

Fisheries Review



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AQUATIC PLANTS AND THEIR CONTROL

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[Inst. Agron. & Plant Breeding, Christian-Albrechts Univ., D-2300 Kiel, Germany] *Cyprinus carpio*, *Puntius gonionotus*, and *Tilapia nilotica* x *T. mossambica*.

GENERAL FISH CULTURE

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[Fac. Vet. Med., Univ. Tehran, P.O. Box 14155-6453, Tehran, Iran] *Oreochromis mykiss*, *Cyprinus carpio*, *Cataphractogobio idella*, *Hypophthalmichthys molitrix*, and *H. nobilis*.

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[Biol. Anstalt Helgoland, Notkestr. 32, 2000 Hamburg 52, Germany]
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[Div. Gen. Fish., Jl. Hareano Km. No. 3, Rajason, Pasar Minggu, Jakarta 12550, Indonesia] *Puntius gonionotus*, *Cyprinus carpio*, *Osteochilus hassaki*, *Tilapia nilotica*, *Oxyphrysus gotama*, *Hilostele aemmilchii*, and *Clarias fuscatus*.

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[Dep. Agric. Resour. Econ., Fac. Econ. Bus. Admin., Kasetsart Univ., Ngam Wong Wan Rd., Bangkhen, Bangkok 10900, Thailand] *Pangasius* and *Clarias*.

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[Fac. Econ., Nihon Univ., 1-3-2 Misaki, Chiyoda-Ku, Tokyo 101, Japan]

TROUT AND SALMON CULTURE

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[IREMER, Cent. de Ouest, BP 70, 29280 Plouzané, France]

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94-004394 Dube, P. and P. Y. Coffin. [SECOND EXPLORATORY FISHING MISSION TO JAMES BAY (RUPERT RIVER) AND FIRST YEAR OF THE DOMESTICATION OF BROOK TROUT (*SALVELINUS FONTINALIS*) FOR ESTABLISHING A REFERENCE LINE.] *Que. Minist. Agric. Pêch. Aliment. Dir. Rech. Sci. Tech. Annu. Rep.* 1992-1993. p. 28-29. 1993. French abstract only. FR 39(3)

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[Freshwater Aquacult. Cent., Coll. Luzon State Univ., Nueva Ecija 3120, Philippines]

94-005075 Waagbø, R.; K. Sandnes; J. Jørgensen; R. Eugstad; J. Glette and O. Lie. HEALTH ASPECTS OF DIETARY LIPID SOURCES AND VITAMIN E IN ATLANTIC SALMON (*SALMO SALAR*), 2. SPLEEN AND ERYTHROCYTE PHOSPHOLIPID FATTY ACID COMPOSITION, NONSPECIFIC IMMUNITY AND DISEASE RESISTANCE. *Fiskeriår. Skr. Ser. Ernær. 6(1)*:63-80. 1993. *From Nutr. Abstr. Rev. Ser. B Livest. Feeds Feed.* 64(4):181D. 1994. FR 39(3)

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- 94-005467 Milligan, Aaron B. and Roger P. Lemmons. OCCURRENCE OF THE CENTRAL STONEROLLER (*CAMPOSTOMA ANOMALUM*) IN THE UPPER WASHITA RIVER DRAINAGE. *Proc. Okla. Acad. Sci.* Vol. 73. p. 71-72. 1993. FR 39(3)
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[Univ. Jagielloński, Zakład Zool. Syst., Zoogeogr., ul. Ingardena 6, 30-060 Kraków, Poland] *Salmo trutta* (L.), *Phoxinus phoxinus*, *Nematalosa barbata*, *Coris poeciloptera*, *Thymallus thymallus*, *Rutilus merulionalis petenyi*, *Lepomis cyphalus*, and *Chondrostoma toxostoma* in Poland

94-005470 Pigg, Jimmie and Robert Gibbs. THREE NOTEWORTHY DISTRIBUTION RECORDS FOR OKLAHOMA FISHES. *Proc. Okla. Acad. Sci.* Vol. 72, p. 63-64. 1992. FR 39(3)

[Environ. Serv. Lab., Dep. Health, Oklahoma City, OK 73152] *Cheostoma cragini*, *Entomozon succota*, *Platyglanis gracilis*, and data for seven other species.

