

Work Plan Agreement between Iowa DNR and EPA Region VII



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Iowa – Number One

2012 Census of Agriculture

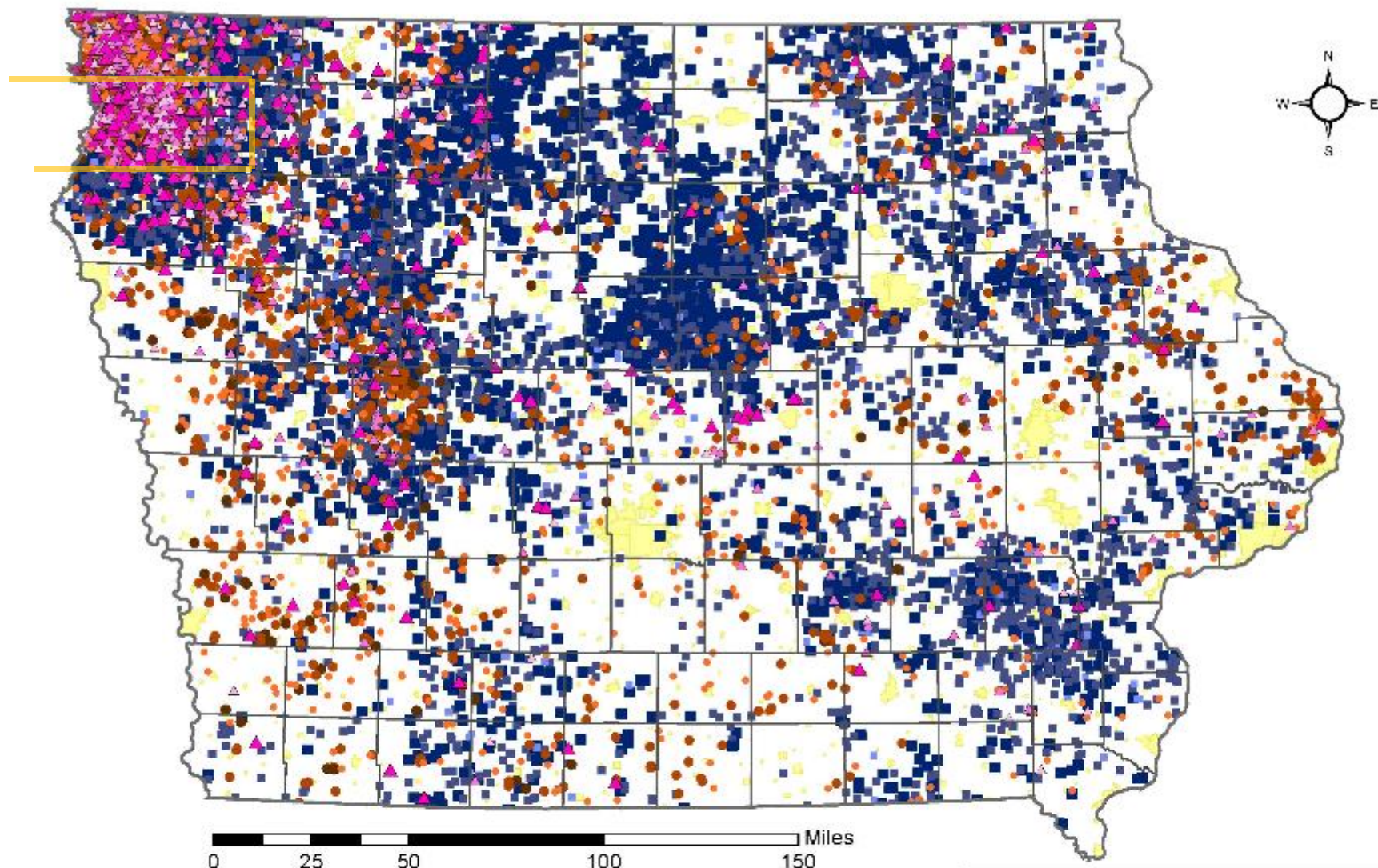
- **Small state but ag products total \$30.8 billion in sales**
 - #1 in grain sales - \$17.4 billion
 - Livestock sales - \$13.4 billion
- **#1 in corn, soybeans**
- **#1 in hogs and pigs - 22.9 million**
- **#1 in layers - 52.2 million**
- **# 6 in cattle and calves - 4 million**
- **# 9 in turkeys - 4.4 million**
- **#12 in dairy cattle**



