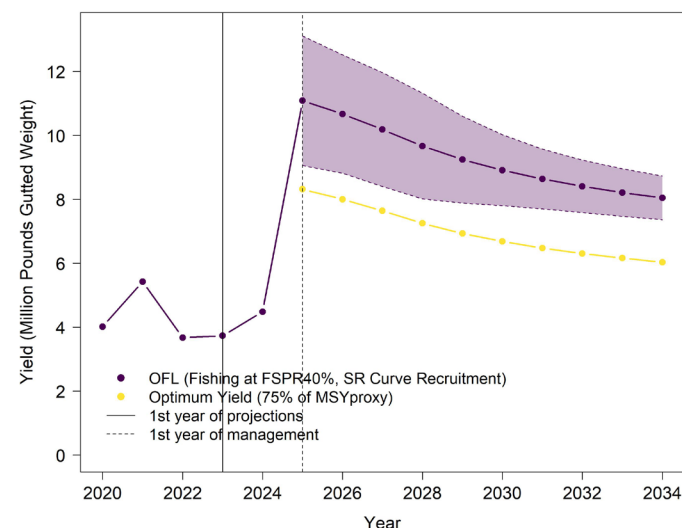
	OFL (mp ww)	ABC (mp ww)	ACL (mp ww)
S61 MRIP-FES units (Amendment 53)	4.66	4.26	4.26
S61 SRFS equivalent for MRIP-FES (Amendment 53)	4.21	3.86	
Current MRIP - FES units (Interim Analysis)	5.99	4.96	4.96
S61 SRFS equivalent for MRIP-FES units (adjusted mean weights)	5.40	5.02	
New Advice (S88) 40% SPR in SRFS units (2027 start)	11.28	8.78	8.78
New Advice (S88) 30% SPR in SRFS units (2027 start)	14.04	11.06	

# 2025: OFL Projections: $F=F_{40\%SPR}$

Year	Recr	F	F/F <sub>40%SPR</sub>	SSB	SSB/SSB <sub>40%SPR</sub>	SSB/MSST	SSB ratio	OFL (mp gw)
2025	40,452	0.16	1	869,078	1.723	3.446	0.537	11.09
2026	40,065	0.16	1	831,687	1.649	3.298	0.514	10.671
2027	39,569	0.16	1	787,394	1.561	3.122	0.487	10.187
2028	39,000	0.16	1	740,815	1.469	2.937	0.458	9.669
2029	38,446	0.16	1	699,392	1.386	2.773	0.432	9.246

- Assuming recruitment from stock-recruit curve throughout projections

Years	Constant Catch
Three (2025-2027)	10.64 mp gw
Five (2025-2029)	10.17 mp gw



# 2025: ABC Projections: $F=0.75 * F_{40\%SPR}$

Year	Recr	F	F/ $F_{40\%SPR}$	SSB	SSB/ $SSB_{40\%SPR}$	SSB/MSST	SSB ratio	Yield
2025	40,452	0.117	0.75	869,078	1.723	3.446	0.537	8.326
2026	40,456	0.117	0.75	869,419	1.724	3.447	0.537	8.315
2027	40,332	0.117	0.75	857,251	1.699	3.399	0.53	8.212
2028	40,117	0.117	0.75	836,590	1.658	3.317	0.517	8.04
2029	39,875	0.117	0.75	814,254	1.614	3.228	0.503	7.894

- Assuming recruitment from stock-recruit curve throughout projections

Years	Constant Catch
Three (2025-2027)	8.28 mp gw
Five (2025-2029)	8.16 mp gw

