

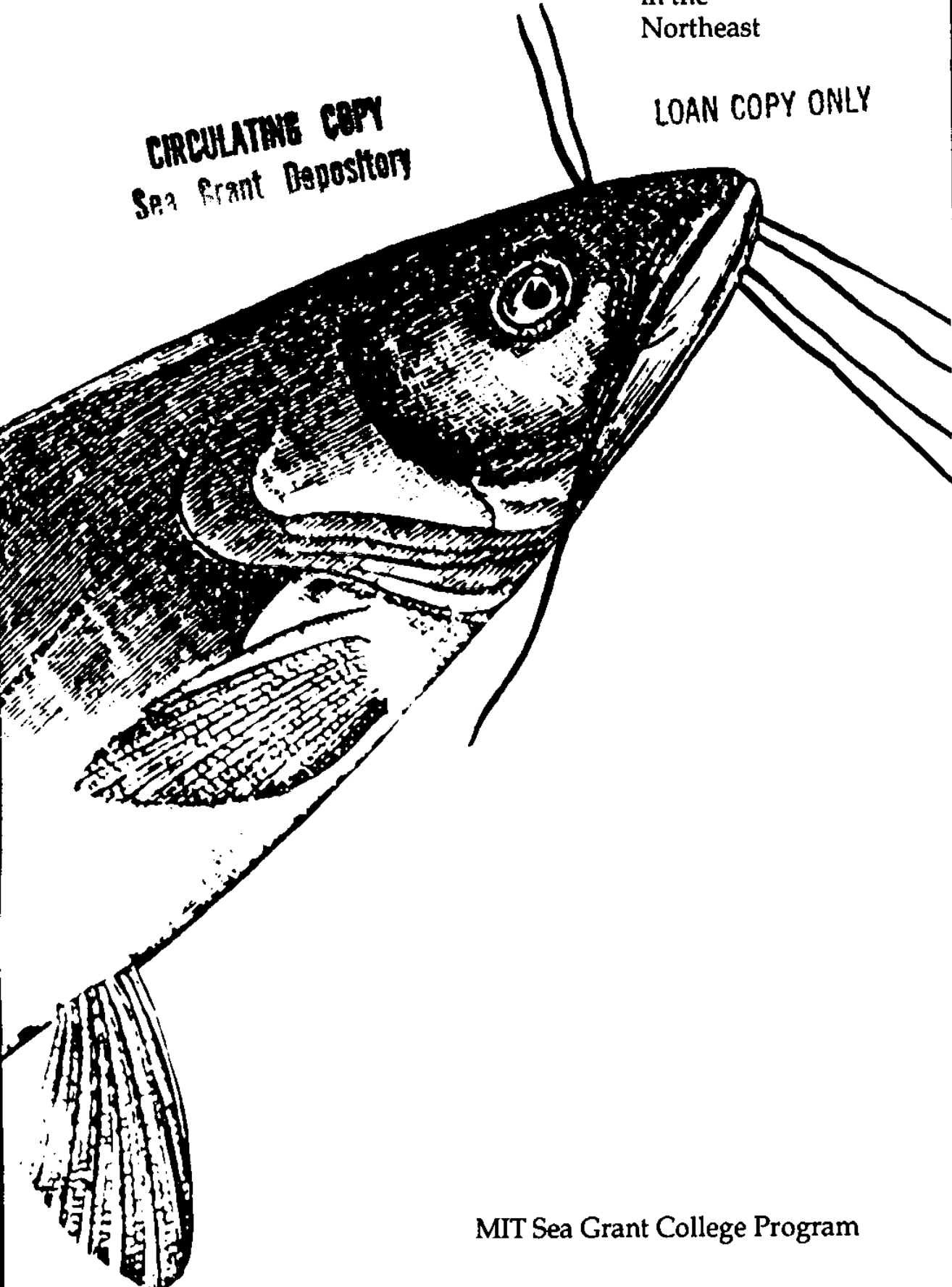
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directory of **Aquaculture**

.....
in the
Northeast

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MIT Sea Grant College Program

MITSG 91-17

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Introduction

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Aquaculture activities in New England have grown rapidly over the past five years, so much so that it has become difficult to keep track of the burgeoning numbers of practitioners and researchers entering the field. To remedy this difficulty, Nica Bell, a graduate student in the Department of Mass Communication at Boston University's College of Communication, surveyed individuals and organizations active in aquaculture in New England. The MIT Sea Grant College Program assembled this Directory of Aquaculture in the Northeast.

Programs and individuals are entered under one of four headings: Research and Education, Producers, Consulting Services and Equipment Suppliers. Please note that researchers may also be consultants, producers may be educators and equipment suppliers may do research, so if you do not find the program you need under one heading, please look further.

The information presented in this directory was extracted from more extensive questionnaires. More detailed information about programs and individuals profiled may be obtained by writing:

Nica Bell, Communication Planning
P.O. Box 731
Kendall Square
Cambridge, MA 02142
(617) 864-8372

The Northeastern Regional Aquaculture Center, headquartered at Southeastern Massachusetts University, has agreed to accept suggestions and entries for possible future editions. If you are interested in encouraging future editions, address letters to:

Dr. Henry S. Parker
Northeastern Regional Aquaculture Center
Southeastern Massachusetts University
North Dartmouth, MA 02747

Special thanks are due to many colleagues who assisted in data capture and processing, editing and publication. These include ReRe Quinn, Tekla McInerney, Carolyn Levi and Karen Hartley.

Norman Doelling
14 June 1991

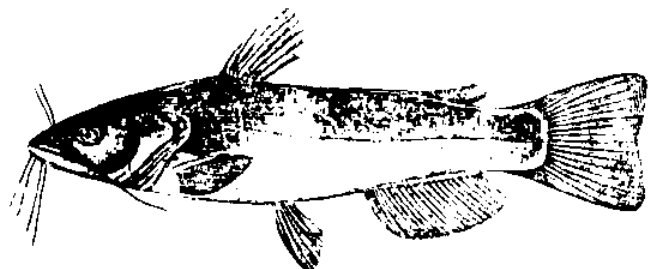


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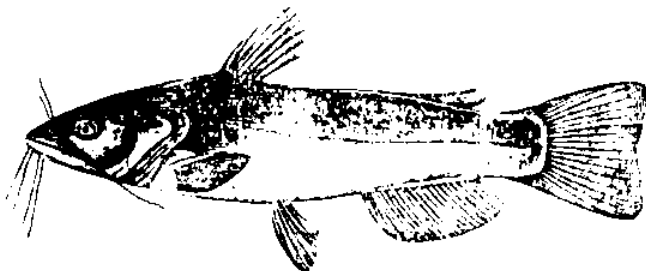
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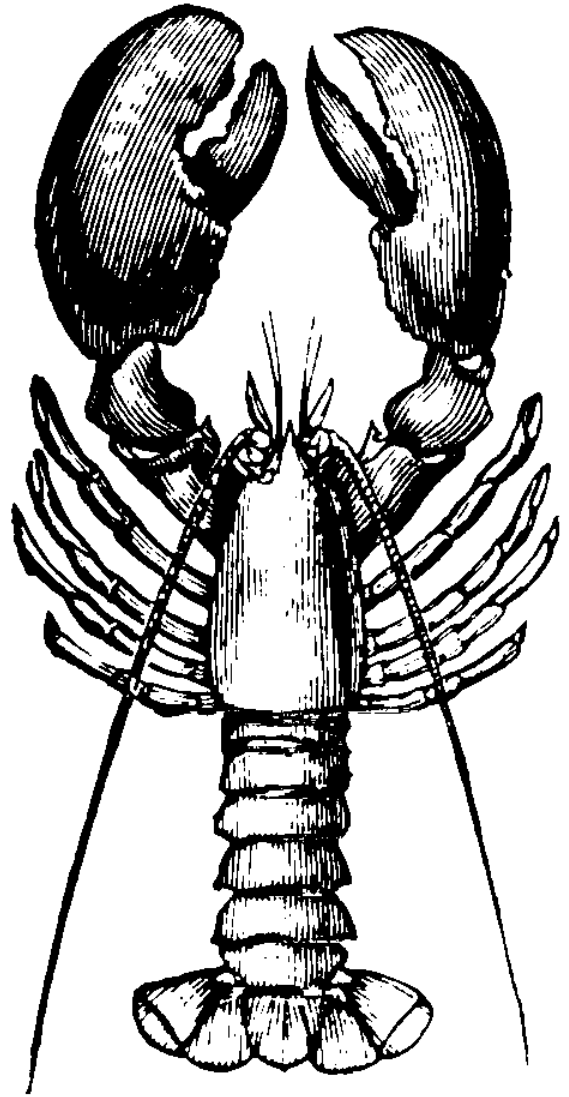
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Richard Schreiner
Long Island Sound Task Force
185 Magee Avenue
Stamford, CT 06902
203-327-9786

Objectives: Education and policy to protect and preserve Long Island Sound and the ocean environment, educational, environmental conservation/ protection, information collection/ dissemination

Major Focus: Products, education - newsletters

Products: Educational, newsletter

Services: Educational, newsletter, regional information service, library

Christopher Percy, President
The Sounds Conservancy, Inc.
43 Main Street, Box 266
Essex, CT 06426
203-767-1933

Objectives: Conservation and restoration of coastal resources: environmental conservation, educational, promoting aquaculture, information collection/ dissemination, student research grants

Major Focus: Coastal cove and embayments restoration

Products: Publications

Services: Newsletter - *The Special Report*

Specializations: Marine region of southern New England, coastal ecosystems

Species: Shell and finfish

Norman Bender
University of Connecticut
Sea Grant Marine Advisory Program
1084 Shennecossett Road
Groton, CT 06340-6097
203-445-8664

Objectives: Marine advisory program - education and outreach covering marine resources, educational, information collection/ dissemination

Major Focus: Education - publications, workshops, individual advising, presentations

Services: Educational, newsletter

Specializations: Fisheries, aquaculture, coast development, environmental quality, resource economics, economics/ feasibility studies, salt water

Research and Education

.....

