

Cadmium in oysters and scallops: the BC experience

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Received 19 September 2003; received in revised form 22 October 2003; accepted 24 October 2003

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 deliberations 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*); Scallops; 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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Jeffery Christopher Christie



Cadmium In Oysters And Scallops The Bc Experience:

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, 2025-12-16 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 Recovering Resident Killer

Whales C. Garrett, Peter S. Ross, 2010 **Nutrition Abstracts and Reviews** ,2004 **Environmental Health**

Perspectives ,2004 *Pacific Ocean Synthesis* ,2009 **Microlog, Canadian Research Index** ,1987 An index and document delivery service for Canadian report literature **Saudi Aramco World** ,2003 *Oceanic Abstracts* ,1997
Government Reports Announcements & Index ,1984-03 **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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Table of Contents **Cadmium In Oysters And Scallops The Bc Experience**

1. Understanding the eBook **Cadmium In Oysters And Scallops The Bc Experience**
 - The Rise of Digital Reading **Cadmium In Oysters And Scallops The Bc Experience**
 - Advantages of eBooks Over Traditional Books
2. Identifying **Cadmium In Oysters And Scallops The Bc Experience**
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an **Cadmium In Oysters And Scallops The Bc Experience**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **Cadmium In Oysters And Scallops The Bc Experience**
 - Personalized Recommendations
 - **Cadmium In Oysters And Scallops The Bc Experience** User Reviews and Ratings
 - **Cadmium In Oysters And Scallops The Bc Experience** and Bestseller Lists

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 - Cadmium In Oysters And Scallops The Bc Experience Public Domain eBooks
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 - Cadmium In Oysters And Scallops The Bc Experience Budget-Friendly Options
6. Navigating Cadmium In Oysters And Scallops The Bc Experience eBook Formats
 - ePub, PDF, MOBI, and More
 - Cadmium In Oysters And Scallops The Bc Experience Compatibility with Devices
 - Cadmium In Oysters And Scallops The Bc Experience Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cadmium In Oysters And Scallops The Bc Experience
 - Highlighting and Note-Taking Cadmium In Oysters And Scallops The Bc Experience
 - Interactive Elements Cadmium In Oysters And Scallops The Bc Experience
8. Staying Engaged with Cadmium In Oysters And Scallops The Bc Experience
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cadmium In Oysters And Scallops The Bc Experience
9. Balancing eBooks and Physical Books Cadmium In Oysters And Scallops The Bc Experience
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cadmium In Oysters And Scallops The Bc Experience
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Cadmium In Oysters And Scallops The Bc Experience
 - Setting Reading Goals Cadmium In Oysters And Scallops The Bc Experience
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Cadmium In Oysters And Scallops The Bc Experience
 - Fact-Checking eBook Content of Cadmium In Oysters And Scallops The Bc Experience
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
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