State Law - Open Lots and Confinements

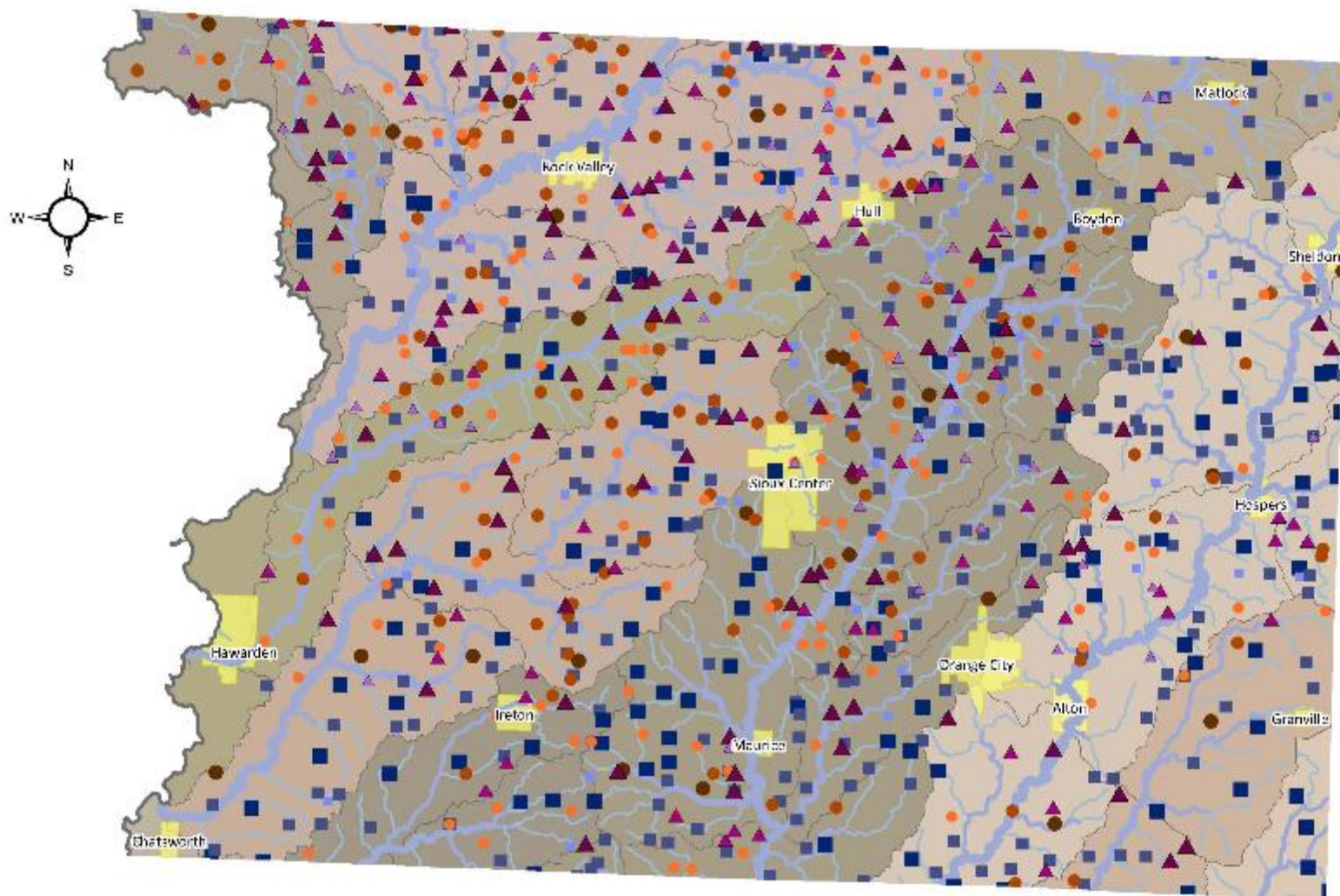


Unroofed or Roofed



Animal Feeding Operations in Iowa (2014)

