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SS1 TILAPIA OR OREOCHROMI? OR SAROTHERODON

4

NAL Call. No.: SH151.S62

Cage culture of Tilapia.

McGinty, A.S.; Rakocy, J.E.

Ada, Okla. : Southern Regional Aquaculture Center; 1989 Jul. SRAC publication (281): 4 p. ill; 1989 Jul.

Language: English

Descriptors: Southern states of U.S.A.; Tilapia; Fish culture; Feeding; Cages; Construction; Design; Placement; Site selection

5

NAL Call. No.: QL638.C55H84 1991 A

causal ethological analysis of the display of variable colour patterns in the fish Tilapia zillii (Cichlidae).

Hulscher-Emeis, Tine Marian,

Groningen? : Rijksuniversiteit Groningen?, 1991?; 1991.

131 p. : ill. ; 24 cm. Stellingen inserted. Summary in Dutch.

Includes bibliographical references (p. 119-126).

Language: English

Descriptors: Tilapia zillii; Display behavior in animals

6

NAL Call. No.: RA1270.P35A1

Changes in erythropoietic activity of Sarotherodon mossambicus exposed to sublethal concentrations of the herbicide diuron.

Reddy, D.C.; Vijayakumari, P.; Kalarani, V.; Davies, R.W. New York, N.Y. : Springer-Verlag; 1992 Nov.

Bulletin of environmental contamination and toxicology v. 49 (5): p. 730-737; 1992 Nov. Includes references.

Language: English

Descriptors: Diuron; Oreochromis mossambicus; Nontarget organisms; Sublethal effects; Toxicity; Exposure; Erythropoiesis; Blood picture; Oxygen consumption; Enzymes

7

NAL Call. No.: 290.9 AM32P

Commercial tilapia production in a water reuse system.

Rosati, R.; O'Rourke, P.; Henry, R.D.

St. Joseph, Mich. : The Society; 1989.

Paper - American Society of Agricultural Engineers (89-7531): 7 p.; 1989. Paper presented at the "1989 International Winter

Meeting sponsored by The American Society of Agricultural Engineers," December 12-15, 1989, New Orleans, Louisiana.

Includes references.

Language: English

Descriptors: Aquaculture; Engineering; Water reuse

8

NAL Call. No.: FULD1780 1990.G312

Costs and configurations of alternative Tilapia production systems. Geiger, Russell A., 1990; 1990.
x, 139 leaves : ill., photos ; 28 cm. Vita. Includes bibliographical references (leaves 93-95).

Language: English; English

Descriptors: Tilapia; Fish-culture

9 NAL Call. No.: SH167.T54C84 1992
Culture of hand-selected male tilapia.
Auburn University, International Center for Aquaculture and Aquatic Environments
Auburn, Ala. : International Center for Aquaculture and Aquatic Environments, Auburn University, [1992?]; 1992.
5 p. : ill. ; 28 cm. (Water harvesting and aquaculture for rural development). Cover title.

Language: English

Descriptors: Tilapia; Fish-culture; Fish ponds

10 NAL Call. No.: RA1270.P35A1
Effect of cadmium on blood of tilapia, *Oreochromis mossambicus* (Peters), during prolonged exposure.
Ruparelia, S.G.; Verma, Y.; Saiyed, S.R.; Rawal, U.M.
New York, N.Y. : Springer-Verlag; 1990 Aug.
Bulletin of environmental contamination and toxicology v. 45 (2): p. 305-312; 1990 Aug. Includes references.

Language: English

Descriptors: Tilapia; Cadmium; Toxicity; Blood analysis

11 NAL Call. No.: RA1270.P35A1
Effects of paraquat and lead on fish *Oreochromis hornorum*. Arias, G.S.; Martinez-Tabche, L.; Galar, I.
New York, N.Y. : Springer-Verlag; 1991 Feb.
Bulletin of environmental contamination and toxicology v. 46 (2): p. 237-241; 1991 Feb. Includes references.

Language: English

Descriptors: Paraquat; Lead; Tilapia; Liver; Gills; Cell membranes; Lipid peroxidation; Carbonate dehydratase; Enzyme activity; Cytotoxicity; Cytotoxic compounds

12 NAL Call. No.: QD241.T6
Enzymatic and cellular level effects of nickel.
Sivalingam, P.M.; Billet, R.
London : Gordon and Breach Science Publishers; 1989.
Toxicological and environmental chemistry v. 18 (4): p. 311-317.

ill; 1989. Includes references.

