Aquaculture: Shrimp Farming
January 1979 - April 1994

TITLE: Aquaculture: Shrimp Farming
AUTHOR: Ann Townsend Young and Mary E. Edsall
Aquaculture Information Center
National Agricultural Library
PUBLICATION DATE: July 1994
SERIES: QB 94-43
NAL Call no.: aZ5071.N3 no.94-43
CONTACT: Alternative Farming Systems Information Center
National Agricultural Library
Room 123, 10301 Baltimore Ave.
Beltsville, MD 20705-2351
Telephone: (301) 504-6559
http://afsic.nal.usda.gov

ISSN: 1052-5378

United States Department of Agriculture
National Agricultural Library
10301 Baltimore Blvd.
Beltsville, Maryland 20705-2351

Aquaculture: Shrimp Farming
January 1979 - April 1994

Quick Bibliography Series: QB 94-43

142 citations from AGRICOLA

Ann Townsend Young and Mary E. Edsall
Aquaculture Information Center
July 1994

National Agricultural Library Cataloging Record:

Young, Ann Townsend
Aquaculture : shrimp farming.
(Quick bibliography series ; 94-43)
1. Shrimp culture--Bibliography. I. Edsall, Mary E. II. Title.
aZ5071.N3 no.94-43

About the Quick Bibliography Series

Bibliographies in the Quick Bibliography Series of the National Agricultural Library, are intended primarily for current awareness, and as the title of the series implies, are not indepth exhaustive bibliographies on any given subject. However, the citations are a substantial resource for recent investigations on a given topic. They also serve the purpose of bringing the literature of agriculture to the interested user who, in many cases, could not access it by any other means. The bibliographies are derived from computerized on-line searches of the AGRICOLA data base. Timeliness of topic and evidence of extensive interest are the selection criteria.

The author/searcher determines the purpose, length, and search strategy of the Quick Bibliography. Information regarding these is available upon request from the author/searcher.

Copies of this bibliography may be made or used for distribution without prior approval. The inclusion or omission of a particular publication or citation may not be construed as endorsement or disapproval.

Document Delivery Information:

AGRICOLA

Citations in this bibliography were entered in the AGRICOLA database between January 1979 and the present.

SAMPLE CITATIONS

Citations in this bibliography are from the National Agricultural Library's AGRICOLA database. An explanation of sample journal article, book, and audiovisual citations appears below.

JOURNAL ARTICLE:

<table>
<thead>
<tr>
<th>Citation #</th>
<th>NAL Call No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Article title.</td>
<td></td>
</tr>
</tbody>
</table>
AQUACULTURE: SHRIMP FARMING

SEARCH STRATEGY

<table>
<thead>
<tr>
<th>Set</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>---</td>
<td>--------------------------------------------------------------</td>
</tr>
<tr>
<td>S1</td>
<td>SHRIMP?/TI,DE</td>
</tr>
<tr>
<td>S2</td>
<td>PRAWN?/TI,DE</td>
</tr>
<tr>
<td>S3</td>
<td>MACROBRACHIUM/DE</td>
</tr>
<tr>
<td>S4</td>
<td>PENAEUS/DE</td>
</tr>
<tr>
<td>S5</td>
<td>(SHRIMP? OR PRAWN? OR MACROBRACHIUM OR PENAEUS)/DE</td>
</tr>
<tr>
<td>S6</td>
<td>AQUACULTURE/DE</td>
</tr>
<tr>
<td>S7</td>
<td>FARM?/TI</td>
</tr>
<tr>
<td>S8</td>
<td>RAIS?/TI</td>
</tr>
<tr>
<td>S9</td>
<td>PRODUCTION/DE</td>
</tr>
<tr>
<td>S10</td>
<td>MARICULTURE/DE</td>
</tr>
</tbody>
</table>
Aquaculture:  Shrimp Farming

1  NAL Call. No.: HD101.S6
Application of a bio-economic-engineering model for shrimp mariculture systems.
Adams, C.M.; Griffin, W.L.; Nichols, J.P.; Brick, R.E.
Descriptors: Shellfish; Models; Production potentials

Abstract:  Extract: The bio-economic-engineering (BEE) model developed in our study is capable of integrating biological growth functions with engineering and economic relationships to examine penaeid shrimp mariculture systems through budgeting and cash flow statements. On the basis of costs and returns generated by the model, economies of size are examined by incrementing pond size and then number of ponds for a given facility design. Sensitivity analysis is performed to provide information about the responsiveness of net revenue to change in select production variables and prices.

2  NAL Call. No.: 290.9 AM32T
Aquacultural engineering in fresh water prawn production.
Wang, J.K.; Williamson, M.R.
Language:  ENGLISH

3  NAL Call. No.: 157.8 R29 no.246657
The aquaculture of fresh water prawns (Macrobrachium species).
Goodwin, H. L.; (Harold Leland); Hanson, Joe A.
Waimanalo, Hawaii Oceanic Institute; 1975.
95 p. : ill. ; 28 cm. (United States. National Technical Information Service. PB ; 246657). Grant 04-5-158-13. A summary of proceedings, augmented by material from other sources, of the Workshop on the Culture of Freshwater Prawns held November 25 and 26, 1974, at the Marine Research Laboratory of the Florida Dept. of Natural Resources, St. Petersburg, Fla.
Descriptors: Shrimps culture; Shrimps
4 Aquaculture potential in southern freshwater prawn (Macrobrachium rosenbergii, Macrobrachium australiense, reproduction).
Fielder, D.
Language: English

5 Artemia salina as pabulum for growing penaeids under laboratory conditions (Shrimp culture).
Palmeigiano, G.B.; Trotta, P.
Language: English

6 Biology and culture of Penaeus monodon.
Brackishwater Aquaculture Information System
vi, 178 p. : ill. ; 23 cm. (BRAIS state-of-the-art series ; no. 2). Includes bibliographical references.
Language: English
Descriptors: Shrimp culture; Philippines; Penaeus monodon; Shrimps; Physiology; Shrimp culture

7 Brackishwater shrimp culture demonstration in Bangladesh.
Karim, M.
Bay of Bengal Programme, Development of Small-Scale Fisheries Madras, India: Bay of Bengal Programme, [1986?]; 1986.
Language: English

8 Breeding and intensive farming of the shrimp Penaeus kerathurus (Forskael) 1775) from egg to post-larva = Riproduzione ed allevamento intensivo di Penaeus kerathurus (Forskael, 1775) dall'uovo alla post-larva.
Brine shrimp Artemia in coastal saltworks is inexpensive food source (Intensive fish or crustacean farming).

Sorgeloos, P.  

Language: English

Budidaya ikan dan udang dalam tambak  [Fish and shrimp culture in ponds]. Soeseno, Slamet  
Jakarta: Gramedia,; 1983.  

Language: Indonesian

Camaroes de agua doce instalacoes : caseiras, comerciais, industrias  [Freshwater prawn farming facilities]. Vieira, Marcio Infante,  
Sao Paulo, SP, Brasil : Nobel,; 1986.  
110 p. : ill. ; 23 cm.

Language: Portuguese

Changing pattern of prawn production in small-scale fisheries of India.

