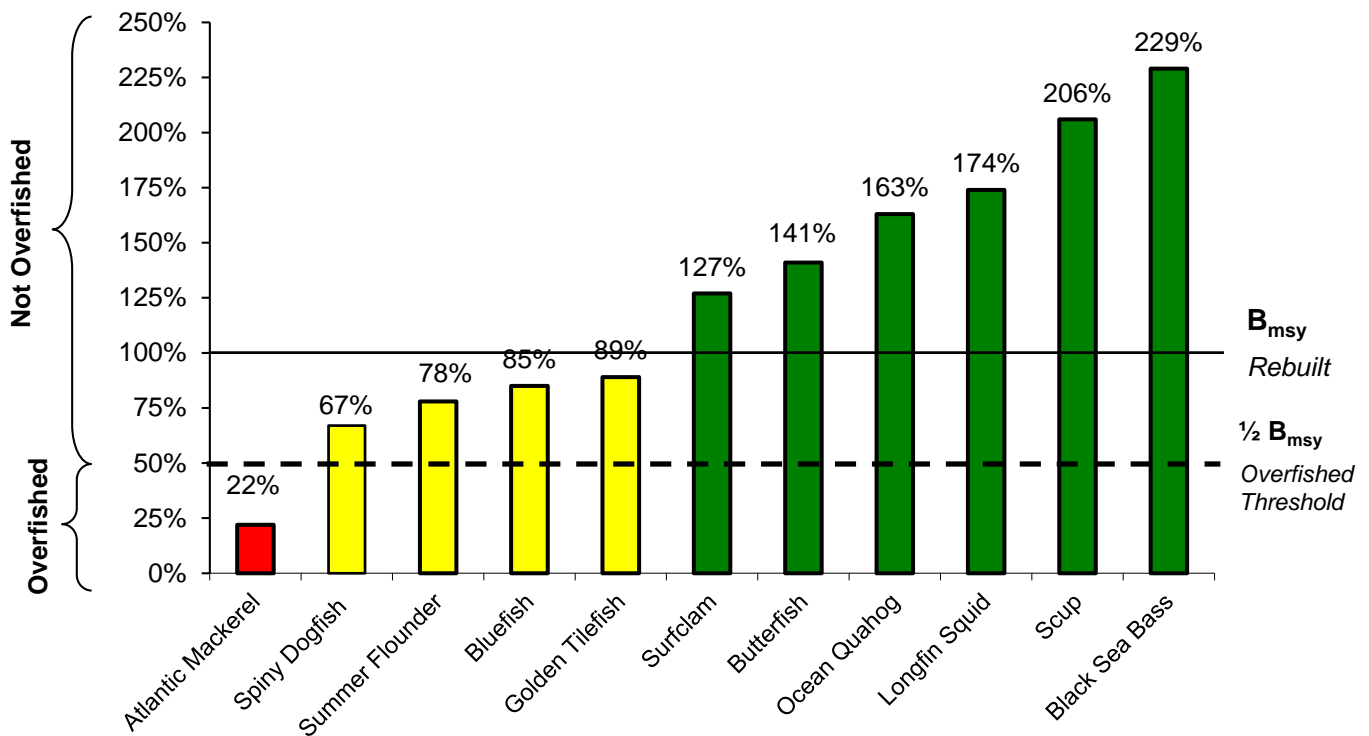


Stock Size Relative to Biological Reference Points

(as of August 1, 2019)



