Thank you to all of the farms and agencies that provided the data to us for this presentation!

This presentation will be posted online at: www.ncaquaculture.org after the conference.
### Freshwater
- Trout (82)
- Catfish (22)
- Striped Bass (12)
- Tilapia (9)
- Freshwater Prawns (9)
- Crawfish (4)
- Southern Flounder (1)
- Yellow Perch (2)
- Sturgeon Caviar (1)
- Ornamentals (2)

### Saltwater
- Clams & Oysters (237 leases)
- Soft Shell Crabs (300 shedders)
- Southern Flounder (1)
- Black Sea Bass (1)

### 2009 NORTH CAROLINA AQUACULTURE BY REGION

<table>
<thead>
<tr>
<th>Region</th>
<th>Cool and Coldwater Flow-Through Tank Production</th>
<th>Water Limited Recirculating Tank Production</th>
<th>Warmwater Pond Production</th>
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<tbody>
<tr>
<td>Cool and Coldwater</td>
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Keith Hairr & Dean Raynor at an NC State Flounder Workshop
2009 NORTH CAROLINA
CATFISH INDUSTRY

22 Food Fish Producers
1,830 Pond Acres
7,628,000 Pounds
Weighted Average Price = $0.82

Farm Gate Value = $6,247,332

2009 NORTH CAROLINA
CATFISH INDUSTRY

1 Fingerling Producer
4,000,000 fingerlings
Farm Gate Value
= $400,000
2009 NORTH CAROLINA
CATFISH SALES & PROCESSING

1 Processor
Processed Value= $11,700,000

2009 NORTH CAROLINA
FEEDS PRODUCTION

1 Mill
Producing 17.2 million pounds of feed
Product Value= $3,400,000

Carolina Fish Feeds, Greenville, NC
2009 NORTH CAROLINA CATFISH INDUSTRY VALUE

Farm Gate, Processed Value Feed Milling = $21,747,332

2009 NORTH CAROLINA CATFISH INDUSTRY GENERAL TRENDS

Fewer Farms (consolidation)
Slightly Less Acres of Production
High Production Intensity
Relatively Stable Industry Output
Stable Farmgate Pricing
2009 NORTH CAROLINA
HYBRID STRIPED BASS
INDUSTRY*

12 Food Fish Producers
763 Pond Acres*
2,466,230 Pounds *

@ $2.90 – $3.20 / Pound
Farm Gate Value = $9,064,700

* 12 Active and 11 Reporting production from 701 acres

Dr. Craig Sullivan
NC State University

2009 NORTH CAROLINA
HYBRID STRIPED BASS
INDUSTRY

4 Hatcheries
4,950,000 Fingerlings
Produced

@ $0.17 - $0.40 each
Farm Gate Value = $1,237,500

Moving & Grading Hybrid Bass Fingerlings
2009 NORTH CAROLINA
HYBRID STRIPED BASS INDUSTRY
GENERAL TRENDS

- Fewer Farms
- More Farms Reporting this Year
- Stable Acres of Production
- Higher Production Intensity
- Stable Output
- Stable Farmgate Pricing

2009 NORTH CAROLINA
TILAPIA INDUSTRY STATUS

9 Growout Fish Barns*
967,140 Pounds
average price $2.19/lb.

Farm Gate Value
= $2,143,483
*One is a new farm with no production in 2009

$2,309,136 (in 2008)

Dale Pridgen, Tilapia Farmer
2009 NORTH CAROLINA TILAPIA INDUSTRY STATUS

4 Fingerling Barns
1,386,368 each
approx. $0.60 each

Farm Gate Value
= $831,208

Rick Jones, NCSU

2009 NORTH CAROLINA TILAPIA INDUSTRY GENERAL TRENDS

More Farms have their Own Nursery
Existing Farms Restocked from Nurseries
Stable Production Intensity
Output is Stablizing set for Growth
Stable Farmgate Pricing
One New Farm in 2009, One Being Built in 2010
2009 NORTH CAROLINA FLOUNDER INDUSTRY STATUS

1 Operation: Hatchery & Nursery
150,000 fingerlings produced

2 Growout Operations: One freshwater, one brackish
14,000 lbs. combined
Farm Gate Value = $56,000

2009 NORTH CAROLINA FLOUNDER INDUSTRY GENERAL TRENDS

Continued Strong Interest
One New Large Farm Being Built in 2010
2009 NORTH CAROLINA
BLACK SEA BASS
STATUS

1 R & D Operation at UNC Wilmington. Project Sponsor Carolina Black Sea Bass
2,500 lbs Produced

2009 NORTH CAROLINA
YELLOW PERCH
STATUS

2 Fingerling Growers
5 Acres of Production
400,000 Fish Sold (@$0.10 each)
Farm Gate Value = $40,000
2009 NORTH CAROLINA CRAWFISH INDUSTRY STATUS*

