#### Fleet Diversity, Allocation, and Excessive Shares in the Northeast Multispecies Fishery:

#### **Draft White Paper**

684132

New England Fishery Management Council September 30, 2010

### Policy and Management Objectives

MSA LAPP provisions 303A(c)(5)(D)

- Ensure that holders don't acquire "an *excessive* share" of privileges by:
  - Establishing a maximum share (expressed as a percentage) AND
  - Other measures necessary to "prevent an inequitable concentration."

### Fleet Consolidation

- Can happen naturally or directed to achieve a desired outcome
- □ Trade-off between over-consolidation and fleet efficiency/profitability
- □ What constitutes an "acceptable" fleet size?
  - Maintain some character (e.g. geographic diversity) of current fleet
  - Create more crew employment, economic benefit to communities
- □ Should fleet characteristics be considered?



June 23, 2010 Council motion:

1) Maintain inshore and offshore fleets;

2) To the extent possible, maintain a diverse groundfish fishery, including different gear types, vessel sizes, geographic locations, and levels of participation;

3) Maintain a balance in the geographic distribution of landings to protect fishing communities and the infrastructure they provide and

4) Prohibit any person from acquiring excessive access to the resource, through in order to prevent extraction of disproportionate economic rents from other permits holders.

# Paper Outline

- □ <u>Introduction</u>
- □ Groundfish Fleet Diversity
  - Definitions of Fleet Diversity
  - Baselines for the Northeast Groundfish Fishery
- Design Considerations for Accumulation Limits
  - Types of Accumulation Limits
    - □ <u>Ownership (Control) Limits</u>
    - □ <u>Vessel (Usage Limits)</u>
    - □ <u>Sector Limits</u>
  - Other Considerations for Accumulation Limits
  - Summary
  - Accumulation Limits in Other Fisheries

## Definitions of Fleet Diversity

- □ Very difficult to find actual definitions in other fisheries
- □ Gear type, geographic area, and boat size were considered in some other management decisions
- Other types of diversity could be considered, including fishing strategies and differences in output, or product type and quality
- Diversity" was generally not predefined, and strict definitions were found to conflict with adaptive management strategies

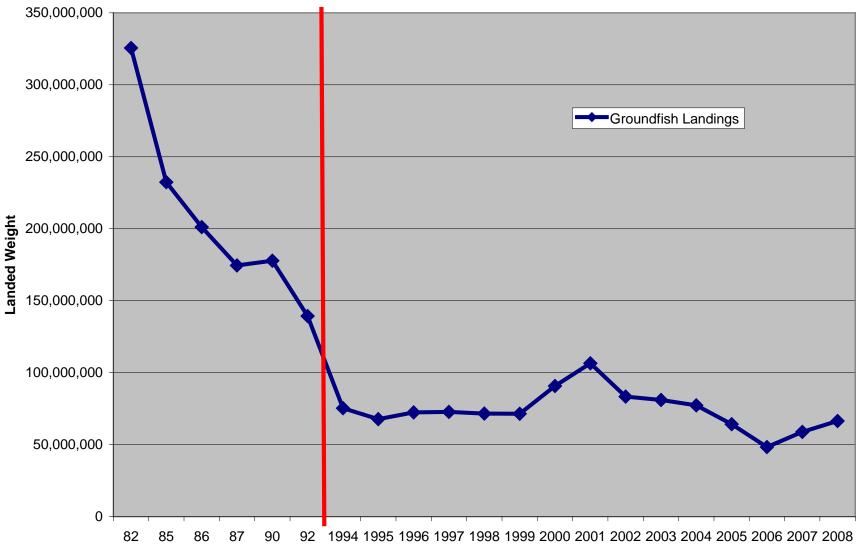
# Baselines: How can we describe changes in the fishery?

