

PR Spiny Lobster: Updated Projections and Sensitivity Trajectories

Analyses Requested by the SSC on July 7, 2026

Caribbean Fisheries Branch
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Following the SSC request on July 7, 2026, a low-recruitment sensitivity scenario was developed for the Puerto Rico Spiny Lobster stock assessment. This scenario reflects forecast recruitment conditions during a low productivity interval observed between 2001 and 2011. The figures and table below compare this new sensitivity against the baseline Standard SRR model run and the recent high-productivity recruitment scenario (2015–2021).

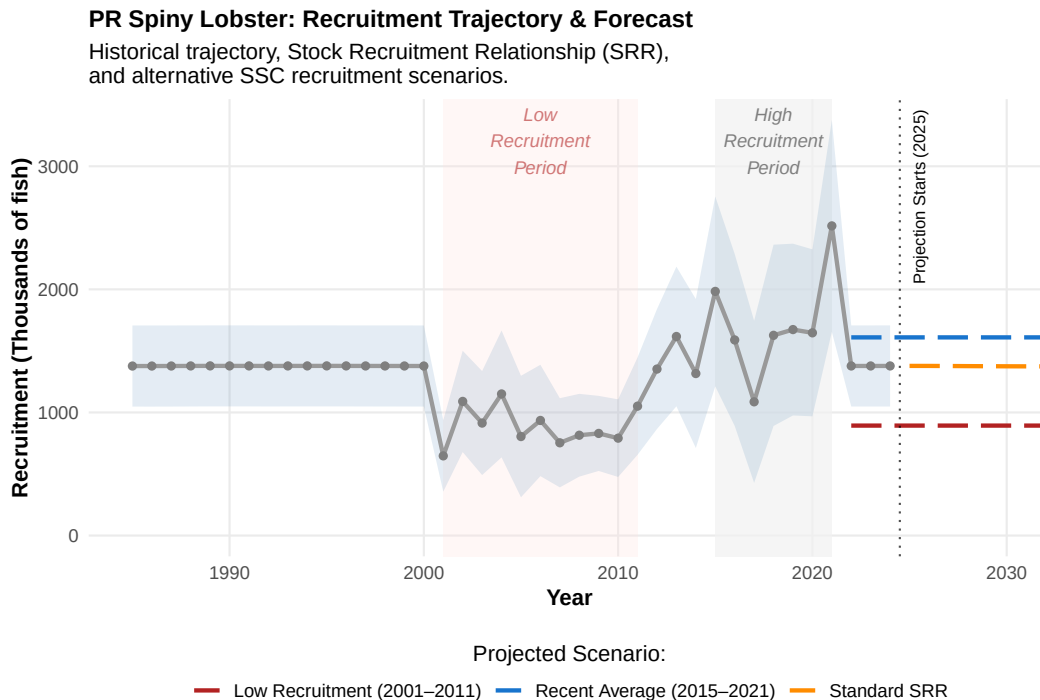


Figure 1: PR Spiny Lobster: Recruitment Projections Comparison (1985-2030) for the (SE = 0.1) Scenario. SRR represents the projections based on the stock recruitment relationship.

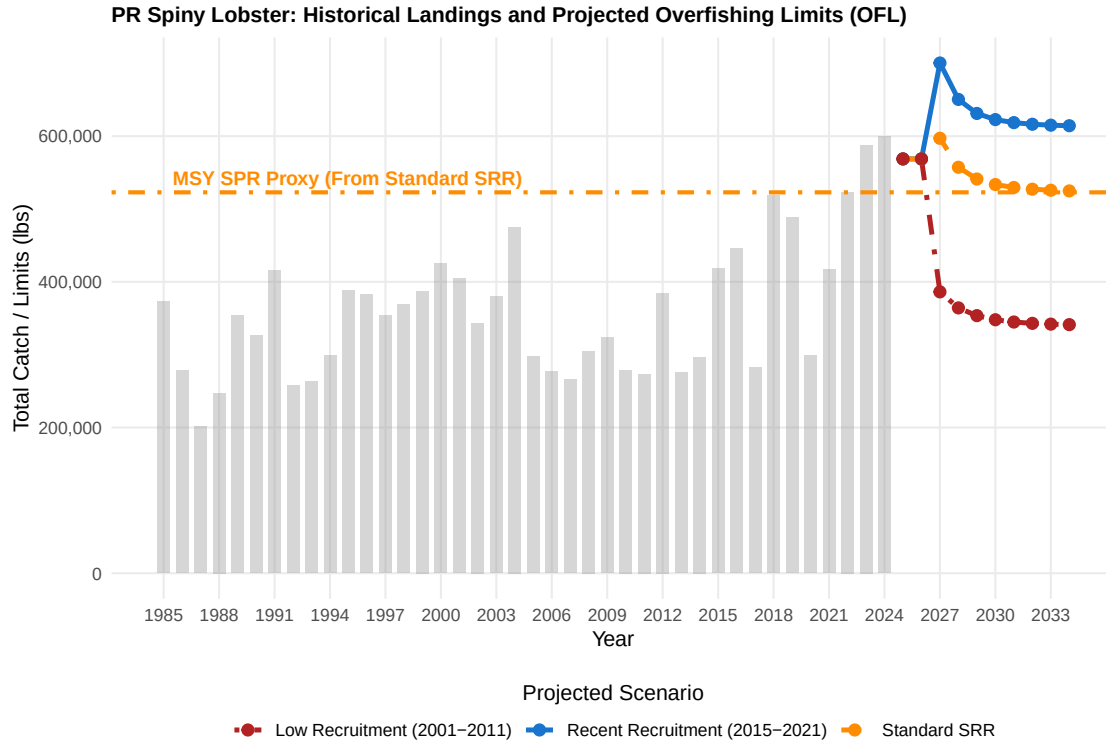


Figure 2: PR Spiny Lobster: Landings and Projected Overfishing Limits (OFL) for the (SE = 0.1) Scenario. SRR represents the projections based on the stock recruitment relationship.

Table 1: PR Spiny Lobster: Projected Overfishing Limits (OFL) and MSY SPR Proxy for the SE = 0.1 model scenario in pounds. SRR represents the projections based on the stock recruitment relationship. Catch values for the interim years (2025 and 2026) are equal to the three-year geometric mean of recent landings (2022-2024).

Scenario	2025 Interim	2026 Interim	2027	2028	2029	Mean 2027- 2029
OFL Standard SRR	568,757	568,757	597,111	557,309	541,153	565,191
OFL Recent Recruitment (2015-21)	568,757	568,757	700,448	650,443	631,197	660,696
OFL Low Recruitment (2001-11)	568,757	568,757	386,239	364,234	353,591	368,021
MSY SPR Proxy (SRR)	522,888	522,888	522,888	522,888	522,888	522,888
MSY SPR Proxy (Recent)	522,855	522,855	522,855	522,855	522,855	522,855
MSY SPR Proxy (Low)	525,794	525,794	525,794	525,794	525,794	525,794