Economic Data Collection for Monitoring the Effects of Trawl Rationalization

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Objectives

• Follow guidance in Council’s economic data collection provision
  – Study impacts of program
  – Determine whether goals and objectives are achieved
  – Data may be used to analyze future FMP amendments
• MSA reporting requirements to determine if program is attaining its goals
• Work closely with the Council, advisory panels, industry, participants and others to
  – Develop a valid and useful data collection program
  – Minimize burden
Current Groundfish Economic Data Collections

• Voluntary limited entry and open access surveys of harvesting vessels
  – Cost, earnings and employment data
  – 4 pages in length, 1 hour to respond
  – LE trawl fleet has 65% response rate
  – Data used for NWC’s IO-PAC model, and NWC’s (Lian et al.) analysis of rationalization

• Voluntary Processor Fishery Products Report
  – Products produced and employment data
  – 30 minutes to complete
  – 80-100% response rate
  – Used by NMFS headquarters for national reporting
Data Needed to Monitor Rationalization

• More data than currently collected
  • Catcher vessels: Some additional information
  • Shoreside processors, catcher/processors, and motherships: new surveys
  • Data at the fishery level where possible

• Need data for several years prior to rationalization

• Data for spillover effects collected through voluntary surveys of other fisheries
Types of Economic Analysis

• Economic performance measures
  – Cost, earnings and profitability
  – Economic efficiency
  – Net benefits to society

• Regional economic impact analysis
  – Contributions to regional economies: employment, income and output
  – Distributional effects
Proposed Program Design Process

- Feedback from March Council meeting
- Meetings with industry and associations
  - Feasibility and validity of collecting data elements
  - Survey logistics and administration
- Sound scientific practices
- Development of draft questionnaires and survey administration logistics
- Present June Council meeting
Other issues

• Burden of data collection on participants
  – Very important to minimize
  – Provide estimate in June

• Data confidentiality

• Mandatory regulations

• Central registry of quota share transaction prices

• Non-economic, social science data
Economic Performance Measures

- Cost, earnings and profitability
  (e.g., How do baseline economic measures change, do they vary by type of participant)
- Economic efficiency and stability
  (e.g., Cost per unit, product utilization, fleet consolidation)
- Capacity measures
  (e.g., # vessels/plants, changes in capacity, capacity utilization)
- Net benefits to society
  (e.g., Value created, changes in bycatch, environmental benefits)
- Distribution of net benefits
  (e.g., Crew, captains, vessels, processors, consumers)
- Product quality
  (e.g., Are there changes in the type or quality of fish products produced?)
- Functioning of quota market
  (e.g., Descriptive analysis, efficiency of market)
- Incentives to reduce bycatch
  (e.g., Changes in bycatch, effect of quota price, changes in target catch)
- Market power
  (e.g., Market power indexes, descriptive analysis)
- Spillover effects into other fisheries
  (e.g., Economic effects on other fleets, gear changes, market effects)
Regional Economic Impact Analysis

• Use the NWC IO-PAC model
  – Community effects
  – State level effects
  – West Coast effects

• Contribution to regional economies
  – Employment
  – Income
  – Output

• Distributional effects
  – Changes between regional economies
  – Changes across sectors or participants