

Species: Red Snapper

Lutjanus campechanus

Life stage	Eco-region	Habitat Zone	Habitat Type	Season	Temp (°C)	Depth (m)	Prey	Predators	Mortality	Growth
eggs _{1, 2, 6, 17}	ER-1, ER-2, ER-3, ER-4, ER-5	offshore	WCA	Apr-Oct		18-126				50% hatch in 20-27 hrs
larvae _{5, 13, 20}	ER-1, ER-2, ER-3, ER-4, ER-5	offshore	WCA	Jul-Nov	17.3-29.7	18-126	alga, rotifers (in lab)			PLD = 28 d
postlarvae _{5, 17, 20}	ER-1, ER-2, ER-3, ER-4, ER-5	offshore	WCA	Jul-Nov	17.3-29.7	18-126				settle at 16-19 mm TL; PLD = 28d
early juveniles _{2, 5, 8, 16, 20, 21, 24}	ER-1, ER-2, ER-3, ER-4, ER-5	nearshore, offshore	reefs, hard bottom, banks/shoals, soft bottom, sand/shell	Jul-Nov	17.3-29.7	17-183	zooplankton, shrimp, chaetognaths, squid, copepods		shrimp trawl bycatch; <i>M</i> (age 0) = 2.0/yr	0.817-1.01 mm/d
late juveniles _{2, 3, 8, 10, 12, 16, 17, 20, 21, 24}	ER-1, ER-2, ER-3, ER-4, ER-5	nearshore, offshore	reefs, hard bottom, banks/shoals, soft bottom, sand/shell	year-round	20-28	18-55	fish, squid, crabs, shrimp		shrimp trawl bycatch; <i>M</i> (age 1) = 1.2/yr	0.817-1.01 mm/d
adults _{2, 3, 4, 7, 9, 10, 11, 12, 14, 15, 17, 18, 24}	ER-1, ER-2, ER-3, ER-4, ER-5	nearshore, offshore	reefs, hard bottom, banks/shoals	year-round	14-30	7-146	fish, shrimp, squid, octopus, crabs	sharks	enter fishery at age 2; <i>M</i> = 0.094/yr	$L_{inf} = 85.64$ cm TL, $K = 0.19$, $t_0 = -0.39$, max. age = 48 yrs
spawning adults _{1, 2, 6, 19, 25}	ER-1, ER-2, ER-3, ER-4, ER-5	offshore	sand/shell, banks/shoals	Apr-Oct	16-29	18-126				50% mature (female) at age 3-5, 400-450 mm TL; 100% mature (female) at age 8, 700 mm TL

Notes: larvae and post-larvae: 32.8-37.5 ppt₅

juveniles: salinity = 30-35ppt₂₁

DO > 0.4 mg/L₂₂

adults: 33-37 ppt₁₀

spawning adults: batch fecundity = 27-142 egg/g fish weight₂₄

red snapper utilize artificial reefs as juveniles and adults₁₇

Bold and italicized font indicates proxy data