94-005471 Pigg, Jimmie, Mark S. Coleman and Judy Duncan. AN ECOLOGICAL INVESTIGATION OF THE ICHTHIOFAUNA OF THE NORTH CANADIAN RIVER IN OKLAHOMA: 1976-1989. *Proc. Okla. Acad. Sci.* Vol. 72, p. 21-32. 1992. FR 39(3)

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94-005476 Stephenson, S. A. and W. T. Moreot. ISOSTATIC REBOUND AND ITS EFFECTS ON FISH COLONIZATION AND DISTRIBUTION IN THE WESTERN LAKE SUPERIOR BASIN. *Can. J. Zool.* 72(1):78-86. 1994. In English with French summ. FR 39(3)

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[U.S. Dep. Interior, Natl. Park Serv., Death Valley Natl. Monument, Death Valley, CA] *Cyprinodon salinus milleri* in California.

94-005478 Wager, Rob. THE DISTRIBUTION AND CONSERVATION STATUS OF QUEENSLAND FRESHWATER FISHES. *Queensl. Dep. Primary Ind. Inf. Ser.* QH3001. 62p. 1993. FR 39(2) [Fish. Div., Queensland Dep. Primary Ind., GPO Box 49, Brisbane, Qld. 4001, Australia]

94-005479 Yeager, Mindy, Tom Jones, Donald Tarter and Dan Cincotta. DISCOVERY OF THE CENTRAL MUDMINNOW, *LMBRA LMF* (KIRTLAND), IN WEST VIRGINIA. *Proc. W. Va. Acad. Sci.* 62(1):12. 1990. Abstract only. FR 39(3)

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[Pac. Grove Mus. Nat. Hist., 165 Forest Ave., Pacific Grove, CA 93950]

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Morone chrysops x *M. saxatilis*.

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[Dep. Zool., Univ. College Cork, Cork, Ireland] *Stercorarius pomarinus*, *Pomatoschistus pictus*, *Cottus mugil* *fabronius*, and *Arenaria pinnata* in Ireland.

