APPENDIX 9. SEVENTEENTH ANNUAL TECHNICAL REPORT CONTENTS

I. PRODUCTION OPTIMIZATION

Pond Dynamics Research
Pond Soil Characteristics and Dynamics of Soil Organic Matter and Nutrients (9PDR2)
New Site Development and Characterization (8KR1)
Effect of Mud Turbidity on Fertilization, and an Analysis of Techniques to Mitigate Turbidity Problems in Wet Season (8TR1)

Feeds and Fertilizers
Intensification of Tilapia Production: Effects of Feeding at Different Stocking Rates on Pond Water Quality (8HR1)
Relative Contribution of Supplemental Feed and Inorganic Fertilizers in Semi-Intensive Tilapia Production (8KR3)
Nutritional Contribution of Natural and Supplemental Foods for Nile Tilapia: Stable Carbon Isotope Analysis (8KR3A)
Global Experiment: Optimization of Nitrogen Fertilization Rate in Freshwater Tilapia Production Ponds during Cool Season (8FFR1K)
Global Experiment: Optimization of Nitrogen Fertilization Rate in Freshwater Tilapia Production Ponds (8FFR1T)
Timing of the Onset of Supplemental Feeding of Tilapia in Ponds (9FFR4)

Reproduction Control
Methods for Androgenesis Techniques Applicable to Tilapia (8RCR1B)
Detection of MT in Pond Water after Treatment with MT Food (8RCR3B)
Strain Variations in Sex Ratio Inheritance (8KR2)
Effect of Treatment Timing and Dose on Masculinization with Trenbolone Acetate (9RCR5A)

Aquaculture Systems Modeling
Aquaculture Pond Modeling for the Analysis of Environmental Impacts and Integration with Agriculture: Model Evaluation and Application to the Ecological Analysis of Integrated Aquaculture/Agriculture Systems (8ASMR1A)
Aquaculture Pond Modeling for the Analysis of Environmental Impacts and Integration with Agriculture: Modeling of Temperature, Dissolved Oxygen, and Fish Growth Rate in Stratified Ponds Using Stochastic Input Variables (8ASMR1B)

New Aquaculture Systems/New Species
Culture of Mixed-Sex Nile Tilapia with Predatory Snakehead (9NS2)

II. ENVIRONMENTAL EFFECTS

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Water Exchange to Rectify Low Dissolved Oxygen (8HR4)
Use of Pond Effluents for Irrigation in an Integrated Crop/Aquaculture System (9ER1)
Fate of Methyltestosterone in the Pond Environment: Detection of MT in Soil after Treatment with MT Food (9ER2A)
Fate of Methyltestosterone in the Pond Environment: Detection of MT in Pond Soil from a CRSP Site (9ER2B)

III. SOCIAL AND ECONOMIC ASPECTS

Marketing and Economic Analysis
Nonparametric Estimation of Returns to Investment in Honduras Shrimp Research (8MEAR1)
Risk Analysis of Shrimp Farming in Honduras (8MEAR2)
Development of Central American Markets for Tilapia Produced in the Region (9MEAR3)
Economic and Social Returns to Technology and Investment in Thailand Economic and Social Returns to Technology and Investment in Thailand (9MEAR4)
Adoption/Diffusion
Fish Culture in the Peruvian Amazon: Producer Perceptions and Practices in Three River Systems (8ADR1-1)
Sources of Technical Assistance for Fish Farmers in the Peruvian Amazon (8ADR1-2)
Impacts of Integrated Fish Culture on Resource-Limited Farms in Guatemala and Panama: An Ex-Post Evaluation (8ADR2)
Regional Outreach in Africa (8KR5)
Aquaculture Training for Kenyan Fisheries Officers and University Students (9ADR3)
Establishment of Companion Sites in the Africa Region (9ADR4)
Regional Outreach in Africa (9ADR5)

Decision Support Systems
Enhancing the POND© Decision Support System for Economics, Education, and Extension (9DSSR3)