Language: English

Descriptors: Tilapia; Liver cells; Enzyme activity; Nickel; Acid phosphatase; Alkaline phosphatase; Catalase; Glucose-6-phosphatase; In vivo; In vitro; Adipocytes; Glycogen; Depletion; Mitochondria; Lysosomes; Cell membranes; Electron microscopy

13

NAL Call. No.: 389.8 J82

Estimation of the niacin requirements for tilapia fed diets containing glucose or dextrin.

Shiau, S.Y.; Suen, G.S.

Bethesda, Md. : American Institute of Nutrition; 1992 Oct. The Journal of nutrition v. 122 (10): p. 2030-2036; 1992 Oct.

Includes references.

Language: English

Descriptors: Tilapia; Diet; Glucose; Dextrins; Nutrient requirements; Nicotinic acid

Abstract: Two 12-wk experiments were conducted to determine the adequate dietary niacin levels for juvenile hybrid tilapia, *Oreochromis niloticus* X *O. aureus*, when diets containing either 38% D(+)-glucose or 38% dextrin (type III, from corn) as the carbohydrate source were fed. In Experiment 1, we used 0, 40, 80, 120, 160 and 200 mg/kg of supplemental niacin in both the glucose-and dextrin-containing diets. In Experiment 2, 0, 10, 25, 40 and 55 mg/g or 0, 10, 25, 40, 80, 120 and 160 mg/kg of supplemental niacin was incorporated in diets containing glucose or dextrin, respectively. In both experiments, fish fed niacin-deficient diets grew poorly. They developed skin, fin and mouth lesions and hemorrhages; the snout was deformed and there was gill edema. These pathologies began 6 wk after the experiments started. Plasma glucose concentrations were higher in fish fed glucose diets than those fed dextrin diets. Weight gain analyzed by broken-line regression indicated that the adequate dietary niacin level for maximal growth in rapidly growing tilapia fingerlings is 26 mg/kg in fish fed the glucose diet and 121 mg/kg in fish fed the dextrin diet.

14

NAL Call. No.: TD172.J61

Haptor glands in the gill-parasitic, ancyrocephaline monogenean *Cichlidogyrus halli typicus* and the report of a possible prokaryotic symbiont. El-Naggar, M.M.; Kearns, G.C.

New York, N.Y. : Marcel Dekker; 1989 Jul.

Journal of environmental science and health : Part B :

Pesticides, food contaminants, and agricultural wastes v. 19 (4): p. 401-408. ill; 1989 Jul. Includes references.

Language: English

Descriptors: Egypt; Tilapia; Freshwater fishes; Gills; Infection; Monogenea; Glands (animal); Symbionts

15 NAL Call. No.: S183.V5V54
Hydroponic lettuce production in a recirculating fish culture system. Rakocy, J.E.
St. Croix, U.S. Virgin Islands : Univ. of the Virgin Islands, Agric. Exp. Stn; 1988-1989.
Island perspectives v. 3: p. 4-10; 1988-1989.

Language: English

Descriptors: United states virgin Islands; Lactuca sativa; Tilapia; Hydroponics; Fish culture; Integrated systems

16 NAL Call. No.: SH151.P66 1988
Incorporating cage culture into an aquaculture training program. Pope, Robert
Florida, Dept. of Agriculture and Consumer Services, Division of Marketing, Aquaculture Marketing Development Aid Program (Fla.) Tallahassee, Fla. : Florida Dept. of Agriculture and Consumer Services, Division of Marketing : available from Aquaculture Program, [1988?]; 1988. 12 p. : ill. ; 28 cm. (Aquaculture report series). Funds for this project were made available through the Aquaculture Market Development Aid Program 1987-88.

Language: English

Descriptors: Fish-culture; Fish ponds; Aquaculture; Channel catfish; Tilapia

17 NAL Call. No.: SH151.I574 1992
Introduction to Oreochromis niloticus fingerling production systems. Auburn University, International Center for Aquaculture and Aquatic Environments
Auburn University, Ala. : The Center, [1992?]; 1992. 6 p. : ill. ; 29 cm. (Water harvesting and aquaculture for rural development). Cover title.

Language: English

Descriptors: Fish-culture; Tilapia

18 NAL Call. No.: SH167.T54I57
Introduction to tilapia culture. Auburn University, International Center for Aquaculture
Auburn University, Ala. : International Center for Aquaculture, [1990 or 1991?]; 1990. 9 p. : ill. ; 28 cm. (Water harvesting and aquaculture for rural development). Cover title.

