

# Aquaculture in Education: What other states are doing and permits needed in NC

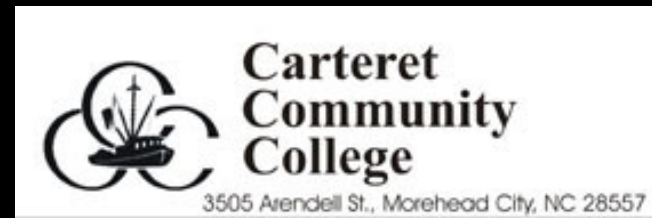
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# North Carolina High Schools

- South Davidson High School
- East Lincoln High School
- J.F. Webb High School
- S. Brunswick High School
- Northeastern High School
- North Lenoir High School
- Southern Guilford High School
- East Carteret High School
- West Craven High School
- Starmount High School
- W.G. Enloe High School
- Washington High School
- Northside High School
- Southside High School



# Higher Education in NC with Aquaculture



# NC Regulations

- NCDA&CS Aquaculture Production Permit
  - Free
  - Valid for 5 years
  - Covers 21 species
  - Can be obtained within a few weeks for covered species
  - <http://www.ncagr.com/aquacult/license.html>



NC Dept of Agriculture and Consumer Services Aquaculture License Application

\*\*\*\*\*All information required unless otherwise noted\*\*\*\*\*

|                                   |  |   |        |      |
|-----------------------------------|--|---|--------|------|
| Facility Name and Mailing Address |  | Owner or Responsible Party and Address                              |        |      |
| <br><br>                          |  | <br><br>  |        |      |
| Physical Location                 |  | County of Farm Location   |        |      |
| <br><br>                          |  | <br><br>  |        |      |
| Telephone number(s):              |  |   |        |      |
| Farm                              |  | Home  | Mobile | Fax  |
| <br>                              |  | <br>  | <br>   | <br> |
| Email Address (optional)          |  | Farm Website (optional)   |        |      |
| <br>                              |  | http://<br>   |        |      |
| License(s) Requested              |  |   |        |      |
| <input type="checkbox"/>          |  | 5 year Aquaculture Production (includes Holding Tank/Pond) License. |        |      |
| <input type="checkbox"/>          |  | 5 year Fee Fishing License  |        |      |
| <input type="checkbox"/>          |  | 2 year Holding Tank/Pond License                                    |        |      |

Would you like your farm contact information listed on the NCDA Aquaculture website?

\*Farms located in NC only

Yes No (<http://www.ncagr.com/aquacult/product.html>)

Primary species to be produced and description of primary activities  
(see attached list for species):

|              |
|--------------|
| <br><br><br> |
|--------------|

Please return this completed application to:  
NC Dept of Agriculture and Consumer Services  
Attn: Martha Worley  
1001 Mail Service Center  
Raleigh NC 27699-1001

# Covered Species

Bluegill *Lepomis macrochirus*  
Redear Sunfish *Lepomis microlophus*  
Redbreast Sunfish *Lepomis auritus*  
Green sunfish *Lepomis cyanellus*  
(Also any hybrids using above  
species of the genus *Lepomis*)  
Black Crappie *Pomoxis*  
*nigromaculatus*  
White Crappie *Pomoxis annularis*  
Largemouth Bass *Micropterus*  
*salmoides* (northern strain)  
Smallmouth Bass *Micropterus*  
*dolomieu*  
White Catfish *Ictalurus catus*  
Channel Catfish *Ictalurus punctatus*

Golden Shiner *Notemigonus*  
*crysoleucas*  
Fathead Minnow *Pimephales*  
*promelas*  
Goldfish *Carassius auratus*  
Rainbow Trout *Oncorhynchus mykiss*  
Brown Trout *Salmo trutta*  
Brook Trout *Salvelinus fontinalis*  
Common Carp *Cyprinus carpio*  
Crayfish *Procambarus species*  
Yellow Perch *Perca flavescens*  
Hybrid Striped Bass *Morone saxatilis*  
*X M. chrysops*  
American Alligator *Alligator*  
*mississippiensis*

# Non-Covered Species

Written permission needed from NC Wildlife Resources Commission for species not covered by NCDA&CS Aquaculture Production Permit



# Non-Covered Species

- Apply for NCDA&CS Permit
- NCDA&CS makes request on your behalf to NCWRC
- NCWRC arranges for site visit to determine if there may be any environmental impacts
- NCWRC informs NCDA&CS of approval/denial
- NCDA&CS issues permit along with a copy of written permission from NCWRC
- Can possibly take at least a month for approval process



# Other States With High School Programs

Alabama-40

Arizona- 27

Arkansas- 12

Connecticut- 3

Delaware- 14

Florida- 1

Georgia- 3

Maine- 1

Maryland- 34

Mass.- 3

New Jersey-1

New York- 1

Ohio- 1

Rhode Island- 1

West Virginia- 2

Tenn.-3

# National Aquaculture Educators Network

- New national interest from WAS
- “to help coordinate, leverage expertise, and advance programs nationally”
- Special Session at AA2006 in Las Vegas
- Contact David Cline, Auburn University  
dcline@aces.edu or phone 334-844-2874  
for more information

# Summary

- Aquaculture is gaining popularity in the classroom
- High school programs are all over the country
- Kids really enjoy it
- Can be used to teach almost anything