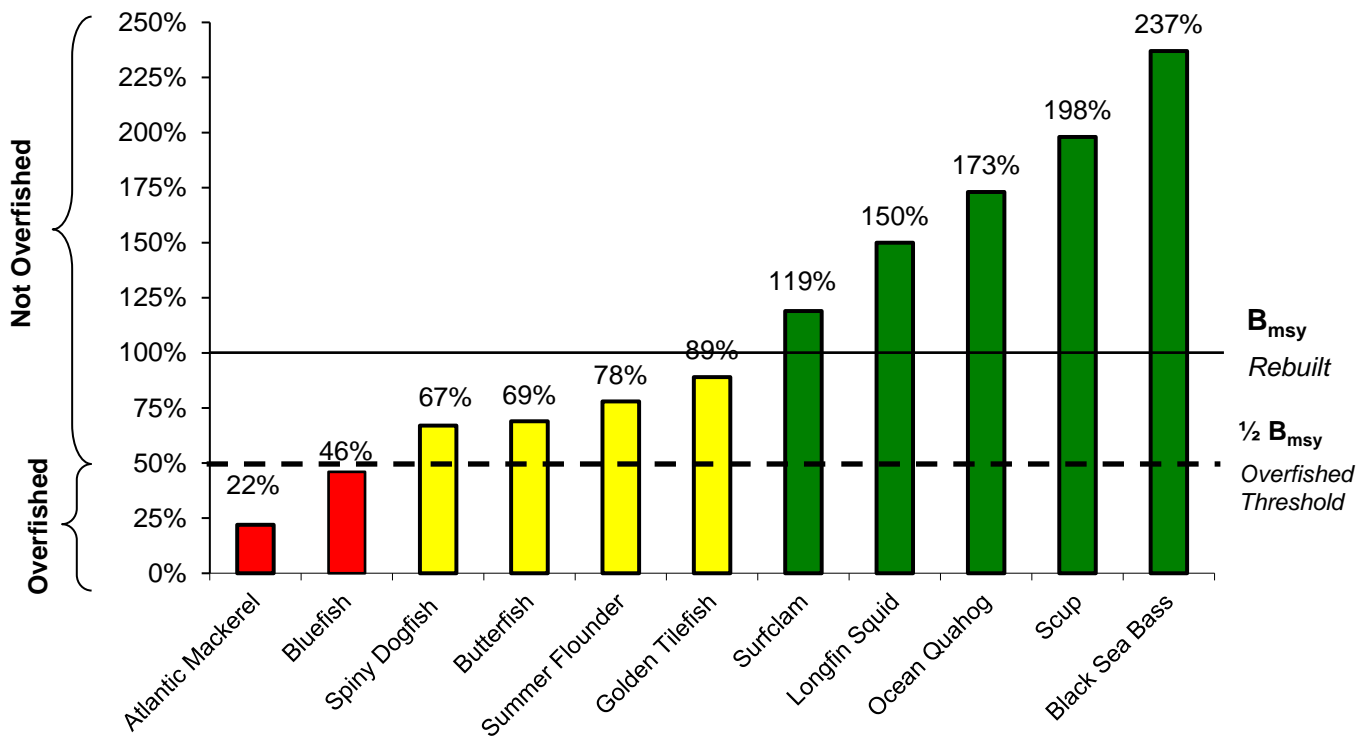


## Stock Size Relative to Biological Reference Points (as of 12/1/20)



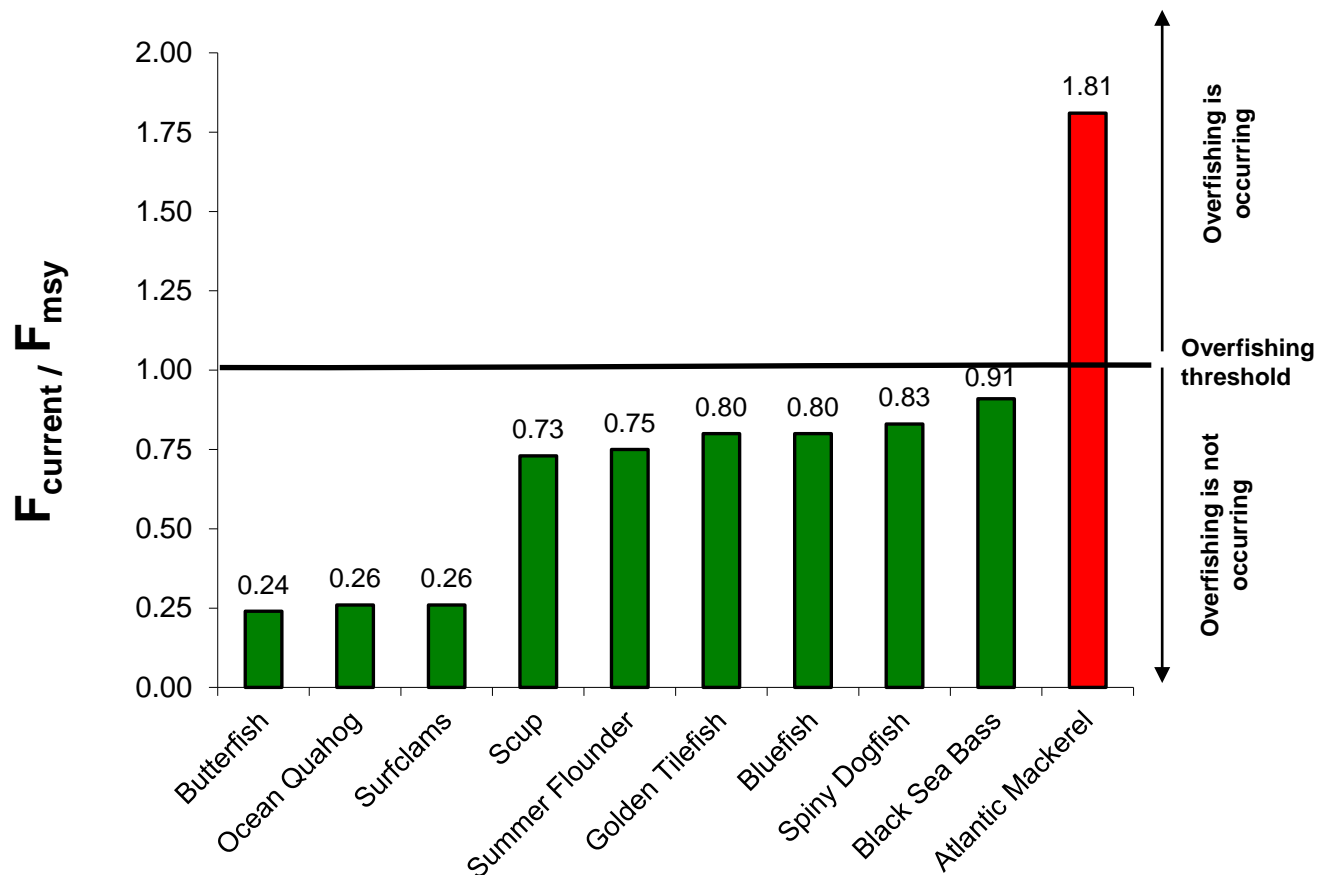
### Notes:

- Unknown  $B_{msy}$  - *Illex* squid, monkfish (NFMA & SFMA), blueline tilefish (North of Cape Hatteras), and chub mackerel.
- Of the 15 species managed by the Council, 5 are above  $B_{msy}$ , 6 are below  $B_{msy}$ , and 4 are unknown.

Year of data used to determine stock size	
Atlantic Mackerel	2016
Black Sea Bass	2018
Bluefish	2018
Butterfish	2019
Golden Tilefish	2016
Longfin Squid	2018-2019 (average)
Ocean Quahog	2016
Spiny Dogfish	2018
Surfclam	2019
Scup	2018
Summer Flounder	2017

## Fishing Mortality Ratios for MAFMC-Managed Species

(as of 12/1/20)



**Notes:**

- Unknown fishing mortality: *Illex* squid, Longfin squid, monkfish (NFMA and SFMA), blueline tilefish (North of Cape Hatteras), and chub mackerel.
- Of the 15 species managed by the Council, 9 are above F<sub>msy</sub>, 1 is above, and 5 are unknown.

Year of data used to determine fishing mortality	
Atlantic Mackerel	2016
Black Sea Bass	2018
Bluefish	2018
Butterfish	2019
Golden Tilefish	2016
Ocean Quahog	2019
Spiny Dogfish	2017
Surfclam	2016
Scup	2018
Summer Flounder	2017