Language: English

Descriptors: Tilapia

19 NAL Call. No.: SH167.T54I56
Introduction to Tilapia nilotica fingerling production systems.
Auburn University, International Center for Aquaculture
Auburn, Ala. : International Center for Aquaculture, Auburn
University, [1991?]; 1991.
6 p. : ill. ; 28 cm. (Water harvesting and aquaculture for rural
development). Cover title.

Language: English

Descriptors: Tilapia

20 NAL Call. No.: RA1270.P35A1
Lead-induced biochemical changes in freshwater fish Oreochromis
mossambicus. Ruparelia, S.G.; Verma, Y.; Mehta, N.S.; Salyed,
S.R.
New York, N.Y. : Springer-Verlag; 1989 Aug.
Bulletin of environmental contamination and toxicology v. 43 (2):
p. 310-314; 1989 Aug. Includes references.

Language: English

Descriptors: Tilapia; Lead; Water pollution; Plasma; Carbohydrate
metabolism; Lipid metabolism; Protein metabolism

21 NAL Call. No.: 275.29 IO9PA
Managing Iowa fisheries: tilapia culture in Iowa.
Morris, J.E.
Ames, Iowa : The Service; 1991 Feb.
PM - Iowa State University, Cooperative Extension Service
(1352g): 3 p.; 1991 Feb.

Language: English

Descriptors: Iowa; Fish culture; Tilapia; Oreochromis; Edible
species; Legislation; Environmental temperature; Biological
oxygen demand; Spawning; Nutrient requirements; Growth rate;
Production costs; Markets

22 NAL Call. No.: SH167.T54M47 1990
Methodes artisanales d'aquaculture du tilapia en Afrique
[Artisanal methods of tilapia aquaculture in Africa].
Lazard, J.
Centre technique forestier tropical (France)
Nogent-sur-Marne : Centre technique forestier tropical,; 1990. 82
p. : ill. (some col.), maps ; 27 cm. English and Spanish
summaries. Includes bibliographical references.

Language: French

Descriptors: Tilapia; Fish-culture

23 NAL Call. No.: SH167.T54L48 1992
Microbial diseases of cultured tilapia.
Lewis, D. H.
United States-Israel Binational Agricultural Research and
Development Fund Bet Dagan, Israel : BARD,; 1992.
21 leaves : ill. ; 28 cm. Final report. Project no. IS-1077-86.
Includes bibliographical references.

Language: English

Descriptors: Tilapia; Bacterial diseases in fishes

24 NAL Call. No.: SH344.8.N4N47
Net enclosure system for Tilapia nilotica fingerling production.
Auburn University, International Center for Aquaculture
Auburn, Ala. : International Center for Aquaculture, Auburn
University, [1991?]; 1991.
10 p. : ill. ; 28 cm. (Water harvesting and aquaculture for rural
development). Cover title.

Language: English

Descriptors: Fishing nets; Fish-culture; Fish ponds; Fishes

25 NAL Call. No.: 49 J82
Nutrition of aquaculture species.
Lovell, R.T.
Champaign, Ill. : American Society of Animal Science; 1991 Oct.
Journal of animal science v. 69 (10): p. 4193-4200; 1991 Oct.
Literature review. Includes references.

Language: English

Descriptors: Aquaculture; Nutrient requirements; Amino acids;
Fishes; Energy requirements; Vitamins; Feed conversion; Growth
rate; Feed intake

Abstract: Dietary requirements for amino acids and fatty acids
have been reported for channel catfish (*Ictalurus punctatus*),
salmonids (*Oncorhynchus* spp.), common carp (*Cyprinus carpio*),
tilapias (*Oreochromis* spp.), and eel (*Anguilla japonicus*). Most
of the vitamin and mineral requirements are available for channel
catfish and salmonids, and some are available for common carp,
tilapia, eel, and other finfish and crustaceans. From this
available information, cost-effective feeds can be formulated for
the major commercial aquaculture species. Major differences in
nutrient requirements between fish and mammals or birds are as
follows: fish have a lower digestible energy:protein ratio (8 to
10 kcal of DE/g of CP for fish vs 15 to 20 kcal of DE/g of CP for
livestock); fish require n-3 fatty acids and land animals require
n-6; fish can absorb minerals from the water, which negates the
need for some minerals in the diet; and fish have limited ability
to synthesize vitamin C and must depend on a dietary source.
Areas for further research include 1) refinement of nutrient
requirements of the major culture species considering effects of

fish size, temperature, and management; 2) nutrient requirements of crustaceans; 3) effects of nutrition on fish health and product quality; and 4) feeding technology.