Cameron Faustman
University of Connecticut
Department of Animal Science
Box U-40
Storrs, CT 06269-4040
203-486-2542

Objectives: Research and education at undergraduate and graduate levels
Major Focus: Research, education
Products: Education
Services: Consultation/educational
Specializations: Muscle foods - lipid and pigment oxidation interactions
Species: Livestock, poultry, fish

Sung Y. Feng
University of Connecticut
Marine Sciences Institute
Groton, CT 06340

Objectives: Consulting, educational, environmental conservation/protection, information collection/dissemination, research—shellfish diseases
Major Focus: Services, research, education
Products: Educational
Services: Consultation, educational, evaluation
Specializations: Coastal ecosystems, shellfish diseases
Species: Oysters, mussels, hard clams

Hans Laufer
University of Connecticut
Department of Molecular and Cell Biology, U-125
74 North Eagerville Road
Storrs, CT 06268
203-486-4117/203-486-4116

Objectives: To understand the crustacean reproductive cycle
Major Focus: Research, education
Products: Educational
Services: Consultation, educational
Specializations: Endocrinology, cell biology, chemicals
Species: Crabs, shrimp, lobster, crayfish

Ed Coleman

Angelica Research Facility for Aquaculture

99 Main Street

Fairhaven, MA 02719

508-997-4120

Objectives: Spawn and grow shellfish on rafting systems, shellfish clean (depuret), consult, develop projects, develop new industry, education, environmental conservation, food production, manufacture, pollution, wastewater

Major Focus: Research

Products: Construction, cage and open sea cultivation, rafting system, education, evaluation/testing, on site training

Services: Systems engineering/design

Specializations: Shellfish, coastal ecosystems, economics/feasibility studies, feed, field research

Species: Quahogs

Joseph Forns, Director

Applied Marine Ecology Lab

25 Greengate Road

Falmouth, MA 02540

508-540-4544/693-5094

Objectives: Consulting, pollution control/cleanup, research, compliance and testing

Major Focus: Research, products, services

Products: Construction materials, systems engineering/design

Services: Consultation, systems engineering/design, testing, permits and licenses

Specializations: Coastal ecosystems, economics/feasibility studies, field research, equipment

Robert D. Anderson, Senior Marine Fisheries Biologist

Boston Edison Co.

25 Braintree Hill Office Park

Braintree, MA 02184

508-849-8935

Objectives: Energy production

Major Focus: Research

Products: Marine ecology monitoring data

Services: Environmental impact assessment

Specializations: Coastal ecosystems, salt water fish

Species: Various marine biota in Cape Cod Bay

Research and Education

.....

Boston University

Marine Biology Lab
Woods Hole, MA 02543
508-548-3705, EXT. 499

Objectives: Educational, research - ecological, neurobiological

Major Focus: Research, education

Specializations: Coastal ecosystems, neurobiology

Species: Marine invertebrates

Brenda J. Boleyn

Cape Cod Community College

Dept. of Natural Sciences
West Barnstable, MA 02668
508-362-2131

Objectives: Educational

Major Focus: Education

Services: Educational

Donald A. Abt

Lab for Marine Animal Health

Marine Biological Lab
Woods Hole, MA 02540
508-548-3705 x513

Objectives: Diagnosis, research and education in marine animal disease studies, consulting, development projects, environment conservation/protection, food production, information collection/dissemination

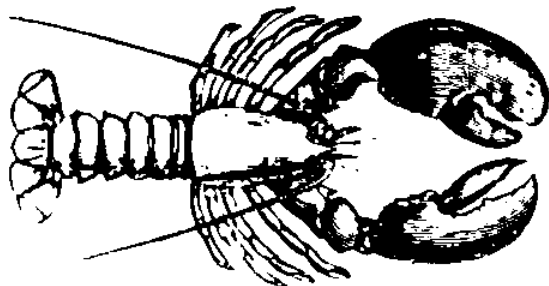
Major Focus: Services, research, education, diagnosis

Products: Educational, on-site job training

Services: Consultation; educational; on-site job training

Specializations: Diseases and health of marine animals, fish diseases, freshwater

Species: Marine fish and invertebrates



Gary Glenn

Massachusetts Centers of Excellence Corp.

9 Park Street

Boston, MA 02108

617-727-7430

Objectives: Promote economic growth and marine sector of Massachusetts, develop projects, environmental conservation, development of new industry, education, financing aquaculture programs, promote aquaculture, water, potable resource development

Major Focus: Research, educational, financial support

Specializations: Economic development and commercialization of aquaculture, exports, field research, economics/feasibility studies

Mark S. Tisa, Assistant Director

Massachusetts Division of Fisheries and Wildlife

Field Headquarters

Westboro, MA 01581

508-792-7270

Objectives: Conserve, restore and manage inland fisheries and wildlife resources and conserve habitats composing the ecosystems in which these resources are, or were found, for Massachusetts residents' interests

Major Focus: Fisheries and wildlife management and research, non-game and endangered species, public information and education

Products: Fisheries and wildlife management, habitat protection, public information

Services: Technical assistance

Specializations: Fisheries (inland) and wildlife resources

Species: Freshwater and anadromous fishes, wildlife

Phillips D. Brady

Massachusetts Division of Marine Fisheries

18 Heritage Professional Building, Route 6A

Sandwich, MA 02563

508-888-1155

Objectives: Resource management, water quality testing, development project, educational, environmental conservation/protection, information collection/dissemination, shellfish research

Major Focus: Services - technical assistance to state project; research - product/organism studies

Products: Newsletter - survey reports information

Services: Consultation, educational, evaluation/testing

Specializations: Recreational and commercial shellfishing, coastal ecosystems, field research

Species: Marine

Research and Education

.....

John J. Callahan, Director
Massachusetts Maritime Academy
Marine Fisheries Education and Training
Buzzards Bay, MA 02532
508-759-5761

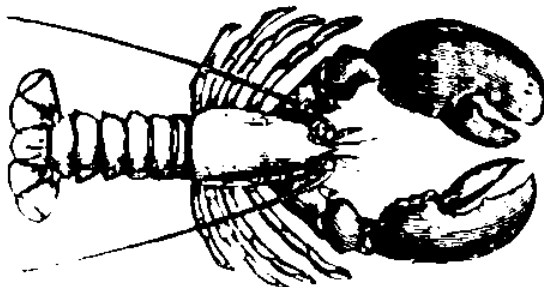
Objectives: Educational, information collection/dissemination
Major Focus: Education
Services: Educational

Karl Rask
Massachusetts Aquaculture Association
P.O. Box 154
West Yarmouth, MA 02673
508-362-2511

Objectives: Promote development of aquaculture, technology transfer to growers, continued viability of industry
Major Focus: Research, education
Products: Shellfish, finfish
Specializations: Coastal ecosystems, shellfish, freshwater fish, aquaculture, coastal erosion, wetlands

Norman Doelling
Massachusetts Institute of Technology
Sea Grant College Program
292 Main Street/Bldg. E38-300
Cambridge, MA 02139
617-253-7042

Objectives: Marine education, research and advisory programs
Major Focus: Research, communications, education, technology transfer, fisheries gear testing and development, community liaison
Services: Newsletter, lecture series, net pen testing, information service, library
Specializations: New technology



New England Fisheries Development Association

280 Northern Avenue
Boston, MA 02210-2087
617-542-8890 FAX: 617-426-1058

Objectives: Development of new industry, information collection, promoting aquaculture - public relations, trade, national and international

Major Focus: Services, research

Products: Newsletter, publications

Services: Consultation, educational, newsletter

Specializations: Economics/feasibility studies, exports, salt water fish

Species: Salmon, tilapia, clams, oysters, pelagics

Henry E. Boone

Silvio O. Conte Anadromous Fish Research Center

1 Migratory Way
Turners Falls, MA 01376

Objectives: Research on anadromous fish, environmental conservation, fisheries

Major Focus: Articles, extension presentations, presentations at scientific meetings

Products: Research and technology

Services: Consultation, educational, training, research

Specializations: Anadromous fisheries, field research, fish behavior

Species: Atlantic salmon, sturgeon, trout, river herring, American shad, sea lamprey, striped bass

Ronald Campbell

Southeastern Massachusetts University

Department of Biology
North Dartmouth, MA 02174
508-999-8216

Objectives: Research - diseases

Major Focus: Research, education - parasite identification diagnosis of disease

Services: Consultation, educational

Specializations: Fish protozoan and helminth diseases

Research and Education

.....

Henry S. Parker, Executive Director
Southeastern Massachusetts University
Northeastern Regional Aquaculture Center
North Dartmouth, MA 02747
508-999-8157 FAX: 508-999-8590

Objectives: Development of new industry, funding applies regional aquaculture research; promotion/public relations/media relations for aquaculture industry, aquaculture education

Major Focus: Research, industry development, education

Services: Funding for applied regional research; information

Specializations: Any of the below can be considered for support

Species: Aquatic finfish, shellfish, plants

Charles F. Millen Jr.
Town of Barnstable
Natural Resources Department
1189 Phinney's Lane
Centerville, MA 02632
508-790-6272

Objectives: Educational, environmental, habitat protection, water quality preservation, natural shellfish stock enhancement

Major Focus: Grow out, quahog, oyster and scallop seed, contaminated shellfish relay for natural depuration

Products: Municipal shellfish management

Services: Municipal shellfish management

Specializations: Management of natural shellfish environment and enhancement of natural stocks, habitat protection, field research

Species: Quahog, soft-shell clam, oysters, blue mussel, bay scallop

Stuart Moore
Town of Chatham
Principally Shellfish Constable
549 Main Street
Chatham, MA 02633
508-945-2331

Objectives: Upgrade shellfisheries - consulting, development, educational, environmental protection, pollution control, etc.

