

Summary Table of Jewfish, (<u>Epinephelus itajara</u>) life history for the Gulf of Mexico. Associations and interactions with environmental and habitat variables are listed with citations.												
							Trophic relationships		Habitat Associations and Interactions			
Life Stage	Season	Location	Temp(°C)	Salinity(ppt)	Oxygen	Depth(m)	Food	Predators	Habitat Selection	Growth	Mortality	Production
Eggs	Late summer, early fall	Offshore				Pelagic						
Citation	1	2				13						
Larvae	Late summer, early fall					Pelagic						
Citation	1					13						
Post Larvae	Sept	Puerto Rico							Mangroves			
Citation	5	5										
Early Juveniles	Nov-Jan	Bays (Tampa Bay)		Usually found >25ppt. occasionally in low-salinity waters			Crustaceans		In bays and estuaries, inshore grassbeds, canals, mangrove, swamps			
Citation	2	1,2		7,8,11			2,8		2,6,16			Jewfish, (<u>Epinephelus itajara</u>) cont.
							Trophic relationships		Habitat Associations and Interactions			
Life Stage	Season	Location	Temp(°C)	Salinity(ppt)	Oxygen	Depth(m)	Food	Predators	Habitat Selection	Growth	Mortality	Production
Late Juveniles		Gulf of Mexico, Caribbean, SW FL				2-3m	Bluecrabs, Crustacean		Inshore around ledges, seagrass beds, mangrove, swamps, shallower reefs and holes			
Citation	2	2				2,15			1,2,15,16			

Adults		Gulf of Mexico especially SW Florida and Campeche Banks	Taken from 20-25 C Cultured at 24.7 C sensitive to low temp.	>25ppt	Tolerates relatively low oxygen. Cultured at 4.8-9.3 mg/L	Shallow waters to 95m mainly at 2-55m	Mainly crustaceans; (especially lobsters). Fish, and mollusks (cephalopods)		Inshore around docks, bridges and jetties, reef crevices. Large adults prefer offshore ledges and wrecks	L = 200cm K = 0.13/yr t ₀ = 0.49 Growth rate is slow. Reach maximum biomass at older ages	Z = 0.85 F = 0.70 M = 0.15 Highly vulnerable to overfishing due to slow growth rate and spawning aggregations	
Citation		2,11	10,16,18	11	2,18	1,3,10	2,6,14,18		1,2,12,14	1	1,2,12,17	
Spawning Adults Possibly protogynous hermaphrodites	June-Dec with peaks during Jul-Sept	Gulf of Mexico SE & SW FL. Form spawning aggregations of 10-150 individuals	25-26°C	Seawater = 30-35ppt	Seawater	Spawning aggregations reported 36-46m			Offshore structures; wrecks, patch reefs			
Citation	1,4,16	1,4	1,4	1,4	1,4	1,2,4			2,4			

Jewfish References

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