



Cadmium in oysters and scallops: the BC experience

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Abstract

Health effects of non-occupational lifetime exposure to cadmium (Cd) are of growing concern worldwide. This overview provides some context for the current situation in coastal British Columbia, Canada, which arose in 1999 from the discovery of problematic residues of Cd in farmed Pacific oysters (*Crassostrea gigas*). Efforts are underway to define Cd sources and the geographical and seasonal variation of these Cd residues. The recent application by the European Community of a 1 µg Cd/g (wet weight) import limit to bivalve molluscs and the current deliberation by CODEX to adopt the same value, pose significant threats to the shellfish export trade in the Pacific Northwest (British Columbia, Washington and Alaska), where natural oceanographic conditions and coastal geology contribute to levels of Cd that usually exceed the 1 ppm limit. Human health aspects of chronic Cd exposure comprise an active field of study (this Symposium) and the validity of existing Provisional Tolerable Weekly Intake is being questioned. Bioavailability of Cd from the oyster and scallop matrix is unknown and requires study. Ramifications of this uncertainty may include damage to public perception of the safety of the cultured shellfish product, loss of export market and general undermining of an industry being encouraged by both the Province of British Columbia and Federal aquaculture initiatives. There is therefore a pressing need to redefine what the “safe” limit of lifetime Cd intake is from all sources, and determine bioavailability, specifically from bivalve molluscs. Such information would facilitate the definition of scientifically defensible Cd limits by CODEX.

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Keywords: Cadmium; Environmental sources; Bioavailability; CODEX; Pacific oyster (*Crassostrea gigas*); Scallop; Aquaculture; British Columbia; Canada

1. Background and socioeconomics of bivalve shellfish aquaculture in BC

In British Columbia, a downturn in a historically forest- and fisheries-based economy has resulted in hardship in many coastal communities and efforts

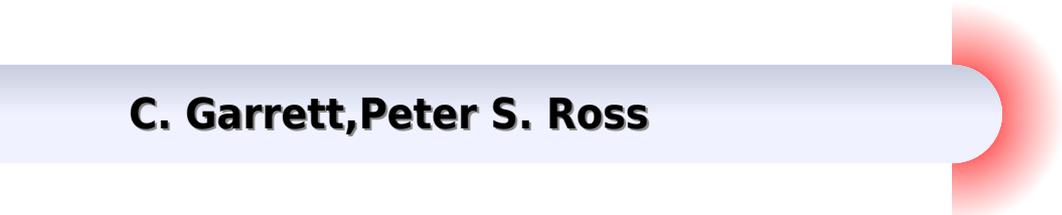
to find alternative employment opportunities are underway. Diversification into other pursuits especially aquaculture, both finfish and shellfish, has been encouraged by Provincial and Federal governments. In 1997, the BC shellfish industry comprised 258 companies, 423 shellfish tenures and supported ~1000 jobs. The Shellfish Development Initiative announced by the Provincial Government in 1997, planned to double the amount of crown land made available for bivalve shellfish aquaculture with projections of a

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C. Garrett, Peter S. Ross



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Shellfish Safety and Quality Sandra E. Shumway, Gary E. Rodrick, 2009-01-28 Shellfish are a very popular and nutritious food source worldwide and their consumption has risen dramatically. Because of their unique nature as compared to beef and poultry, shellfish have their own distinct aspects of harvest, processing, and handling. Edited by leading authorities in the field, this collection of review papers discusses issues of current interest and outlines steps that can be taken by the shellfish industry to improve shellfish safety and eating quality. Opening chapters provide an overview of the key issues associated with microbial and biotoxin contamination. Parts two and three then address in more detail methods to improve molluscan shellfish and crustacean quality and safety. Chapters focus on detection of algal toxins, monitoring and mitigation of the effects of harmful algal blooms, metals and organic contaminants, biofouling, disease control, and selective breeding. Part four reviews legislation, regulation, public confidence in shellfish, and risk management. Chapters on post-harvest issues such as depuration, storage, and packaging complete the volume. With its distinguished editors and international team of experts, *Shellfish Safety and Quality* is an essential reference for those in the shellfish industry, managers, policymakers, and academics in the field. Reviews the latest research on significant hazards such as microbial and biotoxin contamination. Discusses effective management of shellfish safety and quality, including emerging methods. Examines improved packaging methods.

