

1. Record Nr.	UNINA9910877352203321
Titolo	Freshwater prawns : biology and farming // edited by Michael Bernard New ...[et el.]
Pubbl/distr/stampa	Ames, Iowa, : Blackwell Pub., 2009
ISBN	1-282-29201-3 9786612292019 1-4443-1464-5 1-4443-1465-3
Edizione	[1st ed.]
Descrizione fisica	1 online resource (570 p.)
Altri autori (Persone)	NewMichael B. <1932->
Disciplina	639/.68
Soggetti	Shrimp culture Macrobrachium rosenbergii
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Freshwater Prawns; Contents; Preface; Contributors; Acknowledgements; 1 History and Global Status of Freshwater Prawn Farming; 1.1 Origins of modern freshwater prawn culture; 1.2 Global production status; 1.3 Summary of opportunities and constraints; 1.4 References; 2 Nomenclature and Taxonomy; 2.1 The genus Macrobrachium in aquaculture; 2.2 Nomenclature and historical perspective; 2.3 Taxonomy; 2.4 References; 3 Biology; 3.1 Habitat and life cycle; 3.2 Morphology and related topics; 3.3 Reproduction; 3.4 Ecdysis and growth; 3.5 Autotomy and regeneration; 3.6 Osmo-ionic regulation 3.7 Larval development 3.8 References; 4 Broodstock Management; 4.1 Collection of broodstock; 4.2 Broodstock management; 4.3 Larval hatching systems, collection and enumeration; 4.4 Future research avenues; 4.5 References; 5 Hatchery Systems and Management; 5.1 Hatchery design; 5.2 Facilities; 5.3 Water source and treatment; 5.4 General management; 5.5 Growth, survival, production and harvesting; 5.6 Small recirculation hatcheries; 5.7 Further developments; 5.8 References; 6 Larval Feeds and Feeding; 6.1 Desirable food characteristics

6.2 Supply, preparation and nutritional enhancement of brine shrimp (Artemia)6.3 Other larval feeds; 6.4 Feeding strategies; 6.5 References; 7 Nursery Systems and Management; 7.1 Indoor nurseries; 7.2 Outdoor nurseries; 7.3 Nursing in cages; 7.4 Multi-phase nursery systems; 7.5 Facilities; 7.6 Water quality; 7.7 Controlling predaceous insects in nursery ponds; 7.8 Stocking and the use of substrates; 7.9 Feeding strategies; 7.10 Survival; 7.11 Harvesting; 7.12 Size grading; 7.13 Transporting juveniles to grow-out ponds; 7.14 References; 8 Grow-out Systems - Site Selection and Pond Construction 8.1 Site selection8.2 Site development; 8.3 Pond system construction; 8.4 References; 9 Grow-out Systems -Monoculture; 9.1 Rearing systems; 9.2 Operation; 9.3 Prawn growth and survival; 9.4 Production models and productivity; 9.5 Monosex culture; 9.6 Environmental protection; 9.7 References; 10 Grow-out Systems - Culture in Temperate Zones; 10.1 Culture in temperate zones: problems and opportunities; 10.2 Temperate production cycle; 10.3 Low input approach; 10.4 High technology culture; 10.5 Marketing strategies; 10.6 Summary of the potential; 10.7 References 11 Grow-out Systems - Polyculture and Integrated Culture11.1 Fish and prawn interactions; 11.2 Management of prawn polyculture systems; 11.3 Integration of prawn culture with crop production; 11.4 General conclusions; 11.5 References; 12 Nutrition, Feeds and Feeding; 12.1 Diet and digestive physiology; 12.2 Nutrient requirements; 12.3 Grow-out feeds; 12.4 Feeding strategies; 12.5 Conclusions; 12.6 References 233; 13 Grow-out Systems -Water Quality and SoilManagement; 13.1 Water quality: impact and control; 13.2 Pond soil and sediment management; 13.3 Miscellaneous water and soil treatments 13.4 Environmental issues

Sommario/riassunto

Covering general biology and every aspect of farming freshwater prawns, from current research to development and commercial practice, this has become widely viewed as a landmark publication in the field. The well-known team of editors, New, Valenti, Tidwell, D'Abramo and Kutty, have gathered cutting-edge contributions from the world's leading experts to provide farm personnel, business managers, researchers and invertebrate, freshwater and crustacean biologists with an essential resource.
