



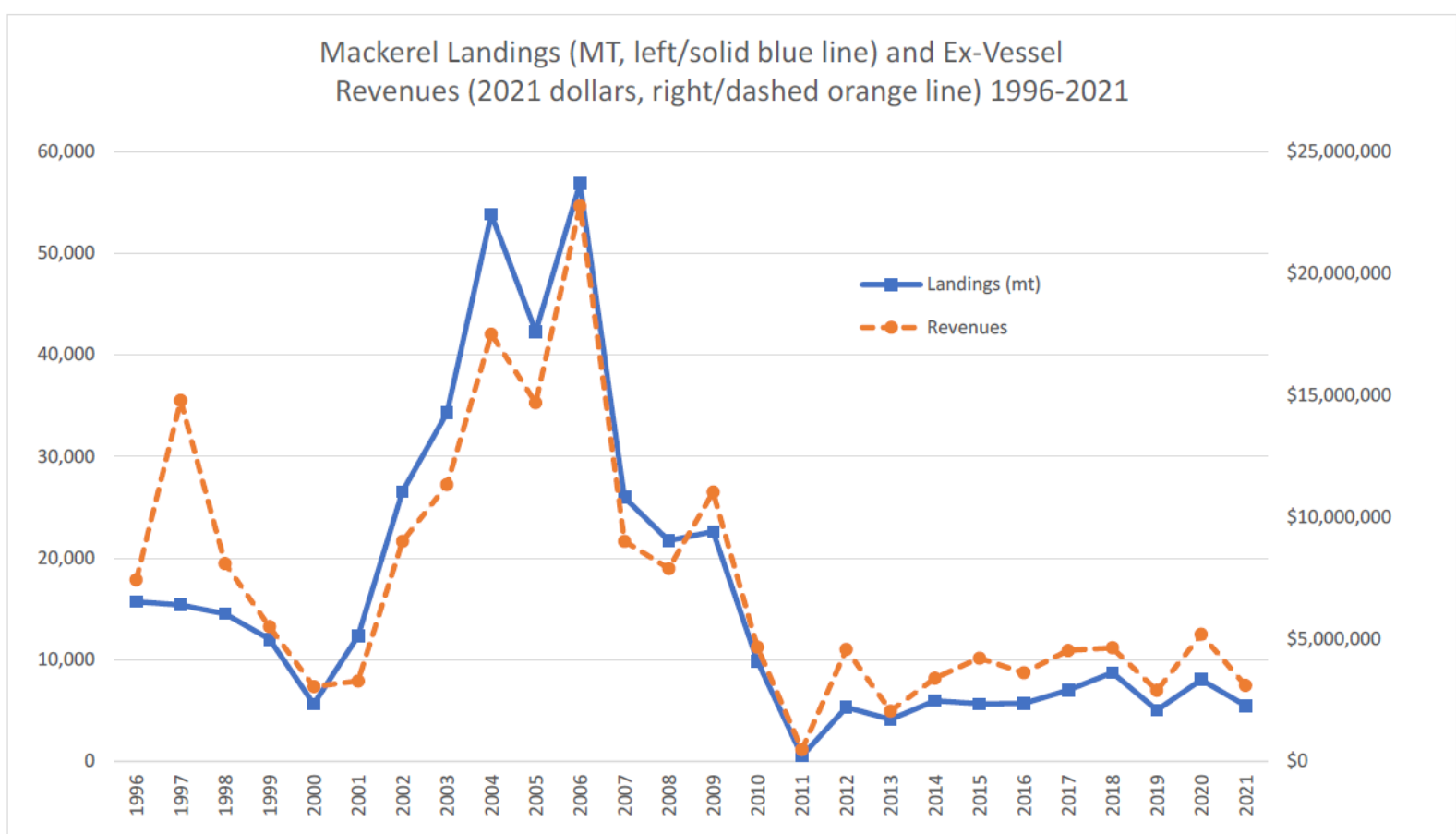
# ***Atlantic Mackerel Rebuilding v2***

*March 2022*

# *Council revising rebuilding plan*

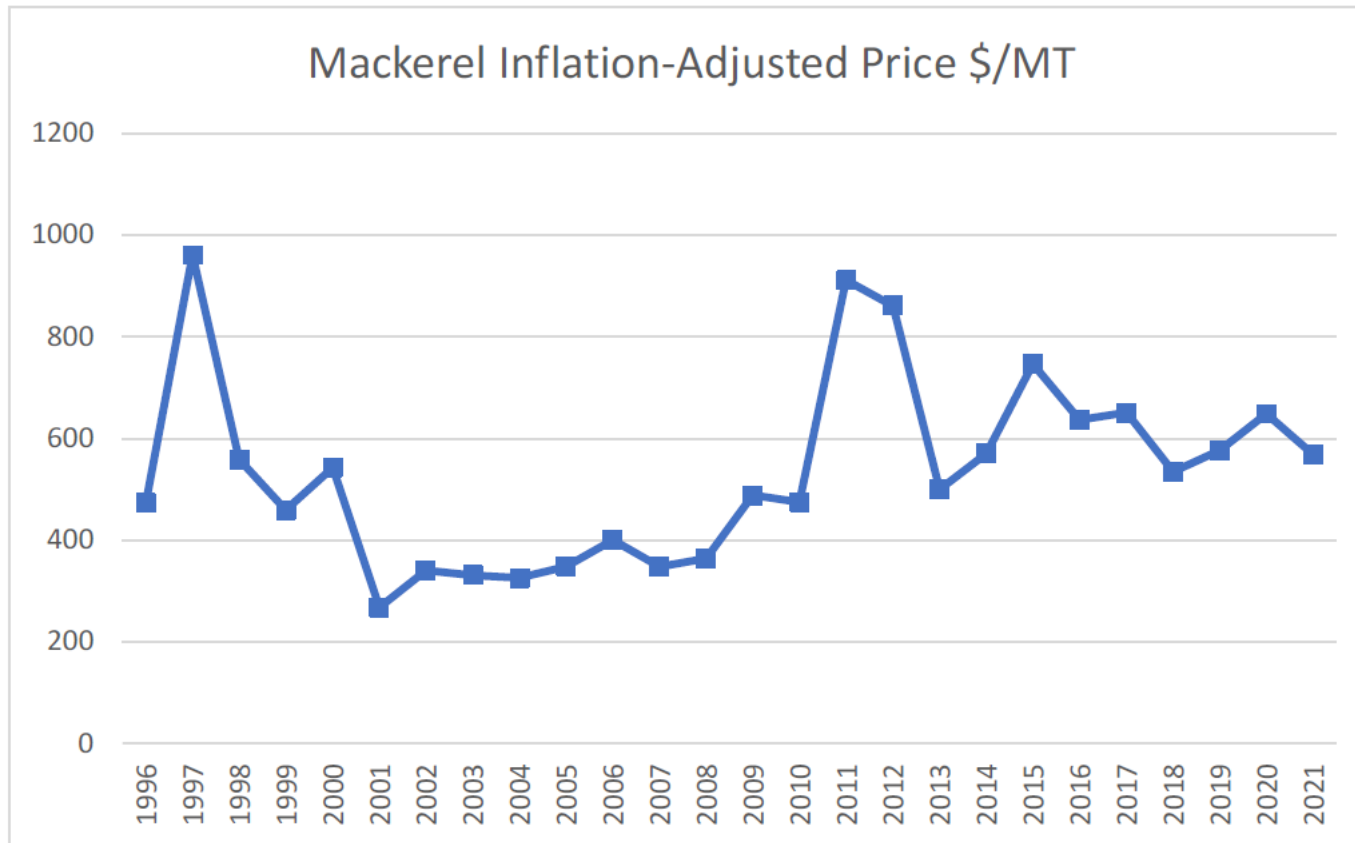
- 2021 MTA, data through 2019
  - not rebuilding as fast as anticipated
- SSC advice for rebuilding v2
  - Use either low, or low then normal, recruitment
    - $\frac{1}{2}$  Bmsy “threshold”
  - 150% C.V. for P\* risk policy-linked deductions

# From Fishery Info Doc



**Figure 2.** U.S. Mackerel Landings and Mackerel Ex-Vessel Values 1996-2021. Source: NMFS unpublished dealer data. [PRELIMINARY]

# From Fishery Info Doc



**Figure 3.** Ex-Vessel Mackerel Prices 1996-2021 Adjusted to 2021 Dollars Source: NMFS unpublished dealer data. [PRELIMINARY]