- □ Six characteristics:
  - Homeport state
  - Landing port
  - Gear
  - Vessel size
  - Area fished
  - Owners (work pending)
- □ Two general time periods:
  - Pre-limited entry (1982 1993)
  - Post limited entry (1994 2008)
- Data issues: small ports/vessels may be under-surveyed before 1994

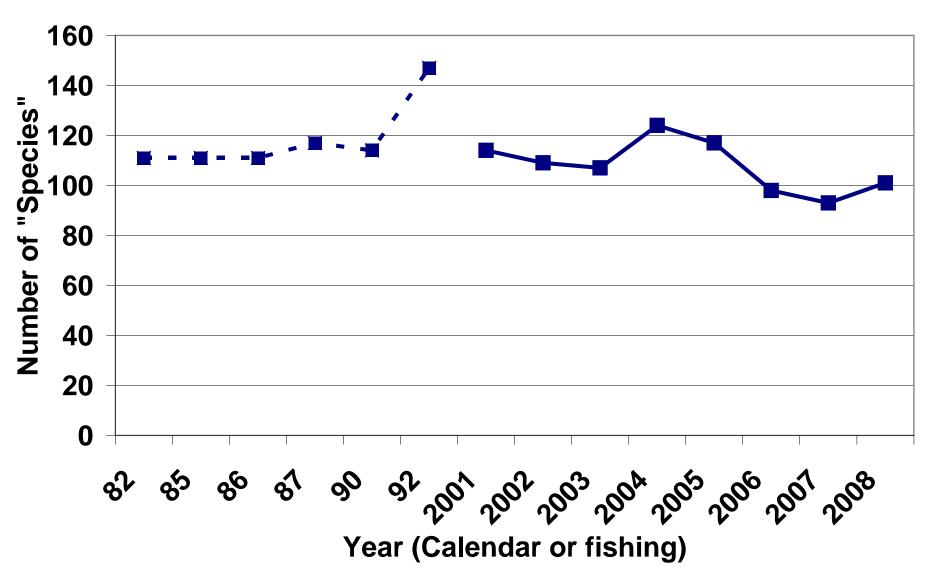
#### Metrics

- Data summaries: landings, number of permits, areas fished, etc.
- Species richness": combinations of landing port/gear/vessel size
- Diversity index: based on similar studies in ecology and economics

#### **Groundfish Landings**

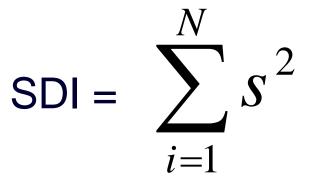


#### "Richness" (maximum=460)

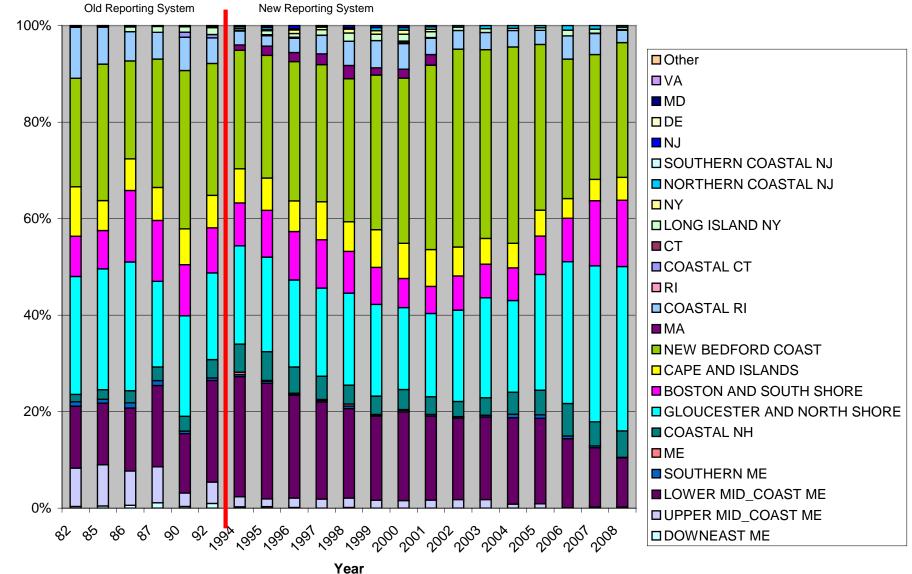


## **Diversity Index**

- Builds on Simpson's Diversity Index and Hirschman-Herfindahl Index
- Reduces changes in concentration to one number
- □ Increase means more concentration