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- 94-005484 Butler, Robert W. TIME OF BREEDING IN RELATION TO FOOD AVAILABILITY OF FEMALE GREAT BLUE HERONS (*ARDEA HERODIAS*). *Auk* 110(4):693-701. 1993. FR 39(3)
[Canadian Wildl. Serv., Box 340, Delta, BC, Canada V4K 3Y3] *Cynogaster aggregata* in Canada.
- 94-005485 Caron, James A., Jr. and William L. Robinson. RESPONSES OF BREEDING COMMON LOONS TO HUMAN ACTIVITY IN UPPER MICHIGAN. Aquatic Birds in the Trophic Web of Lakes. Proceedings of a symposium held in Sackville, New Brunswick, Canada, in August 1991. Joseph J. Kerekes, editor. *Hydrobiologia* Vol. 279/280, p. 431-438. 1994. FR 39(3)
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- 94-005486 Clarke, Raymond D. HABITAT PARTITIONING BY CHAENOPOID BLENNIES IN BELIZE AND THE VIRGIN ISLANDS. *Copeia* 1994(2):398-405. 1994. FR 39(3)
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- 94-005488 Deffels, E. M. and W. C. Leggett. MATCH/MISMATCH BETWEEN THE ABUNDANCE OF MARINE FISH EGGS AND INVERTEBRATE PREDATORS: AN ANALYSIS OF *CALLINOTUS LAEVIS* (AMPHIPODA: GAMMARIDAE) POPULATION GROWTH RELATIVE TO THE SEASONAL SPAWNING CYCLE OF CAPELIN (*MALLOTUS VILLOSIUS*). *Can. J. Fish. Aquat. Sci.* 50(11):2501-2509. 1993. In English with French summ. FR 39(3)
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[Provincial Gov. (Lansstyrelsen) in Goteborgs Behus lan, Dep. Environ. Prot. (Miljovardnigheten), S-403 40 Goteborg, Sweden] *Coregonus albus*, *Perca fluviatilis*, and *Rutilus rutilus*.
- 94-005490 Evers, David C. ACTIVITY BUDGETS OF A MARKED COMMON LOON (*GAVYA IMMER*) NESTING POPULATION. Aquatic Birds in the Trophic Web of Lakes. Proceedings of a symposium held in Sackville, New Brunswick, Canada, in August 1991. Joseph J. Kerekes, editor. *Hydrobiologia* Vol. 279/280, p. 415-420. 1994. FR 39(3)
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- 94-005491 Ewins, P. J.; D. V. Weseloh; J. H. Croome; R. Z. Dobos and P. Mineau. THE DIET OF HERRING GULLS (*LARUS ARGENTATUS*) DURING WINTER AND EARLY SPRING ON THE LOWER GREAT LAKES. Aquatic Birds in the Trophic Web of Lakes. Proceedings of a symposium held in Sackville, New Brunswick, Canada, in August 1991. Joseph J. Kerekes, editor. *Hydrobiologia* Vol. 279/280, p. 39-55. 1994. FR 39(3)
[Canadian Wildl. Serv., Ontario Reg., Environ. Canada, Box 5050, Burlington, ON, Canada L7R 4A6] *Osmorus mordax*, *Alcea pseudoharengus*, and *Aplodinotus grunnius*.
- 94-005492 Faurton, Eric and Loic Matton. ASSESSMENT OF GREY HERON PREDATION ON FISH COMMUNITIES: THE CASE OF THE LARGEST EUROPEAN COLONY. Aquatic Birds in the Trophic Web of Lakes. Proceedings of a symposium held in Sackville, New Brunswick, Canada, in August 1991. Joseph J. Kerekes, editor. *Hydrobiologia* Vol. 279/280, p. 327-344. 1994. FR 39(3)
[Fish-Pass, 85 rue Saint-Breuc, 35000 Rennes, France] *Anguilla anguilla*, *Amalurus melas*, and *Bleca bjoerkna* in France.
- 94-005493 Flecker, Alexander S. BIOLOGICAL DISTURBANCE AND THE STRUCTURE OF TROPICAL RIVERINE COMMUNITIES. *Bull. Ecol. Soc. Am.* 75(26suppl.-67. 1994. Abstract only. FR 39(3)
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- 94-005494 Fox, A. D. ESTUARINE WINTER FEEDING PATTERNS OF LITTLE CRABS *TACHYBAPTUS RUFICOLLIS* IN CENTRAL WALES. *Bird Study* 41(1):15-24. 1994. FR 39(3)
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Hesperoleucus symmetricus, *Psychocheilus grandis*, *Myxopharodon coreocephalus*, *Micropterus dolomieu*, and data for five other species.

94-005496 Girschlag, Gregg R. and Maurice L. Renaud. FIELD EXPERIMENTS ON SURVIVAL RATES OF CAGED AND RELEASED RED SNAPPER. *N. Am. J. Fish. Manage.* 14(1):131-136. 1994. FR 39(3)

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94-005497 Grenillet, David L.H. and Andrea L. Pos. THE USE OF STOMACH TEMPERATURE RECORDS FOR THE CALCULATION OF DAILY FOOD INTAKE IN CORMORANTS. *J. Exp. Biol.* Vol. 189, p. 105-115. 1994. FR 39(3)

[Inst. Meereskunde, Dusterbrookweg Weg 20, D-24105 Kiel, Germany] [*Clupea harengus* and *Rostus nalis*.