Major Focus: Products, research, education services

Products: Grow-out 3 million to 5 million seed quahogs annually from 3mm to 15-20mm for transplant

Services: Consultation, cage cultivation, educational

Specializations: Field research

Species: Quahogs (*Mercenaria mercenaria*)

Sandra L. Macfarlane
Town of Orleans
School Road
Orleans, MA 02653
508-255-0900

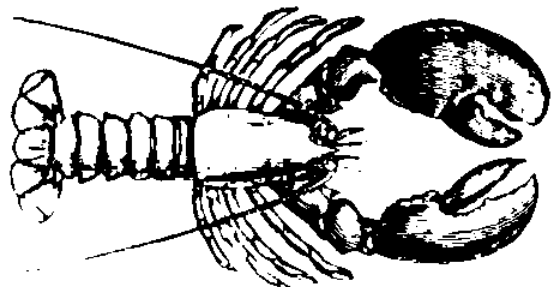
Objectives: Resource conservation, water quality protection
Major Focus: Products, services, research, education-municipal seeding program
Products: Educational
Services: Educational
Specializations: Municipal shellfish management, coastal ecosystems, field research

Morris Johnson
Town of Yarmouth
Department of Natural Resources
597 Forest Road
South Yarmouth, MA 02664
508-394-3508

Objectives: Dissemination of information, education, training to Massachusetts shellfish officers and biologists, environmental conservation
Major Focus: Research, education
Services: Cage and open sea cultivation, educational
Specializations: Coastal ecosystems, field research

Martin Downgert
U.S. Food and Drug Administration
1 Montvale Avenue 4th Floor
Stoneham, MA 02180
617-279-1474

Objectives: Government - public health
Major Focus: Bivalve shellfish sanitation and marine biotoxins



Research and Education

.....

Robert C. Biagi

University of Massachusetts

Cooperative Extension, Office of Marine Resources
22 West Experiment Station
Amherst, MA 01003
413-545-5915

Objectives: Consulting, development of new industry, educational, food production, information research - engineering and biology

Major Focus: Research, education

Services: Consultation, educational, on-site job training

Specializations: Economics/feasibility studies, field research, fresh and salt water fish

Species: Tilapia, trout, hybrid striped bass

Ronald P. Athanas

University of Massachusetts

Marine Station
P.O. Box 7128 Lanesville
Gloucester, MA 01930
508-281-1930

Objectives: Public service, development, food production, pollution control, research, wastewater treatment, fish by-product development

Major Focus: Research, educational, industry transfer

Products: Educational, evaluation, research trials, animal feed, aquaculture feeds

Services: Educational, evaluation, industry transfer

Specializations: Economic/feasibility studies, salt water fish, by-product utilization

John Rosenau

University of Massachusetts

Department of Food Engineering
Agriculture Engineering Building
Amherst, MA 01003
413-545-2367

Objectives: Teaching, research and outreach in food process engineering, research into low-cost oxygenation and into intensive recirculation systems

Major Focus: Research, education

Products: Information and contract research

Services: Consultation, educational

Specializations: Oxygenation methods, depuration methods, hydraulic cultivation, equipment

Gerard Flory
Wareham High School
Student Aquaculture Society
Marion Road
Wareham, MA 02571
508-295-0397

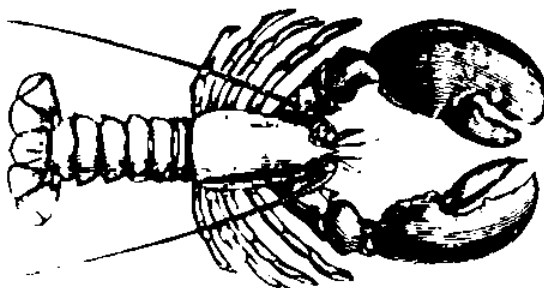
Objectives: Educational
Major Focus: Research, educational
Products: Educational
Services: Educational
Species: Oysters, clams (hard and soft-shell)

Greg Anderson
Bates College
Department of Biology
Lewiston, ME 04240
207-786-6110

Objectives: Educational
Major Focus: Services, education
Services: Educational
Specializations: Molluscan aquaculture, coastal ecosystems, field research, scanning electron microscopy
Species: Bivalves

Chris Peterson
College of the Atlantic
105 Eden Street
Bar Harbor, ME 04609
207-288-5015

Objectives: Marine education and research



Research and Education

.....

Stuart W. Sherburne

Maine Department of Marine Resources

McKown Point Fisheries, Research Station

West Boothbay, ME 04575

207-633-5572

Objectives: Information collection/dissemination, research - fish and shellfish diseases, histology, hematology

Major Focus: Services, research - consultation, evaluation, training

Services: Marine fish and shellfish diseases, fish hematology, normal and abnormal cell morphology

Specializations: Import and export certificates - field research, fish diseases (salt water fish), shellfish diseases

Species: Bass, eel, perch, pumpkinseed, Atlantic herring and cod, alewives, rainbow smelt, sea lamprey, American and European oysters, soft-shell clam, quahog, blue mussel, American lobster, sea scallop, dogfish, others.

University of Maine

BioResource Engineering Department

Orono, ME 04469

207-581-2715

Objectives: Research and development - consulting, education, information collection/dissemination, research - engineering

Major Focus: Research, education

Services: Consultation, educational, systems engineering/design

Specializations: Development of equipment and systems for aquaculture - prototype equipment fabrication

Species: Shellfish and finfish

University of Maine

Darling Marine Center

Walpole, ME 04573

207-563-3146

Objectives: Research, education, public service, aquaculture promo/PR/ media relations, development of new industry, food production, information collection/dissemination

Major Focus: Research - marine related genetics, education - aquaculture extension

Services: Educational

Specializations: Genetics, field research

Robert Bayer

University of Maine

Department of Animal and Veterinary Science

Hitchner Hall

Orono, ME 04467

Objectives: Fisheries and aquaculture research and education - consulting, project development, development of industry, food production research

Major Focus: Services, research, education

Products: Educational, evaluation, newsletter

Services: Consultation, educational, evaluation

Specializations: Bait, feed, field research, fish behavior, fish diseases, fresh and salt water fish

Species: Salmon, trout, lobster

Conrad Griffin

University of Maine

Cooperative Extension, 110 Libby Hall

Orono, ME 04469

207-581-3168

Objectives: Development of new industry, educational, environmental conservation, information collection/outreach, water quality education

Major Focus: Informal education

Products: Videos, reports, publications in the marine resources

Services: Consultation, educational

Specializations: Problem-solving and linking Maine citizens with the research community and aquaculture producers

Species: Atlantic salmon, shellfish, sea urchins, soft-shell clams

Peter J. Moore, Executive Director

University of Maine

Maine Aquaculture Innovation Center

BioResource Engineering Building

Orono, ME 04469

207-581-2728

Objectives: Promoting Maine aquaculture development through research and industry partnership

Major Focus: Research development and outreach for Maine aquaculture

Species: All

Research and Education

.....

George Kupelian

Washington County Technical College

WCTC/Marine Trades Center, Deep Cove Road
Eastport, ME 04631
207-853-2518

Objectives: Outreach and research projects in the finfish and shellfish industry. Technology transfer and research and development for salmon aquaculture in Maine

Services: Educational and outreach services including product and technology development

Specializations: Consulting, grant writing to assist industry-sponsored projects, seminars to address industry concerns

Species: Atlantic salmon, rainbow trout, Atlantic halibut, sea vegetables

Brian Doyle

University of New Hampshire Sea Grant

Kingman Farm
Durham, NH 03824
603-749-1565

Objectives: Educational, research - marine science

Major Focus: Marine/coastal

Products: Publications, videos, workshops

Services: Educational, evaluation, newsletter, industry training

Species: Salmon, shellfish

Raymond E. Grizzle

University of New Hampshire

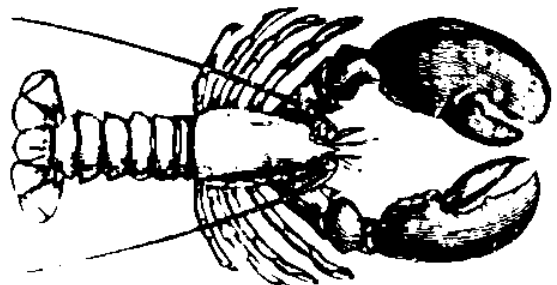
Jackson Estuarine Laboratory
Adams Point RFD 2
Durham, NH 03824

Objectives: Research and education concerning coastal waters, research-ecological, genetic

Major Focus: Research, education

Services: Consultation, educational

Specializations: Coastal ecosystems



Cold Spring Harbor Hatchery

P.O. Box 535
Cold Spring Harbor, NY 11724
516-692-6768

Objectives: Education and trout production - educational

Major Focus: Products, services, education

Products: Trout - newsletter

Services: Educational, newsletter

Species: Trout

Joe Regenstein

Cornell University

112 Rice Hall
Ithaca, NY 14853-5601
607-255-2109, home FAX: 607-257-2871

Objectives: Consulting, educational, food production, research - food science

Major Focus: Research, education

Services: Consultation, educational, newsletter

Specializations: Fish - salt water, waste management, aquaculture by-products

Species: Salmon, sucker, trout, gadoids, mackerel, menhaden

Paul R. Bowser

Cornell University

College of Veterinary Medicine
Department of Avian and Aquatic Animal Medicine
Ithaca, NY 14853
607-253-3365

Objectives: Teaching, research and service in aquatic animal health

Major Focus: Freshwater finfish diseases

Services: Fish disease diagnosis

Specializations: Infectious and non-infectious diseases of finfishes

Species: Finfishes

Research and Education

.....