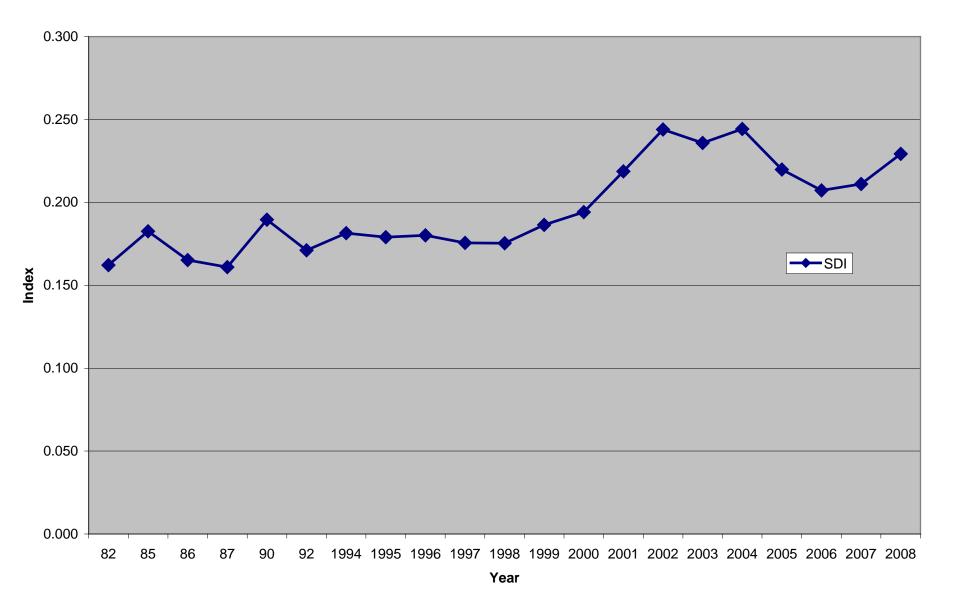


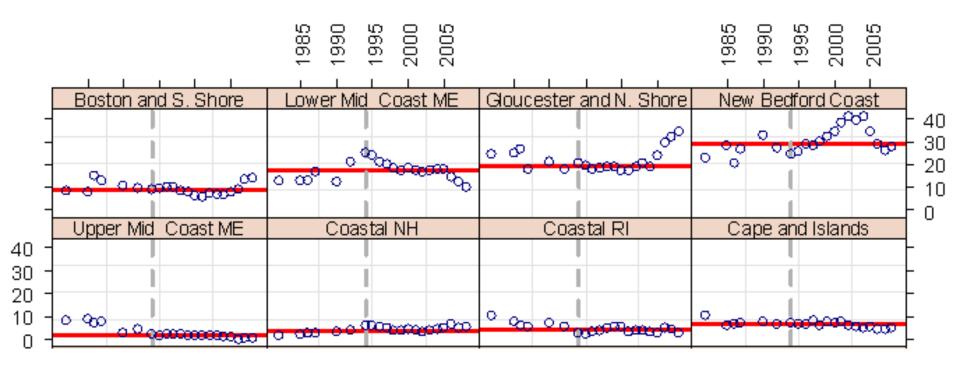
#### **Groundfish Landings by Port Group**



