

Alaska Mariculture Initiative: Economic Analysis to Inform the Comprehensive Plan: Phase 2 Report Outline

Executive Summary

Introduction

(McDowell Group)

Purpose and Scope of Phase 2

Mariculture Defined

Methodology

Report Organization

Chapter 1. Alaska's Mariculture Industry Today

(McDowell Group)

Shellfish (numbers of permits, operating farms, production volume and value, prices, trends, farming practices, current markets and market conditions)

Macroalgae (status of development efforts, production levels, farming practices, etc)

Enhancement Activity (overview of current research activity, plans, goals, budgets)

Integrated Operations (multi-species farm practices, vertical integration, etc.)

Summary Status of Alaska's Mariculture Industry

Chapter 2. Alaska's Mariculture Development Challenges and Opportunities

(McDowell Group and MTF Advisory Committees)

Barriers to Entry

Research Needs/Gaps

Regulatory Framework

Operating Costs/Logistics/Production Inputs

Access to Capital/Capital Requirements

Access to Markets and Market Development

Chapter 3. Investment Sources

(McDowell Group and MTF Advisory Committees)

Current Mariculture Financing Overview

Overview of Investment Strategies

Overview of Investment Opportunities

Sources of Capital (Private, Public, Public-Private Partnerships, Tribal, other)

Current State and Federal Funding Environment

Chapter 4. Economic Model for Development of Alaska's Mariculture Industry

(McDowell Group)

Farm Model Assumptions and Inputs

- Development scenarios, 30-year horizon
- Pace of new farm development
- Scale of farming operations (small, mid-size, large)
- Critical variables and sources of uncertainty

Farm Economic Impact Model Outputs

- Farm-gate and wholesale production volumes and values
- Employment and labor income (direct and indirect)
- State lease fees and harvest tax revenues

Farm Economic Impact Return on Capital Investment

Enhancement Model Assumptions and Inputs

- Annual investment in research/enhancement activity
- Timing and scale of enhance common property harvests
- Critical variables and sources of uncertainty

Enhancement Economic Impact Model Outputs

- Ex-vessel and first wholesale value of enhanced common property harvests
- Direct and indirect economic impacts (labor income, taxes) of enhanced common property harvests

Chapter 5. Strategic Development Goals, Pathways, and Outcomes

(McDowell Group and MTF Advisory Committees)

Economic Analysis of Potential Investment Strategies

- Farm Investment
- Enhancement Investment

Recommendations for Phase 3 Analysis