94-005498 Hamec, K. C., D. R. Thompson, A. J. Randle, S. A. Lewis and F. M. Stewart. MESOPELAGIC FISH EATEN BY YELLOWLEGGED HERRING GULLS *LARUS ARGENTATUS* ATLANIS IN THE AZORES. *Seabird* No. 16, p. 30-33. 1994. FR 39(3)

[Dep. Biol. Sci., Durham Univ., South Rd., Durham DH1 3LE, England] [Data for three species, eight genera, and three families.

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[School Biol. & Earth Sc., Liverpool John Moores Univ., Byron St., Liverpool L3 3AF, England] [*Arctophylos marinus* in Scotland.

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[Kalamazoo Biol. Sta., Mich. State Univ., Hickory Corners 49060] [*Lepomis gibbosus* and *L. microlophus* in Michigan.

94-005501 Jester, Douglas S.; Anthony A. Echelle; William J. Matthews; Jimmie Figg; Charles M. Scott and Kenneth D. Collins. THE FISHES OF OKLAHOMA, THEIR GROSS HABITATS, AND THEIR TOLERANCE OF DEGRADATION IN WATER QUALITY AND HABITAT. *Proc. Okla. Acad. Sci.* Vol. 72, p. 7-19. 1992. FR 39(3)

[Water Quality Div., Water Resour. Board, Oklahoma City, OK 73101-0150] [Data for 181 species.

94-005502 Koels, MaryLouise and Kenneth W. Able. CONTRIBUTIONS OF ABIOTIC AND BIOTIC FACTORS TO SETTLEMENT IN SUMMER FLOUNDER, *PARALICHTHYS DENTATUS*. *Copeia* 1994(2):458-465. 1994. FR 39(3)

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[HC 60, Box 870, Ruby Valle., NV 89633]

94-005505 Magoulick, David D. INFLUENCE OF INTRODUCED RAINBOW TROUT ON POSITION CHOICE OF NATIVE BROOK TROUT. *Bull. Ecol. Soc. Am.* 75(2)Suppl.:141. 1994. Abstract only. FR 39(3)

[Univ. Pittsburgh, Pittsburgh, PA 15260] [*Salvelinus fontinalis* and *Oncorhynchus mykiss*.

94-005506 Mallory, Mark L.; Peter J. Blancher; Patrick J. Weatherhead and Donald K. McNicol. PRESENCE OR ABSENCE OF FISH AS A CLUE TO MACROINVERTEBRATE ABUNDANCE IN BOREAL WETLANDS. *Aquatic Birds in the Tropics: Web of Lakes. Proceedings of a symposium held in Sackville, New Brunswick, Canada, in August 1991*. Joseph J. Kerekes, editor. *Hydrobiologia* Vol. 279/280, p. 345-351. 1994. FR 39(3)

[Blancher: Canadian Wildl. Serv., Natl. Wildl. Res. Cent., 100 Gamelin Blvd., Hull, PQ, Canada K1A 0H3] [*Scotilus margarita*, *Chondestes eos*, *C. neogaeus*, *Pinophila promelas*, *Lusky cornutus*, *Culicivora leucostictus*, and *Citrostomus commersoni* in Canada.