Mike Timmons

Cornell University Aquaculture Program

Riley Robb Hall

Ithaca, NY 14853

607-255-2280

Objectives: Promote aquaculture production, development of new industry, education, food production, energy conservation, information collection/dissemination, engineering research, production, closed-cycle systems

Major Focus: Research, education

Services: Consultation, educational, systems engineering/design

Specializations: Fresh and salt water, field research, engineering

Species: Salmon, trout, tilapia, fresh and marine shrimp

Mike Voiland, Program Leader

Cornell University

Sea Grant Extension

12 Fernow Hall

Ithaca, NY 14853

607-255-2832

Objectives: Extension, education

Major Focus: Research, education

Species: Trout, salmon

Eugene H. Kaplan

Hofstra University

Biology Department

Hempstead, NY 11550

516-560-5520

Objectives: Educational, research - general

Major Focus: Services, research, educational

Services: Consultation, educational, marine laboratory in Jamaica, West Indies

Specializations: Field research; closed recirculating systems; hybrid identification and evaluation

Species: Tilapia

Dewitt Davies

Long Island Regional Planning Board

H. Lee Dennison Office Building, Veterans Memorial Highway

Hauppauge, NY 11788-5401

516-360-5199

Objectives: Regional planning; coastal management

Major Focus: Research

Products: Educational

Services: Educational

Specializations: Aquaculture management, site selection/feasibility studies, fisheries/environmental management

Anthony D'Agostino

Marine Science Institute

P.O. Box 820

Montauk, NY 11954

516-668-5804

Objectives: Marine science, aquaculture, reproduction and genetic selection, education, research

Major Focus: Research, genetic selection, American lobster (*Homorus americanus*), var. blue

Products: Educational

Services: Educational

Specializations: Shelter for living genetic mutants, marine species for reproductive studies and genetic selection

Species: Crustacea

David Morehouse

New York State Aquaculture Association

P.O. Box 12713

Albany, NY 12212

Objectives: Aquaculture member association; materials and information collection/dissemination; promote public awareness; cooperate with local, state and federal agencies to obtain objectives

Major Focus: Public education and cooperation in New York

Services: Educational, newsletter 4x a year, member communication, legislative power

Specializations: Communication

Research and Education

.....

John H. Schachte

New York State Department of Environmental Conservation

Fish Disease Control Unit

8314 Fish Hatchery Road

Rome, NY 13440

315-337-0910

Objectives: Direct and maintain fish health management efforts in state hatchery system

Major Focus: Services, research

Services: Fish health management and disease diagnosis

Specializations: Freshwater fish diseases

Species: Muskellunge, salmon, trout, walleye

H. David Greene

Regional Extension Specialist

21 South Grove Street

East Aurora, NY 14052

716-652-5453

Objectives: Educational, development of new industry, environmental conservation, information collection/dissemination, research

Major Focus: Education

Services: Educational, newsletter

Monica Bricelj

SUNY Stony Brook

Marine Sciences Research Center

Stony Brook, NY 11794

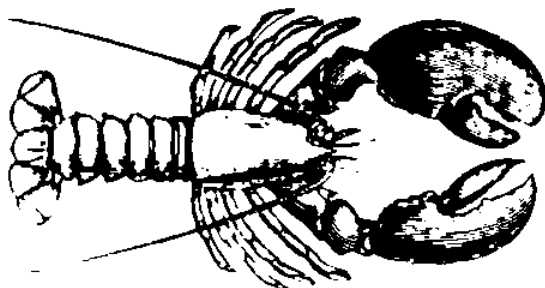
516-632-8663

Objectives: Support of coastal marine research and instruction for New York, educational research - marine science

Major Focus: Research, education

Services: Educational

Specializations: Coastal oceanography, coastal ecosystems



Joseph Buttner

SUNY Brockport

Aquatic Ecology Section
Department of Biological Sciences
Brockport, NY 14420
716-395-5750

Objectives: Instruction, extension, educational, research - cool water fish, extensive culture

Major Focus: Services, research, education - assistance to potential and practicing aquaculturalists with problems

Services: Extension services: consult, cage cultivation, education, newsletter, "How to" manuals, aquaculture coop, 4-H projects

Specializations: Cool water fish-culture; pond and cage cultivation, reuse systems, education, research and extension, economic/feasibility studies

Species: Bioassay species, catfish, yellow perch, walleye, trout

Town of Brookhaven

Department of Environmental Protection
3233 Route 121
Medford, NY 11763
516-451-6455

Objectives: Shellfish management on town-owned underwater land; environmental conservation, environmental education

Major Focus: Research, education, environmental planning

Services: Educational programs

Specializations: Shellfish management, environmental management, coastal ecosystems

Stuart Buckner, Director of Environmental Services

Town of Islip

Department of Environmental Control
401 Main Street
Islip, NY 11751
516-224-5646

Objectives: Replenishment and management of depleted shellfish stocks in Great South Bay

Major Focus: Resource management including the operation of a Municipal Shellfish Culture Facility

Products: Hard clam seed (not for sale)

Services: Research, environmental management

Specializations: Population dynamics, aquaculture

Species: *Mercenaria mercenaria*, *Argopecten irradians*

Research and Education

.....

Arthur R. Ganz

Rhode Island Division of Fish and Wildlife

Coastal Fisheries Lab

1231 Succotash Road

Wakefield, RI 02879

401-783-2304

Objectives: Marine fisheries management, environmental conservation/
protection, aquaculture

Major Focus: Research

Products: Information

Specializations: Finfish, shellfish, coastal ecosystems, field research, salt water
fish

James Anderson

University of Rhode Island

Department of Resource Economics

Kingston, RI 02881

401-792-4568 FAX: 401-783-8883

Objectives: Educational, information collection/dissemination, aquaculture
research, economics and marketing, international trade

Major Focus: Research, education - especially salmon market and trade

Products: Research reports

Services: Consultation (limited), educational

Specializations: Economics/feasibility studies, marketing studies

Species: Salmon, striped bass hybrids, shrimp

Terry Bradley

University of Rhode Island

Fisheries, Animal and Veterinary Science

Building 14

Kingston, RI 02881

401-792-2114

Objectives: Educational, research - pathology, physiology, nutrition, bio-
chemistry

Major Focus: Research, education

Services: Educational, consulting, extension work

Specializations: Fish diseases, fish biochemistry, fresh and salt water fish with
primary interest in Atlantic salmon

Species: Salmon, trout, winter flounder

Carole Jaworski
University of Rhode Island
Sea Grant Marine Advisory Service
Bay Campus
Narragansett, RI 02882-1197
401-792-6842

Objectives: Development of new industry, educational, information collection/dissemination, research - alternative culture techniques

Major Focus: Services, research, education - information and technology transfer services

Products: Books, booklets, posters, magazine, fact sheets, briefing papers

Services: Consultation, educational, systems engineering/design

Kenneth Simpson
University of Rhode Island
Food Science and Nutrition
Kingston, RI 02881
401-792-2977

Objectives: Educational, research - nutrition

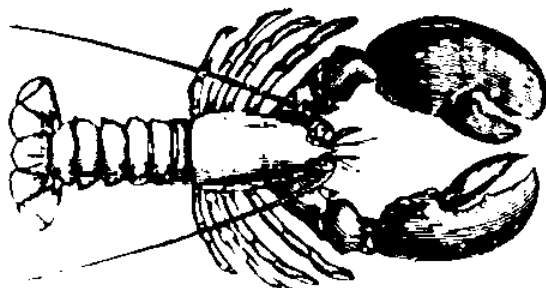
Major Focus: Services, research, education

Products: Biochemical analysis - fatty acids, amino acids, pigments

Services: Consultation, educational

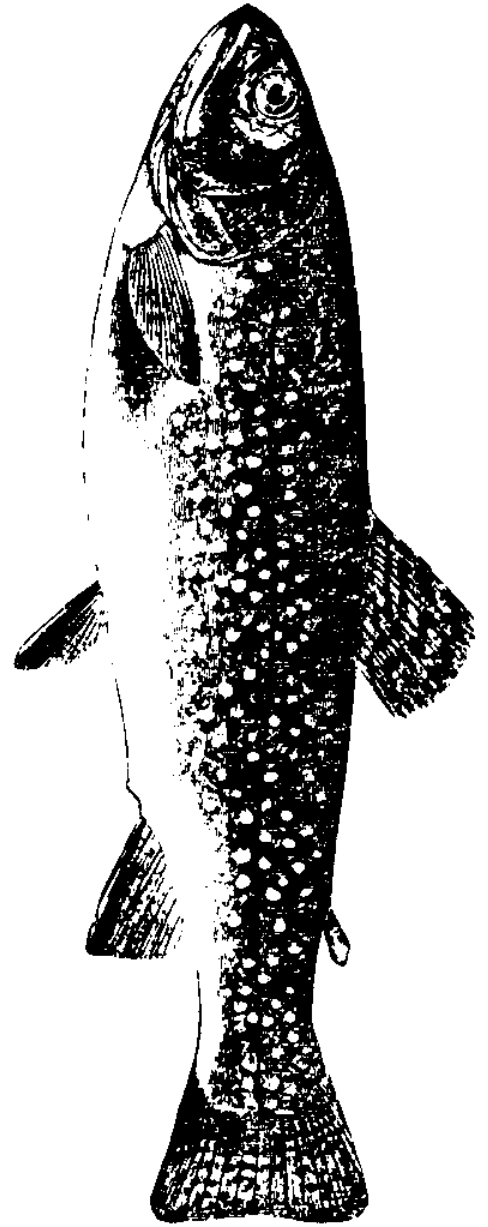
Specializations: Chemicals, field research, carotenoid pigments, blue shrimp, solar salt

Species: Salmon, trout, artemia, shrimp, striped bass



Producers

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Nancy Follini and Joseph Gilbert
Briarpatch Enterprises, Inc.
R.D. 3, Box 26, Briarpatch Road
Stonington, CT 06378
203-535-1137

Objectives: To harvest and sell shellfish - food production
Major Focus: Products, education
Products: Shellfish (hard-shell clams and oysters), trap-caught finfish
Services: Consultation, survey work, population and viability assessment of shellfish beds
Specializations: Quality control, harvest system design

Albin Sonsk
State of Connecticut
Kensington Atlantic Salmon Hatchery
120 Old Hatchery Road
Kensington, CT 06037
203-827-7785

Objectives: Produce Atlantic salmon to stock Connecticut River tributaries in Connecticut
Major Focus: Production of fry, parr and smolts to stock for restoration program
Products: Green eggs, fry, parr, smolts
Services: Produce and stock Atlantic salmon for stated project
Specializations: Green egg production for other hatcheries, brood stock production
Species: Atlantic salmon (*Salmo salar*)

Dave Sumner
Quinebaug Valley Trout Hatchery
P.O. Box 441, Trout Hatchery Road
Central Village, CT 06332
203-564-7542

Objectives: Produce 600,000 catchable trout for Connecticut; trout eggs and fingerlings for state and national public agencies; education, environmental conservation, information collection/dissemination, promoting aquaculture
Major Focus: Products
Products: Educational; training, on site; fish, eggs, fingerlings
Specializations: Catchable trout, trout eggs, trout fingerlings
Species: Trout - Rainbow trout, brown trout, brook trout

Producers

.....