26 NAL Call. No.: SH167.T54074 1991
Oreochromis niloticus fry and fingerling production in tanks.
Auburn University, International Center for Aquaculture and Aquatic Environments
Auburn, Ala. : International Center for Aquaculture and Aquatic Environments, [1991?]; 1991.
[6] p. : ill. ; 28 cm. (Water harvesting and aquaculture for rural development). Cover title.

Language: English

Descriptors: Tilapia; Fish-culture

27 NAL Call. No.: RA1270.P35A1
Parathion and salinity effects on gills and mesonephros carbonic anhydrase activity of the fish Oreochromis hornorum.
Martinez-Tabche, L.
New York, N.Y. : Springer-Verlag; 1992 Dec.
Bulletin of environmental contamination and toxicology v. 49 (6): p. 929-934; 1992 Dec. Includes references.

Language: English

Descriptors: Mexico; Parathion; Salinity; Oreochromis; Gills; Body parts; Carbonate dehydratase; Enzyme activity; Toxicity; Nontarget organisms

28 NAL Call. No.: SH151.S62
Pond culture of Tilapia.
Rakocy, J.E.; McGinty, A.S.
Ada, Okla. : Southern Regional Aquaculture Center; 1989 Jul. SRAC publication (280): 4 p.; 1989 Jul.

Language: English

Descriptors: U.S.A.; Tilapia; Fish farming; Fish ponds; Fertilizers; Harvesting; Manures; Mixed farming; Pig farming; Poultry farming

29 NAL Call. No.: SH165.P76 1992
Production of 1-gram, mixed-sex Oreochromis niloticus fingerlings in earthen ponds.
Auburn University, International Center for Aquaculture and Aquatic Environments
Auburn, Ala. : International Center for Aquaculture and Aquatic Environments, Auburn University, [1992?]; 1992.
8 p. : ill. ; 28 cm. (Water harvesting and aquaculture for rural development). Cover title.

Language: English

Descriptors: Fishes; Fish-culture

30 NAL Call. No.: 442.8 Z8
Production of F1 and F2 diploid gynogenetic tilapias and analysis of the "Hertwig curve" obtained using ultraviolet irradiated sperm. Don, J.; Avtalion, R.R.
Berlin, W. Ger. : Springer International; 1988.
Theoretical and applied genetics v. 76 (2): p. 253-259. ill; 1988. Includes references.

Language: English

Descriptors: Tilapia; Embryogenesis; Crosses; Heterosis; Gynogenesis; Animal breeding

31 NAL Call. No.: SH167.T54M87 1990
Raising fish in ponds a farmer's guide to tilapia culture.
Murnyak, Dennis; Murnyak, Meredith O.
Little Rock, AR, USA : Fish Farming Project, Diocese in Arusha Region, Evangelical Church of Tanzania in cooperation with Heifer Project International,; 1990.
v, 75 p. : ill. ; 22 cm.

Language: English

Descriptors: Tilapia; Fish ponds; Fish culture

32 NAL Call. No.: SH165.R46 1992
Reproductive biology of Oreochromis niloticus.
Auburn University, International Center for Aquaculture and Aquatic Environments
Auburn, Ala. : International Center for Aquaculture and Aquatic Environments, Auburn University, [1992?]; 1992.
7 p. : ill. ; 28 cm. (Water harvesting and aquaculture for rural development). Cover title.

Language: English

Descriptors: Fishes; Fish-culture

33 NAL Call. No.: SH167.T54I55 1987
The second International Symposium on Tilapia in Aquaculture, Bangkok, Thailand, 16-20 March 1987.
Pullin, Roger S. V.
International Center for Living Aquatic Resources Management
International Symposium on Tilapia in Aquaculture 2nd : 1987 : Bangkok, Thailand.
Bangkok, Thailand : Dept. of Fisheries ; Manila, Philippines : International Center for Living Aquatic Resources Management,; 1988.
xii, 623 p. : ill., maps ; 26 cm. (ICLARM conference proceedings,

15 ICLARM contribution ; no. 530). Includes bibliographical references and index.

Language: English

Descriptors: Tilapia; Congresses; Fish-culture; Congresses; Aquaculture; Congresses

34 NAL Call. No.: SH167.T54S54 1992
Single pond system for sustainable production of *Oreochromis niloticus*. Auburn University, International Center for Aquaculture and Aquatic Environments
Auburn, Ala. : International Center for Aquaculture and Aquatic Environments, Auburn University, [1992?]; 1992.
5 p. : ill. ; 28 cm. (Water harvesting and aquaculture for rural development). Cover title.

