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Nota di contenuto

Percid Fishes: Systematics, Ecology and Exploitation; Contents; Series Foreword; Preface; Acknowledgements; 1 Taxonomy and Distribution; 1.1 Introduction; 1.2 The Percoidei; 1.3 Percidae taxonomy and distribution; 1.4 Some general characteristics of the percids; 2 Morphology and Anatomy; 2.1 Introduction; 2.2 External anatomy; 2.3 The skeleton; 2.4 Musculature; 2.5 The gills; 2.6 The gut; 2.7 Circulatory system; 2.8 Excretory and reproductive systems; 2.9 The nervous system; 2.10 The endocrine system; 3 Age, Growth and Mortality; 3.1 Introduction; 3.2 Internal and external factors; 3.3 Age 3.4 Growth 3.5 Mortality; 4 Reproduction and Development; 4.1 Introduction; 4.2 Gonads; 4.3 Environmental cues and hormonal changes; 4.4 Spawning behaviour; 4.5 Development of the embryo; 4.6 Development of the larva; 4.7 Behaviour of larvae and fry; 5 Food and Feeding; 5.1 Introduction; 5.2 Food items in the diet; 5.3 Food selection; 5.4 Food consumption; 5.5 Digestion; 5.6 Energetics; 5.7 Respiration; 5.8 Biomanipulation; 6 Ionic and Water Balance; 6.1 Introduction; 6.2 Water and ion exchange; 6.3 Salinity; 6.4 Acid stress; 7 Swimming, Movements and Migrations; 7.1 Introduction; 7.2 Swimming 7.3 Movements 7.4 Migrations; 8 Parasites and Diseases; 8.1 Introduction; 8.2 Causative agents; 8.3 Abiotic and biotic factors; 8.4 Disease and mortality; Appendix: Table 8a; 9 Population Dynamics and Community Structure; 9.1 Introduction; 9.2 Population dynamics; Numbers and biomass; Recruitment; Mortality; Immigration and emigration; 9.3 Role in the community; Trophic status; Predation and competition; 9.4 Case histories; Oneida Lake; Western Lake Erie; Lake Ijssel; Windermere; 10 Fisheries and Economic Importance; 10.1 Introduction; 10.2 Fisheries; Lake Erie; Manitoba commercial fishery Lake Balaton Fishing gears; 10.3 Management; 10.4 Pollutants; 10.5 Conclusions; 11 Aquaculture; 11.1 Introduction; 11.2 Reproductive biology and spawning; Reproductive cycle and out-of-season maturation; Induction of ovulation and spawning; 11.3 Incubation and hatching; 11.4 Rearing of early life stages; Production of percid fry and juveniles in fertilised ponds or concrete tanks; Intensive larval rearing in recirculating systems; 11.5 Ongrowing; Feeds and feeding; Animal husbandry aspects of percid ongrowing; 11.6 Genetic improvements; Production of monosex female populations Induction of triploidy and tetraploidy Performances of hybrid percids; 11.7 Pathologies in an aquaculture environment; 11.8 Conclusions; Acknowledgements; 12 Etheostomatinae; 12.1 Introduction; 12.2 Morphology; 12.3 Ecology; Habitat; Reproduction; Growth; Spacing; Diet; Predation; Acknowledgements; Appendix: Table 12a; 13 Other Percinae and Luciopercinae; 13.1 Introduction; 13.2 Percinae; Body form and habitat; Growth, food and feeding; Reproduction; Economic importance; 13.3 Luciopercinae; The asprete; The zingels; References; Author Index; Fish Species Index; Geographic Index; Subject Index

Sommario/riassunto

The percid fishes (or perch family) comprise many species including the perch, pikeperch, yellow perch, walleye and the darters. These species are of great ecological and economic importance, being important components of the freshwater ecosystem and recreational and commercial fisheries. Percid Fishes covers aspects such as systematics, morphology, biology, ecology, diseases and parasites and the economic importance of percid fisheries. Special emphasis is placed within the book on the complex relationship between this family of fishes and their environment and how they respond to