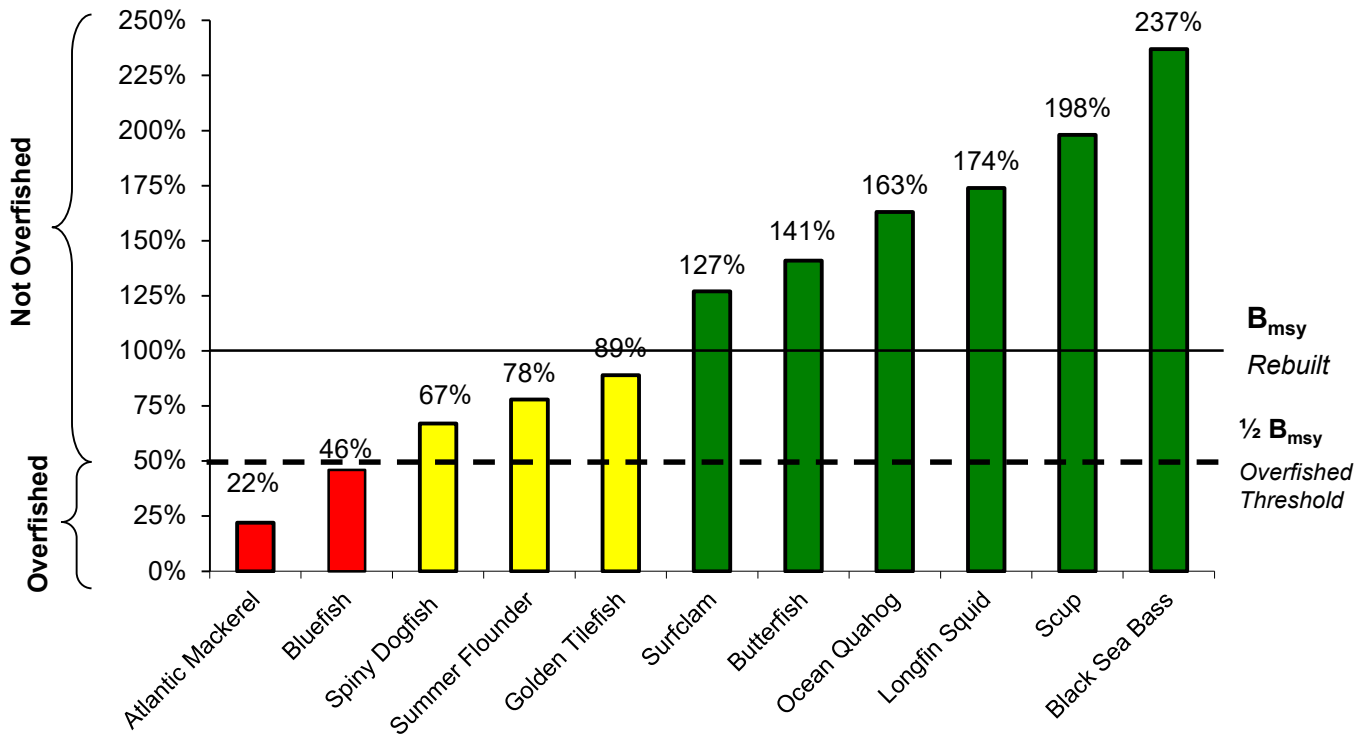


Stock Size Relative to Biological Reference Points (as of 11/20/19)



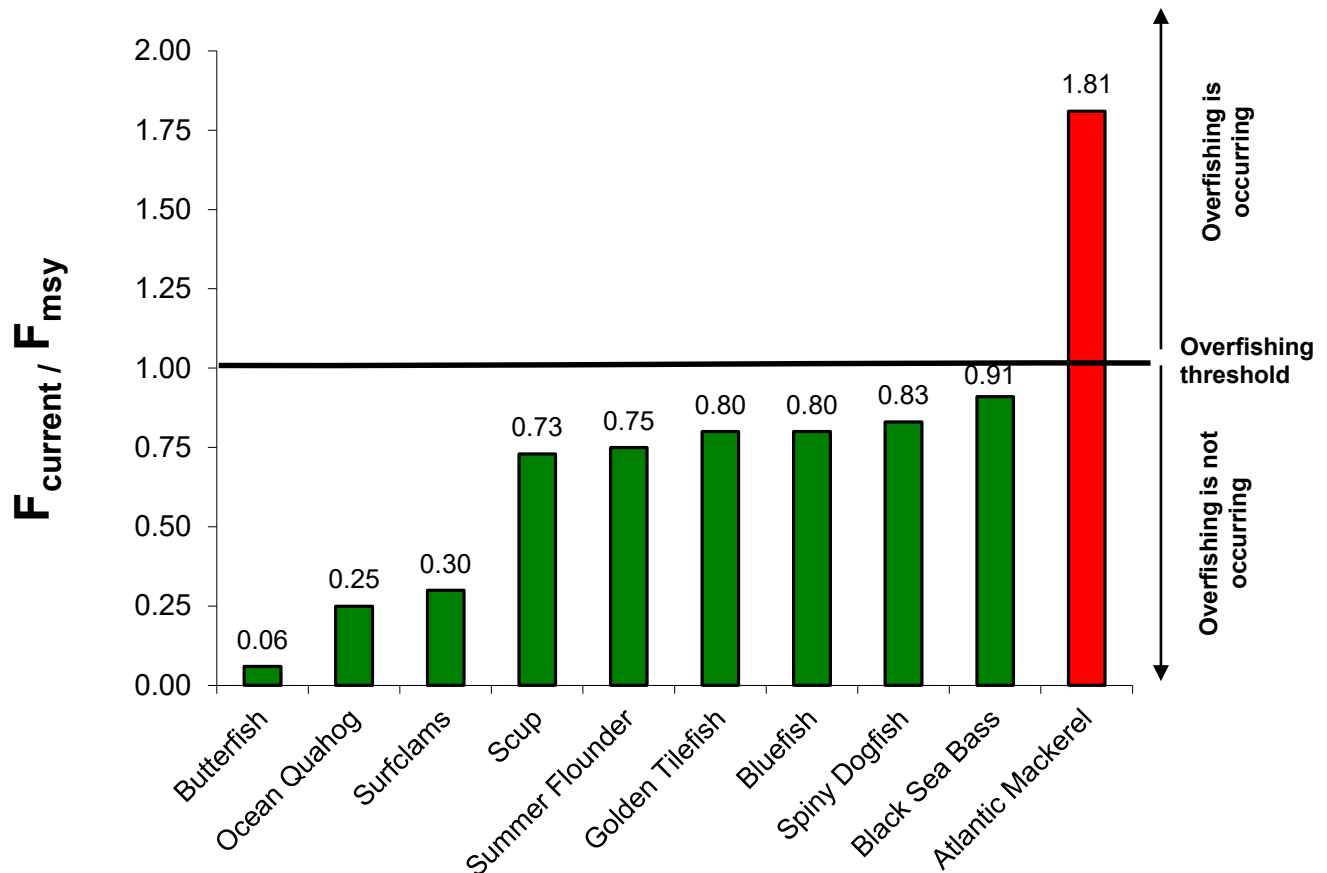
Notes:

- 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.

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

Fishing Mortality Ratios for MAFMC-Managed Species

(as of 11/20/19)



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.

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