Richard Kraus

Aquaculture Research Corp.

P.O. Box AC

Dennis, MA 02638

508-385-3933

Objectives: To commercialize hatchery and grow-out procedures of shellfish, consulting, development projects, food production, manufacturer/supplier to aquaculture industry, national trade

Major Focus: Products, research, services - produce seed shellfish and market-size shellfish and consulting service

Products: Wholesaler: cultured shellfish, seed shellfish, marine microalgae

Services: Consultation, systems engineering/design

Specializations: Hatchery rearing of shellfish, mass cultivation of specific algae, economic/feasibility studies, feed, field research - consulting

Species: *Mercenaria mercenaria*, *Crassostrea virginia*, *Argopecten irradians*,

Spisala solidissima, and other specialty bivalves

Al Surprenant

Cape Cod Oyster Company, Inc.

262 Bridge Street

Osterville, MA 02655

508-428-3383

Objectives: Selling of seed to individuals and towns

Major Focus: Seed sales

Products: Oysters, clams, scallops and soft-shell seed

Services: Information on grow out

Specializations: Seed productions

Species: Oysters, scallops, clam and soft-shell seed

Chatham Shellfish Co.

Box 205

West Chatham, MA 02669

508-945-9733

Objectives: Raise seed shellfish to maturity, buy and sell local shellfish, food production, promoting aquaculture/public relations, media relations, research - on-site nursery

Major Focus: Products, research

Products: Oysters, quahogs, mussels, soft-shell clams

Services: 24-hr. delivery, fresh in the shell

Specializations: Halfshell oysters

Species: All native to Chatham, Mass. and surrounding towns

Paul Girard
Commercial Fisherman
32A Onset Avenue, RFD #3
Buzzards Bay, MA 02532
508-759-5226

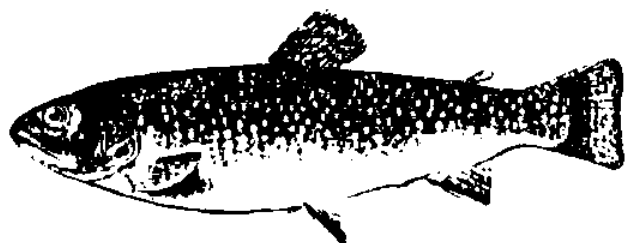
Objectives: Commerical fishing - food production
Major Focus: Products
Products: Harvesting lobster, shellfish and eel; open sea cultivation; whole-saler - lobster, shellfish and eel
Specializations: Harvest fish and shellfish inshore waters - economics/feasibility studies, equipment
Species: Salt water fish, eel

Richard C. Nelson
Cotuit Oyster Co., Inc.
P.O. Box 563
Cotuit, MA 02635
508-428-6747

Objectives: Grow and market shellfish, consulting
Major Focus: Products, services, research, oysters, hard-shell clams, consulting
Products: Shell oysters, hard-shell clams
Services: Consultation
Specializations: Growing and marketing oysters

Seth Garfield
Cuttyhunk Shellfish Farms
P.O. Box 51
Cuttyhunk, MA 02713
508-636-2072/508-971-1120

Objectives: Raise two species of oysters on farm - wholesale/retail, food production
Major Focus: Products, services, education
Products: Cultivation - cage: belon oysters and American oysters
Services: Food services: raw bar for visitors and catered raw bars to public
Specializations: Aquaculture- raised oysters
Species: Belon oysters and American oysters



Producers

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Jacob E. Bruinooge

EverJay Shellfishing

P.O. Box 294

South Wellfleet, MA 02663

508-349-6080

Objectives: Food production

Major Focus: Products

Products: Cage cultivation

Species: Hard-shell clam, oyster

Rulon E. Wilcox

Great Island Oyster Co., a Limited Partnership

Box 885, 746 Great Island Road

W. Yarmouth, MA 02673

508-775-7867

Objectives: Raise shellfish to maturity, sell local shellfish, promoting aquaculture/public relations, media relations, research - on-site nursery

Major Focus: Products, research

Products: Oysters, quahogs, soft-shell clams

Species: Oysters, quahogs, soft-shell clams

Michael Syslo

Massachusetts Division of Marine Fisheries

State Lobster Hatchery and Research Station

P.O. Box 9

Vineyard Haven, MA 02568

508-693-0060

Objectives: Hatch, rear and stock bottom-crawling lobsters for coastal waters in Massachusetts; education; environmental conservation; food production; information collection/dissemination; promote aquaculture; genetic research

Major Focus: Aquaculture services, research

Products: Cultivation, educational, lobsters

Services: Consultation, systems engineering/design

Specializations: Lobster aquaculture, shellfish culture, seawater systems design, filtration systems, field research

Species: Lobsters

Rob Garrison and Martin Ceely
Nantucket Shellfish Farm, Inc.
P.O. Box 14, 3 Kendrick Street
Nantucket, MA 02554
508-228-0295

Objectives: Oyster production, consult to cold water mollusc and warmwater cage cultivation and shrimp cultivation - food production
Major Focus: Products, services
Products: *Crassostrea virginica*
Services: Consulting, cage cultivation
Specializations: Economics/feasibility studies
Species: All shellfish and crustaceans, tilapia, striped bass and hybrids

Kenneth L. Bergstrom
Red-Wing Meadow Farm, Inc.
P.O. Box 484
Sunderland, MA 01375
413-549-4118

Objectives: Food production, sport/recreational fishing, private fish stocking
Major Focus: Food fish for upscale markets, principally brook trout
Products: Live and dressed fish (brook trout), smoked and canned for speciality markets
Services: Personalized service regarding size, quantity and delivery; fishing opportunities at the farm
Specializations: Trout Nouveau - canned baby brook trout
Species: Brook trout for the food industry; brook, brown and rainbow trout for stocking and fee fishing, large mouth bass and striped bass hybrids, for public also.

Tidecrest, Inc.
825 Washington Street
Suite 115
Norwood, MA 02062
617-769-4894

Objectives: Food production
Major Focus: Scallops
Products: Cage and open sea cultivation
Services: Cage and open sea cultivation
Specializations: Hatcheries
Species: *Argopecten purpuratus*, Homebase: Paracas, Peru

Producers

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Joe Grochowski, Town Biologist
Town of Nantucket Shellfish and Marine Department
38 Washington Street
Nantucket, MA 02554
508-228-7260

Objectives: Produce shellfish for town shellfish beds, conduct research in shellfish population dynamics
Major Focus: Stabilization of the bay scallop harvests
Products: Development of algal media, cultures; shellfish with superior meat weights and phenotypic markers
Services: Seed production; consultation (aquaculture/water quality)
Specializations: Phycological methods; investigations involving relationship between specific plankton and shellfish growth and development
Species: Bay scallop, quahog, American oyster

Allen C. Myers, President
Abandoned Farm, Inc.
Box 551
Damariscotta, ME 04543
207-563-3935

Objectives: Food production
Major Focus: Products
Products: Mussels, oysters, clams
Specializations: Suspended culture - mussels, oysters
Species: *Mytilus edulis*, *Ostrea edulis*, *Crassostrea virginica*, *Spisala solidissima*

Dodge Cove Marine Farm, Inc.
P.O. Box 211
Newcastle, ME 04553
207-563-8168

Objectives: Food production, national and international trade
Major Focus: Products
Products: Cultivation, open sea: cultivated oysters - *Ostrea edulis* and *Crassostrea virginica*
Specializations: Husbandry and wholesale of oysters

Richard Clime, Vice President
David C. Rayner, Hatchery Manager
Governor Hill Fish Hatchery
Maine Department of Inland Fish and Wildlife
RR-5, Burns Road, Box 970
Augusta, ME 04330
207-289-5228

Objectives: To stock public waters in the State of Maine with disease-free salmonids; specifically, lake trout, brook trout and splake

Major Focus: Producing high-quality disease-free salmonids for the state's stocking program

Products: Fall fingerling and spring yearling splake, brook trout and lake trout

Services: Reservations may be made in advance, certain times of the year, for free tours or consultations

Specializations: Fish culture

Species: Lake trout, splake and brook trout

Carter Newell
Great Eastern Mussel Farms
P.O. Box 141
Tenants Harbor, ME 04860
207-372-6317

Objectives: Bottom cultivation of shellfish, quality control, production modeling

Major Focus: Products, services, research, education, inshore oceanography

Products: Mussels (fresh and value added), shellfish research and development

Services: Site evaluation, quality control, pollution monitoring, yield optimization

Specializations: Field research

Species: *Mytilus edulis*, *Crassostrea virginica*, *Mya arenaria*

William Mook
Mook Sea Farms, Inc.
HC 64, Box 041
Damariscotta, ME 04543

Objectives: Bivalve seed production and sales, food production, manufacturer/supplier to aquaculture industry

Major Focus: Products, services, research

Products: Seed oysters, clams, scallops; provide information relating to culture of product

Services: Consultation, customer support

Specializations: Seed production technology

Species: Oysters, clams, scallops

Producers

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Burton Blanch

Nellie B. Fisheries

Eastport, ME 04631

207-853-4732

Objectives: Growing finfish in floating sea cages

Species: Salmon, trout

Sea Farm Lubec, Inc.

