Northeastern Regional Aquaculture Center

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Initial Questions the County Agent Can Ask the Prospective Fish Culturist

Gef Flimlin, New Jersey Sea Grant Marine Advisory Service

This publication will help extension personnel, who have little or no experience with aquaculture operations, respond to requests for assistance. Completed questionaires, documenting areas of interest, will be to the state Aquaculture Specialist (or other knowledgeable agent*) to determine the most appropriate for the prospective fish farmer. Agents should retain a copy of the completed questionaires for their records and to help direct program development.

*Identified by the the director of extension in each state and listed in the quarterly newsletter, *Northeastern Aquaculture*, published by the Northeastern Regional Aquaculture Center.

Questionnaire

Personal Information

Date:
Name:
Address:
City:
County:
State: ZIP:
Phone: Home ()
Business ()
What do you want to grow?
not sure
2. Are you currently employed? (Y, N)
In what occupation?
3. Are you planning to do aquaculture $\ \square$ full or $\ \square$ part time?
4. Is your interest in aquaculture intended for
□ business? □ hobby? □ other?
5. What brought about your interest in aquaculture?
6. Have you ever raised fish? (Y, N)
Comment:

Note: Extension Agents could now stop the survey if just a general inquisitiveness about aquaculture is expressed. In this case a basic packet of aquaculture information that includes fact sheets, bulletins, pamphlets, or listings of books and periodicals could be sent to the caller. These materials should be available from the USDA designated Principal Extension Contact for aquaculture in each state.

I. Physical Parameters

Where do you plan to culture your fish? (check one or more)		
☐ Ponds (go to "A" if existing, "B" if ponds must be constructed		
☐ Raceways or Flow-through systems (go to "C")		
☐ Closed systems: ☐ indoors ☐ outdoors (go to 🎞)		
□ Other:		
(go to "II", "III", or "IV" as appropriate)		
☐ Undecided (send basic information and file for callback)		
A. For existing ponds:		
1. How old is the pond?		
2. Is the pond □ natural or □ constructed?		
3. What shape and how large is the pond?		
□ Round □ Oblong □ Square		
☐ Rectangular ☐ Irregular		
Surface acres or dimensions:		
Maximum depth Average depth		
4. Is the pond drainable? (Y, N)		
If so, what type of drainage structure does it have? (e.g., gate valves, flash board risers, other)		
5. Are there any tree stumps in the pond? (Y , N)		
6. Are there any deep holes in the pond? (Y, N)		
7. Do you plan to use \square cages or \square small net pens?		
8. Does the pond freeze during the winter? (Y, \mathbb{N})		
How deep?		
9. What is the present use of the pond? (irrigation, recreation,		
etc.)		
10. Does the pond have an outflow? (Y, N)		
Into what?		
11. Is there any known or suspected runoff into the pond from		
agricultural fertilizers or pesticides, septic leakage, roads, stock feedlots, garbage dumps, etc.? (Y, N)		
If yes, indicate what		

12. Has the pond ever purposely been treated with fertilizers,	D. For closed systems:
chemicals, or lime? (Y, N)	1. Is it your own design? (Y, N)
Which and when?	If yes, have you tried it on a small scale? (Y, N)
13. Does the pond lose much water through evaporation during the summer? (Y, N)	2. Is it a purchased system? (Y, N)
How much does the water level drop?	If yes, have you seen other systems from this supplied to operation? (Y, N)
14. What aquatic species are in the pond now?	Have you seen operating costs, production figures, records, or maintenance information for it? (Y, N)
	3. Have you estimated your potential utility costs? (Y, N)
15. Is the area subject to flooding? (Y, N)	4. Do you have an appropriate disposal plan for the system
16. Is electricity available at the pond? (Y, N)	waste material? (Y, N)
Voltage and phase?	(go to II, Water Analysis)
(go to II, Water Analysis)	
B. For ponds to be constructed:	II. Water Analysis
1. Do you own the land? (Y, N)	
2. How much land is available?	1. What is the water source?
3. Topography - flat, sloped, wooded, etc.	□ Well How deep?
	☐ Stream or river
4. Is the proposed pond site considered wetland? (Y, N)	□ Spring
5. Is site subject to flooding or in a flood plain? (Y, N)	☐ Water table
6. What is the soil type?	☐ City water
7. Have pesticides been used in the area? (Y, N)	□ Run off
Which ones?	2. What is the volume of flowing water available in galloss per
8. Is electricity available at the site? (Y, N)	minute?
Voltage and phase?	Do you know these water chemistry parameters for your source? (Y, N)
9. Are there roads or all weather access to the area? (Y , N)	If yes, indicate the values and any known fluctuations?
10. Where will the effluent go when the pond is drained?	☐ Hardness:
	☐ Alkalinity:
(go to II, Water Analysis)	□ pH:
	☐ Dissolved oxygen:
C. For flow-through raceways:	☐ Temperature range:
1. Is water flow constant year round? (Y, N)	☐ Iron or mineral content:
2. Where would effluent go?	☐ Turbidity or clarity analysis:
3. What is the yearly water temperature range?	☐ Color (eg. green, light brown, dark brown, etc.):
4. Do you have an appropriate disposal plan for the uneaten food and fecal material? (Y, N)	□ Salinity:
(go to II. Water Analysis)	

III. Fish Biology	 Is there a knowledgeable labor force available in the area (Y, N)
1. What fish are you proposing to grow?	Will this be a family operation? (Y, N)
	11. Have you discussed this venture with (name of contact):
2. Why are you choosing this fish to culture?	☐ State Fisheries Agency
	☐ State Department of Health
	☐ State Department of Agriculture
<u></u>	☐ Local Soil Conservation District
3. Are you knowledgeable about its biology, nutrition, physical, and physiological requirements? (Y, N)	☐ University Fisheries Staff
4. In the culture operation will you:	12. List other contacts made:
☐ Condition and spawn broodstock	
☐ Incubate and hatch eggs	
☐ Rear fry	*
☐ Rear fingerlings	
5. Have you researched its marketability? (Y, N)	County Agent Action and/or comments (advice given, publications sent, referrals):
IV. Business Concerns	
1. Have you done a business plan? (Y, N)	List and analiga avertions from the collect
2. Do you have a marketing plan? (Y, N)	List any specific questions from the caller:
3. Do you have financing? (Y, N)	
Enough to cover you for three years or through several crop failures? (Y, N)	
4. Any relevant previous experience in aquaculture, farming, or marketing seafood? ($Y,\ N$)	This completed form should be sent to:
5. Have you had any aquaculture training or education? (Y, N)	
Describe:	
6. Do you anticipate any problems with neighbors? (Y, N)	
7. Has this project been discussed with the town zoning office? (Y, $$ N $$)	Acknowledgments
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8. Have you contacted the state agency(ies) responsible for a quaculture permits? (Y, N) $$	Commerce under grant number NA89AA-D-SG057 (Project No.A/S-1).
9. Do you have access to fingerlings, feed, and appropriate aquaculture supplies? (Y, N)	Any opinions, findings, conclusions or recommendations expressed this publication are those of the author and do not necessarily

the views of the U.S. Department of Agriculture.