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[Univ. Coll. Syracuse Univ., Utica, NY 13502] *Colaptes auratus*, *Umbro lim.*, and *Amelanus nelsonii* in Minnesota and *Fregata acaz* and *Zonotrichia querula* in Canada.
- 94-005508 Monaghan, P.; P. Walton; S. Wanless; J. D. Utterly and M. D. Burns. EFFECTS OF PREY ABUNDANCE ON THE FORAGING BEHAVIOUR, DIVING EFFICIENCY AND TIME ALLOCATION OF BREEDING GUILLEMOTS *ULIA ALICE*. *Ibis* 136(2):214-222. 1994. FR 39(3)
[Appl. Ornithol. Unit, Dep. Zool., Univ. Glasgow, Glasgow G12 8QQ, Scotland] *Uria lomvia* in Scotland.
- 94-005509 Montecinos, Aldo and Fernando Balboa. [UPWELLING INDICES AND SEA SURFACE CIRCULATION: BIOLOGICAL CONSEQUENCES FOR A SPAWNING AREA OF FISHES LOCATED BETWEEN LOS VILOS AND VALPARAISO, CHILE.] *Rev. Biol. Mar.* 28(1):133-150. 1993. In Spanish with English summ. FR 39(3)
[Dep. Geofísica, Univ. Chile, Casilla 2777, Santiago, Chile] Data for 26 species.
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- 94-005511 Olson, Mark H. ONTOGENETIC NICHE SHIFTS IN LARGEMOUTH BASS: VARIABILITY AND CONSEQUENCES FOR FIRST YEAR GROWTH. *Bull. Ecol. Soc. Am.* 75(2)(Suppl.):170. 1994. Abstract only. FR 39(3)
[Univ. Wis., Madison 53706] *Micropterus salmoides* in Michigan.
- 94-005512 Pace, Michael L. AN INVASIVE SPECIES ALTERS THE TEMPORAL AND SPATIAL PATTERNS OF PLANKTON BLOOMS IN THE HUDSON ESTUARY II. ZOOPLANKTON. *Bull. Ecol. Soc. Am.* 75(2)(Suppl.):172. 1994. Abstract only. FR 39(3)
[Inst. Ecosyst. Studies, Box 88, Millbrook, NY 12545]
- 94-005513 Parker, Michael S. PREDATION BY PACIFIC GIANT SALAMANDER LARVAE ON JUVENILE STEELHEAD TROUT. *Northwest. Nat.* 74(1):77-81. 1993. FR 39(3)
[Dep. Integrative Biol., Univ. Calif., Berkeley 94720] *Oncorhynchus mykiss* in California.
- 94-005514 Rinne, J. N. ABIOTIC AND BIOTIC FACTORS INFLUENCING THE SUSTAINABILITY OF THE THREATENED LITTLE COLORADO SPINEDACE, *LEPIDOMEDA WITTATA*. *Proc. Desert Fishes Council*. Vol. 25. p. 19. 1994. English and Spanish abstract only. FR 39(3)
[U.S. For. Serv., Flagstaff, AZ] *L. v. white* and *Oncorhynchus mykiss* in Arizona.
- 94-005515 Ross, Sus-Anne. FOOD AND FEEDING OF THE HOODED SEAL (*CYSTOPHORA ORSTATA*) IN NEWFOUNDLAND. M.S. thesis, Memorial Univ. Newfoundland (Canada) 185p. 1992. From Masters Abstr. Int. 32(2):553-554. 1994. Order No. MAMM12664. FR 39(3)
Reinhardtius hippoglossoides, *Scomber*, *Harogadus*, *Clupea harengus*, *Coelus nothus*, and *Mallotus villosus*.
- 94-005516 Ruggles, Anne K. HABITAT SELECTION BY LOONS IN SOUTH-CENTRAL ALASKA. Aquatic birds in the Trophic Web of lakes. Proceedings of a symposium held in Sackville, New Brunswick, Canada, in August 1991. Joseph J. Kerekes, editor. Hydrobiologia Vol. 279/280. p. 421-430. 1994. FR 39(3)
[Dep. Biol. & Wildl., Univ. Alaska, Fairbanks 99775] *Casterosteus aculeatus*.
- 94-005517 Schaefer, Jacob F.; Steven T. Houliet and Terence M. Farrell. INTERACTIONS BETWEEN TWO POECILID FISHES (*GAMBUSIA HOUBROOKI* AND *HAETERANDRIA FORMICOSA*) AND THEIR PREY IN A FLORIDA MARSH. *Copeia* 1994(2):516-520. 1994. FR 39(3)
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- 94-005518 Stringer, Elizabeth M.; Theodore C. Foin and Peter B. Moyle. MODELING INVADER IMPACT: THE ROLE OF ENVIRONMENTAL VARIATION IN PATTERNS OF SPECIES REPLACEMENT. *Bull. Ecol. Soc. Am.* 75(2)(Suppl.):221. 1994. Abstract only. FR 39(3)
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- 94-005519 Thomas, Heather M. and Todd A. Crowl. COMPETITIVE INTERACTIONS BETWEEN EXOTIC BROOK TROUT AND NATIVE COLORADO CUTTHROAT TROUT IN HIGH MOUNTAIN STREAMS. *Bull. Ecol. Soc. Am.* 75(2)(Suppl.):220. 1994. Abstract only. FR 39(3)
[Ecol. Cent., Utah State Univ., Logan 84322-5210] *Oncorhynchus clarki pleuriticus*, and *Salvelinus fontinalis*.
- 94-005520 Urwin, Martin, coordinator. SUSTAINABLE BIOLOGICAL PRODUCTION: SALMON BIOLOGY AND POPULATION DYNAMICS. *Water & Atmos.* 1(3):23. 1993. FR 39(3)
Oncorhynchus tshawytscha in New Zealand.

