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Woods Hole Sea Grant: Aquaculture -- General

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Exploring Suitable Eelgrass Habitat on Cape Cod, Massachusetts
Murphy, D. and Reitsma, J.
Report prepared for the Nature Conservancy, 45pp.
Eelgrass test transplants were performed to evaluate potential sites for full-scale eelgrass restoration on Cape Cod. From a set of 12 potential sites, three (Phinney's Harbor in Bourne, Nauset Inlet in Orleans and Cape Cod Bay in Truro) were selected. Survival varied over time between sites and overall success was limited in all three test plots.

Assessment of Shellfish Survival and Growth at Cape Cod Aquaculture Sites
Walton, B. and D. Murphy
Report Prepared for the Southeastern Massachusetts Aquaculture Center, 25 pp., 2003 WHOI-S-03-001

Aquaculture Curricula Resource Guide: A Resource Tool for the Aquaculture Educator
Available on loan from the National Sea Grant Library or online: http://www.state.ma.us/dfa/aquaculture/education.htm (look for "Curricula Guide")
Soares, S.J., J.K. Buttner, and D.F. Leavitt
NRAC Publication No. 01-001, 54 pp., 2001 WHOI-E-01-003

Control of Predators on Cultured Shellfish: Exclusion Strategies
Leavitt, D.F. and W.P. Burt
NRAC Publication No. 00-007, 4 pp., 2000 WHOI-G-00-008

Theme Booklet: Fisheries and Aquaculture
WHOI Sea Grant
4 pp., 2000 WHOI-G-00-004
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Aquaculture is Growing in Southeastern Massachusetts
Please order poster from: Cape Cod Cooperative Extension, P.O. Box 367, Barnstable, MA 02632.
Leavitt, D.F. and W. Burt
19" x 25" Poster, $5.00, 1998 WHOI-G-98-003

Molecular Analysis of a RAPD Marker (B20) Reveals Two Microsatellites and Differential mRNA Expression in *Penaeus vannamei*
Garcia, D.K., A.K. Dhar, and A. Alcivar-Warren
Molecular Marine Biology and Biotechnology, Vol. 5, No. 1, pp. 71-83, 1996 WHOI-R-96-001

Planning and Policy for Coastal Aquaculture Development
Only available on loan from the National Sea Grant Library
Peterson, S.
In: Proceedings of the International Symposium on Utilization of Coastal Ecosystems: Planning, Pollution and Productivity 21-27 Nov. 1982, Rio Grande, Brazil, Vol. 1, pp. 301-312, 1985 WHOI-R-85-015
Successful aquaculture development in coastal areas depends upon wise planning and a careful balance of resources, institutions, regulations, and policies. This paper reviews aquaculture development, describes constraints on coastal aquaculture development, focusing on pollution, land use problems, and institutions needed to support aquaculture development, and describes government planning and policies important to successful aquaculture development. Determining the feasibility of aquaculture development demands that certain types of information about the natural, social, and economic setting be made available to federal and/or regional government representatives. Ideally, the setting in which aquaculture can flourish is the result of government policies which reflect national interests interpreted appropriately for each region of the country. The paper concludes that aquaculture in coastal areas has certain risks associated with it which can be reduced by a careful balance of resources management, education, research, institutional development, and regulations.

Allocation of Aquaculture Resources
Only available on loan from the National Sea Grant Library
Peterson, S.
In: Smith, L.J. and S. Peterson (eds.), Aquaculture Development in Less Developed Countries: Social Economic and Political Problems, pp. 21-29, 1982 WHOI-R-82-020
The production of food by aquaculture involves many dubious assumptions about man and nature. Descriptions of aquaculture systems abound: almost without exception, they bear on the technological aspects of development and ignore discussion of feasibility of development. Between the two questions of "Can it be done?" and "Should it be done?"--the first technical and the second political--lies a series of questions about methods used to choose and establish an aquaculture system. These intermediate questions have seldom been

asked, although they have been approached from a number of directions. Lawson (1974) has used cost/benefit analysis on aquaculture systems, Alexander (1975) has done social impact studies on improved fishing technology, and Kloke and Potaras (1975) have looked at aquaculture as it integrates with other forms of resource exploitation. Peterson and Smith (1979) raise two issues which fall into this middle ground. The first issue, and perhaps most controversial, is wetland valuation (Burbridge 1978). Successful aquaculture development in areas formerly considered of little or no value, such as swamp or marsh, can cause the land to accrue value rapidly. For areas where title or ownership were uncertain before development, a second set of problems is provoked: argument, feud, and litigation. Since many of the world's wetlands are common property, transfer of land from public ownership to private holdings by a family or cooperative may demand changes in land use policy in both developing and developed countries. The purpose of this paper is to address another of those intermediate questions„ the question of allocation. The allocation question involves distribution of the products of aquaculture systems and the technology needed to establish them.

