Proceedings of the
MIDWEST REGIONAL
CAGE FISH CULTURE
WORKSHOP

August 24-25, 1990
Holiday Inn
Jasper, Indiana

Sponsored by:
Indiana Aquaculture Association, Illinois-Indiana Sea Grant Program,
Purdue University and University of Illinois Cooperative Extension
Services, and Southern Illinois University at Carbondale
A WORKSHOP
ON THE
MIDWEST REGIONAL CAGE CULTURE

D. L. Swann and P. B. Brown
Editors

Presented at
Southern Indiana Purdue Agriculture Center
and
The Holiday Inn
Jasper, Indiana
24-25, August, 1990
# MIDWEST REGIONAL CAGE CULTURE WORKSHOP

August 24-25, 1990

## TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome</td>
<td>ii</td>
</tr>
<tr>
<td>Program</td>
<td>iii</td>
</tr>
<tr>
<td>Species Selection</td>
<td>1</td>
</tr>
<tr>
<td>Joe Morris</td>
<td></td>
</tr>
<tr>
<td>Nutrition and Feeding</td>
<td>5</td>
</tr>
<tr>
<td>Paul Brown</td>
<td></td>
</tr>
<tr>
<td>Hybrid Striped Bass</td>
<td>8</td>
</tr>
<tr>
<td>Brian Nerrie</td>
<td></td>
</tr>
<tr>
<td>Site Selection and Water Quality</td>
<td>13</td>
</tr>
<tr>
<td>Dan Selock</td>
<td></td>
</tr>
<tr>
<td>Stress and Diseases</td>
<td>17</td>
</tr>
<tr>
<td>Rodney Horner</td>
<td></td>
</tr>
<tr>
<td>Economics and Marketing</td>
<td>27</td>
</tr>
<tr>
<td>Jean Riepe</td>
<td></td>
</tr>
<tr>
<td>Cage Culture in the Aquaculture Industry</td>
<td>34</td>
</tr>
<tr>
<td>John Morrison</td>
<td></td>
</tr>
<tr>
<td>Cage Construction</td>
<td>40</td>
</tr>
<tr>
<td>LaDon Swann</td>
<td></td>
</tr>
<tr>
<td>Conclusion</td>
<td>52</td>
</tr>
<tr>
<td>Acknowledgment</td>
<td>53</td>
</tr>
<tr>
<td>Sponsors</td>
<td>54</td>
</tr>
<tr>
<td>Appendix</td>
<td>55</td>
</tr>
</tbody>
</table>
Good morning: I cordially welcome each of you on behalf of the Illinois-Indiana Sea Grant Program, Southern Illinois University at Carbondale, and the Indiana Aquaculture Association to Indiana’s first of many Aquaculture Extension Workshops. I also welcome you to Southern Indiana, which is the heart of Indiana’s farm pond region. Many of the ponds in this region, like those in Southern Illinois, offer the potential fish farmer a means of learning essential fish husbandry skills at a relatively low cost.

I have great expectations for the aquaculture industry in Indiana and Illinois. These two states are historically agrarian, and are fortunate to be situated in the center of one of the largest marketing regions in the United States. One-half of the U.S. population lives within 500 miles of us. With this tremendous market for aquaculture products and the growing interest in aquaculture, universities like Purdue, University of Illinois and Southern Illinois University at Carbondale are mandated to provide educational and supportive services that will directly benefit our growing industry.

In response to our obligation, we sincerely hope that this cage culture workshop spawns similar industry directed programs through increased awareness of our services.

Before getting started with our first presentation, I want to remind you that this workshop is yours, so please feel at home and by all means ask questions during the next day and one-half. I feel that our speakers are experts in their fields and love to talk about fish farming. If at any time during the course of this workshop I can provide assistance to you, let me know.
MIDWEST REGIONAL CAGE CULTURE WORKSHOP

August 24-25, 1990

Holiday Inn, Jasper, Indiana
and
Southern Indiana Purdue Agriculture Center

FRIDAY, AUGUST 24, 1990

8:30  Welcome
      LaDon Swann

8:45  Species Selection --
      "What Can I Grow in Cages"
      Dr. Joe Morris

9:30  Nutrition and Feeding --
      "The Most Important Thing
      A Farmer Does Each Day"
      Dr. Paul Brown

10:15 Hybrid Striped Bass --
      "Is There an Alternative
      to Catfish?"
      Dr. Brian Nerrie

11:00 BREAK -- Travel to Southern
        Indiana Purdue Agriculture
        Center (SIPAC)

11:30 Site Selection and Water
      Quality --"Success or
      Failure in Cage Culture"
      Mr. Dan Selock

12:15 LUNCH at SIPAC

1:15  Return to Holiday Inn

1:45  Stress and Diseases --
      "How Not to Kill Your Fish"
      Mr. Rodney Horner

2:30  Harvest and Handling --
      "One Advantage to
      Cage Culture"
      Mr. Charlie Stevens

3:15  BREAK

3:30  Economics and
      Marketing --"Is it Profitable?"
      Ms. Jean Riepe

4:15  "Cage Culture in the
      Aquaculture Industry"
      Mr. John Morrison

5:00  FREETIME

7:00  BANQUET and Discussion
      "Alternative Agriculture"
      Dr. Steve Lovejoy

SATURDAY, AUGUST 25, 1990

8:00  TRAVEL TO SIPAC

8:30  Small Scale Processing
      Mr. Tim Anderson

9:15  Cage Construction
      "Round or Square"
      LaDon Swann

10:45 BREAK

11:00 Panel Discussion
      "Speakers and Farmers"

12:00 Closing Remarks/Evaluation