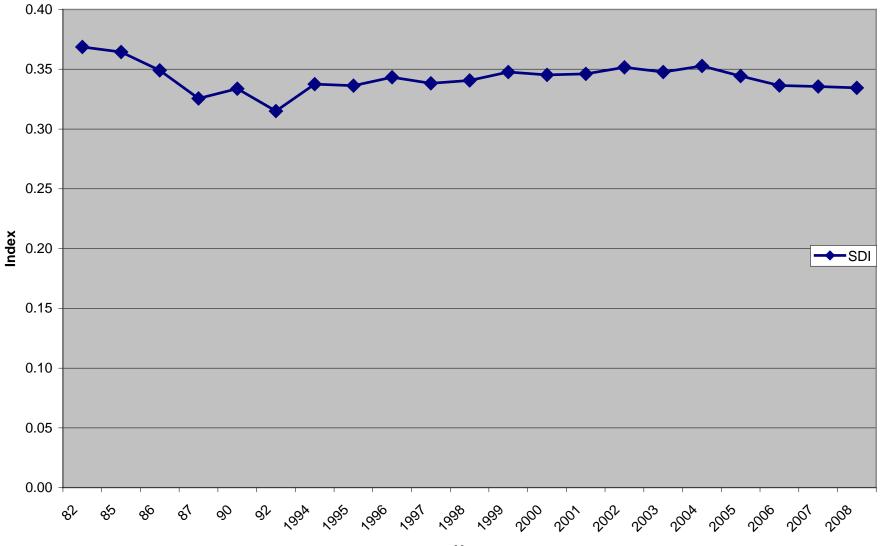
**Percent Landed Weight** 

#### SDI by Port Group



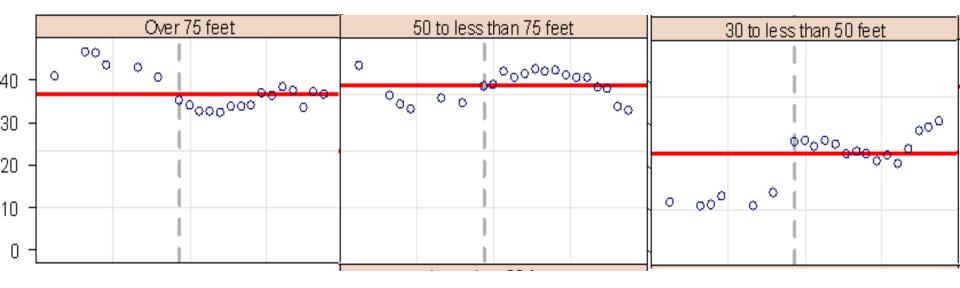


SDI Groundfish Landings by Length Group

