

Iowa Aquaculture

Rules and Regulations

November 14, 2017

Iowa Aquaculture Conference

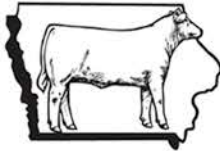
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Coalition to Support Iowa's Farmers: a team effort



Iowa Cattlemen's



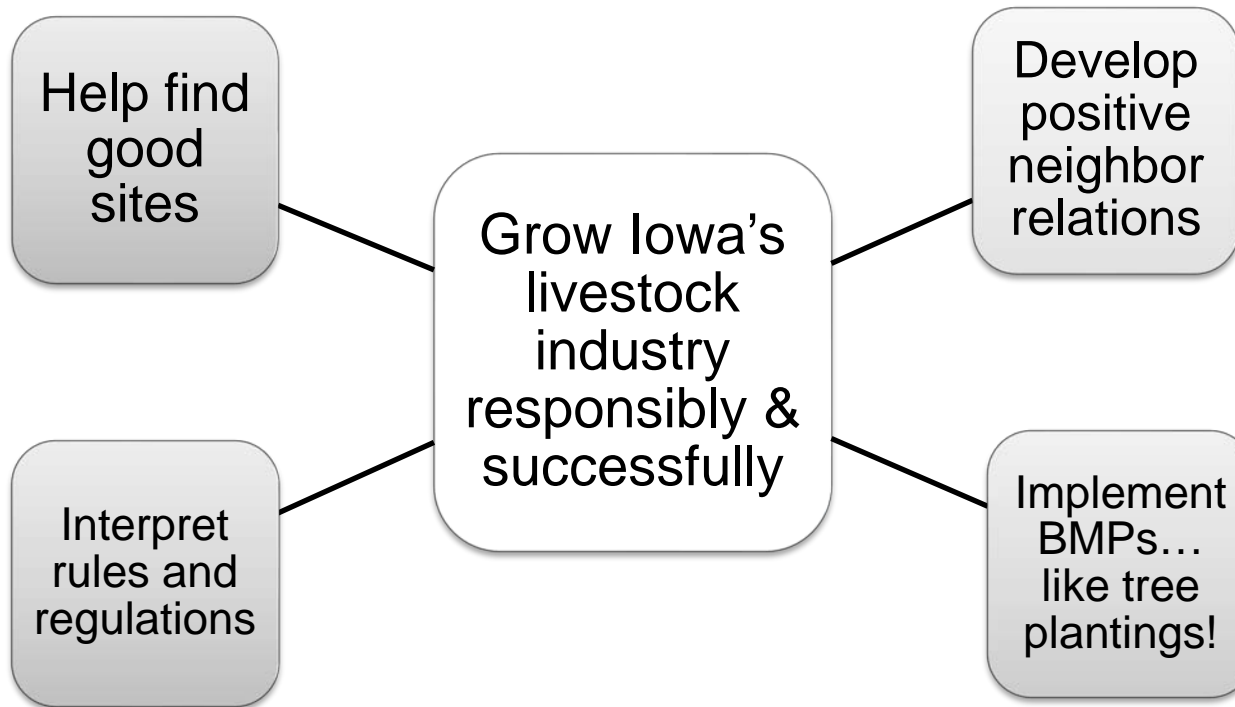
Association



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What We Do

No cost AND confidential services for Iowa farm families



Primary Goal:

Grow Iowa's Livestock Industry!

- Interpreting rules and regulations
 - Siting new facilities
 - Existing facilities
- Enhancing neighbor relations
- Implementing BMPs – like planting trees



What We Are Seeing Today

- Livestock!
 - Cautious Optimism
 - Diversification
 - Young people returning
 - Growth on existing farms
 - New projects on crop farms
 - Livestock being added on farms that haven't had any for 2-3 generations



“New” Opportunities

- Shrimp Farming
- Fish Farming



Farmers Are Under The Microscope Today

- Whether you are a new or existing farmer, you must plan for growth
- Big or small, you need help to grow the family farm today
- You may only get one chance to do it... so do it right and make it count
- The Coalition is here to help



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So you want to build a confinement barn...

- 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



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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

Counting Animal Units

- 1 fish = .001 AU's
(499,999 is the number)
- Neighbors – they will have concerns
- Water usage – will need to check supply
- Other Livestock on the farm?
 - Confinement
 - Open lots



Rules that apply to all sizes

- Setbacks to water
 - 500 feet for liquid manure
 - 200 feet for dry manure
- Setbacks to wells
 - 100 feet deep well; 200 feet shallow well
- Check for Alluvial and Karst soils
- Stormwater discharge permit
- All confinement animals counted together

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



500 to 1,000 Animal Units

- Additional:
 - 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



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 (\$27.50)
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)



Fish & 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



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Siting – Every farm is unique...

- Call the Coalition
- Set up a farm visit
- Free
- Confidential
- “One Stop Shop”
- Goal – see farmers succeed
- We are here to help – don’t “just go build it”



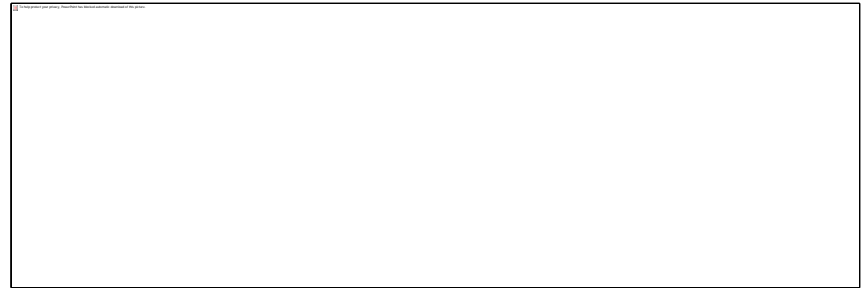
Livestock & Poultry Numbers are Growing and Evolving...



- CSIF plays a big role in maintaining a positive outlook in Iowa agriculture
- We all need to work together and focus our efforts on growing the livestock industry in Iowa

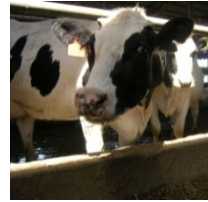
Stay Connected with the Coalition

- Website – www.supportfarmers.com
 - New farmer testimonials, upcoming events, new information and updates impacting farmers today
- Iowa Livestock Insider Newsletter
 - Sign up: www.supportfarmers.com/newsletter
- Green Farmstead Partner program blog
 - <http://greenfarmstead.blogspot.com>
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Questions?



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