George, M.J.; Suseelan, C.  
Bangkok, FAO Regional Office for Asia and the Pacific; 1980.  
13 NAL Call. No.: SH380.62.C6C55 1989
Chung-kuo tui hsia yang chih hsin chi shu [New technology on
China's shrimp culture]., Ti 1 pan..
Chi, Ch'eng-lin; Ch'en, Kuang-hui
Pei-ching : Chin tun ch'u pan she,, 1989.
3, 154 p. : ill. ; 19 cm.
Language: Chinese
Descriptors: Shrimp culture

14 NAL Call. No.: SH299.C432 no.28
Coastal aquaculture marine prawn culture.
Central Marine Fisheries Research Institute
Cochin, India : Central Marine Fisheries Research Institute,; 1978.
vi, 90 p. : ill. ; 28 cm.. (CMFRI bulletin ; 28).
Language: English
Descriptors: Aquaculture; India; Shrimp culture; India

15 NAL Call. No.: SH216.4.B395 no.20
Coastal aquaculture project for shrimp and finfish in Ban Merbok,
Kedah, Malaysia.
Madras, India : Bay of Bengal Programme, Development of Small-
Scale Fisheries,; 1984.
Bibliography: p. 30-[32].
Language: English

16 NAL Call. No.: SH1.A6
Costs and returns for Macrobrachium grow-out in South Carolina,
U.S.A.
(Alternative foods, prawn production).
Roberts, K.J.; Bauer, L.L.
Amsterdam, Elsevier; Dec 1978.
Language: ENGLISH

17 NAL Call. No.: SH1.A6
Cultivation of the Sydney rock oyster Crassostrea commercialis
(Iredale and Roughley) in prawn farming ponds.
Maguire, G.B.; Wisely, B.; Skeel, M.E.
Amsterdam, Elsevier Scientific Publishing; May 1981.
Language: English
Cultivo de camarões de água doce [Freshwater prawn farming], 2a ed.
Valenti, Wagner Cotroni
82 p. : ill. ; 21 cm. Bibliography: p. 81-82.

Language: Portuguese

Descriptors: Shrimp culture; Brazil; Shrimps

The culture of cold-tolerant shrimp proceedings of an Asian-U.S.
workshop on shrimp culture, Honolulu, Hawaii, U.S.A., October
2-4, 1989.
Main, Kevan L.; Fulks, Wendy
United States, National Oceanic and Atmospheric Administration
Honolulu, HI : The Oceanic Institute ; 1990.

Language: English

Descriptors: Shrimp culture; East Asia; Congresses; Shrimp culture; United States; Congresses

Culture studies with Malaysian prawn in unfed brackish water
ponds (Macrobrachium rosenbergii).
Perry, W.G.; Huner, J.V.; Avault, J.W. Jr
s.l., The Association; 1980.
Proceedings of the ... annual conference Southeastern Association

Language: English

Decapsulated brine shrimp cysts--an ideal feed for shrimps in
aquaculture (Artemus salina fed to Metapenaeus monoceros).
Royan, J.P.
New Delhi, Council of Scientific & Industrial Research; June
1980.

Language: ENGLISH

The development of Shigueno-style shrimp culture in southern
Japan (Penaeus japonicus).
Spotts, D.

Language: English
Descriptors: Japan

23  NAL Call. No.: S79.E3
Economic analysis of production of freshwater shrimp (Macrobrachium rosenbergii).
Montanez, J.L.; Dillard, J.G.; Fuller, M.J.
Mississippi State, Miss. : The Station; 1992 Oct.

Language: English
Descriptors: Macrobrachium rosenbergii; Economic analysis; Management; Ponds; Data analysis; Statistical data; Research; Investment requirements; Operating costs

24  NAL Call. No.: SH1.A66
Economic feasibility of prawn Macrobrachium production in South Carolina, USA (Investment, returns).
Bauer, L.L.; Sandifer, P.A.; Smith, T.I.J.; Jenkins, W.E.

Language: English
Descriptors: South Carolina

25  NAL Call. No.: HC10.S63
Economic impacts of TEDs on the shrimp production sector.
Griffin, W.L.; Tolman, D.; Oliver, C.

Language: English
Descriptors: Gulf of Mexico; Cabt; Shrimps; Turtles; Fishery management; Economic impact; Simulation models

26  NAL Call. No.: SH1.A6
Effect of different stocking combinations on growth, production and survival of milkfish (Chanos chanos Forskal) and prawn
(Penaeus monodon Fabricius) in polyculture in brackishwater ponds.
Eldani, A.; Primavera, J.H.
Amsterdam, Elsevier Scientific Publishing; Apr 1981.
Aquaculture v. 23 (1/4): p. 59-72. ill; Apr 1981. 18 ref.

Effect of substrate types on fecundity and nauplii production of ablated Penaeus monodon Fabricius (Giant tiger prawn, cultured in Philippine ponds). Pudadera, R.A.; Primavera, J.H.; Borlongan, E.
Manila, Philippines, National Science Development Board; Jan/June 1980.
Descriptors: Philippines

EMERGY analysis of shrimp mariculture in Ecuador.
Odum, Howard T.;; Arding, Jan E.
University of Rhode Island, Coastal Resources Center
Includes bibliographical references.
Language: English
Descriptors: Shrimp culture

Evaluacion tecnica, social y economica del sistema de cultivo artesanal de camarones en la costa de Chiapas [Technical, social and economic evaluation of prawn culture on the coast of Chiapas]., 1. ed..
Acosta C., Juan Ramon
125 p. : ill. ; 28 cm. Includes bibliographical references (p. 125).
Language: Spanish; Spanish
Descriptors: Shrimp industry; Shrimpers (Persons)

Evaluation of a biofilter water reuse system for Macrobrachium rosenbergii prawn aquaculture ponds.
Rogers, G.L.; Klemetson, S.L.
Proceedings of the Water Reuse Symposium II : held August 23-28, 1981,
An experiment on the culture of Penaeus indicus (Milne Edwards) in an estuarine pond at Mangalore.
Ramamurthy, S.; Manickaraja, M.
Ernakulam, Cochin; 1977 (pub.1980).

Descriptors: India

Experiments in the larviculture of Penaeus monodon (Fabricius) and Penaeus merguiensis (De Man) (Marine prawn culture in West Malaysia).
Chang, L.W.; Kuan, W.Y.
Bibliography p. 195-197.

Descriptors: Peninsular Malaysia

Farm operation.

Language: English

Descriptors: Macrobrachium; Shrimp culture; Ponds; Water management; Feeding; Stocking rate; Harvesting

Farming freshwater shrimp.
Brick, Robert W.; Davis, James T.
Texas Agricultural Extension Service

Language: English

Descriptors: Shrimp culture; Texas

Farming the coastal land at Tuticorin (Fishes and prawns, India).
Marichamy, R.; Rajapackiam, S. 
Cochin: Central Marine Fisheries Research Institute; Feb 1983. 

Language: English
Descriptors: India

36 NAL Call. No.: SP1.A833 no.2
Feeding prawns for grow-out culture.
Pascual, F. P. 
21 p. : ill. ; 22 cm. (Aquaculture extension pamphlet; no. 2). 

Language: English

37 NAL Call. No.: SH151.F5
Freshwater prawn culture alongside Lake Kariba (Macrobrachium rosenbergii, Zimbabwe). 
Kenmuir, D. 

Language: English
Descriptors: Zimbabwe

38 NAL Call. No.: SH1.F2 no.225 1985
Freshwater prawn farming a manual for the culture of 
Macrobrachium rosenbergii. 
New, Michael B.; Singholka, Somsuk 
Food and Agriculture Organization of the United Nations 

Language: English
Descriptors: Shrimp culture; Thailand; Shrimps; Thailand; Macrobrachium rosenbergii

Freshwater prawn (Macrobrachium rosenbergii) production in Hawaii practices and economics. 
Shang, Yung-Cheng, 
Hawaii, Aquaculture Development Program 
Honolulu: Aquaculture Development Program, Department of Land and Natural Resources, State of Hawaii: University of Hawaii Sea Grant College Program; 1981.
General aspects of shrimp farming

Ceccaldi, H. J.
Washington Language Services Branch, Office of International Fisheries,
National Marine Fisheries Service, NOAA (n.d.)
12 leaves.

Language: ENGLISH; FRENCH

General Mills' experiences in fresh-water shrimp farming in Latin America. Wulff, R.E.

Descriptors: Latin America

Geothermal aquaculture: a guide to freshwater prawn culture. Hayes, Annette; Johnson, William C.

