

Hogfish (FLK/EFL)



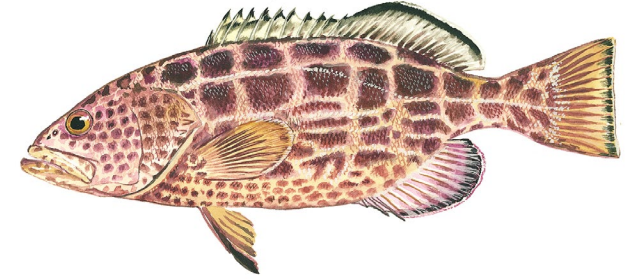
Biological Attributes	High (1)	Medium (2)	Low (3)	Notes	Default Score	SSC Score
Estimated natural mortality (M)	$M \leq 0.20$	0.20-0.40	$M \geq 0.4$	(SEDAR 94 DW) Natural mortality-at-age scaled to age 3 with max age of 23 years, $M = 0.235$	2	
Age at maturity	≥ 4 years	2-4 years	≤ 2 years	(SEDAR 94 DW) Age at 50% maturity: 1.09 - 2.08 years - protogynous hermaphroditism; age at transition ranges from 1-11 years and is socially mediated	3	

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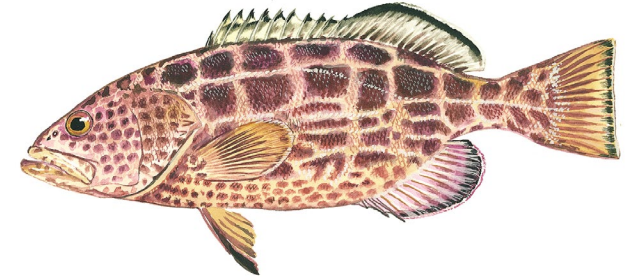
Environmental Attributes	High (1)	Notes	Default Score	SSC Score
Ecosystem importance	Does this species significantly affect other species, e.g. as a keystone predator, primary prey, habitat builder etc.?	Potentially vulnerable due to ease of targeting; Habitat degradation; Preference for live bottom; big hogfish north, few central, some south, not seeing much change over; more habitat degradation in south Florida but the effects aren't as strong in other areas	1	
Climate change	Is this species likely to experience/be experiencing negative stock impacts due to climate change?			
Other Environmental Variables	Are other environmental variables causing negative effects on this stock, e.g. in the form of regime shifts, recruitment failure, etc.?			

Black Grouper



Biological Attributes	High (1)	Medium (2)	Low (3)	Notes	Default Score	SSC Score
Estimated natural mortality (M)	$M \leq 0.20$	0.20-0.40	$M \geq 0.4$	M: 0.16 - 0.20 (SEDAR 48)	1	
Age at maturity	≥ 4 years	2-4 years	≤ 2 years	Age at 50% maturity : 6.5 years - protogynous hermaphroditism; Age at transition A50 = 16 years (SEDAR 48)	1	

Black Grouper



Environmental Attributes	High (1)	Notes	Default Score	SSC Score
Ecosystem importance	Does this species significantly affect other species, e.g. as a keystone predator, primary prey, habitat builder etc.?			
Climate change	Is this species likely to experience/be experiencing negative stock impacts due to climate change?			
Other Environmental Variables	Are other environmental variables causing negative effects on this stock, e.g. in the form of regime shifts, recruitment failure, etc.?	AP Comments: - habitat degradation concerns: water quality issues in south FL, impervious soil runoff - coral reef habitat reductions and changes in food availability - loss of seagrass habitat, nursery ground for BG (recruitment issues)	1	

Gag Grouper



Biological Attributes	High (1)	Medium (2)	Low (3)	Notes	Default Score	SSC Score
Estimated natural mortality (M)	$M \leq 0.20$	0.20-0.40	$M \geq 0.4$	SEDAR 71 (2021): $M = 0.150$ SEDAR 10 (2006) $M = 0.14-0.160$	1	
Age at maturity	≥ 4 years	2-4 years	≤ 2 years	SEDAR 71 (2021) Female age at maturity = 4.6 yrs SEDAR 10 (2006) provided a single estimate for size and age at transition: 1,025 mm TL and 10.5 yrs for 50% transition	1	

Gag Grouper



Environmental Attributes	High (1)	Notes	Default Score	SSC Score
Ecosystem importance	Does this species significantly affect other species, e.g. as a keystone predator, primary prey, habitat builder etc.?	AP: nearshore water quality concerns, predation by RS at vulnerable life stages, shark depredation		
Climate change	Is this species likely to experience/be experiencing negative stock impacts due to climate change?			
Other Environmental Variables	Are other environmental variables causing negative effects on this stock, e.g. in the form of regime shifts, recruitment failure, etc.?	reliant on in-shore seagrass beds for juvenile life stages; degradation of these habitats affecting recruitment?	1	