Atlantic Salmon Aquaculture

P.O. Box 279

Lubec, ME 04652

207-733-2458

Objectives: Food Production

Major Focus: Products

Products: Atlantic salmon - cage cultivation

Specializations: Salt water fish - production of Atlantic salmon market size

Species: Salmon

Evelyn Sawyer, President

Sea Run, Inc.

RRI, Box 585

Kennebunkport, ME 04046-9611

207-985-7957

Objectives: Smolt production

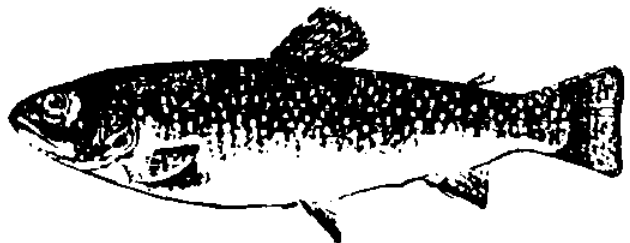
Major Focus: Products, services, research

Products: Smolts (trout and salmon)

Services: Consultation, cultivation-cage, hatchery

Specializations: Salmon and trout culture - fresh and salt water, field research, fish behavior, diseases

Species: Salmon, trout



Thomas L. Howell

Spinney Creek Oyster Co.

One Howell Lane

Eliot, ME 03903

207-439-1203

Objectives: Production of oysters and littleneck clams under our "Half Shell Safety Program" for safety conscious customers

Major Focus: Aquaculture production of oysters and clams; integrated purification, testing and distribution program

Products: Oysters and hard clams processed under "HSSP"

Services: Shellfish sanitation consulting: ie. sanitary surveys, relay and depuration; testing in in-house certified lab

Specializations: 1) Oysters and hard clam aquaculture 2) shellfish safety 3) depuration and relaying 4) laboratory analysis of FC in shellfish

Species: *Crassostrea virginica*, *Mercenaria mercenaria*, *Mya arenaria*

Stan Sinitski, President

Aquatic Research Organisms, Inc., Subsidiary of Millipore Corp.

P.O. Box 1271, 1 LaFayette Road

Hampton, NH 03842

603-926-1650, 1-800-992-0724

Objectives: To cultivate bioassay test animals. Supply research labs with aquatic test animals of uniform size, age and genetic background

Major Focus: Products

Products: Aquatic organisms used in water pollution testing - bioassay species

Specializations: Closed system culture of bioassay organisms

Species: Bioassay species, fathead minnow, bluegill sunfish, rainbow trout, daphnids, *Cyprinodon variegatus*, *Menidia beryllina*, *Fundulus heteroclitus*, *Mysidopsis bahin*, others

Edward Keefe

Beauty Hill Acres

P.O. Box 87

Center Barnstead, NH 03052

603-435-7635

Objectives: Proper pond management - LM Bass, crawfish - other feeds

Major Focus: Products - LM bass, crawfish, catfish, sunfish, electro-fishing for pond management

Products: Cage cultivation

Services: Consultation, cage cultivation, evaluation, aeration, aquatic plants

Specializations: Small pond management - bait, field research, fish behavior, freshwater fish

Species: Baitfish, bass, bluegill, carp, catfish, eel, minnow, mosquitofish, perch, shiner, sucker, trout and frogs; private farm pond stocking all warm water species

Producers

.....

New England Fish Farming

120 Lake Street, P.O. Box 347
Bristol, NH 03222
603-744-5703

Objectives: Atlantic salmon smolt production

Major Focus: Products

Products: Atlantic salmon eggs, parr and smolt

Specializations: Smolt, freshwater fish

Species: Atlantic salmon

Jay Hendee

New Hampshire Fish and Game Department

Fisheries Division

2 Hazen Drive

Concord, NH 03301

603-271-2503

Objectives: Hatcheries: Salmonid production for sport fisheries

Major Focus: Research, education (limited)

Products: Salmonid fish

Specializations: Fish culture - fish diseases, freshwater fish

Species: Salmon, trout

Garth Stephen, President

Adirondack Trout and Salmon Producers Cooperative

Chateaugay, NY 12920

518-497-6505

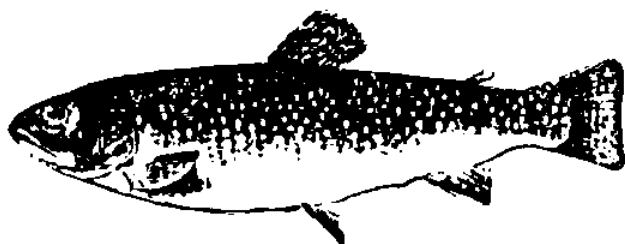
Objectives: Development of new industry, food production

Major Focus: Products

Products: Fish for food

Specializations: Growing and marketing fish, freshwater fish

Species: Salmon, trout



Jonathan K. Fieroh, Manager
Brandon Enterprises
Fisheries Division
HCR 1 Box 69
Paul Smiths, NY 12970
518-327-3534

Major Focus: Products, services
Products: Brook trout, brook trout eggs
Services: Consulting, fisheries surveys, water sampling, pond management
Specializations: Pond management, with hybrid brook trout
Species: Brook trout

Stephen Malinowski
The Clam Farm
Box 402
Fishers Island, NY 06390
516-788-7889

Objectives: Culture shellfish - seed and consumption-sized, research, food production, seed production (for fisheries management programs)
Major Focus: Products, research, education - shellfish
Products: Oysters, clams, scallops
Services: Systems engineering/design
Specializations: Shellfish seed production, consumption sized oysters
Species: *Mercenaria mercenaria*, *Argopecten irradians*, *Crassostrea virginica*, *Spisala solidissima*

David L. Berg
Cultured Aquatics
Northport Environmental Research Center
Eatons Neck Road
Northport, NY 11768-1298
516-757-8182

Objectives: Cultivation of bioassay organisms and shellfish seed
Major Focus: Products
Products: Bioassay organisms, clam and oyster seed
Services: Hatchery design
Specializations: Hatchery-reared fish and shellfish
Species: Bioassay species, *Mercenaria mercenaria*, *Crassostrea virginica*

Producers

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Laura Fraser and Joh Wallach
Eden Brook Aquaculture, Inc.
RD 2, Box 425
Forestburgh, NY 12777
914-796-1749

Major Focus: Food production - commercial enterprise
Products: Education - interested in students who would like an internship
Services: Cultivation, fresh water raceways-trout: brook/rainbow
Specializations: Trout, fish-freshwater
Species: Trout

Franklin B. Flower
Frank M. Flower and Sons, Inc.
P.O. Box 1436
Bayville, NY 11709
516-922-4410/516-922-4744

Objectives: Food production - raise and sell oysters and clams; shellfish farm
Major Focus: Products
Products: Oysters and clams - in the shell for wholesale distribution
Specializations: Oyster and clam production - beginning in a hatchery
through to harvest and sale as adults in the shell three to seven years later
Species: *Crassostrea virginica* and *Mercenaria mercenaria*

GEO Marine Resources, Inc.
516 5th Avenue, Suite 507
New York, NY 10036
212-354-0140

Objectives: Trade - national, food marketing
Major Focus: Products
Products: Seafood
Services: Wholesaler
Specializations: Fish - fresh and salt water
Species: Catfish, striped bass

David Morehouse
Morehouse Bait Farms
3435 Seybolt Road
Seneca Falls, NY 13148
315-568-8520

Objectives: Consulting, development, education, energy conservation, information collection, promotion of aquaculture, altering life cycles, bait production

Major Focus: Products

Products: Wholesale bait

Services: Consultation, customer support, educational, evaluation, field research

Specializations: Bait, field research

Species: Baitfish, bioassay species, minnow, sucker, fathead

Northeastern Biologists

1 Kerr Road
Rhinebeck, NY 12572
914-876-3983

Objectives: Aquaculture live fish sales

Major Focus: Products, services - live warm-water fish - six species of bass; and two species of minnows, crayfish

Services: Consultation - pond management

Specializations: Live, warm-water fish, freshwater fish

Species: Bass, fathead minnow, golden shiner, crayfish

George C. Matthiessen, President

Ocean Pond Corp.

Fishers Island, NY 06390
516-788-7240/516-788-7201

Objectives: Food production

Major Focus: Products, research

Species: Oysters



Producers

Sweet-Water Prawn, Ltd.

