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Nota di contenuto	Acknowledgements; 1 Introduction; 1.1 History; 1.2 Objectives; 1.3 Current status; 1.3.1 Marine and brackish-water shrimp; 1.3.2 Freshwater prawns; 1.3.3 Crayfish; 1.3.4 Clawed lobsters; 1.3.5 Spiny lobsters; 1.3.6 Crabs; 1.4 Advances and constraints; 1.5 References; 2 Biology; 2.1 Terminology; 2.2 Life history; 2.3 Moulting, growth, maturation and Excretion; 2.4 Nutrition; 2.4.1 Protein; 2.4.2 Lipids and sterols; 2.4.3 Carbohydrates, dietary fibre and chitin; 2.4.4 Protein : energy ratios; 2.4.5 Vitamins and minerals; 2.4.6 Other additives; 2.4.7 Broodstock nutrition; 2.4.8 Larvae nutrition 2.5 Disease2.5.1 Defence against infection; 2.5.2 Tolerance to

infection; 2.5.3 Stimulation of the immune system; 2.5.4 Viruses; 2.5.5 Bacteria; 2.5.6 Fungi; 2.5.7 Protozoa; 2.6 Genetics; 2.6.1 Genetic variation and heritability; 2.6.2 Selective breeding; 2.6.3 Hybridisation, sex reversal and manipulation of chromosome number; 2.6.4 Gene transfer; 2.7 References; 3 Markets; 3.1 Overview; 3.2 Marketing crustaceans; 3.2.1 Importance of correct handling and quality control; 3.2.2 Food safety and HACCP; 3.2.3 Importance of reliable supplies; 3.2.4 Harvesting strategies; 3.2.5 Market development 3.3 World crustacean markets3.3.1 Shrimp; 3.3.1.1 USA; 3.3.1.2 Japan; 3.3.1.3 Europe; 3.3.1.4 Other markets; 3.3.2 Freshwater prawns; 3.3.3 Crayfish; 3.3.3.1 USA; 3.3.3.2 Soft-shelled crayfish; 3.3.3.3 Europe; 3.3.3.4 Australia; 3.3.4 Clawed and spiny lobsters; 3.3.4.1 Clawed lobsters; 3.3.4.2 Spiny lobsters; 3.3.5 Crabs; 3.3.6 Analogue products; 3.3.7 By-products; 3.4 Markets for aquaculture technology, products and services; 3.4.1 Supplies; 3.4.2 Equipment; 3.4.3 Broodstock, nauplii and juveniles; 3.4.4 Services; 3.5 References; 4 Candidates for Cultivation; 4.1 Introduction; 4.2 Location 4.3 Broodstock4.3.1 Seasonal availability; 4.3.2 Ease of establishing and maintaining a broodstock; 4.4 Larvae; 4.4.1 Duration and complexity of larval life; 4.5 Post-larvae and juveniles; 4.5.1 Availability from the wild; 4.5.2 Nursery; 4.6 Ongrowing; 4.6.1 Growth rate and size distribution; 4.6.2 Tolerance to water quality changes; 4.6.3 Resistance to disease; 4.6.4 Other factors; 4.7 Comparison of species; 4.8 References; 5 Ongrowing Options; 5.1 Introduction; 5.2 Tropical climates; 5.2.1 Extensive; 5.2.2 Semi-intensive and intensive; 5.2.3 Super-intensive 5.3 Warm temperate and Mediterranean climates5.4 Temperate climates; 5.5 Polyculture; 5.6 Production of soft-shelled crustaceans; 5.7 Hatchery supported fisheries, ranching and habitat modification; 5.7.1 Restocking and stock supplementation; 5.7.2 Ranching and habitat modification; 5.8 References; 6 Site Selection; 6.1 Introduction; 6.2 Country or region; 6.2.1 Climate; 6.2.1.1 Temperature; 6.2.1.2 Rainfall; 6.2.1.3 Wind; 6.2.1.4 Evaporation and humidity; 6.2.1.5 Insolation (sunshine); 6.2.1.6 Climate change; 6.2.2 Availability and costs of essential inputs; 6.2.2.1 Broodstock and seedstock 6.2.2.2 Feeds and feed raw materials

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## Sommario/riassunto

Crustacean Farming: Ranching and Culture, Second edition. John F. Wickins and Daniel O'C Lee. The second edition of an extremely well-received book, Crustacean Farming, deals with all cultivated crustaceans of commercial significance, shrimp, prawns, crayfish, lobsters, crabs, and spiny lobsters, and examines the criteria by which both the feasibility and desirability of farming proposals are assessed. The characteristics and production methods of farmed and candidate crustacean species are described in sufficient detail to enable areas of profitable involvement to be

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