Language: English

Descriptors: Shrimps; Geothermal resources

Getting started with prawns: construction, farming & maintenance. Shklov, J.M.; Fassler, C.R.
S.l. : s.n. :.; 1979.

Language: English

Descriptors: Hawaii; Prawns; Fish farming; Fishery management; Sites; Fish ponds; Construction; Maintenance

Giant prawn farming selected papers presented at "Giant Prawn

New, Michael B.
Thailand, Krom Pramong
1982. xii, 532 p. : ill., maps ; 25 cm.. (Developments in aquaculture and fisheries science ; 10). "Giant Prawn 1980 was hosted by the Department of Fisheries, Ministry of Agriculture and Cooperatives, Royal Thai Government"--P. v.
Includes bibliographies and index.

Language: English

Descriptors: Macrobrachium; Congresses; Shrimp culture; Congresses

Gulf of Mexico shrimp production: a food web hypothesis
(Fisheries, Texas). Flint, R.W.; Rabalais, N.N.

Language: English

Descriptors: Texas

Impact of regional shrimp production, consumer income, and imports on ex-vessel prices.
Houston, J.E.; Nieto, A.
Research bulletin - University of Georgia, Agricultural Experiment Stations (377): 30 p. maps; 1988 Nov. Includes references.

Language: English

Descriptors: South eastern states of U.S.A.; South central states of U.S.A.; North eastern states of U.S.A.; Great basin and pacific slope; Shrimps; Fish production; Coastal fisheries; Species; Trawlers; Economic situation; Imports; Economic impact; Wholesale prices

Improvements of penaeid shrimp larval production.
Lawrence, Addison L.; Samocha, Tzachi
In vitro culture of Macrobrachium (nobilii) eggs.
Balasundaram, C.; Pandian, T.J.
The Hague, W. Junk; Feb 13, 1981.
Presented at the Second International Symposium on Invertebrate Reproduction, Davis, California, 1979. 18 ref.

India turns to prawn (and shrimp) culture.
Dwivedi, S.N.; Iftekhar, M.

Induced maturation and spawning of Indian penaeid prawns (for coastal aquaculture).
Muthu, M.S.; Laxminarayana, A.
Ernakulam, Cochin; 1977 (pub.1980).

Is technology transfer to subsistence farmers doubling nothing?.
Jedlicka, A.D.; Rappaport, A.
Indianapolis, Ind. : Technology Transfer Society; 1990.

Macrobrachium culture.
Brahmanonda, P.
Thailand, Bangkok : The Secretariat, Southeast Asian Fisheries Development Center; 1984.
17 p. : ill. ; 21 cm.. (SAFIS manual ; no. 8). May 1984.
Mail survey of the U.S. seafood wholesale market channel with an emphasis on whole farmed marine shrimp.
Rhodes, Raymond J.; Grant, Valvy N.
South Carolina, Economic Analysis and Seafood Marketing Program

Language: English
Descriptors: Shrimp industry; Mail surveys; Wholesale trade

Managing algae and suspended solids in shrimp-oyster joint production.
Robichaux, D.M.; Wang, J.K.

Language: English
Descriptors: Shrimps; Oysters; Nitrogen; Equipment

Mariculture expanding in Hong Kong (Prawns, groupers).
Rankin, P.S.

Language: English
Descriptors: Hong Kong

Marine farming in China (Prawn, scallop, mullet, halibut).
Thain, B.
Fish farming international v. 8 (3): p. 20, 22. ill; Sept 1981.

Language: English
Descriptors: China
57
Marine shrimp culture principles and practices.
Fast, Arlo Wade; Lester, L. J.
xv, 862 p. : ill., maps ; 25 cm. (Developments in aquaculture and fisheries science ; 23). Includes bibliographical references and index.
Language: English
Descriptors: Shrimp culture

58
Marine shrimp farming a guide to feasibility study preparation.
International Finance Corporation, Aquafood Business Associates (Charleston, S.C.)
Charleston, S.C., USA (P.O. Box 16190, Charleston 29412) : The Associates, ; 1987.
vi, 90 leaves : ill. ; 28 cm. April 1987.
Language: English
Descriptors: Shrimp industry; Shrimp culture; Costs

59
A method on the production of Macrobrachium rosenbergii (de Man) (Udang galah), juveniles in Singapore.
Tay, S.H.; Ng, C.K.
Singapore, Primary Production Department; July 1980.
Descriptors: Singapore

60
Modeling prawn production management system: a dynamic Markov decision approach.
Leung, P.S.; Shang, Y.C.
Language: English
Descriptors: Hawaii; Prawns; Fishery management; Marketing techniques; Markov processes; Computer software; Decision making; Freshwater biology; Market prices; Cost analysis; Econometric models; Dynamic models; Dynamic programming

61
Muddy flavor in pond-cultured marine shrimp.
Lovell, T.
Aquaculture magazine v. 11, i.e.10 (2): p. 34-36; Jan/Feb 1984.

Language: English

62
NAL Call. No.: TP368.F63
New developments in aquaculture (Shrimp, salmon).
Mason, J.F.
Radnor, Pa., Chilton; July 1980.
Food engineering international v. 5 (7): p. 36-37. ill; July 1980.

Descriptors: Costa Rica; Norway

63
NAL Call. No.: GC1000.M34
New machine may breathe new life into Hawaii's prawn farms.
Rappa, P.

Language: English

Descriptors: Hawaii

64
NAL Call. No.: 414.8 B21
Observations on pond growth of Macrobrachium rosenbergii at the Ginosar Fish Culture Station (Israel) in 1978 and 1979.
Arieli, Y.; Sarig, S.; Bejerano, Y.

Language: English

Descriptors: Israel

65
NAL Call. No.: SH307.M32F5 no.42
Observations on the use of some non-algal feeds in the culture of protozoae larvae of penaeid prawn.
Choo, P. S.

Language: English

Descriptors: Shrimps

66
NAL Call. No.: 280.8 J822
Optimal scheduling in shrimp mariculture: a stochastic growing inventory problem.
Hochman, E.; Leung, P.S.; Rowland, L.W.; Wyban, J.A.
Abstract: Appropriate management tools are required for the successful introduction of advanced intensive technology in shrimp mariculture. This paper presents a stochastic dynamic decision model for evaluating the potential of the round pond technology practiced at the Oceanic Institute in Hawaii. The model provides the optimal stocking and harvesting schedules for a shrimp pond using a set of intra- and interseasonal decision rules. These rules are expressed as cutoff revenues when both prices and weights are considered random and as cutoff prices and cutoff weights when only prices or weights are considered random. The pond is not harvested if the current realized revenue is less than the cutoff revenue. The model simulates optimal scheduling using a set of 1986 shrimp prices for the case of random prices. Net profits are approximately doubled using the optimal schedules compared to conventional fixed scheduling schemes. The model also evaluates the economics of controlled environment.
An overview of prawn culture research in Louisiana: 1979-85.
Cange, S.W.; Lamon, M.S.; Avault, J.W. Jr; Perry, W.G.
Louisiana agriculture - Louisiana Agricultural Experiment Station

Language: English

Descriptors: Louisiana; Prawns; Macrobrachium; Shellfish culture

Oxygen transport in shrimp culture ponds.
Garcia, A. III; Brune, D.E.
Paper - American Society of Agricultural Engineers (89-7532): 17
Meeting sponsored by The American Society of Agricultural
Engineers," December 12-15, 1989, New
Orleans, Louisiana. Includes references.

Language: English

Descriptors: Shrimps; Fish culture; Oxygen transport

Pen culture of shrimp in Chilaw, Sri Lanka.
Reyntjens, Dirk
GCP/IAS/118/MUL. Small-Scale Fisherfolk Communities. Executing
Agency : Food and Agriculture Organization of the United Nations.
Funding Agencies : Swedish International Development Authority ;
Danish International Development Agency. Includes
bibliographical references.