Legend		
Combined animal units	Open Feedlots animal units	Confinements animal units
△ <300 au	○ <300 au	□ <300 au
△ 300-1000 au	○ 300-1000 au	□ 300-1000 au
△ >1000 au	○ >1000 au	□ >1000 au



Legend		
Combined	Open Feedlots	Confinements
animal units	animal units	animal units
▲ <300 au	● <300 au	■ <300
▲ 300-1000 au	● 300-1000 au	■ 300-1000
▲ >1000 au	● >1000 au	■ >1000

0 2.5 5 10 15 20 Miles

Animal Feeding Operations in Sioux County (2014)

Another way to look at it...

- More than 80 million livestock and poultry animals
- 3 million people



Petition for Withdrawal of NPDES Program

- Submitted September 2007 by
 - Iowa Citizens for Community Improvement
 - Sierra Club
 - Environmental Integrity Project
- Informal investigation in 2012 found deficiencies in Iowa's CAFO NPDES program
- Iowa satisfactorily resolved 26 of 31 alleged deficiencies
- The Work Plan Agreement addresses remaining issues

Work Plan Agreement

- Means to strengthen NPDES program, particularly Animal Feeding Operations (AFOs)
- Generally spans 5 years
- Commits to environmental improvement
- Signed Sept. 11, 2013



**Work Plan Agreement
Between**

The Iowa Department of Natural Resources and the Environmental Protection Agency Region 7

The Iowa Department of Natural Resources (DNR) and the U.S. Environmental Protection Agency (EPA) Region 7 currently work together to implement the federally authorized, National Pollutant Discharge Elimination System (NPDES) Program within Iowa in a timely, appropriate and effective manner. We establish priorities, negotiate program commitments and work sharing, and evaluate program performance.

DNR and Region 7 are executing this Work Plan as a means to strengthen Iowa's implementation of the federally authorized NPDES program. This Work Plan contains activities and commitments by DNR and Region 7 that generally span federal fiscal years (FFY) 2013 – 2019.

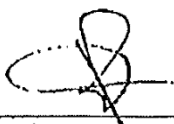
DNR and Region 7 will monitor progress under this Work Plan via existing program to program communications, new reporting pursuant to this Agreement, as well as during our annual joint senior management planning meeting. Work Plan elements may be adjusted by mutual agreement. As part of our joint Performance Partnership Grant (PPG) planning process, DNR and Region 7 will formally assess the need to negotiate any revisions to this Work Plan.

The execution of this Agreement demonstrates our continuing commitment to environmental improvement through a strong partnership and shared responsibility for meeting our regulatory obligations.

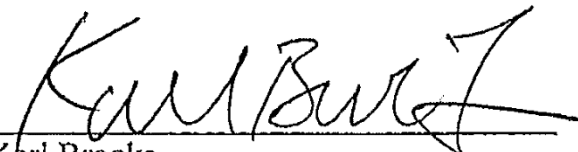
Entered into on 9/11/13

For DNR:

For U.S. EPA Region 7



Chuck Gipp
Director



Karl Brooks
Regional Administrator

Work Plan elements

- Incorporate federal regulations by reference
- Adopt federal regulations related to setbacks for land application of manure
- Add setbacks to NMP form
- Add Alternative Technology modeling requirements to construction permit application



Compliance Evaluation and Inspections

- Implement a comprehensive survey to identify CAFOs that discharge without an NDPES permit
- Provide baseline inventory of AFOs to EPA
- Systematically locate and identify unknown
 - large CAFOs and
 - medium-sized AFOs



