

Gray Snapper (*Lutjanus griseus*) life history for the Gulf of Mexico. Associations and interactions with environmental and habitat variables are listed with citations as footnotes.

Life stage	Eco-region	Habitat Zone	Habitat Type	Season	Temp (°C)	Depth (m)	Prey	Predators	Mortality	Growth
eggs <sup>5, 13, 16, 23, 32, 33, 34</sup>	ER-1, ER-2	offshore	WCA	Jun-Sep		<i>0-180</i>				pre-settlement duration: 25-33 d
larvae <sup>4, 6, 12, 13, 16, 32, 33, 34</sup>	ER-1, ER-2	offshore	WCA	Apr-Nov peak: Jun-Aug	15.6-27.2	<i>0-180</i>	lab: zooplankton	carnivorous fish		pre-settlement duration: 25-33 d
postlarvae <sup>6, 12, 15, 19, 23, 24, 28, 32, 33, 34</sup>	ER-1, ER-2	estuarine	SAV				copepods, amphipods	carnivorous fish		pre-settlement duration: 25-33 d
early juveniles <sup>1, 6, 12, 16, 18, 19, 23, 24, 28, 31, 32, 33, 34</sup>	ER-1, ER-2	estuarine	SAV, mangrove, emergent marsh		12.8-36.0	1-3	amphipods	carnivorous fish		growth rate = 0.60-1.02 mm/d; *SAV residents ~ 8 months; settle Sep-Oct (at 78 mm TL)*
late juveniles <sup>1, 3, 12, 18, 19, 21, 22, 23, 25, 28, 34</sup>	ER-1, ER-2	estuarine, nearshore	SAV, mangrove, emergent marsh		12.8-36.0	<i>0-180</i>	penaeid shrimp, crabs, fish, mollusks, polychaetes	carnivorous fish		growth rate = 0.60-1.02 mm/d; *SAV residents ~ 8 months; occupy mangroves from 100-120+ mm TL*
adults <sup>1, 2, 6, 7, 8, 9, 10, 11, 14, 17, 18, 20, 21, 22, 23, 25, 27, 29, 30</sup>	ER-1, ER-2, ER-3, ER-4, ER-5	estuarine, nearshore, offshore	hard bottom, soft bottom, reef, sand/shell, banks/shoals, emergent marsh		13.4-32.5	0-180	fish, shrimp, crabs		Z=0.17-0.22, M=0.15	recruit to fishery @ age 4; max. age = 28 yrs; L <sub>inf</sub> = 656.4 mm TL, k = 0.22, t <sub>0</sub> = 0

spawning adults <sub>5, 23,</sub> 26	ER-1, ER-2, ER-3, ER-4, ER-5	estuarine, nearshore, offshore	reef, hard bottom	year-round (S. FL), summer elsewhere		0-180				maturation at 185 mm TL for males and 200 mm TL for females
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Notes: Information in asterisks comes from studies conducted outside GMFMC jurisdiction

***Bold and italicized font indicates proxy data***