



Exploited Fish Population dynamics

The resilience of a fish population to fishing is very much dependant on its biological features relating to growth, maturity, fecundity, natural mortality, life span etc.

<u>Stock Status</u>		
	Yellowfin	Bigeye
Reproductive mode	Serial spawners	Multiple spawners
Fecundity	2 million+	2 million+
Growth rate	45-50cm (1yr)	40cm (1yr), 80cm (2yr)
Age to maturity	2-3yr (100-110cm)	3yr+ (100-130cm)
Life span	7-8yr	12+
Recruitment to fishery	0.5-1yr(PS), ~2+yr(LL)	0.5-1yr(PS), 2+yr(LL)
	Albacore	Skipjack
Reproductive mode	?	Serial spawners
Fecundity	0.8-2.6 million	2 million+
Growth rate	40cm (1yr)	44-48cm (1yr), 61-68 (2yr)
Age to maturity	4-5yrs (80cm)	<1yr (44cm)
Life span	18+yr	~4yr
Recruitment to fishery	~2yr(troll), 5+(LL)	0.5-1yr(PS)

Overfishing

No overfishing

On The Dynamics Of Exploited Fish Populations

Steven John Gutreuter



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Proceedings of the Fourth Berkeley Symposium on Mathematical Statistics and Probability Jerzy Neyman, 1961 **Fish and Megainvertebrates Collected in the New York Bight Apex During the 12-mile Dumpsite Recovery Study, July 1986 - September 1989** , 1992 **Fishery Bulletin** , 2003 U.S. Environmental Protection Agency Library

System Book Catalog Holdings as of July 1973 United States. Environmental Protection Agency. Library Systems Branch, 1974

Ecological Modeling Clifford S. Russell, 2015-09-25 This volume originally published in 1975 grew out of Resources for the Future's involvement as a consultant to the Marine Ecosystem Analysis programme management within the National Oceanic and Atmospheric Agency Here researchers look at the state of the art in aquatic ecological modelling in a resource management context Although the aim of the research in this volume is specific the models used can be applied in broader contexts and provide conceptual frameworks for regional residuals environmental quality management and other ecological modelling This title is suitable for students interested in Environmental Studies

Bioeconomics of Fisheries Management Lee G. Anderson, Juan Carlos Seijo, 2011-11-18 Fisheries Economics has always been an interdisciplinary field of study with economic analysis based on stock population dynamics but many published works have focused mainly on theoretical economic issues without much focus on biological details For the most part age structured models have been ignored Bioeconomics of Fisheries Management is a valuable reference text that presents the economic aspects of fisheries management in a broad bioeconomic framework The book is broken into two parts Part I covers the traditional areas of fisheries economics covering topics such as open access optimal and managed fisheries utilization that is analyzed through a traditional one stock one fleet model It also presents the basic results in terms of an age structured model Part II covers material related to more recent work on bioeconomic models when more rigorous biological components became more prevalent and views fisheries management with an ecosystems based approach Accompanying the book is a user friendly CD with exercises and examples that aids the reader in applying theoretical principles of population dynamics and fisheries management and regulation Bioeconomics of Fisheries Management will be a valuable text for researchers fisheries economists professionals and students alike

Stock Assessment Vincent F. Gallucci, Saul B. Saila, Daniel J. Gustafson, Brian J. Rothschild, 1995-10-25 Stock Assessment Quantitative Methods and Applications for Small Scale Fisheries is a book about stock assessment as it is practiced It focuses on applications for small scale or artisanal fisheries in developing countries however it is not limited in applicability to tropical waters and should also be considered a resource for students of temperate fishery management problems It incorporates a careful sample design various mathematical models as a basis for predicting consequences for stock exploitation and discusses the impact of exploitation on non targeted species This was a unique concept involving a collaborative effort between U S and host country scientists to address issues of regional and global concern through innovative research Unlike other books on stock assessment that show mathematical models this is the only book of its kind that discusses how an assessment is carried out It looks at the field as a whole and includes sampling age determination and acoustics The book represents the culmination of a nine year program financed by the United States Agency for International Development to provide new or improved methods of stock assessment for artisanal fisheries

Software for bio-economic analysis of fisheries, BEAM 4 Per Sparre, R. Willmann, 1993 Includes indexes *Soviet*

Ichthyological Research ,1965

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