4 Active Growers
29 Acres
10,200 Pounds
$3.50 / lb.
Farm Gate Value = $35,700
Stable Industry

2009 NORTH CAROLINA FRESHWATER PRAWNS STATUS

9 Growers Active
38 Acres
32,000 Pounds
30% frozen tails $16 / lb.
70% whole fresh $8 / lb.
Farm Gate Value = $256,000
2009 NORTH CAROLINA FRESHWATER PRAWNS STATUS

1 Nursery
390,000 Juveniles

2009 NORTH CAROLINA PRAWN INDUSTRY GENERAL TRENDS

* Continued Strong Interest
* Good Coordination via Coop
* Market Shift from Frozen Tails to Whole Fresh Product
* One New Farm Built in 2009 will be in Production in 2010
2009 NORTH CAROLINA
CLAM & OYSTER
INDUSTRY STATISTICS*

237 Leaseholders
1,844 Acres Planted
4,175 Bushels Clams
5,011 Bushels Oysters
Farm Gate Value = $380,737

*data from July 1, 2008 – June 30, 2009

2009 NORTH CAROLINA
Blue Crab Shedding
INDUSTRY STATISTICS

300 Active Permits
199,072 pounds
Farm Gate Value = $1,139,527
2009 NORTH CAROLINA SHELLFISH AND CRAB SHEDDING GENERAL TRENDS

* Stable Clam Output
* Reduced Oyster Output
* More Crab Shedder, Slightly Less Output

2009 NORTH CAROLINA TROUT INDUSTRY

40 Food Fish Producers (-1)
4,388,000 Pounds (+22%)

@ $1.42 / Pound (-$0.02)

Farm Gate Value = $6,225,450 (+23%)
2009 NORTH CAROLINA TROUT INDUSTRY

17 Hatcheries (−2)
9,454,500 Fingerlings (−1%)

@ $0.08 each (nc)

Farm Gate Value = $790,550

2009 NORTH CAROLINA TROUT INDUSTRY

24 Fee Fishing Operations (−2)
260,000 Pounds (−4.4%)
@ $4.13 / Pound (+ $0.33)

Farm Gate Value = $1,074,250 (+3.9%)
2009 NORTH CAROLINA TROUT INDUSTRY STATUS

2 Processors (nc)

1,700,000 lbs (+6.25%)
(processed product)

Average Price of Products
= $5.17 / pound (+ $0.08)

Value = $8,795,000 (+8%)

2009 NORTH CAROLINA TROUT INDUSTRY IMPACT

Farm Gate and Processed Product
Value = $16,885,250
(+ $1,860,400 ; +12.4%)
2009 NORTH CAROLINA
TROUT INDUSTRY
GENERAL TRENDS

* Recovery from the Drought
* Recovered Output to Pre-Drought Levels
* Higher Pricing

2009 NORTH CAROLINA
Sturgeon (for caviar)
The LaPaz Group, LLC
Happy Valley, NC
Starting with a gift by William White to The NC State College of Ag and Life Sciences
Managing Partner: Joe Doll
56% Ownership of LaPaz + $3.8 million Gift
To complete the farm, conduct research and training, and to bring the company to profitability
2009 NORTH CAROLINA
Sturgeon (for caviar)  The LaPaz Group

Rick Jones, NC State Graduate Research Assistant

Building 2

Atlantic Sturgeon, Russian Sturgeon, Siberian Sturgeon

2009 NORTH CAROLINA
Aquaculture Operations and Farm Gate Value

146 Farms & 237 Shell Fish Leases 300 Crab Shedders

Farm Gate = $29,924,237

$29,953,722 (in 2008; - < 0.1% )
2009 NORTH CAROLINA
Aquaculture Processors & Product Value

3 Processing Plants
Processed Product Value = $20,495,000

$20,940,000 (in 2008; = -2.1%)

Sydney Seafood Market

2009 NORTH CAROLINA
Aquaculture Farm Gate, Processed Product and Feed Value

$53,819,237

$54,893,722 (in 2008; - <2% )
2009 NORTH CAROLINA
A New Research Facility

Marine Aquaculture Research Center

Made possible with a generous gift from Dr. IJ and Sue Won

Business Planning & Permitting Assistance

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Center Director

CMAST, NCSU
Seafood Lab
Dr. David Green
Professor
Ext. Specialist

AQUACULTURE IN EDUCATION
High Schools

Teaching Science through Aquaculture

Mr. Barry Bey, Instructor & Student
South Brunswick High School
AQUACULTURE CONFERENCES
A Public / Private Partnership for 21 Years

Major Sponsors
NC Dept. of Agriculture
NC State University
NC Farm Bureau
NC Small Business Tech. Dev. Center
NC Sea Grant
NC Aquaculture Association

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