# From Fishery Info Doc

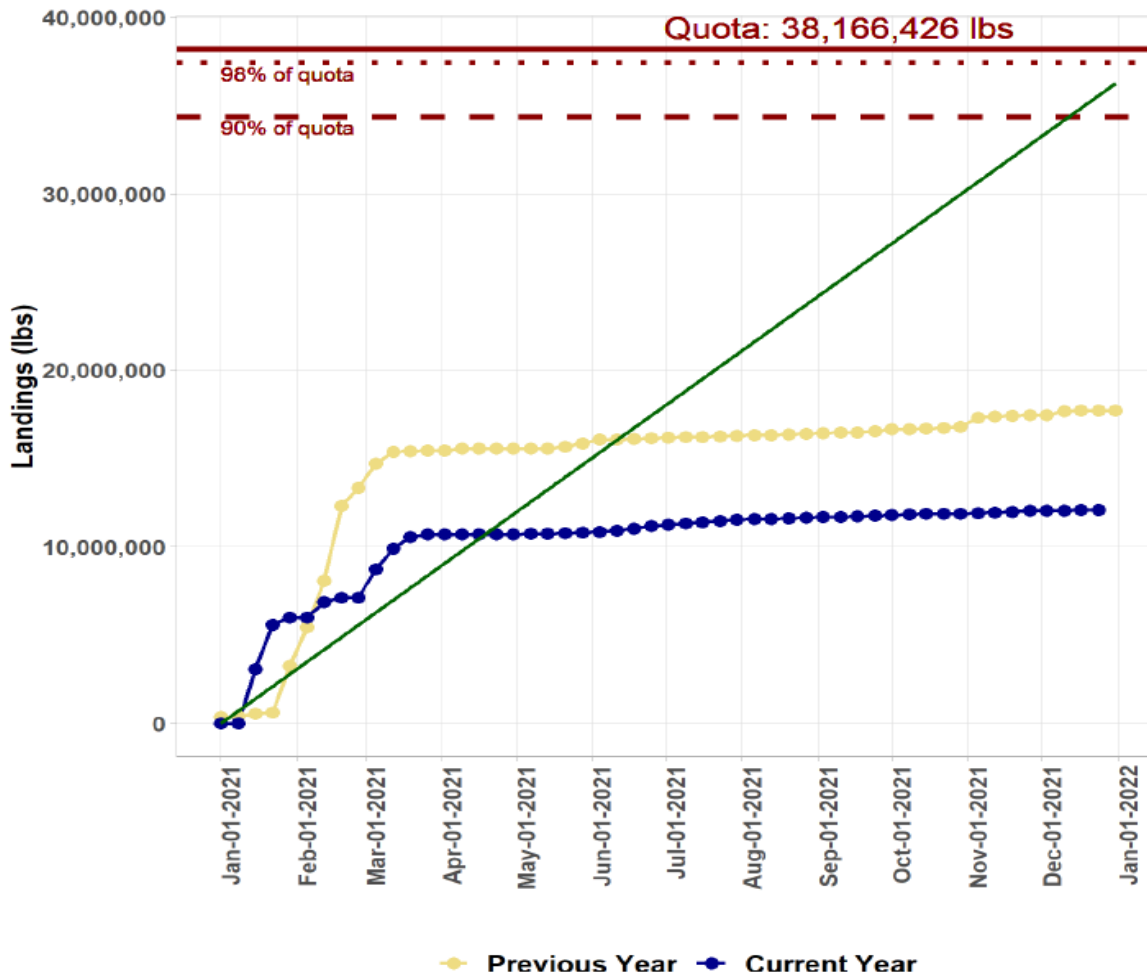
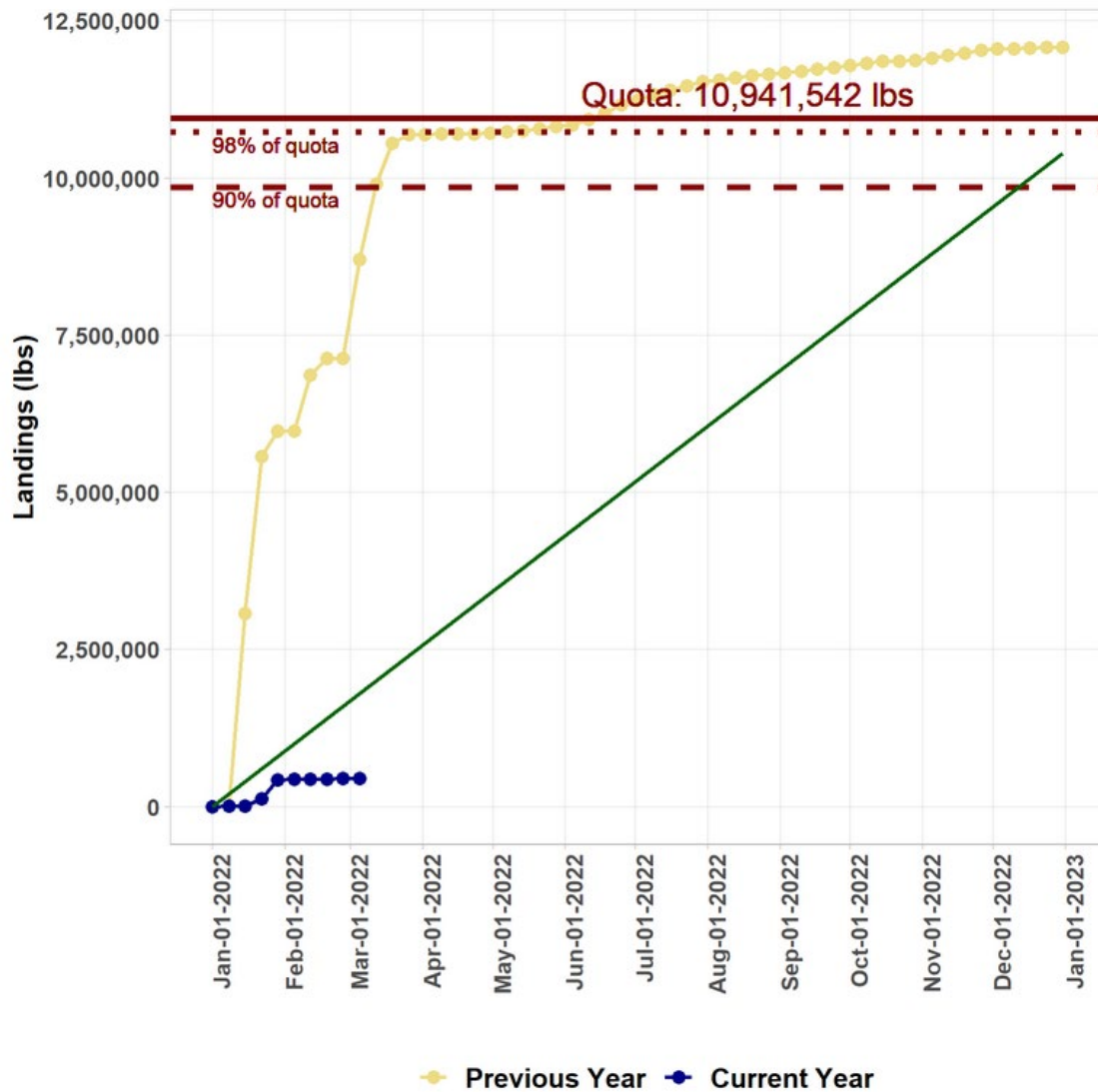


