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DISEASES OF SEAWATER NETPEN-REARED SALMONID FISHES

This new volume by M.L. Kent and T.T. Poppe will be available in November 1998.

In 1992 Dr. Kent published *Diseases of seawater netpen-reared salmonid fishes in the Pacific Northwest*. Since 1992, there have been tremendous advances in fish health, particularly in the fields of diagnostics and vaccinology. Furthermore, with the continued growth of salmonid netpen aquaculture in the 1990's, several new (i.e., previously unrecognized) diseases have been reported. This new edition updates the original manual and expands the text to encompass diseases of importance for salmonid seawater netpen culture generally.

To complete this task, Dr. Kent has engaged Dr. T.T. Poppe, University of Oslo, Norway as a co-author. In addition, they have solicited the expertise of the following international experts: T.P.T. Evelyn, Leo Margolis, G.S. Traxler, and J.N.C. Whyte, Aquaculture Division, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C.; S.C. Johnson, NRC Institute for Marine Biosciences, Halifax N.S.; J. Brackett, Syndel Laboratories, Vancouver, B.C.; G. Karreman, CASH Program, Victoria, B.C., C. Stephen, Centre for Coastal Health, Malaspina University College, Nanaimo, B.C., and P. Bustos, Fundación Chile, Castro, Chile.

Described in the text are important diseases and pathogens of salmonid fishes reared in seawater

netpens, illustrated with many colour photographs and line drawings. This manual is intended primarily for workers at the netpen sites and field laboratories. Therefore, diagnostic characteristics for each disease that can be obtained by macroscopic observation, simple stains or wet mount preparations are emphasized. Information on more involved laboratory diagnostic techniques that may be required for confirmatory diagnosis are also included. In addition, descriptions of histopathological changes are included to provide an understanding of the pathogenesis of specific diseases. It is expected that most readers of the manual will have a basic training in microbiology, parasitology, pathology, and fish health. However, we hope that aquaculturists in general will also make use of the manual, and a glossary is provided in the appendix to familiarize fish farmers with some of the technical terminology used in fish health. Preservative and media formulations, and scientific names of fishes referred to in the text are also listed in the appendix. An abbreviated description of methods for conducting a disease investigation and a basic necropsy protocol are included. Methods for preservation and transport of specimens to a laboratory for further microbiological, histopathological, and chemical examinations are included.

Control of diseases is very important to the economic viability of netpen fish farms, and for each specific disease we provide information on control and treatment. In addition, Drs. Brackett and Karreman present an overview of

chemotherapy and vaccines for netpens. Dr. Stephen provides a review of outbreak investigations. It is hoped that this manual will help fish health practitioners and fish farmers identify diseases in pen-reared salmon, and that in doing so it will provide a sound basis for implementing appropriate control and treatment procedures.

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