

A Model to Evaluate Economic Effects of Fishery Management Measures: How Would a Change in Total Allowable Catch for Monterey Groundfish Affect the Local.

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A Model to Evaluate Economic Fishery Management Measure Would a Change in Total Allow for Monterey Groundfish Affe Economy?

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Abstract

The research question addressed by this thesis is: if a Magnuson-Stevens Fishery Conservation and Management Act increase in Total Allowable Catch for a single species in groundfish fishery, what would be the direct and indirect economic effects in Monterey County, California? I used primary and secondary data to build an Input/Output table reflecting the Monterey County economy and calculated economic multipliers from this Input/Output table. I then estimated the likely increase in catch of relevant species (the species that co-occur with it) and used recent ex-vessel prices to estimate the economic effect. Various scenarios were explored: the benefits of the aggregation of industry sector data from federal government data and additional cases included a different aggregation of industry transaction data from the Pacific Fisheries Information System, the addition of survey data from fishermen and processors, and the direct and indirect effects of an increase in commercial catch, and the economic effect of an increase in Total Allowable Catch of bocaccio rockfish could result in economic benefits of \$250,000 to over \$1,000,000 per annum for the fishing industry in Monterey County. While this is a straightforward benefit, the costs of increasing bocaccio TAC would need to be quantified and evaluated for a thorough cost-benefit analysis.

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