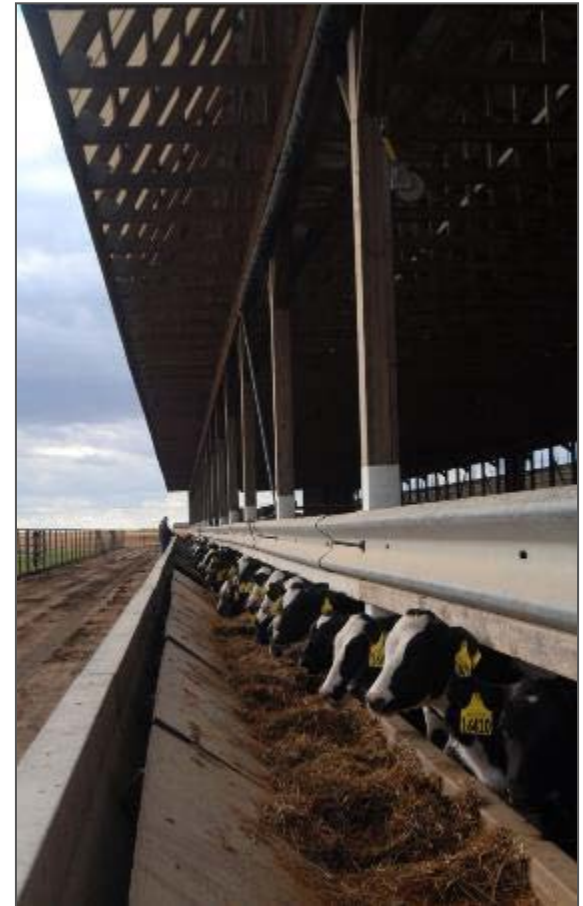
Compliance Evaluation and Inspections

- Complete a comprehensive survey of all large CAFOs and medium-sized AFOs within 5 years
- May be either
 - on-site inspections or
 - desk-top evaluations
- Perform approximately 20% annually
- DNR estimates approximately 8,500 facilities in Iowa
- Inspect 20% of NPDES-permitted facilities annually



On-site or desk-top inspections

- All large CAFOs received an on-site inspection – Some inspections after Nov. 1, 2011 may count if they were substantially equivalent
- Medium-sized AFOs may or may not receive an on-site inspection depending on
 - location
 - housing type and
 - manure storage



Resources and Training

- Legislature appropriated funding for approximately 7 new DNR AFO staff
- Annual evaluation of staff resources
- DNR
 - Hired staff
 - Developed CAFO NPDES training curriculum
 - Trained new and existing staff



Enforcement Action and Issuance of NPDES permits

- Facilities found to be discharging must either
 - apply for an NPDES permit or
 - clearly eliminate the discharge
- Enforcement required against CAFOs found with illegal discharges
- Consistent and appropriate enforcement responses



Update of progress to EPA and to the public

- Post progress reports on DNR website
- Annual reports due Aug. 1

www.iowadnr.gov/afo/

search for EPA DNR work plan

or

www.iowadnr.gov/Environment/LandStewardship/AnimalFeedingOperations/EPADNRWorkplanMaterials.aspx

Inspections Completed For Work Plan as of 7/23/18

- 2013 – Baseline Inventory 8582
- 8197 – Desk Top Inspections Conducted
- 4588 – On-Site Inspections Completed
- 252 – Return On-Site Inspections

Unclassified AFO Search

*5,063 AFOs Identified from Aerial Photography

July 31, 2018		
Small AFO	1,445	52%
Medium AFO	501	18%
Medium AFO (Needing MMP)	10	0.3%
Large CAFO	8	0.3%
Not an AFO	134	4.8%
Abandoned or Closed AFO	538	19.4%
Part of Existing AFO	136	4.9%
Left to Contact	2,291	45.2%

2017 Construction Totals

[illegible]

September, 2018

Iowa DNR AFO Database

- 170 – Facilities With NPDES Permits
- 3,704 – Large CAFOs
- 7,703 – Medium AFOs
- 968 – Small AFOs
 - Most Not Included In Database
- 8,452 - Total MMPs
 - Required For Confinements 500 AU or Greater



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Questions?