Elements in Evaluating Success and Failure in Aquaculture Projects
Only available on loan from the National Sea Grant Library
Pollnac, R.B., S. Peterson, and L.J. Smith
In: Smith, L.J. and S. Peterson (eds.), Aquaculture Development in Less Developed Countries: Social Economic and Political Problems, pp. 131-143, 1982 WHOI-R-82-019
During the decade since 1970, several hundred aquaculture projects have been developed with agency, foundation, government, or private industry funding. This paper uses examples from projects in Latin America and Africa to describe general requirements of aquaculture development, decision points in a development project, and evaluations of success and failure by the personnel from funding agencies.

Aquaculture Development in Less Developed Countries: Social, Economic, and Political Problems
Only available on loan from the National Sea Grant Depository
Smith, L.J. and S. Peterson
1982 WHOI-B-82-001

The Effects of Diet on the Growth Energetics of Postlarval Lobsters *(Homarus americanus)*
Only available on loan from the National Sea Grant Library
Capuzzo, J.M. and B.A. Lancaster
1979 WHOI-T-79-009

The Effects of Dietary Carbohydrate Levels on Protein Utilization in the American Lobster *(Homarus americanus)*
Only available on loan from the National Sea Grant Library
Capuzzo, J.M. and B.A. Lancaster
1979 WHOI-R-79-019

Experimental Lobster Ranching in Massachusetts
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Exotic Species in Aquaculture
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1979 WHOI-G-79-001

Exotic Species in Mariculture
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Mann, R.
1979 WHOI-B-79-001

Factors Limiting the Development of Aquaculture: A Japanese Experience
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Aquaculture Development in Rural Atomistic Societies
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Aquaculture Policies in Latin America
Only available on loan from the National Sea Grant Library
Palacio, F.J.
1979 WHOI-R-79-022

Potential Yields from a Waste-recycling Algal Mariculture System
Deboer, J.A. and J.H. Ryther
1978 WHOI-R-78-005

Marine Shrimp Farming in the Western Hemisphere
Only available on loan from the National Sea Grant Library
Hanson, J.A., J.E. Huguenin, S.S. Hugeunin, and H.L. Goodwin
1978 WHOI-T-77-009

Impacts of Large Scale Aquatic Biomass Systems
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1978 WHOI-T-78-001

Some Aspects of the Growth and Yield of Gracilaria tikvahiae in Culture
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LaPointe, B.E. and J.H. Ryther
1978 WHOI-R-78-014

Implications of the Japanese Experience in Aquaculture Development for Thirty-three Food-short Countries
Matsuda, Y.
1978 WHOI-R-78-012

The Growth of Aquaculture in Developing Countries: Potentials, Patterns and Pitfalls
Only available on loan from the National Sea Grant Library
Matsuda, Y.
1978 WHOI-R-78-010

Preliminary Results with a Pilot-plant Waste Recycling Marine Aquaculture System
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Ryther, J.H.
1977 WHOI-R-77-003

Heat Exchangers for Use in the Culturing of Marine Organisms
Only available on loan from the National Sea Grant Library
Huguenin, J.E.
1976 WHOI-R-76-003

The Mass Outdoor Culture of Macroscopic Marine Algae
Only available on loan from the National Sea Grant Library
LaPointe, B.E., L.D. Williams, J.C. Goldman, and J.H. Ryther
1976 WHOI-R-76-005

Marine Polyculture Based on Natural Food Chains and Recycled Wastes
Only available on loan from the National Sea Grant Library
Ryther, J.H.
1976 WHOI-T-76-005

Preliminary Results With a Pilot Plant Waste Recycling Marine Aquaculture System
Only available on loan from the National Sea Grant Library
Ryther, J.H.
1975 WHOI-T-75-001

Microbes as Food in Mariculture
Only available on loan from the National Sea Grant Library
Ryther, J.H. and J.C. Goldman
1975 WHOI-R-75-002

Physical Models of Integrated Waste Recycling Marine Polyculture Systems
Only available on loan from the National Sea Grant Library
Ryther, J.H., J.C. Goldman, C.E. Gifford, J.E. Huguenin, A.S. Wing, J.P. Clarner, L.D. Williams, and B.E. LaPointe
1975 WHOI-R-75-006

The Economics of Waste Water Aquaculture Systems
Only available on loan from the National Sea Grant Library
Smith, L.J. and J.E. Huguenin
1975 WHOI-R-75-001

Experiences With a Marine Aquaculture Tertiary Sewage Treatment Complex
Only available on loan from the National Sea Grant Library
Huguenin, J.E. and J.H. Ryther
1974 WHOI-R-74-004

Social, Political, Regulatory and Marketing Problems of Marine Waste Food Recycling Systems
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Huguenin, J.E. and J.T. Kildow
1974 WHOI-R-74-003

A New Method for Culturing Chironomus tentans Fabricius Larvae Using Burlap Substrate in Fertilized Pools
Only available on loan from the National Sea Grant Library
McLarney, W.O., S. Henderson, and M.M. Sherman
1974 WHOI-R-74-002

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