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## Status of Knowledge for Virginia Fisheries

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STATUS OF KNOWLEDGE FOR VIRGINIA FISHERIES

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The National Marine Fisheries Service, in 1970, prepared a Program Development Plan for the Marine Monitoring, Assessment, and Prediction Program (MARMAP). This planning document included a matrix of fisheries species and status of knowledge necessary for the development of a Fisheries Management Plan. The Division of Fisheries Science and Services, now the Department of Fisheries, at the Virginia Institute of Marine Science/School of Marine Science developed a similar matrix in 1978 for Virginia's fisheries.

This matrix has served to guide graduate students searching for a thesis or dissertation topic, and to faculty and staff looking for "open" areas of research.

The following matrices for fin, crustacean, and shell fisheries were updated in August-September, 1985, and represent the current status of knowledge for Virginia fisheries.

Several students, staff, and faculty at VIMS assisted with the re- compilation. These include: William DuPaul, Jon Lucy, Roger Mann, Mike Castagna, Jane DiCosimo, Tom Monroe, Mark Chittenden, Dexter Haven, Willard VanEngel, Jack Musick, Brenda Norcross, James Colvocoresses, William Kriete, Joe Loesch, and others. If you feel there are additional boxes to fill please contact me at (804) 642-7321.





# STATUS OF KNOWLEDGE FOR VIRGINIA SHELL FISHERIES

	Acceptable Information Available for Management Plan Development	Preliminary Analysis Refinement Necessary	Data Available-No Analysis	No Data
Oysters				
Mahogany Clam				
Hard Clam				
Surf Clam				
Ocean Scallops				
Rangia Clam				
<u>Soft Clam</u>				
Conchs (Wells)				
Bay Scallops				
Stout Razor Clam				
Razor Clam				
Review Literature				
Stock Identification				
Growth Curves				
Reproduction (Fecundity)				
Life Stages Described				
Experimental Tolerances by Life Stages				
Tropic Dynamics of Life Stages				
Catch Sampling Program-Commercial				
Catch Sampling Program-Recreational				
Analysis of Effort				
C/E Data Assembly (Process & Storage)				
Commercial C/E Analysis				
Short C/E Analysis				
Length-Frequency Analysis of Catch				
Length-Frequency Analysis of Population				
Age-Frequency Evaluation of Catch				
Age-Frequency Evaluation of Population				
Mortality Rates				
Gear Selectivity Studies				
Industry mortalities, fish kills				
Population Size and Abundance				
Distribution and Density of Life Stages by Area and Habitat Type				
Distribution and Density of Life Stages by Environmental Variables				
General Production Model				
Production Model from Survey Estimates				
Yield/Recruit Model				
Catch Equation Production Model				
Virtual Population Analysis				
Prediction Model				
Virginia Fishery Management Plan				
ASMFC Fishery Management Plan				
MAFM Council Fishery Management Plan				