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[Scottish Nat. Heritage, 24 Alexandra Bldg, Lemwick, Shetland ZE1 0LL, Scotland] *Ammodramus*, *Marebas villosus*, *Sparhus spatula*, and *Clupea harengus* in Scotland.

94-005522 Walke, Nigel; Patti Allen; Ron Allen and Jurak Kolasa. INTERACTION [BETWEEN] THE SAMPLING WINDOW AND HABITAT PROPERTIES: IMPLICATIONS FOR CORAL REEF FISH STUDIES. *Bull. Ecol. Soc. Am.* 75(2)(suppl.24). 1994. Abstract only. FR 39(3)

[McMaster Univ., Hamilton, ON, Canada L8S 4K1]

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[Day: Univ. Ulster, Appl. Ecol. Res. Group, Dep. Biol. & Biomed. Sci., Coleraine BT52 1SA, Northern Ireland] *Rallus rufus*.

94-005524 Winfield, Denise K. and Ian J. Winfield. POSSIBLE COMPETITIVE INTERACTIONS BETWEEN OVERWINTERING TUFTED DUCK (*AYTHYA FULGULA* [L.]) AND FISH POPULATIONS OF LOUGH NEAGH, NORTHERN IRELAND; EVIDENCE FROM DIET STUDIES. Aquatic Birds in the Trophic Web of Lakes. Proceedings of a symposium held in Sachlala, Newfoundland, Canada, in August 1991. Joseph J. Kerekes, editor. *Hydrobiologia* Vol. 279/280, p. 377-386. 1994. FR 39(3)

[Univ. Ulster Freshwater Lab., Traad Point, Ballyronan, Co. Londonderry BT45 6LR, Northern Ireland] *Rallus rufus*.

94-005525 Young, G.; C. L. Brown; R. S. Mithlicka; L. C. Feimer; M. Andrews; J. R. Caselman and H. A. Bern. HISTOPATHOLOGY, BLOOD CHEMISTRY, AND PHYSIOLOGICAL STATUS OF NORMAL AND MORIBUND STRIPED BASS (*MORONE SAEATILUS*) INVOLVED IN SUMMER MORTALITY ('DIE-OFF') IN THE SACRAMENTO - SAN JOAQUIN DELTA OF CALIFORNIA. *J. Fish Biol.* 44(3):493-512. 1994. FR 39(3)

[Brew: Dep. Integrative Biol., Cancer Res. Lab., Univ. Calif., Berkeley 94720]

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[Dep. Palaeontol., Nat. Hist. Mus., Cromwell Rd., London SW7 5BD, England]

