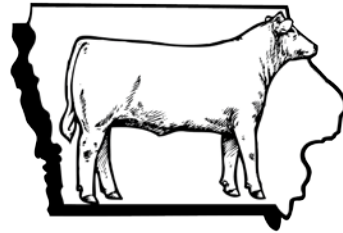


COALITION TO SUPPORT IOWA'S FARMERS

MEMBER ORGANIZATIONS



Iowa Cattlemen's



Association





WHO WE ARE



Rules for Fish Farms



► Size matters:

- Capacity determines which rules apply. Capacity is the maximum number of animals that will be confined at any one time.
- 500 Animal Units or Less - Small Animal Feeding Operations (SAFO)
- 500 to 1,000 Animal Units

New
Confinements,
Size matters!

What is an Animal Unit?

Animal Unit Conversion Factors

Species	Animal Unit
Slaughter and feeder cattle	1.0
Immature dairy cattle	1.0
Mature dairy cattle	1.4
Swine over 55 pounds	0.4
Swine between 15 and 55 pounds	0.1
Sheep or lambs	0.1
Turkeys over 112 ounces	0.018
Turkeys less than 112 ounces	0.0085
Chickens over 48 ounces	0.01
Chickens less than 48 ounces	0.0025
Fish	0.001

What rules apply to all sized confinement barns?

- ▶ Setbacks to water
- ▶ Check for Alluvial and Karst soils
- ▶ Stormwater discharge permit
- ▶ All confinement animals counted together (Combination Farms)



Setbacks from water bodies:

- ▶ 100 to 200 feet for a confinement from a private well
- ▶ 500 feet from a water source (lake, river, reservoir, creek, stream, ditch or other body of water having definite banks and a bed)
- ▶ 1000 feet from a major water source (navigable lake or river listed in DNR rules)
- ▶ 2500 feet from a designated wetland
- ▶ 1000 feet from a known sinkhole





Alluvial and Karst

- ▶ **Alluvial soil/floodplain:** Alluvial soils are soils deposited by running water and are often located in existing **floodplains**.
- ▶ **Karst/Bedrock:** Karst terrain is characterized by the **presence of easily dissolved bedrock** (limestone and dolomite) near the ground surface. Because carbonate rocks can be dissolved by groundwater, karst areas are often characterized by **sinkholes, springs, and losing streams** where some surface flow is lost to groundwater.



Stormwater Discharge Permit

- Stormwater discharge permit: A storm water discharge permit is required if the **area disturbed during construction is more than one acre.**



500 to 1,000 Animal Units (500,000 fish)

- ▶ Separation distances to residences, businesses, churches, schools, public use areas, and public roads must be met.
- ▶ Manure Management Plan or Nutrient Management Plan
- ▶ Certified Manure Applicator
- ▶ Construction Design Statement and Standards

Confinement Animals Counted Together (Combination Farms)

- ▶ Under state law, for the purpose of new construction permitting, all animal units in the same production practice need to be counted together.
- ▶ What this means is if you have a 1,200 head confinement hog barn and you are considering building a 250,000 head fish barn, you would need to count the animal units from both confinements together to know what separation distances and permitting requirements would need to be met for the proposed fish farm.



Siting Considerations

Permitting

◦Environmental

- Construction Permit (120 days out)
- Master Matrix
- MMP

◦Production

- Importation Permit - needed for exotic species (Alan Johnson at Iowa DNR)
- Aquaculture Unit License
needed to buy, sell or trade fish in Iowa (Alan Johnson at Iowa DNR)

Siting Considerations

- ▶ Getting rid of waste water
- ▶ Nutrient analysis
- ▶ Acres needed
- ▶ Method of application
 - ▶ Hauling
 - ▶ Irrigation
 - ▶ NPDES Permit
 - ▶ Discharge to a POTW (Publicly-owned treatment works)



Manure Storage Structures

- ▶ Earthen basin
 - ▶ Can't locate in a flood plain or on Karst soil
 - ▶ Have separation distances to follow
 - ▶ Ground water table separation
- ▶ Formed structure
 - ▶ Can't locate in a flood plain & Karst rules apply
 - ▶ Have separation distances to follow



Fish and shrimp production in town

You are not an AFO - “the rules go away”

Use less than 25,000 gallons of water/day- not classified as industrial

Biochemical Oxygen Demand is the limiting factor. (BOD is a measure of organic matter that removes oxygen from the water).

Stay under the limit or get a Treatment Agreement from the city

Discharge rate from your facility is less than 5% of treatment plants flow load per day

Before building, get yourself educated!



- ▶ You will have a lot of interest in your project!
- ▶ It costs too much to do it wrong!
- ▶ Contact the Coalition to help you with the rules.
- ▶ Have a plan for today and tomorrow!

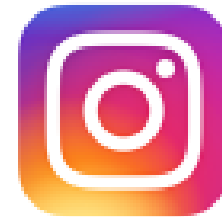
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