Language: English

Pen culture of shrimp in the backwaters of Killai, Tamil Nadu.
Karim, M.
Madras, India : Bay of Bengal Programme, Development of Small-
Scale Fisheries,; 1985.
Bibliography: p. 43-[44].

Language: English

Penaeid shrimp culture in tropical developing countries.
Pedini, M.  
Rome, Food and Agriculture Organization of the United Nations;  

Descriptors: Tropics

74  
D'Abramo, Louis R.  
Mississippi Agricultural and Forestry Experiment Station  
Mississippi State : Mississippi Agricultural & Forestry Experiment Station; 1986; 422.9-IB94.  
5 p. : ill. ; 28 cm. (Information bulletin / Mississippi Agricultural and Forestry Experiment Station ; 94). September 1986.  

Language: English; English  
Descriptors: Shrimp culture; Mississippi; Ponds; Mississippi

75  
Pond-raised shrimp thrive on sugarcane.  
Wood, M.  

Language: English  
Descriptors: Hawaii; Penaeus; Fish feeding; Bagasse; Shrimp culture; Feed formulation

76  
Practical guide book on warm water fish and shrimp culture in Sind., 1st ed. Ahmed, Moinuddin  

Language: English  
Descriptors: Fish-culture; Pakistan; Fisheries; Shrimp culture; Pakistan

77  
Practical manual for semi-intensive commercial production of marine shrimp. Villalon, Jose R.  
Texas A & M University, Sea Grant College Program  
Galveston, Tex. : Texas Sea Grant Program; 1991.  
Includes bibliographical references (p. 103).  

Language: English
Descriptors: Shrimp culture

78 NAL Call. No.: SH299.S4
Prawn culture in Uttara Kannada, Karnataka: an appraisal of the present status and future prospects.
Nagaraj, M.; Neelakantan, B.
Cochin, India: Seafood Exporters Association of India; Jan 1982.
Language: English
Descriptors: Karnataka; India

79 NAL Call. No.: S19.F37
Prawn culture opens new vistas in India coastal areas.
Mazumdar, T.C.
New Delhi, India, Farmers' Parliamentary Forum; Jan 1982.
Language: English
Descriptors: India

80 NAL Call. No.: 464.8 SP2
Prawn farming set for expansion.
Hjul, P.
Language: English
Descriptors: Prawns; Fish farming; Intensification

81 NAL Call. No.: 10 OU8
Prawn farming today: opportunities, techniques, and developments.
Wickins, J.F.
Language: English
Descriptors: Ponds; Prawns; Aquaculture; Farming; Production; Farms; Research; Culture methods; Agricultural development; Techniques

82 NAL Call. No.: SH380.62.A8F72 1987
Prawn Farming Workshop North Coast Agricultural Institute, Wollongbar, 11th December 1987.
New South Wales, Dept. of Agriculture

Language: English
Descriptors: Shrimp culture; Australia; New South Wales; Congresses; Shrimps; Australia; New South Wales; Congresses; Aquaculture; Australia; New South Wales; Congresses

83 NAL Call. No.: SH380.62.P6N3 1984
Prawn industry development in the Philippines proceedings of the National Prawn Industry Development Workshop, 10-13 April 1984, Iloilo City, Philippines.
Southeast Asian Fisheries Development Center, Aquaculture Dept, Philippines, Bureau of Fisheries and Aquatic Resrouces, Philippine Federation of Aquaculturists
100 p. : ill. ; 23 cm. Includes bibliographical references.

Language: English
Descriptors: Shrimp fisheries; Shrimp industry

84 NAL Call. No.: SH1.C65
Prawn production in catfish ponds: proposed strategy and test trials.
Cohen, D.
Aquaculture magazine v. 11,i.e.10 (2): p. 14, 16-18, 20. ill;
Jan/Feb 1984.

Language: English

85 NAL Call. No.: SH299.S4
Prawn seed requirement and its production for farming in India.
Ganapathy, R.
Cochin, India : Seafood Exporters Association of India; Dec 1983.
Seafood export journal v. 15 (12): p. 5-12; Dec 1983.

Language: English
Descriptors: India

86 NAL Call. No.: HD1401.F32 FP91-3
A preliminary comparison of semi-intensive, intensive, and very-intensive production strategies for various sized shrimp farms in Texas.
Lambregts, Johannes Adrianus; Thacker, Sayra G.; Griffin, Wade L.
Texas A & M University, Dept. of Agricultural Economics
College Station, Tex. : Dept. of Agricultural Economics, Texas A&M University, 1991; 2 TA225.7 F119pas no.91-3. 33 leaves, [5] leaves of plates : ill. ; 30 cm. (Faculty paper series ; FP 91-3). Includes bibliographical references (leaves 18-19).

Language: English

Descriptors: Shrimp culture

87 NAL Call. No.: 100 M69MR
Preliminary economic evaluation of freshwater shrimp production in Mississippi.
Clardy, G.N.; Fuller, M.J.; Waldrop, J.E.
Mississippi State, Miss. : The Station; 1985 Oct.
Agricultural economics research report - Mississippi Agricultural and Forestry Experiment Station (159): 46 p.; 1985 Oct. Includes 15 references.

Language: English

Descriptors: Mississippi; Shrimps; Production; Economic evaluation; Costs; Break-even point; Returns

88 NAL Call. No.: 290.9 AM32T
Preliminary investigation of an oyster-shrimp joint production system.
Wang, J.K.; Lam, C.Y.; Jakob, G.S.

Language: English

Descriptors: Hawaii; Oyster culture; Shrimp culture; Aquaculture; Engineering; Water quality; Waste water; Effluents

89 NAL Call. No.: SH299.S4
Principles of scientific prawn farming.
Verghese, P.U.
Cochin, India : Seafood Exporters Association of India; Oct 1983.

Language: English

90 NAL Call. No.: SH380.62.J3S52
Problems in prawn culture =.. Kuruma-ebi (Penaeus japonicus Bate) no yoshoku gijitsu ni kansuru kakumondai
Shigeno, Kunihiko
United States, National Marine Fisheries Service
103 p. : ill. ; 25 cm.. (Aquaculture series no. 19).

Language: ENGLISH

Descriptors: Shrimp culture; Japan

91 NAL Call. No.: SH380.62.C27S5 1984

Language: English; Spanish

Descriptors: Shrimp culture; Caribbean area; Congresses; Shrimp fisheries; Caribbean area; Congresses

92 NAL Call. No.: SH380.62.I45N3 1978
National Symposium on Shrimp Farming (1st 1978 Bombay).; Marine Products Export Development Authority.
Cochin, India Marine Products Export Development Authority; 1980.
vi, 269 p. : ill. ; 25 cm. Organised by the Marine Products Export Development Authority, Cochin, in association with the Central Institute of Fisheries Education, Bombay, the Central Marine Fisheries Research Institute, Cochin and the Central Inland Fisheries Research Institute, Barrackpore. Includes bibliographies.

Language: English

Descriptors: Shrimp fisheries; India; Congresses; Shrimp culture; India; Congresses

93 NAL Call. No.: SH380.6.S63 1992
Producing freshwater shrimp in ponds may be an option on Alabama farms. 

Rouse, D.B. 
Auburn, Ala. : The Station; 1987. 
Highlights of agricultural research - Alabama Agricultural Experiment Station v. 34 (1): p. 4. ill; 1987.

Language: English 
Descriptors: Alabama; Shrimps; Fish farming; Fish production

Production des crevettes d'eau douce manual d'elevage de Macrobrachium rosenbergii [Freshwater prawn farming]. 
New, Michael B.; Singholka, Somsuk 

Language: French 
Descriptors: Shrimp culture; Thailand; Shrimps; Thailand; Macrobrachium rosenbergii

Production of freshwater shrimp. 
Wellborn, T.L. Jr 
State College, Miss. : The Service; 1986. 