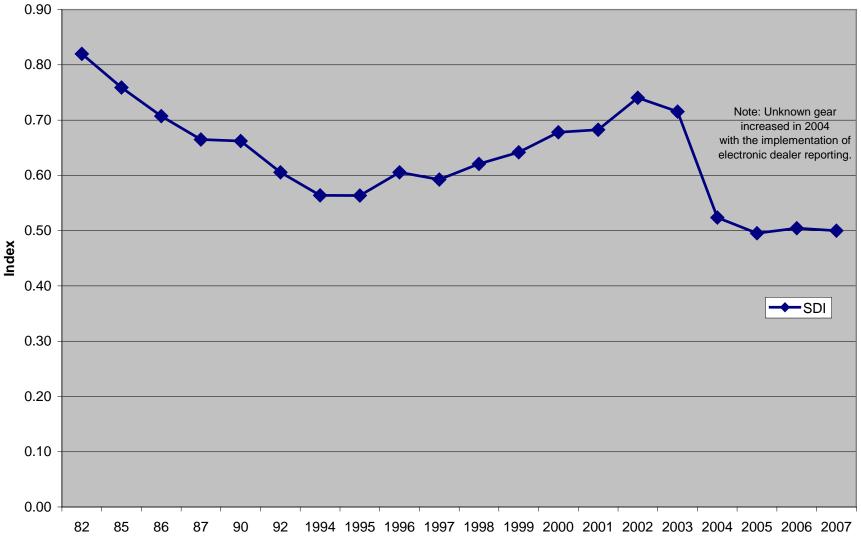


Year

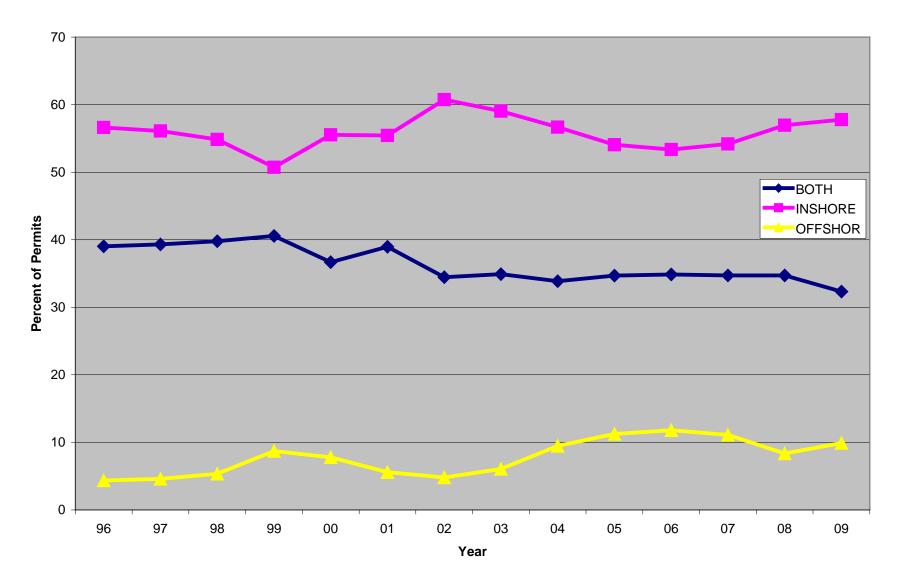
# Length Group

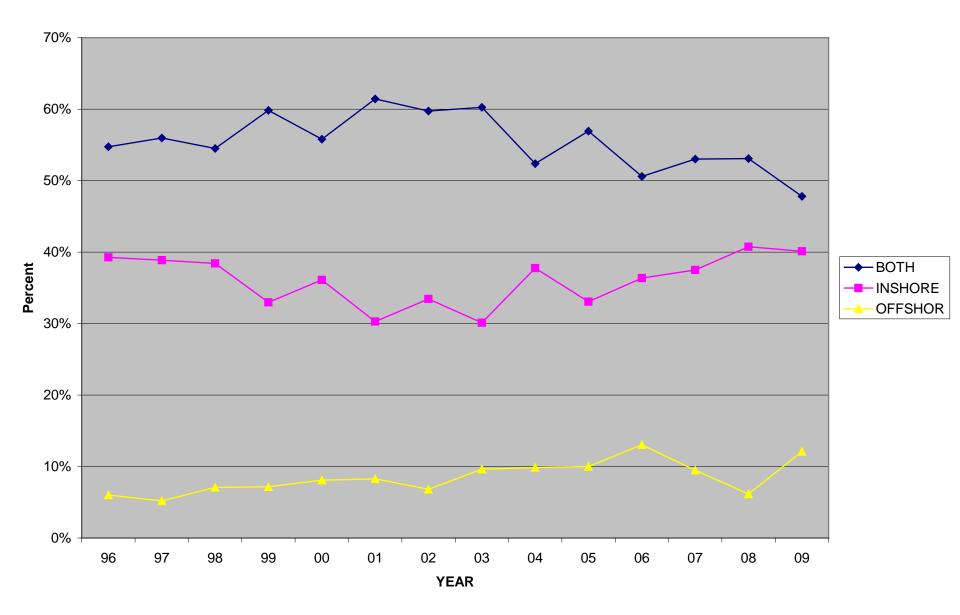


SDI by Gear (including "unknown" gear)