Language: English

Descriptors: *Oreochromis niloticus*; Tilapia; Fish ponds; Fish-culture

35 NAL Call. No.: SH167.T54S65 1992
Socioeconomic impact and farmers' assessment of Nile tilapia (*Oreochromis niloticus*) culture in Bangladesh.
Gupta, Modadugu V.
International Center for Living Aquatic Resources Management
Manila : International Center for Living Aquatic Resources Management ; Portland, Or. : International Specialized Book Services, distributor, ; 1992. iv, 50 p. : ill., maps ; 28 cm. (ICLARM technical reports, 35 ICLARM contribution ; no. 805). Includes bibliographical references (p. 19).

Language: English

Descriptors: Tilapia; Fish-culture

36 NAL Call. No.: SH151.S62
Tank culture of tilapia.
Rakocy, J.E.
Ada, Okla. : Southern Regional Aquaculture Center; 1989 Sep. SRAC publication (282): 4 p.; 1989 Sep.

Language: English

Descriptors: U.S.A.; Tilapia; Fish culture; Breeding; Feeding; Growth; Stocking rate; Tanks; Design

37 NAL Call. No.: FUSH167.T54T5421 1992
Tilapia.
Florida, Dept. of Agriculture and Consumer Services, Division of Marketing Tallahassee, Fla. : Florida Dept. of Agriculture & Consumer Services, Division of Marketing, [1992?]; 1992.

10 p. ; 28 cm. (Aquaculture species resource series). Cover title. Includes bibliographical references (p. 9-10).

Language: English; English

Descriptors: Tilapia; Aquaculture

38 NAL Call. No.: aZ5071.N3
Tilapia culture January 1979-August 1988.
Smith, M.F.
Beltsville, Md. : The Library; 1988 Dec.
Quick bibliography series - U.S. Department of Agriculture,
National Agricultural Library (U.S.). (89-12): 26 p.; 1988 Dec.
Updates QB 87-45. Bibliography.

Language: English

Descriptors: Tilapia; Aquaculture; Fish farming; Bibliographies

39 NAL Call. No.: aZ5071.N3
Tilapia culture: January 1979-September 1990.
Young, A.T.
Beltsville, Md. : The Library; 1991 Mar.
Quick bibliography series - U.S. Department of Agriculture,
National Agricultural Library (U.S.). (91-48): 16 p.; 1991 Mar.
Updates QB 89-12. Bibliography.

Language: English

Descriptors: Tilapia; Aquaculture; Fish farming; Bibliographies

40 NAL Call. No.: SH167.T54W6 1987
Tilapia genetic resources for aquaculture proceedings of the
Workshop on Tilapia Genetic Resources for Aquaculture, 23-24
March 1987, Bangkok, Thailand.
Pullin, Roger S. V.
International Center for Living Aquatic Resources Management
Workshop of Tilapia Genetic Resources for Aquaculture 1987 :
Bangkok, Thailand.
Manila, Philippines : International Center for Living Aquatic
Resources Management,; 1988.
v, 108 p. : ill., maps ; 26 cm. (ICLARM conference proceedings ;
16 ICLARM contribution ; no. 457). Erratum slip inserted.
Includes bibliographies.

Language: English

Descriptors: Tilapia; Congresses; Aquaculture; Congresses;
Fishes; Genetics; Congresses

41 NAL Call. No.: 442.8 Z8
Triploidy induction in Nile tilapia, *Oreochromis niloticus* L.
using pressure, heat and cold shocks.

Hussain, M.G.; Chatterji, A.; McAndrew, B.J.; Johnstone, R.
Berlin, W. Ger. : Springer International; 1991.
Theoretical and applied genetics v. 81 (1): p. 6-12. ill; 1991.
Includes references.

Language: English

Descriptors: Oreochromis niloticus; Triploidy; Induction; Ova;
Cold shock; Heat shock; Atmospheric pressure

42 NAL Call. No.: 41.8 ON1
The use of electronarcosis as anaesthetic in the cichlid,
Oreochromis mossambicus (Peters). II. The effects of changing
physical and electrical parameters on the narcotizing ability of
alternating current. Barham, W.T.; Schoonbee, H.J.; Visser,
J.G.J.
Pretoria : South Africa, Department of Agriculture and Water
Supply; 1989 Dec. The Onderstepoort journal of veterinary
research v. 55 (4): p. 205-215; 1989 Dec. Includes references.

Language: English

Descriptors: South Africa; Freshwater fishes; Electric current;
Narcosis; Anesthetics

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