Language: English 
Descriptors: Mississippi; Macrobrachium; Shrimp culture; Freshwater; Water composition and quality; Feeding; Diseases; Harvesting; Marketing

Production of second generation penaeid shrimp, Penaeus stylirostris, from Mexico. 
Brown, A. Jr; Tave, D.; Williams, T.D.; Duronslet, M.J.
The production of the freshwater prawn Macrobrachium rosenbergii in Israel. III. Density effect of all-male Tilapia hybrids on prawn yield characters in polyculture. 
Cohen, D.; Ra'anan, Z. 
Amsterdam : Elsevier Scientific Publishing; Sept 1983. 

Progress in selecting an appropriate culture system for a small-scale Macrobrachium rosenbergii (De Man) hatchery. 
Uar, O.B. 
Amsterdam : Elsevier Scientific Publishing; Nov 1983. 

Prospects for penaeid shrimp culture in arid lands. 
Farmer, A.S.D. 
Literature review. Bibliography p. 894-897. 

Prova di accrescimento di Penaeus japonicus Bate (Decapoda, Natantia) in un impianto ittico del meridione [Experimental culture of the Kuruma shrimp (Penaeus japonicus Bate) in a fish farm located in southern Italy]. 
Lumare, F. 
Treviso : Associazione piscicoltori italiana; Apr/June 1982. 
Rivista italiana di piscicoltura e ittiopatologia; Italian review of fish culture and ichthyologic pathology v. 17 (2): p. 73-74, 77-80, 83. maps; Apr/June 1982. Includes references. 

Language: English; Italian
Descriptors: Italy

102  NAL Call. No.: SH299.M3
Proven technology. 4. Hatchery technology for mass production of marine prawn seeds.
Cochin : Central Marine Fisheries Research Institute; Feb 1983.
Language:  English

103  NAL Call. No.: SH299.M3
Proven technology--induced maturation of prawns for production of spawners for hatcheries (Penaeus indicus).
Cochin : Central Marine Fisheries Research Institute; Oct 1982.
Language:  English

104  NAL Call. No.: SF1.A833 no.1
Recent developments in prawn pond culture.
Apud, F. D.
Language:  English

105  NAL Call. No.: 281.9 M692
A records program for catfish and shrimp production; financial data and management decisions for IBM PC and compatible microcomputers.
Killcreas, W.; Ishee, S.; Wilkes, N.; McWilliams, D.; Leng, J.; Wolfe, W.; Waldrop, J.
Mississippi State : The Station; 1985 Sep.
Agricultural economics technical publication - Mississippi Agricultural and Forestry Experiment Station (55): 80 p.; 1985 Sep. Includes 3 references.
Language:  English

Descriptors: Mississippi; Shrimps; Production; Finance; Management; Microcomputers; Computer software

106  NAL Call. No.: S542.B7E43
Rendimento economico da criacao de camaroes marinhos comparado com o de outras atividades [Economic yield from marine shrimp (Penaeus brasiliensis and penaeus paulensis) production as compared with other activities (Rio de
Reproductive cycle and female breeding dress in the freshwater prawn Macrobrachium australiense Holthuis, 1950 (Crustacea: Decapoda: Palaemonidae) (Possible aquaculture species, Australia).
Lee, C.L.; Fielder, D.R.

Language: English
Descriptors: Freshwater; Australia

The role of formula feeds and natural productivity in culture of the prawn, Macrobrachium rosenbergii.
Fair, P.H.; Portner, A.R.
Amsterdam, Elsevier Scientific Publishing; June 1981.

Language: English

Salmonella and Vibrio cholerae in brackishwater cultured tropical prawns. Reilly, P.J.A.; Twiddy, D.R.

Language: English
Descriptors: Salmonella; Vibrio; Prawns

Abstract: The occurrence of Salmonella and Vibrio cholerae in brackishwater ponds was monitored over a 2-year period in one of the major prawn exporting countries in Southeast Asia. The principal production areas were identified and regular samples taken for Salmonella and V. cholerae analysis. Results demonstrated that brackishwater ponds and cultured prawns were inherently contaminated with both bacterial pathogens. Salmonella spp. were present in 16.0% of prawns and 22.1% of mud/water samples from ponds; and V. cholerae present in 1.5% of prawns and 3.1% of mud/water samples. Culturing by intensive methods tended to favour contamination by these pathogens, which is most likely
due to the accumulation of waste and increase in the volume of sediments in ponds. Typical environmental factors such as water temperature, pH, and salinity were all favourable for growth of microorganisms. The incidence of the pathogens increased during the wet season and was marginally higher when ponds were located close to urban areas. S. weltevreden was identified as the principal serotype found in ponds, and to a lesser extent S. anatum (11%) S. wandsworth (8%) and S. potsdam (8%). The V. cholerae belonged to the non-O1 serogroup.

110 NAL Call. No.: SH295.S682 no.9
Selection of marine shrimp for culture.
Bangkok, Thailand : The Secretariat, Southeast Asian Fisheries Development Center,; 1984.
Language: English

111 Sensory characteristics of oysters, clams, and cultured and wild shrimp. Edmunds, William J.; Lillard, D.A.
Chicago, Institute of Food Technologists; Mar/Apr 1979.
Language: ENGLISH
Descriptors: Seafood; Sensory appraisal; Taste panels; Clams; Shrimp; Shellfish; Vocabulary; Texture; Odor

Abstract: An 18 member panel identified 22 descriptive terms for the sensory evaluation of clams and shrimp, and 29 terms for oysters. The descriptive vocabulary that was developed for shrimp was used to determine sensory differences between wild and cultured shrimp and the effect of size on the sensory properties of shrimp. The cultured shrimp were judged as good or better than wild shrimp. Large shrimp were scored as having a better texture than small shrimp. The descriptive terms are listed.

112 NAL Call. No.: FICHE S-72
Shared resources aquatic production systems.
Wang, J.
Language: English
Descriptors: Hawaii; Shrimp culture; Oyster culture; Production
Abstract: The shrimping industry has traditionally been one of Mexico's most important sectors, however, its importance in the nation's economy and in the world market has declined over the past 15 years. The internal rates of return on shrimp aquaculture projects in Mexico are shown to be significantly positive for both extensive and semi-intensive technologies. The Mexican government is betting on the private sector to develop a shrimp-farming industry. The lesson being learned in Mexico is similar to that being learned by other economies in which state intervention has been ubiquitous: there is no quick fix to the tensions between a well articulated social policy and the need for a more dynamic, albeit self-centered, private sector.
vi, 235 p. : ill. ; 24 cm. (Advances in world aquaculture ; v. 4). Includes bibliographical references.

Language: English
Descriptors: Shrimp culture

117 NAL Call. No.: HG2051.I4A3
Shrimp culture--the need of the hour (Brackish waters, fish culture, India). New Delhi : S.R. Suneja; July/Sept 1983.

Language: English
Descriptors: India

118 NAL Call. No.: SH1.G8
Shrimp farming: a business today; profits and problems (Ecuador). Shayne, P.

Descriptors: Ecuador

119 NAL Call. No.: SH380.62.U5S57
Shrimp farming in the United States.. Aquaculture digest's
Shrimp farming in the United States

Language: English
Descriptors: Shrimp culture

120 NAL Call. No.: SH380.62.U6P57 1989
Shrimp farming in the United States bonanza of black hole, Fish Farming Expo-III, New Orleans, Louisiana, Shrimp Farming Seminar, December 9, 1989, 8:00 to 10:00 A.M.