Figure 4. U.S. Preliminary Mackerel landings; 2021 in blue, 2020 in yellow-orange. Source: <https://www.fisheries.noaa.gov/new-england-mid-atlantic/commercial-fishing/quota-monitoring-greater-atlantic-region>.

# Current landings (blue)



# Fishery Performance Report

- Demand has been strong for years – markets have not been a limiting factor.
- U.S. fishery is a small part of overall mackerel trade (2019 Europe = 825,000 MT)
- Inshore New England mid-water trawl exclusion areas limiting mackerel catch in 2021/2022
- Concern about lack of data going forward to evaluate rebuilding

# Rebuilding ABCs

- 5 Options from Council considering previous SSC recommendations and constructing a “reasonable range...”



Run ID	Name	Implied Rebuilding Risk Policy	Recruitment	CV	Probability Rebuild by 2032	F (2023/2024 if multiple	Rebuilt by (median)	Implied Total 2023 median Catch/ ABC (mt)	Implied Total 2024 median Catch/ ABC (mt)
1	2009+ Rebuild	50% chance of rebuilding by 2032	2009+	na	56.6%	0.01	June 2031	703	865
2	Split standard P*	Use basic P* as rebuilding plan.	Split at 1/2 Bmsy	150	51.5%	0.07/ 0.08	June 2031	4,539	6,207
3	Split 60% rebuild	60% chance of rebuilding by 2032	Split at 1/2 Bmsy	na	60.5%	0.12	June 2031	8,094	9,274
4	Split 50% rebuild	50% chance of rebuilding by 2032	Split at 1/2 Bmsy	na	53.4%	0.14	June 2032	9,371	10,591
5	Split 50% rebuild with P* deduction	Use rebuild F from split 50% chance of rebuild and then deduct per P* as if rebuild F was overfishing F	Split at 1/2 Bmsy	150	62.3%	0.04/ 0.05	June 2029	2,976	4,168