66 Gansevoort Street
New York, NY 10014
212-924-1319/1-800-4-PRAWNS

Objectives: Vertical integration of freshwater prawn, development project, food production, ornamental fish/flower production, promoting aquaculture—public relations/media relations, national trade

Products: Products, services - marketing consultancy in aqua-produce

Products: Retailer catalog, wholesaler - restaurants only

Services: Consultation

Specializations: Marketing/distribution of aqua-produce

Species: *Machrobrachium*, *Cherax*

Fred Laing

White Oak Farm

Box 405
Hillsdale, NY 12529
518-325-3384

Objectives: Raise and sell trout

Major Focus: Products

Products: Trout

Specializations: Trout production, freshwater fish

Species: Trout

Worm Warehouse

P.O. Box 266A, Flynn Road
Burre, NY 12917
518-483-7687

Objectives: National trade

Major Focus: Products and aquaculture

Products: Wholesaler

Specializations: Bait, freshwater fish

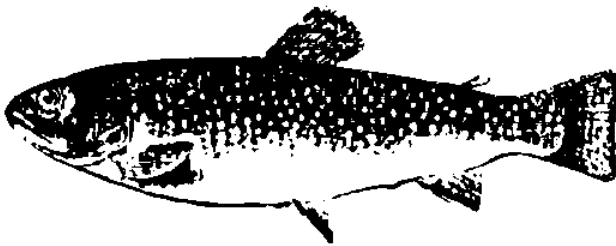
Species: Baitfish, crappie, perch, shiner, sucker, walleye

Luther H. Blount
Prudence Island Oyster Farm
1 Shipyard Lane
Warren, RI 02885
401-245-8300

Objectives: Development project
Major Focus: Products - development stage of mid-water oyster culture
Specializations: Development consists of 1/2-acre salt pond with strong tidal flow through; located in marsh area, Prudence Island
Species: Oysters

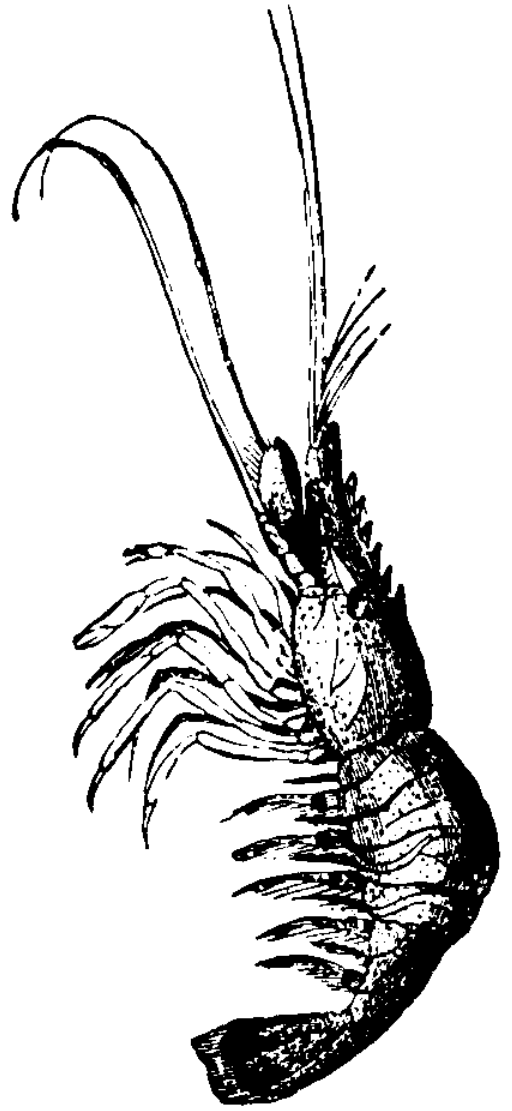
Robert Rheault
Spatco Ltd.
264 Foddering Farm Road
Narragansett, RI 02882
401-783-6007

Objectives: Develop nursery and grow-out techniques, develop alternative diets for bivalves
Major Focus: Products, research
Products: Bivalve seed - scallop, clam and oyster seed and oysters (market size)
Specializations: Bivalve nursery methods
Species: Shellfish seed: *Mercenaria mercenaria*, *Argopecten irradians*, *Crassostrea virginica*



Consulting Services

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M. Vernesoni

Department of Environmental Protection, Fisheries Bureau

165 Capitol Avenue
Hartford, CT 06106
208-566-2287

Objectives: Recreational fish production and management

Major Focus: Services, research

Services: Consultation

Specializations: Fisheries management, field research, fish diseases

Species: Salmon, trout

Ron Zweig, President

EcoLogic

P.O. Box 1440
North Falmouth, MA 02556
508-563-5980

Objectives: Consulting, development project, development of new industry, energy conservation, food production, information collection, research - production

Major Focus: Services, research, education

Products: Educational, newsletter

Services: Consultation, educational, evaluation

Specializations: Freshwater aquaculture, integrated fish farming, hydroponics: economics/feasibility studies, feed, fish diseases, computer simulation modeling

Species: Carp, catfish, goldfish, tilapia, striped bass

John M. Dubowik, Division Manager

Foster-Miller, Inc.

350 Second Avenue
Waltham, MA 02254
617-290-0992

Objectives: Consulting, application of novel technologies, integration of non-standard technological solutions to basic aquaculture problems

Major Focus: Applied research and development of equipment

Products: Technology, development, non-standard equipment

Services: Consultation, concept development, design and manufacture of special process, products and/or equipment

Specializations: Engineering - mechanical, chemical, electric/electronic, thermal, etc.

Consulting Services

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Harris Gold, Manager
Foster-Miller, Inc.
Engineers
350 Second Avenue
Waltham, MA 02254
617-890-3200

Objectives: Pollution control/cleanup, research, process development
Major Focus: Metals recovery, chemicals recovery from sea
Products: Systems engineering/design
Services: Consultation, evaluation, systems engineering/design
Specializations: Chemical separations

Richard C. Karney, Director
Martha's Vineyard Shellfish Group, Inc.
Box 1552
Oak Bluffs, MA 02557
508-693-0391

Objectives: Management of shellfish resources of Martha's Vineyard, consulting, development, education, environmental, food production, information collection/dissemination, research
Major Focus: Products, research, education, hatchery
Products: Sea scallops, quahogs, oysters to towns on Martha's Vineyard - cage and open sea cultivation; hatchery
Services: Consultation to towns and educational
Specializations: Shellfish aquaculture - scallops, quahogs, oysters, field research, hatchery
Species: *Mercenaria mercenaria*, *Argopecten irradians*, *Crassostrea virginica*

John H. Huguenin
Woods Hole Engineering Associates, Inc.
49 Oyster Pond Road
Falmouth, MA 02540
508-548-9668

Objectives: Consulting, development project, food production, research - bioengineering
Major Focus: Services, research
Products: In the past produced and sold hardware - fish cages, shellfish trays and intake screens
Services: Consultation, evaluation, systems engineering/design
Specializations: Aquacultural engineering systems design and evaluation, seawater systems, economic/feasibility studies
Species: All marine, estuarine and freshwater species

Roger Dexter, AFS Fish Pathologist

Dexter Fishery Consultants

Box 12

East Orland, ME 04431

207-469-2601, May-Dec.; 813-343-5889, Dec.-April

Objectives: Consulting, fish health, salmon production

Services: Consulting, salmon production

Specializations: Atlantic salmon - fish health, production, sea cage culture, fish diseases, freshwater fish

Species: Salmon, trout

Harold E. Arndt, President

Marcraft, Inc./Aquaculture Ent.

Flying Point

Freeport, ME 04032

207-865-6621

Objectives: Aquaculture food production, consulting, information collection, manufacturer/supplier to aquaculture industry

Major Focus: Products, services, research

Products: Aquaculture gear on contract

Services: Consulting

Specializations: Gear design and research

Species: Oysters, clams, bivalves in general

Hugh Proter

Quoddy Job Opportunity Zone

Washington City Vocational/Technical Institution

River Road

Calais, ME 04619

207-454-2144

Objectives: New and existing business development in Washington County, Maine. Consulting, Develop new industry, financing aquaculture program, information collection/dissemination, promotion, technical assistance

Major Focus: Services - business counseling, development, financing, regional promotion to business and local government

Services: Consultation, educational, evaluation, training

Specializations: Business counseling, grant writing for economic/community development, low-interest loans, economic/feasibility study, fish

Species: Salmon, trout

Consulting Services

.....

Robert Wengraynek, Biologist

RR #1 Box 181A
Oldtown, ME 04468
207-827-2800

Objectives: Technical assistance, environmental conservation/protection, site development

Major Focus: Services, technical literature

Products: Cage cultivation

Services: Consultation

Specializations: Pond, raceway development and management, bait, freshwater fish

Species: Baitfish, minnow, shiner, trout

Jay Hendee, Diagnostician

RD 10, Box 375
Concord, NH 03301
603-798-5474

Objectives: Furnish fish culture and bait dealer consulting services

Major Focus: Fish culture and disease service

Services: Consultation

Specializations: Culture and diseases of salmonids

Species: Fish diseases, freshwater fish: baitfish, minnow, salmon, trout

William Hearn

Normandeau Associates, Inc.

25 Nashua Road
Bedford, NH 03102
603-472-5191

Objectives: Consulting, environmental conservation or protection

Major Focus: Environmental sciences

Services: Consultation

Specializations: Coastal ecosystems, field research, fish behavior, fresh and marine fish taxonomy, stream ecology, limnology, telemetry and fish bypass, bioassay species

Species: Alewife, bass, bluegill, carp, cat-fish, crappie, American eel, goldfish, minnow, muskellunge, paddlefish, pumpkinseed, Atlantic salmon, American shad, yellow perch, sturgeon, trout, walleye

Coleman Ventures, Inc.

5907 Northern Boulevard
East Norwich, NY 11732
516-626-3642/916-626-2771, FAX: 516-626-9722

Objectives: To fund on equity basis commercial aquaculture start-up companies - financing aquaculture programs (commercial)

Major Focus: Services - funds for startup aquaculture companies on equity basis only

Services: Evaluation, funding

Specializations: Commercialization of feasible aquaculture products or pursuits - economics/feasibility studies

Terry C. Cospers, President

Cospers Environmental Services, Inc.

Northport Environmental Research Center
Eaton's Neck Road, P.O. Box 525
Northport, NY 11768
516-754-4455, FAX: 516-754-4523

Objectives: Bioassay consulting, development of new industry (jobs)

Major Focus: Bioassay testing

Products: Sale of bioassay test organisms, freshwater and marine

Services: Acute and chronic freshwater and marine bioassays

Specializations: Biological testing, fresh and salt water fish

Species: Bioassay species

Joseph Gorsuch

Eastman Kodak Co.

