

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