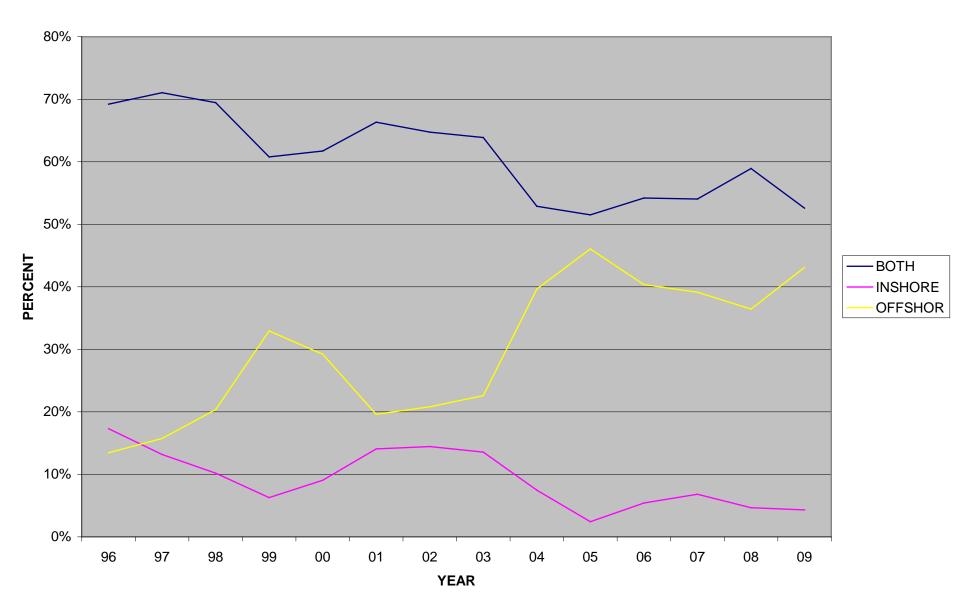


#### **All Permits**





#### 75 AND OVER



### **Baselines: Summary**

- Data exists to characterize how the distribution of groundfish landings has changed over time
- □ Still need to summarize ownership
- □ What else would the Council like to see?

#### Considerations for Accumulation Limits

- □ Two reasons for use to prevent market control or achieve management goals
- □ Three types of limits: by ownership, usage, or sector
- □ Ownership issues may be separate from "diversity"
- Different caps are appropriate for achieving different management goals
- □ Other tools to consider: community set-asides, owneronboard requirements, etc.

# Types of Accumulation Limits

#### □ Vessel Usage Limits

- Aimed at keeping a minimum number of vessels, maintaining some of character and geography of today's fleet.
- Questions on fleet consolidation would need to be addressed.

#### □ Control Limits

- Meant to ensure that no person captures an unreasonable share of a public resource.
- Buffer against anticompetitive effect of concentrated ownership.

#### □ Sector Limit

## Other Considerations: Species vs. Aggregate Limits

#### □ Species-specific

 Substitutes for a stock, regional distinctiveness, and underutilization would generally drive higher limits

#### □ Aggregate Limit

- Could counter effect of relatively high species-specific limits
- Assume entities divest their least valuable species first to stay under the aggregate limit
- Weighted formula automatic or changed by Council action?

### Other Considerations: Control Date

- Sets a date after which acquisition of permits will not count toward quota share holdings on date cap is set
- Puts industry on notice
- This motion failed at April Council: "to direct the Groundfish Committee to provide recommendations to the Council at its June meeting on establishing an accumulation limit control date."

Problem category	Management objective:	Appropriate measures may include:
Rationalization	Reduce excess capacity	Use allocation criteria, not accumulation limits
	Allow market to determine participation	Absence of accumulation caps
Diversity	Comply with NS 4	Vague; Any limits could be used
	Provide opportunity for entry	Control limits; New entrant set-aside
	Ensure geographic diversity of fleet	Control limits; Usage limits; Sector limits with area-based membership rules
	Protect rural communities	Community development set-asides
	Preserve historic access	Vague; Usage limits; Size-horsepower restrictions
	Protect shoreside infrastructure	Measures to promote geographic diversity; Processor/dealer quotas
Ownership	Ensure access to reasonable number of participants	Control limits; Owner-onboard requirements; Usage limits
	Prevent windfall to small number of individuals at expense of others	Sector limits; Control limits
	Prevent market control and price- fixing by small number of owners	N/A: not a concern in the multispecies fleet

#### Accumulation Limits in Other Fisheries

- Very difficult to gather data, especially on the development and objectives of accumulation limits
- □ Most catch share fisheries do have individual limits
- Wide range of limits in other fisheries, from none to 1% to 49%.
- Other tools are often used in conjunction with accumulation caps to limit control of quota

#### Conclusions / Next Steps

- MSA requires caps for LAPPs in the interest of fairness
- □ Fleet size and attribute goals should be considered when choosing type of cap
- Balance efficiency with appropriate amount of consolidation
- □ Different types of caps affect outcomes

#### Questions for Consideration:

1) Is any additional baseline information needed?

2) What types of analysis can be performed to inform the Council's consideration of accumulation limits?

# **QUESTIONS**?