ESS/HAEL, B-306, KP
Rochester, NY 14652-3617
716-588-2140

Objectives: Environmental fate and effect testing - consulting, development projects

Major Focus: Services, research - environmental testing

Products: Environmental assessments, reports

Services: Consultation, PMN and NSN testing

Specializations: Bioassay organisms

Species: Bioassay species, minnow



Consulting Services

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Thomas C. Field, President
Fernwood-Limne, Inc.
77 Route 9
Gansevoort, NY 12831
518-793-1282

Objectives: Consulting, environmental conservation/protection, food production
Major Focus: Products, services - trout, salmon, fisheries and aquaculture consulting
Products: Cultivation, hatching
Services: Consultation
Specializations: Trout and Atlantic salmon culture - freshwater fish
Species: Salmon, trout

Robert Valenti, Director
Multi Aquaculture Systems
P.O. Box 679
Amagansett, NY 11930
516-267-3341

Objectives: Raise food and money, financing aquaculture programs, food production, research - genetic engineering, international trade
Major Focus: Consultation, open sea cage culture, live fish inventory
Products: Fluke, lobster, striped bass, bioassay organisms
Services: Consultation, open sea and cage cultivation, bioassay test organisms
Specializations: Marine fish farming - exports, salt water fish
Species: Bioassay species, striped bass, lobster, fluke

Gary Neuderfer
New York Department of Environmental Conservation
6274 East Avon-Lima Road
Avon, NY 14414
716-226-2466

Objectives: Environmental conservation/protection, pollution control/cleanup
Major Focus: Services, research
Products: Public service
Services: Consultation, to public
Specializations: Field research, freshwater fish
Species: Bioassay species, fathead minnow, *Daphnia magna*, *Ceriodaphnia dubia*, *Chironomus tentans*, *Hyalella azteca*, and various green algae

Robert Myers, Biologist
Soil Conservation Service
Federal Building
100 South Clinton Street
Syracuse, NY 13260
315-423-5212

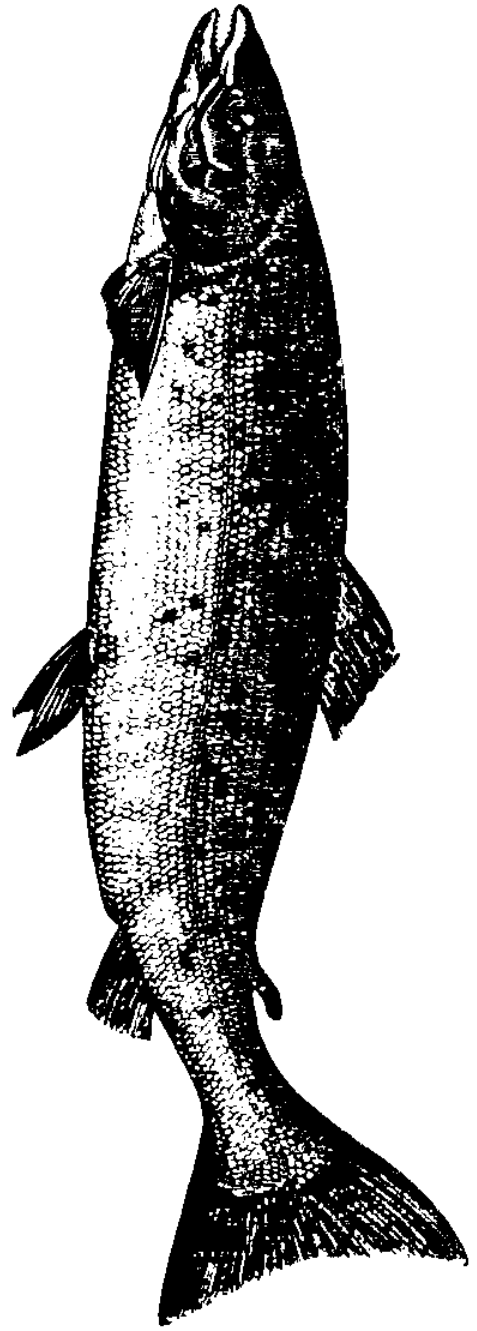
Objectives: Land use planning and resource management

Major Focus: Services

Services: Consultation - Land use/resource management/site planning and pond construction



Equipment Suppliers



Sweeney Aqaumatic

P.O. Box 3148
Stony Creek, CT 06405
203-488-9752

Objectives: Design and produce equipment for fish culture and water quality analysis environmental conservation/protection, manufacturer/supplier to aquaculture industry

Major Focus: Products - water quality monitoring; fish feeding

Products: Cage and open sea cultivation; instruments; monitor and control systems

Services: Custom design

Specializations: Monitoring and control of water quality and hatchery operations, equipment

Technical Inside, Sales and Applications Department

Orlon Research, Inc.

529 Main Street
Boston, MA 02129
617-242-3900

Objectives: Manufacturer/supplier of lab equipment, wastewater treatment (sewage), dissolved oxygen and conductivity

Major Focus: Products, service, research

Products: PH meters and electrodes, dissolved oxygen and conductivity

Specializations: Manufacturer/supplier

Packaging Products Corp.

198 Herman Melville Boulevard
P.O. Box 6002
New Bedford, MA 02742
508-997-5150

Objectives: Supply packaging for the shipping of seafood and other perishables - manufacturing/supplier to aquaculture industries

Major Focus: Packaging materials

Products: Packaging - plastic containers, corrugated and insulated shippers

Specializations: Perishables packaging

Equipment Suppliers

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Riverdale Mills Corp.

130 Riverdale Street, P.O. Box 200
Northbridge, MA 01543
508-234-8715

Objectives: Manufacturing/supplier to aquaculture industries

Major Focus: Products

Products: Construction materials

Specializations: Equipment

VWR Scientific

P.O. Box 232
Boston, MA 02101
617-461-1880/1-800-225-4290

Objectives: Distributor of laboratory supplies, equipment, apparatus and chemicals to the research, educational, governmental and industrial market place

Major Focus: Research products for the environmental and biotechnological markets

Products: Laboratory equipment, supplies and chemicals

Services: Consultative services for new lab setups and design

Janice M. Plante

Commercial Fisheries News

106 Marine Trade Center, Portland Fish Pier
Portland, ME 04101
207-773-0349

Objectives: Collection and dissemination of news and information for all sectors of the commercial fishing industry

Major Focus: Management issues, industry activities, products

Products: Monthly trade newspaper

Services: Monthly trade newspaper

Specializations: New England region

Species: All species raised, harvested, processed or handled by members of the commercial fishing industry



Rick Martin
Fisheries Product News
P.O. Box 37
Stonington, ME 04681
207-367-2396, FAX: 207-367-2490

Objectives: Provide product and technical information to aquaculture industry in United States and Canada, educational, manufacturer/supplier, information

Major Focus: Education

Products: Fisheries Product News-6x/year with product and service writeups pertinent to aquaculture industry

David W. Keller
Solar Components Corp.
121 Valley Street
Manchester, NH 03103
603-668-8186

Objectives: Development of new industry, energy conservation/production, manufacturer/supplier to aquaculture industry, national/international trade, wastewater treatment, water reclamation and potable resource development products - F.R.P. materials for equipment

Major Focus: Transparent aquaculture tanks

Products: Consulting, cage/open sea cultivation, customer support, educational, evaluation, systems engineering/design

Specializations: Custom tank sizes

Wallace C. Steidle
Coastal Farms, Inc.
Middle Line Highway, P.O. Box 480
Water Mill, NY 11976
516-283-3143

Objectives: Food production

Major Focus: Products/service/research, cage culture-hard clams, shellfish for better market

Products: Cage cultivation

Services: Cage cultivation

Specializations: Growing shellfish, naturally purifying shellfish

Species: Clams

Equipment Suppliers

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Tom Baum, President and Neil F. Baum, Vice President

Empire Fibreglass Products, Inc.

Riverside Industrial Park

P.O. Box 1006

Little Falls, NY 13365

315-823-4030, FAX: 315-823-0691

Objectives: Custom fabricator of FRP tanks for aquaculture, manufacturer/supplier to aquaculture industries

Major Focus: Products, services - FRP tanks, raceways, etc.-help design sizes/shapes

Products: Construction materials, cultivation - cage, customer repairs

Services: Consultation, customer support

Specializations: Equipment

Gregor N. Neff, President

Inqua Corp.

Box 86

Dobbs Ferry, NY 10522

212-840-3333

Objectives: Development, manufacture and sale of cages and net pens

Major Focus: Products, research

Products: Cages and net pens for aquaculture

Services: Design of special-purpose cages and pens

Specializations: Cage and pen culture, equipment

Species: Catfish, trout, tilapia, redfish, hybrid striped and striped bass, pompano, walleye, muskellunge-almost every species except filter-feeders; clam, oyster, albalone, shrimp cages

R.L. Neff, President

International Aeration Systems

LPO 160, 1555 Third Avenue

Niagara Falls, NY 14304

416-688-4090

Objectives: Manufacturer/supplier to aquaculture industry, wastewater treatment, water reclamation, potable water resource development

Major Focus: Supply micro-porous aeration tubing and systems

Products: Systems engineering/design

Services: Systems engineering/design

Specializations: Aeration, equipment

Lewis Enterprises

Department 1J91MIT
G.P.O. Box 1773
New York, NY 10001

Objectives: Educational, supplier to aquaculture industries, international trade

Major Focus: Products (supplier)

Products: Educational, retailer catalog

Schollum International, Inc.

99 Seaview Boulevard
Port Washington, NY 11050
516-484-3290 FAX: 516-484-6574

Objectives: Sales promotion of publications on aquaculture

Major Focus: Products (books)

Products: All books and publications on aquaculture

Services: Book services

Specializations: Aquaculture

Species: Salmon, trout, eel, catfish, others

J. Robin Hendry

Westmoor Ltd.

P.O. Box 99
Sherrill, NY 13461
315-363-1500/1-800-367-0972

Objectives: Manufacturing/supplier to aquaculture industries

Major Focus: Products

Products: Aeration systems, compressors

Services: Customer repairs

Specializations: Equipment

