

Equilibrium values from the SEDAR 78 Atlantic Spanish Mackerel base stock assessment model run

On May 30, 2023 a request was sent to the SEFSC for values from the SEDAR 78 Atlantic Spanish Mackerel stock assessment model. These values were not included in the original SEDAR stock assessment report, but were computed as part of the model run. The request was for equilibrium values corresponding to 75% F_{MSY} . Those values are reported below (Table 1). The original equilibrium values corresponding to F_{MSY} are included for reference.

Table 1. Equilibrium values from the SEDAR 78 base stock assessment model run for Atlantic Spanish Mackerel. Values include fishing mortality (F), total biomass (B), spawning stock biomass (SSB), recruits (R), landings (L), and discards (D).

Equilibrium Values	F_{MSY}	$75\%F_{MSY}$
F (y^{-1})	0.516	0.387
B (mt)	19588	23246
SSB (mt)	6406	8186
R (1000's)	22792	23852
L (1000 lbs whole wgt)	8210	8024
L (1000's)	5413	4977
D (1000 lbs whole wgt)	581	469
D (1000's)	1147	916