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- 94-005561 Sweeney, Mary E. AQUARIUM MEDICATION BAN THREAT. *Trop. Fish Hobbyist* 42(8):102-103. 1994. FR 39(3)
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- 94-005570 Estevez, Jo; J. Lebró; M. T. Santamarina; J. Domínguez and F. M. Ubeña. MONOCLONAL ANTIBODIES TO TURBOT (*SCOPHTHALMUS MAXIMUS*) IMMUNOGLOBULINS: CHARACTERIZATION AND APPLICABILITY IN IMMUNOASSAYS. *Vet. Immunol. Immunopathol.* 41(3-4):353-366. 1994. FR 39(3)
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[Sect. Bacteriol. & Epizootiol., Dep. Vet. Microbiol., Fac. Vet. Med., Univ. Agric. Sci., Biomed. Cent., Box 583, S-751 23, Uppsala, Sweden] *Anguilla anguilla*.
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- 94-005582 Munro, Patrick M.; Genevieve Bealch and Rene L. Clement. SEAWATER EFFECTS ON VARIOUS VIBRIO SPECIES. *Microbiol.* 77(312):191-198, 1994. FR 39(3)
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[Royal Vet. & Agric. Univ., Dep. Vet. Microbiol., Sect. Fish Dis., Bulowvej 13, DK-1870 Frederiksberg C, Denmark] *Aechosaga rhomboidalis* and *Oncorhynchus mykiss*.
- 94-005584 Plumb, J. A.; S. Vairamohan; V. Abe and R. P. Phelps. DENSITY-DEPENDENT EFFECT ON ORAL VACCINATION OF CHANNEL CATFISH AGAINST EDWARDSIELLA *ICTALURI*. *Aquaculture* 122(2/3):91-96, 1994. FR 39(3)
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- 94-006050 Meijer, M.-L.; E. Jeppesen; E. van Dorik; B. Moss; M. Scheffer; E. Lammens; E. van Nes; J. A. van Bennekom; G. J. de Jong; B. A. Faalkang and J. P. Jansen. LONG-TERM RESPONSES TO FISH-STOCK REDUCTION IN SMALL SHALLOW LAKES: INTERPRETATION OF FIVE-YEAR RESULTS OF FOUR BIOMANIPULATION CASES IN THE NETHERLANDS AND DENMARK. In: Nutrient Dynamics and Biological Structure in Shallow Freshwater and Brackish Lakes. E. Mortensen, E. Jeppesen, M. Sondergaard and M. Kamp Nielsen, editors. *Hydrobiologia* Vol. 275/276, p. 457-466. 1994. FR 39(3)
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FISHERIES REVIEW

BOOK REVIEW

Carpenter, S. R., and J. F. Kitchell, editors. 1993. *The Trophic Cascade in Lakes*. Cambridge University Press, 40 W. 20th St., New York, NY 10011-4211. 385 pp. Available from the publisher at \$64.95 (cloth).

The Trophic Cascade in Lakes chronicles a massive 7-year research effort investigating the factors and processes controlling the variability of primary production in lake ecosystems. The overall goal of the research was to test the trophic cascade hypothesis: that fluctuations in top predator populations (fishes) "cascade" through food webs and interact with nutrients to control algal production.

The authors bring a wide array of ecological approaches to bear on the problem: intensive whole-ecosystem manipulation and interlake comparisons combined with small-scale enclosure experiments, day-to-day measurements and paleolimnological evidence, and new statistical approaches and simulation modeling.

The book consists of 17 chapters by the several experts who planned and conducted the fieldwork for this project. After three excellent explanatory chapters the organization is "top-down." Three chapters are devoted to population dynamics, behavior, and diet of fishes. These are followed by four thorough chapters on zooplankton dynamics. The dynamics of phytoplankton and primary production are treated in three chapters, followed by one on microbial processes and another that reconstructs past food web configurations from paleolimnological evidence. Chapter 16 documents the simulation modeling that was central to the project. The last chapter synthesizes findings and looks to the future of ecosystem experimentation and management.

Its organization makes the book accessible to a variety of readers—introductory chapters set the stage and the final synthesis chapter summarizes key findings of the work. Each of the 12 chapters at the core of the book ends with a summary of results.

The Trophic Cascade in Lakes should appeal to a wide audience of graduate students and researchers. State-of-the-art theory and methods in a variety of ecological and aquatic disciplines are brought together and integrated. Many ecologists will be intrigued by the statistical approaches applied throughout the book and explained thoroughly and lucidly in Chapter 3. Although the work was conducted in a relatively pristine environment, resource managers will find important and useful lessons about ecosystem management in practice.—Brett Johnson, Department of Fishery and Wildlife Biology, Colorado State University, Fort Collins, CO 80523.