Language: English
Descriptors: Shrimp fisheries
121 Shrimp mariculture. Shrimp mariculture, an overview
Lawrence, Addison L.; Chamberlain, George W.; Hutchins, David L.
Texas A & M University, Sea Grant College Program
College Station, Tex. : Texas A & M University, Sea Grant College
Program, 1981.
8 p. : ill. ; 28 cm. (TAMU-SG (Series) ; 82-503.). "A
cooperative project of the Texas A&M University Sea Grant College
Program, Texas Agricultural Experiment Station, Texas
Agricultural Extension Service and the Department of Wildlife and
Fisheries S. Cover title: Shrimp mariculture, an overview.
Bibliography: p. 8-[9].
Language: English
Descriptors: Shrimp culture; Texas

122 Shrimp mariculture general information and commercial status
(Penaeus, USA). Lawrence, A.L.; Chamberlain, G.W.; Hutchins, D.L.
College Station : Texas A&M Univ., Sea Grant College Program,
1981; 1981. Proceedings of the Sixth Annual Tropical and
Subtropical Fisheries Technological Conference of the Americas,
II. p. 20-24; 1981.
Language: English
Descriptors: USA

123 Shrimp mariculture state of the art.
Lawrence, Addison L.; Johns, Michael A.; Griffin, Wade L.
Texas A & M University, Sea Grant College Program
College Station : Texas A & M University, Sea Grant College
Program, 1983. 12 leaves : ill. ; 28 cm. (TAMU-SG (Series) ;
84-502.). Grant
Language: English
Descriptors: Shrimp culture; Texas

124 A simplified hatchery technique for mass production of penaeid
prawn seed using formula feed (Penaeus indicus).
Mohamed, K.H.; Muthu, M.S.; Pillai, N.N.; Ali, S.A.; Pandian,
S.K.
Cochin : Indian Council of Agricultural Research; 1983.
Includes references.
Language: English
125 NAL Call. No.: SH156.T32 1990
Standard methods for the nutrition and feeding of farmed fish and shrimp. Tacon, Albert G. J.
3 v. in 1 : ill. ; 28 cm. + 3 packets of product flyers.
Includes
bibliographical references.
Language: English
Descriptors: Fishes; Shrimps

126 NAL Call. No.: Z5973.S5S93
Sugpo and other Philippine penaeids a classified list of materials available at the SEAFDEC Aquaculture Department Library.
ix, 128 p. ; 25 cm. (Bibliography series (Southeast Asian Fisheries Development Center. Aquaculture Dept.) ; no. 4.). Includes indexes.
Language: English; English
Descriptors: Penaeus monodon; Bibliography; Catalogs; Shrimp culture; Philippines; Bibliography; Catalogs; Shrimp fisheries; Philippines; Bibliography; Catalogs; Penaeidae; Bibliography; Catalogs

127 NAL Call. No.: SH323.F6
Summary of studies relating coastal climatological factors and commercial shrimp production, southeastern United States (Penaeus).
Witzell, W.N.; Allen, D.M.
Language: English; French; Spanish
Descriptors: South Eastern States (USA)

128 NAL Call. No.: FICHE S-72
Surface aerator design for aquaculture and mariculture.
Rogers, G.L.; Fast, A.W.
American Society of Agricultural Engineers (Microfiche collection) (fiche no. 86-5044): 20 p. ill; 1986. Paper
presented at the 1986 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. Includes references.

Language: English

Descriptors: Shrimp culture; Surface areas; Aeration; Design; Models

129 NAL Call. No.: SH299.M3

Language: English

Descriptors: India

130 NAL Call. No.: TP156.F5K56
System analysis and design of biofilters for the three components of macrobrachium production.
Klemetson, Stanley L.; Cohen, Dan

Language: English

Descriptors: Water; Purification; Filtration; Shrimp culture

131 NAL Call. No.: SH380.6.T43

Language: English

Descriptors: Shrimp culture; Technique

132 NAL Call. No.: aHD1401.A2U52
Technology boosts shrimp farming.
Vocke, G.; Harvey, D.

Language: English

Descriptors: Shrimps; Seafoods; Technology; Food production

133 NAL Call. No.: SH380.62.U5T49
Texas shrimp farming manual an update on current technology.
Chamberlain, George W.; Haby, Michael G.; Miget, L. J.
Texas Agricultural Extension Service, Texas A & M University, Sea Grant College Program

Language: English

Descriptors: Shrimp culture; Texas

134 NAL Call. No.: 421 J826
Trematode metacercarial infection of cultured giant freshwater prawns, Macrobrachium rosenbergii.
Nash, G.

Language: English

Descriptors: Thailand; Prawns; Freshwater molluscs; Infection; Metacercariae; Trematoda; Aquaculture; Ponds

135 NAL Call. No.: 25973.S5P78 1992
U.S. marine shrimp farming program an annotated bibliography of Consortium sponsored publications.
Pruder, Gary D.
Gulf Coast Research Laboratory Consortium
Honolulu, HI : Gulf Coast Research Laboratory Consortium, Coordination Office, The Oceanic Institute; 1992. iv, 96 p. ; 28 cm. Includes index.

Language: English

Descriptors: Shrimp culture

136 NAL Call. No.: SH1.C65
U.S./Israeli effort in Macrobrachium production yields dividends for both (Freshwater prawn).
Lynch, T.
Language: English
Descriptors: USA; Israel

Utilizzazione di scarichi termici in crostaceicoltura, rapporto tra tasso di accrescimento e "carrying capacity" [Shrimp farming in thermal effluents. Relationship between carrying capacity and growth rate].
Palmegiano, G.; Saroglia, M.G.
Societa italiana di biologia marina.
Pisa, La Societa; 1979 (pub. 1980).
Descriptors: Italy

Includes references.
Language: English
Descriptors: Prawns; Vibrio; Vibrio cholerae; Foodborne diseases; Fish culture; Virulence; Bacterial toxins; Bacterial count; Rice; Food microbiology

Abstract: During a 6-month survey, 131 prawn samples belonging to five different species cultured in paddy fields were examined for the presence of Vibrio cholerae and related vibrios associated with human disease. Non-01 V. cholerae was the most common Vibrio species associated with the prawn samples followed by V. parahaemolyticus, V. mimicus, V. vulnificus and V. alginolyticus, in that order. V. cholerae non-01 appeared to constitute the normal microflora of prawns and this association was not limited by salinity. Examination of a representative number of V. cholerae and V. parahaemolyticus isolates for established virulence factors revealed that none of the V. cholerae strains possessed genes that were homologous with cholera-toxin genes and none produced a heat stable enterotoxin while none of the V. parahaemolyticus isolates were Kanagawa phenomenon-positive and most of the strains were untypeable. The presence of such high numbers of vibrios in paddy field cultured
prawn samples and its impact on the bacteriological quality of prawns destined for human consumption needs critical assessment.

139 NAL Call. No.: SH380.6.W68 1992
World shrimp culture.
United States, Office of International Fisheries Affairs
Silver Spring, Md. : National Marine Fisheries Service, National
v. : ill., maps ; 28 cm. (NOAA tech. memo. NMFS-F/SPO ; 5, etc.).
references.

Language:  English

Descriptors: Shrimp culture

140 NAL Call. No.: SH380.6.W67
World shrimp farming.. World shrimp farming (Annual report)
World shrimp farming. v. : ill., maps ; 22 cm; 1989-9999.  Title
from cover.

Language:  English

Descriptors: Shrimp culture; Periodicals

141 NAL Call. No.: SH380.6.W672
World shrimp farming a bimonthly report on shrimp and prawn
farming.. World shrimp farming (Bimonthly report)
World shrimp farming. v. ; 22 cm; 1989-9999.  Description based
on: Vol. 15, no. 1 (Jan. 1990); title from cover.

Language:  English; English

Descriptors: Shrimp culture; Periodicals

142 NAL Call. No.: SH1.A6
Yield characteristics of the prawn Macrobrachium rosenbergii in
temperate zone aquaculture.
Brody, T.; Cohen, D.; Barnes, A.; Spector, A.
Amsterdam, Elsevier Scientific Publishing; Dec 1980.