Ecotoxicology Leah Bendell, 2025-10-24 A hands-on approach to understanding the impact of local and global stresses on ecosystems. *Ecotoxicology: A Case-based Approach* follows a learning-by-doing approach, building a deeper understanding of this multi-faceted discipline through the guided analysis of five carefully selected case studies that between them address both local and global anthropogenic impacts on ecosystem structure and function. The book is divided into three sections. Section I covers the definition, history, and methodology of ecotoxicology. Section II comprises five case studies, each detailing a selected anthropogenic stress, showing how the ecotoxicological approach has been used to explain its environmental impact and, by doing so, has provided mitigation and restoration strategies. The final section highlights future directions of ecotoxicology. To aid in reader learning, each chapter includes a test bank and reading list for further study. Written by a highly experienced instructor with more than 30 years of studying and teaching the subject, *Ecotoxicology* includes case studies on acid rain in the past and in the present; finfish and shellfish aquaculture; the extraction of bitumen from the oil sands of Alberta, Canada; the release of toxic metals such as mercury, lead, and cadmium; and the dumping of chemical wastes and other contaminants of concern in the Great Lakes area. *Ecotoxicology: A Case-based Approach* is an essential guide for upper undergraduate and postgraduate students in ecology and environmental sciences, as well as professionals and policy makers concerned with the conservation and sustainable management of natural resources. [Journal of Shellfish Research](#), 2007 [Canadian Technical Report of Fisheries and Aquatic Sciences](#), 2007 [Nutrition Abstracts and Reviews](#), 2004

Environmental Health Perspectives, 2004 [Recovering Resident Killer Whales](#) C. Garrett, Peter S. Ross, 2010

Pacific Ocean Synthesis ,2009 **Microlog, Canadian Research Index** ,1987 An index and document delivery service for Canadian report literature **Saudi Aramco World** ,2003 Government Reports Announcements & Index ,1984
Oceanic Abstracts ,1997 **Agrindex** ,1994 *Understanding Spatial and Temporal Dietary Effects on Cadmium Exposure in B.C. Oysters (Crassostrea Gigas)* Jeffery Christopher Christie,2009 Although recent growth of oyster aquaculture in B C has been rapid their export to international markets has been hampered by high concentrations of cadmium To date little is known about the effect of varying diets on oyster cadmium accumulation An oyster growout experiment was conducted at ten sites between two regions over the course of two years Stable isotope analysis of stomach contents and body tissue was coupled with trace metal analysis in an effort to determine the effect of diet on cadmium accumulation Abiotic and biotic factors were also measured to assess their influence on cadmium accumulation Oysters were found to accumulate higher levels of cadmium within Barkley Sound compared to Desolation Sound which coincided with significant differences in diets Diets composed of isotopically lighter components were found to result in higher levels of cadmium Important knowledge gaps however prevent making any specific recommendations to the shellfish industry **Cadmium in BC Farmed Oysters : a Review of Available Data, Potential Sources, Research Needs and Possible Mitigation Strategies** George M. Kruzynski,Canadian Stock Assessment Secretariat,2000 **Proceedings of a Workshop on Possible Pathways of Cadmium Into the Pacific Oyster (Crassostrea Gigas) as Cultured on the Coast of British Columbia, Institute of Ocean Sciences, March 6-7, 2001** Addison, R. F,Canada. Department of Fisheries and Oceans,George M. Kruzynski,Macdonald, R. W,Institute of Ocean Sciences, Patricia Bay,Workshop on Possible Pathways of Cadmium into the Pacific Oyster (Crassastrea gigas) as Cultured on the Coast of British Columbia (2001 : Sidney, B.C.),2002

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