

9 | Estrategia de captura activa

Atlantic Herring



Autoridad de ordenación:

United States Domestic Fisheries

Año de adopción:

2019

Objetivos de ordenación:

- $SSB/SSB_{MSY} = 100\%$, with an acceptable level as low as 85%;
- Variation in annual yield is $<10\%$, with an acceptable level as high as 25%;
- Probability of overfished 0%, with an acceptable level as high as 25%;
- Probability of herring fishery closure between 0-10%.

Puntos de referencia:

Upper biomass parameter (overfished threshold): $50\%SSB_{MSY}$

Lower biomass parameter (closes fishery): $10\%SSB_{MSY}$

Maximum fishing mortality: $80\%F_{MSY}$

Estrategia de captura:

Measure includes only a harvest control rule as opposed to a full harvest strategy.

Specifications:

- **Type:** Model-based
- **Management cycle:** 3 years, but quota may be different each year
- **Data inputs:** Recruitment estimates derived from 1995 VPA, mean weights at age, surplus production model
- **Management output:** Quota
- **Harvest control rule:** When biomass is greater than 50% of SSB/SSB_{MSY} , the maximum fishing mortality allowed is 80% of F_{MSY} , so 20% of F_{MSY} is left for herring predators. As biomass declines further, fishing mortality declines linearly, and if biomass falls below 10% of SSB/SSB_{MSY} , the fishery closes.

Resultado:

The MSE-tested HCR was implemented for the first time in 2019. Following accounting of the 2020 catches, catch limits decreased for 2022 and 2023 due to overages in 2020.

Enlaces:

[Atlantic Herring Fishery Management Plan: Management Strategy Evaluation Debrief Final Report \(https://s3.amazonaws.com/nefmc.org/3_Herring-MSE-debrief-final-report.pdf\)](https://s3.amazonaws.com/nefmc.org/3_Herring-MSE-debrief-final-report.pdf)

[Atlantic Herring Fishery Management Plan \(https://s3.us-east-1.amazonaws.com/nefmc.org/Herring-A8-FEIS.FINAL_191007_135918.pdf\)](https://s3.us-east-1.amazonaws.com/nefmc.org/Herring-A8-FEIS.FINAL_191007_135918.pdf)