Language:  ENGLISH

=====================================================================

AUTHOR INDEX

Acosta C., Juan Ramon 29
Adams, C.M. 1
Ahmed, Moinuddin 76
<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ali, S.A.</td>
<td>124</td>
</tr>
<tr>
<td>Allen, D.M.</td>
<td>127</td>
</tr>
<tr>
<td>Allen, Donald M.</td>
<td>114</td>
</tr>
<tr>
<td>Apud, F. D.</td>
<td>104</td>
</tr>
<tr>
<td>Arding, Jan E.</td>
<td>28</td>
</tr>
<tr>
<td>Arieli, Y.</td>
<td>64</td>
</tr>
<tr>
<td>Avault, J.W. Jr</td>
<td>20, 69</td>
</tr>
<tr>
<td>Balasundaram, C.</td>
<td>48</td>
</tr>
<tr>
<td>Barnes, A.</td>
<td>142</td>
</tr>
<tr>
<td>Bauer, L.L.</td>
<td>16, 24</td>
</tr>
<tr>
<td>Bay of Bengal Programme, Development of Small-Scale Fisheries</td>
<td>7</td>
</tr>
<tr>
<td>Bejerano, Y.</td>
<td>64</td>
</tr>
<tr>
<td>Belle W. Baruch Institute for Marine Biology and Coastal Research, Universidad Catolica Madre y Maestra</td>
<td>91</td>
</tr>
<tr>
<td>Bhadra, R.K.</td>
<td>138</td>
</tr>
<tr>
<td>Borlongan, E.</td>
<td>27</td>
</tr>
<tr>
<td>Brackishwater Aquaculture Information System</td>
<td>6</td>
</tr>
<tr>
<td>Brahmanonda, P.</td>
<td>52</td>
</tr>
<tr>
<td>Brick, R.E.</td>
<td>1</td>
</tr>
<tr>
<td>Brick, Robert W.</td>
<td>34</td>
</tr>
<tr>
<td>Brody, T.</td>
<td>142</td>
</tr>
<tr>
<td>Brown, A. Jr</td>
<td>97</td>
</tr>
<tr>
<td>Brune, D.E.</td>
<td>70</td>
</tr>
<tr>
<td>Cange, S.W.</td>
<td>69</td>
</tr>
<tr>
<td>Ceccaldi, H. J.</td>
<td>40</td>
</tr>
<tr>
<td>Central Marine Fisheries Research Institute</td>
<td>14</td>
</tr>
<tr>
<td>Ch'en, Kuang-hui</td>
<td>13</td>
</tr>
<tr>
<td>Chamberlain, G.W.</td>
<td>122</td>
</tr>
<tr>
<td>Chamberlain, George W.</td>
<td>93, 121, 133</td>
</tr>
<tr>
<td>Chang, L.W.</td>
<td>32</td>
</tr>
<tr>
<td>Chi, Ch'eng-lin</td>
<td>13</td>
</tr>
<tr>
<td>Chiu, Yvonne N.</td>
<td>131</td>
</tr>
<tr>
<td>Choo, P. S.</td>
<td>65</td>
</tr>
<tr>
<td>Clardy, G.N.</td>
<td>87</td>
</tr>
<tr>
<td>Cohen, D.</td>
<td>84, 98, 142</td>
</tr>
<tr>
<td>Cohen, Dan</td>
<td>130</td>
</tr>
<tr>
<td>Cunha, H.</td>
<td>106</td>
</tr>
<tr>
<td>D'Abramo, Louis R.</td>
<td>74</td>
</tr>
<tr>
<td>Davis, James T.</td>
<td>34</td>
</tr>
<tr>
<td>Dillard, J.G.</td>
<td>23</td>
</tr>
<tr>
<td>Duronslet, M.J.</td>
<td>97</td>
</tr>
<tr>
<td>Dwivedi, S.N.</td>
<td>49</td>
</tr>
<tr>
<td>Edmunds, William J.</td>
<td>111</td>
</tr>
<tr>
<td>Eldani, A.</td>
<td>26</td>
</tr>
<tr>
<td>Fair, P.H.</td>
<td>108</td>
</tr>
<tr>
<td>Farmer, A.S.D.</td>
<td>100</td>
</tr>
<tr>
<td>Fassler, C.R.</td>
<td>43</td>
</tr>
<tr>
<td>Fast, A.W.</td>
<td>128</td>
</tr>
<tr>
<td>Fast, Arlo Wade</td>
<td>57</td>
</tr>
<tr>
<td>Fernandes, S.G.</td>
<td>106</td>
</tr>
<tr>
<td>Fielder, D.</td>
<td>4</td>
</tr>
<tr>
<td>Fielder, D.R.</td>
<td>107</td>
</tr>
<tr>
<td>Flint, R.W.</td>
<td>45</td>
</tr>
<tr>
<td>Food and Agriculture Organization of the United Nations</td>
<td>38, 95</td>
</tr>
<tr>
<td>Fortner, A.R.</td>
<td>108</td>
</tr>
<tr>
<td>Fulks, Wendy</td>
<td>19</td>
</tr>
<tr>
<td>Fuller, M.J.</td>
<td>23, 87</td>
</tr>
</tbody>
</table>
Ganapathy, R. 85
Garcia, A. III 70
George, M.J. 12, 129
Goodwin, H. L. 3
Grant, Valvy N. 53
Griffin, W.L. 1, 25
Griffin, Wade L. 86, 123
Gulf Coast Research Laboratory Consortium 135
Haby, Michael G. 133
Hanson, Joe A. 3
Harvey, D. 132
Hawaii, Aquaculture Development Program 39
Hayes, Annette 42
Higman, James B. 114
Hjul, P. 80
Hochman, E. 66
Houston, J.E. 46
Huner, J.V. 20
Huron, J.M. 67
Hutchins, D.L. 122
Hutchins, David L. 121
Iftekhar, M. 49
International Finance Corporation, Aquafood Business Associates
(Charleston, S.C.) 58
Ishee, S. 105
Iversen, Edwin S. 114
Jakob, G.S. 88
Jedlicka, A.D. 51
Jenkins, W.E. 24
Johns, Michael A. 123
Johnson, William C. 42
Juliano, Rogelio O. 131
Kakati, V.S. 129
Karim, M. 7, 72
Kenmuir, D. 37
Killcreas, W. 105
Klemetson, S.L. 30
Klemetson, Stanley L. 130
Kuan, W.Y. 32
Lam, C.Y. 88
Lambregts, Johannes Adrianus 86
Lamon, M.S. 69
Lawrence, A.L. 122
Lawrence, Addison L. 47, 121, 123
Laxminarayana, A. 50
Lee, C.L. 107
Leng, J. 105
Lester, L. J. 57
Leung, P.S. 60, 66
Lillard, D.A. 111
Lovell, T. 61
Lumare, F. 8, 101
Lynch, T. 136
Maguire, G.B. 17
Main, Kevan L. 19
Manickaraja, M. 31
Marichamy, R. 35
Marine Products Export Development Authority. 92
Mason, J.F. 62
Mazumdar, T.C. 79
McWilliams, D. 105
Miget, L. J. 133
Miller, M. 113
Mississippi Agricultural and Forestry Experiment Station 74
Mohamed, K.H. 124
Montanez, J.L. 23
Muthu, M.S. 50, 124
Nagaraj, M. 78
Nair, G.B. 138
Nalini, C. 129
Nash, G. 134
National Symposium on Shrimp Farming (1st 1978 Bombay). 92
Neelakantan, B. 78
New South Wales, Dept. of Agriculture 82
New, Michael B. 44, 95
New, Michael B., 38
Ng, C.K. 59
Nichols, J.P. 1
Nieto, A. 46
Odum, Howard T., 28
Oliver, C. 25
Pal, S.C. 138
Palmegiano, G. 137
Palmegiano, G.B. 5
Pandian, S.K. 124
Pandian, T.J. 48
Pascual, F. P. 36
Pedini, M. 73
Perry, W.G. 20, 69
Pillai, N.N. 124
Primavera, J.H. 26, 27
Pruder, Gary D. 135
Pudadera, R.A. 27
Ra'anana, Z. 98
Rabalais, N.N. 45
Rajapackiam, S. 35
Ramamurthy, S. 31
Ramamurthy, T. 138
Ramesh, A. 138
Rankin, P.S. 55
Rappa, P. 63
Rappaport, A. 51
Reilly, P.J.A. 109
Reyntjens, Dirk 71
Rhodes, Raymond J. 53
Roberts, K.J. 16
Robichaux, D.M. 54
Rogers, G.L. 30, 128
Rouse, D.B. 94
Rowland, L.W. 66
Royan, J.P. 21
Samocha, Tzachi 47
Sandifer, P.A. 24
Sandifer, Paul A. 116
Santos, Leonor M. 131
Sarig, S. 64
Saroglia, M.G. 137
Shang, Y.C. 60
Shang, Yung-Cheng, 39
Shayne, P. 118
Shigeno, Kunihiko 90
Shklov, J.M. 43
Shrimp Aquaculture in the Caribbean Basin: Prospects and Constraints (1984 : Puerta Plata, Dominican Republic) 91
Singhokla, Somsuk 38, 95
Skeel, M.E. 17
Smith, T.I.J. 24
Societa italiana di biologia marina. 137
Soeseno, Slamet 10
Sorgeloos, P. 9
South Carolina, Economic Analysis and Seafood Marketing Program 53
Southeast Asian Fisheries Development Center, Aquaculture Dept, Philippines, Bureau of Fisheries and Aquatic Resources, Philippine Federation of Aquaculturists 83
Southeast Asian Fisheries Development Center. Aquaculture Dept. Library, Documentation, Technical Services 126
Spector, A. 142
Spotts, D. 22
Suseelan, C. 12, 129
Tacon, Albert G. J. 125
Tave, D. 97
Tay, S.H. 59
Texas A & M University, Dept. of Agricultural Economics 86
Texas A & M University, Sea Grant College Program 77, 121, 123
Texas Agricultural Extension Service 34
Texas Agricultural Extension Service, Texas A & M University, Sea Grant College Program 133
Thacker, Saira G. 86
Thailand, Krom Pramong 44
Thain, B. 56
Thomas, J.E. 106
Thomas, M.M. 129
Thompson, R.K. 67
Tolman, D. 25
Trotta, P. 5
Twiddy, D.R. 109
Uar, O.B. 99
United States, National Marine Fisheries Service 68, 90
United States, National Oceanic and Atmospheric Administration 19
United States, Office of International Fisheries Affairs 139
United States-Israel Binational Agricultural Research and Development Fund 47, 130
University of Rhode Island, Coastal Resources Center 28
Valenti, Wagner Cotroni 18
Varikul, Vanich 115
Verghese, P.U. 89
Vernberg, P. John, 91
Vieira, Marcio Infante, 11
Villalon, Jose 93
Villalon, Jose R. 77
Vocke, G. 132
Waldrop, J. 105
Waldrop, J.E. 87
Wang, J. 112
Wang, J.K. 2, 54, 88
Wellborn, T.L. Jr 96
West, D.C. 67
Wickins, J.F. 81
Wilkes, N. 105
Williams, T.D. 97
Williamson, M.R. 2
Wisely, B. 17
Witzell, W.N. 127
Wolfe, W. 105
Wood, M. 75
World Aquaculture Society, Ralston Purina International 93
Wulff, R.E. 41
Wyban, George 93
Wyban, J.A. 66