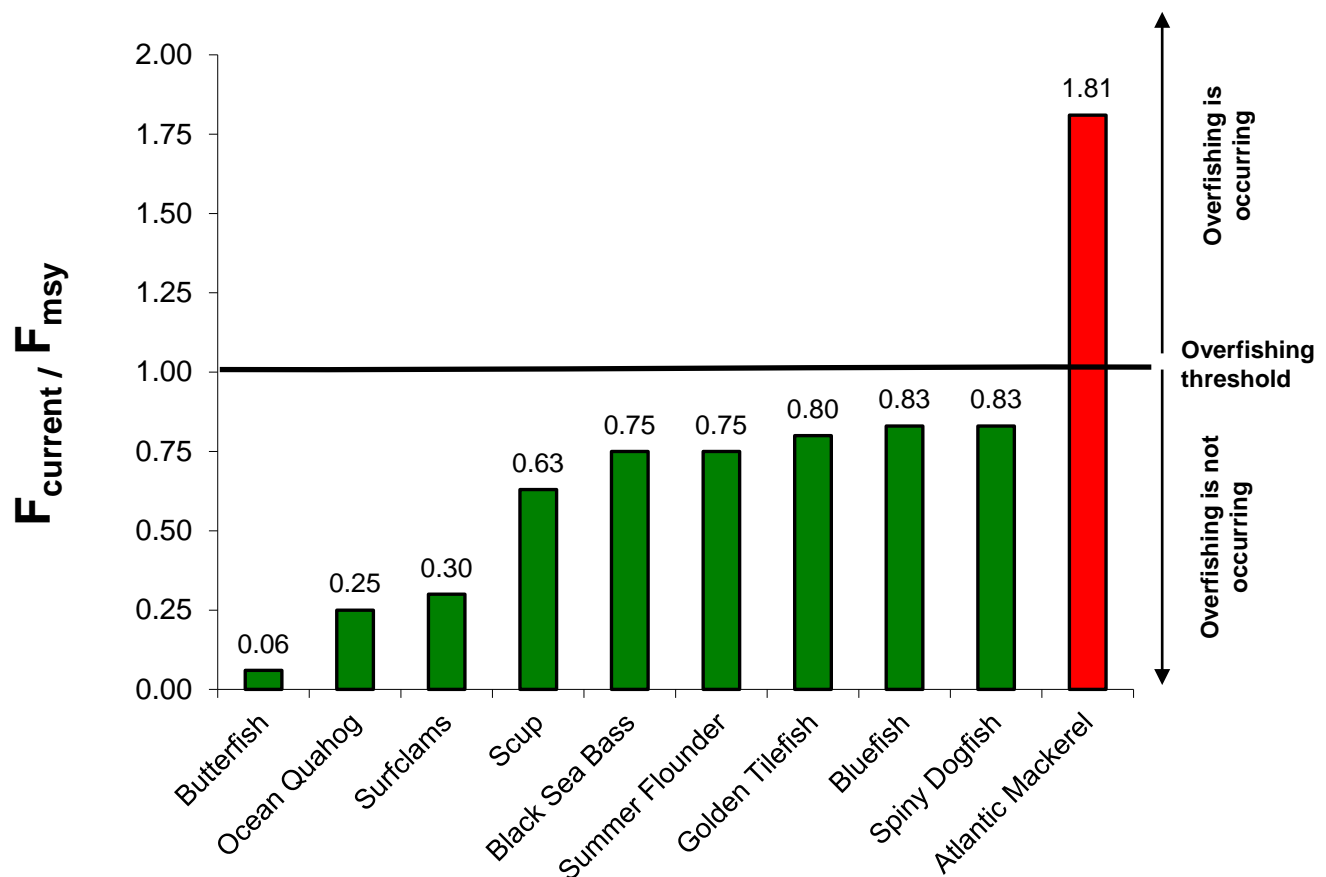
Notes:

- Unknown B_{msy} - *Illex* squid, monkfish (NFMA & SFMA), blueline tilefish (North of Cape Hatteras)
- Of the 14 stocks managed by the Council, 6 are above B_{msy} , 5 are below B_{msy} , and 3 are unknown.
- In March 2019, the Council approved an amendment with management measures for Atlantic chub mackerel. These measures have not yet been approved by NOAA Fisheries. Chub mackerel B_{msy} is unknown.
- The results of the 2019 operational assessment for black sea bass, bluefish, scup, and monkfish are pending peer review.

Year of data used to determine stock size	
Atlantic Mackerel	2016
Black Sea Bass	2015
Bluefish	2014
Butterfish	2016
Golden Tilefish	2016
Longfin Squid	2016
Ocean Quahog	2016
Spiny Dogfish	2018
Surfclam	2015
Scup	2016
Summer Flounder	2017

Fishing Mortality Ratios for MAFMC-Managed Species

(as of August 1, 2019)



Notes:

- Unknown fishing mortality: *Illex* squid, Longfin squid, monkfish (NFMA and SFMA), and blueline tilefish (North of Cape Hatteras).
- In March 2019, the Council approved an amendment with management measures for Atlantic chub mackerel. These measures have not yet been approved by NOAA Fisheries. The chub mackerel fishing mortality rate is unknown.
- The results of the 2019 operational assessment for black sea bass, bluefish, scup, and monkfish are pending peer review.

Year of data used to determine stock size	
Atlantic Mackerel	2016
Black Sea Bass	2015
Bluefish	2014
Butterfish	2016
Golden Tilefish	2016
Ocean Quahog	2016
Spiny Dogfish	2017
Surfclam	2015
Scup	2016
Summer Flounder	2017