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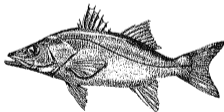
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Recovering Rights: Bowhead Whales and Inuvialuit Subsistence in the Western Canadian Arctic, by Milton M. R. Freeman, Eleanor E. Wein, and Daren E. Keith. 1992. Canadian Circumpolar Institute, University of Alberta, Edmonton, AB, Canada T6G 2E9. xv + 155 p. (paper).

Environmental Profiles: A Global Guide to Projects and People, by Linda Sobel Katz, Sarah Orick, and Robert Honig. 1993. Garland Publishing, Inc., 717 Fifth Ave.—Suite 2500, New York, NY 10022. xxvi + 1,083 p. \$125.00 (cloth).—Profiles thousands of organizations, colleges, projects, and preserves around the world. Thoroughly indexed, offers phone and FAX numbers of guiding individuals.

Fish Watching: An Outdoor Guide to Freshwater Fishes, by C. Lavett Smith. 1994. Cornell University Press, Ithaca, NY 14851-0250. xii + 216 p., 12 color pl. \$42.50 (cloth) and \$19.95 (paper).

Voices From Off Shore: Narrative of Risk and Danger in the Nova Scotian Deep-Sea Fishery, by Marian Binkley. 1994. ISER Books, Memorial University of Newfoundland, St. John's, NF, Canada A1C 5S7. viii + 235 p., 10 black-and-white plates. \$24.95 (paper).

Salmon Aquaculture, edited by Knut Heen, Robert L. Monahan, and Fred Utter. 1993. John Wiley & Sons, Inc., New York, NY 10158. x + 278 p. \$59.95 (cloth).

Indian Deep-Sea Fishes in the Indian Museum [reprint of 1899 edition by A. Alcock] with **List of Biological Stations** [reprint of 1914 and 1939 editions] and **Original Plates** [reprint from 1892-1905 and 1927 editions], compiled by P. K. Talwar. 1994. International Science Publisher, Lebanon, NH 03766-1400. xx + 211 p., 15 pl., 63 appendix p. \$195.00 (cloth).

The Physiology of Fishes, edited by David H. Evans. 1993. CRC Press, Boca Raton, FL 33431. xii + 592 p. \$95.00 (cloth).—Seventeen chapters by 20 distinguished fish physiologists; an introductory chapter by Carser Gilbert reviews recent concepts in fish classification and evolution.

Fish Farming Technology, edited by Helge Reinertsen, Lars Andre Dahle, Leif Jørgensen, and Kåre Tvinnereim. 1993. A. A. Balkema Publishers, Brookfield, VT 05036. xiv + 482 p. \$95.00 (cloth).—Proceedings of the First International Conference on Fish Farming Technology, Trondheim, Norway, 9-12 August 1993; 83 contributions on experience in mariculture, almost all as full papers.

Sea Catch: Identification and Handling Fish and Shellfish from Sydney to Shark Bay, by Don Tuma. 1994. DPI Queensland Publishing, GPO Box 46, Brisbane, Qld. 4001, Australia. iii + 117 p. \$A29.95 (paper).—Superb color photographs of 217 marine fish species and a handful of crustaceans; brief diagnoses and ranges, intriguing notes on catching, marketing, and cooking methods (red X's mark photos of toxic species).

(Reviews of selected titles will appear in future issues of *Fisheries Review*.)

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- Dop. Mec. Obras Concre
- Secs/Annu. Rep. 1989
 - 94-005057
- Freshwater Fish. Lab.
- Pilchuck/Annu. Rev. 1991-92
 - 94-005109
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- NAFF Dir. Fish. Res./Bien. Rep. 1991-92
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- Nran. Rep. Nat. Resour./Wildl.
- Popu. Res. Unit Rep.
 - 94-005066
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