SUBJECT INDEX

Aeration 128
Agricultural development 81
Alabama 94
Aquaculture 14, 68, 81, 82, 88, 113, 134
Arid Zone 100
Australia 82, 82, 82, 107
Bacterial count 138
Bacterial toxins 138
Bagasse 75
Bibliography 126, 126, 126, 126
Brazil 11, 18, 106
Break-even point 87
Cabi 25
Caribbean area 91, 91
Catalogs 126, 126, 126, 126
China 56
Clams 111
Coastal fisheries 46
Computer software 60, 105
Congresses 19, 19, 44, 44, 82, 82, 82, 91, 91, 92, 92
Construction 43
Cooperative farming 113
Cost analysis 60
Cost benefit analysis 113
Costa Rica 62
Costs 58, 87
Culture methods 81
Data analysis 23
Decision making 60
Design 128
Development policy 113
Diseases 96
Dynamic models 60
Dynamic programming 60
East Asia 19
Econometric models 60
Economic analysis 23
Economic evaluation 87
Economic impact 25, 46
Economic situation 46
Ecuador 118
Effluents 88
Engineering 88
Equipment 54
Farming 81
Farms 81
Feed formulation 75
Feeding 33, 96
Filtration 130
Finance 105
Fish culture 70, 138
Fish farming 43, 80, 94
Fish feeding 75
Fish industry 113
Fish ponds 10, 43
Fish production 46, 94
Fish-culture 10, 76
Fisheries 76
Fishery management 25, 43, 60
Fishery products 68
Fishes 47, 125
Food microbiology 138
Food production 132
Foodborne diseases 138
Fresh water 96
Freshwater 107
Freshwater biology 60
Freshwater molluscs 134
Geothermal resources 42
Great basin and pacific slope 46
Gulf of Mexico 25
Harvest date 66
Harvesting 33, 96
Hawaii 43, 60, 63, 66, 75, 88, 112
Hong Kong 55
Imports 46
India 12, 14, 14, 31, 35, 49, 50, 78, 79, 85, 92, 92, 117, 129
Indonesia 10, 10, 10
Infection 134
Intensification 80
Investment 113
Investment requirements 23
Israel 64, 98, 136
Italy 101, 137
Japan 22, 90
Karnataka 78
Land ownership 113
Larvae 47, 47
Latin America 41
Legislation 113
Limiting factors 112
Louisiana 69
Macrobrachium 33, 44, 69, 96
Macrobrachium rosenbergii 23, 38, 39, 95
Mail surveys 53
Maintenance 43
Management 23, 105
Market prices 60
Marketing 68, 96
Marketing techniques 60
Markov processes 60
Metacercariae 134
Mexico 51, 97, 113
Microcomputers 105
Mississippi 74, 74, 87, 96, 105
Models 1, 128
New South Wales 82, 82, 82
Nitrogen 54
North eastern states of U.S.A. 46
Norway 62
Odor 111
Operating costs 23
Optimization 66
Oxygen transport 70
Oyster culture 88, 112
Oysters 54
Pakistan 76, 76
Peasant farming 113
Penaeidae 47, 126
Penaeus 75, 97
Penaeus monodon 6, 126
Peninsular Malaysia 32
Periodicals 140, 141
Philippines 6, 27, 126, 126
Physiology 6
Ponds 23, 33, 74, 81, 134
Prawns 43, 60, 69, 80, 81, 109, 134, 138
Production 81, 87, 105
Production costs 112
Production economics 112
Production potentials 1
Profitability 66, 113
Purification 130
Research 23, 81
Returns 87, 113
Rice 138
Salmon 68
Salmon industry 68
Salmonella 109
Scheduling 66
Seafood 111
Seafoods 132
Sensory appraisal 111
Shellfish 1, 111
Shellfish culture 69
Shrimp 111
Shrimp culture 6, 6, 10, 11, 13, 14, 18, 19, 19, 28, 33, 34, 38, 39, 44, 57, 58, 74, 75, 76, 77, 82, 86, 88, 90, 91, 92, 93, 95,
For further information: