

Presentation on the limitations of the Master Matrix

Tuesday, February 2, 2021

Item #4
2/2/2021

Speakers:

- Claudia Reyes-Fry, Davenport
- Kay Pence, Eldridge

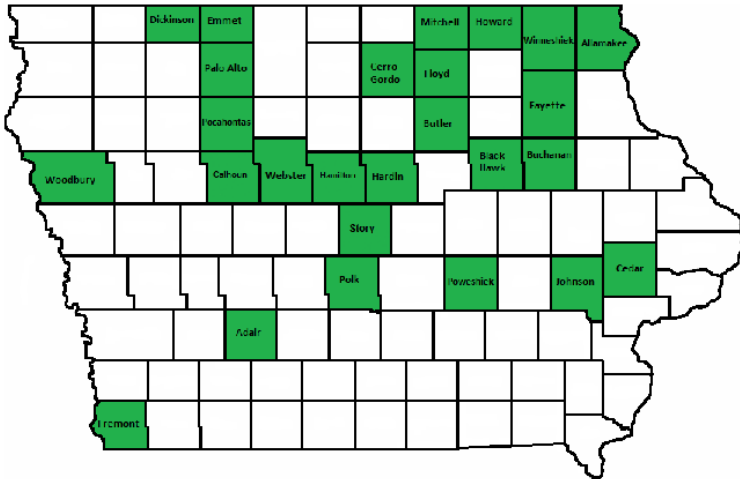
Agenda

1. Introduction
2. The Master Matrix construction evaluation has been the standard practice since 2002
3. Limitations of the Master Matrix
 - a. Consideration of soil topography throughout the state
 - b. Protecting our impaired waterways
 - c. Loopholes in the requirements needed to fill out a Master Matrix
 - d. Separation distances and community input
4. An additional resolution is important and needed
5. Conclusion

Presentation Packet Materials

(in order of reference throughout presentation)

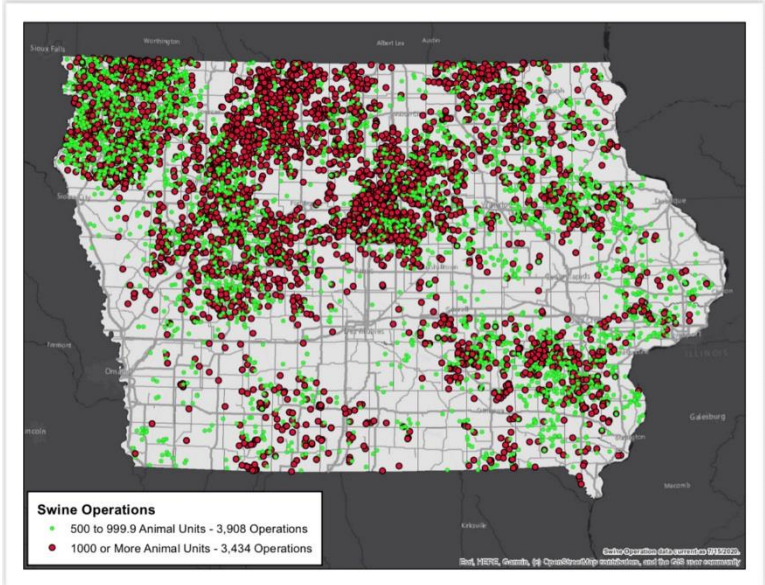
- Page #1: Speaker info, agenda, overview of presentation packet materials
- Page #2: Maps
 - Map of county resolutions
 - Maps of CAFOs (Source: Iowa DNR)
- Page #3-4: Information on Scott County CAFOs
 - Source: State of Iowa: Office of the Chief Information Officer
- Page #5: Snapshot of Iowa's water
 - Iowa impaired waterways (Source: Iowa DNR)
 - Map of contaminated wells (Environmental Working Group)
- Page #6: Letter to the Scott County Board of Supervisors
- Page #7: Sample resolution language
- Page #8: Additional resources



Counties that have passed resolutions calling on the Governor and State Legislature to address the ongoing issues of the Master Matrix.



All Animal Feeding Operations in Iowa (2002)



Swine Operations in Iowa (2020)

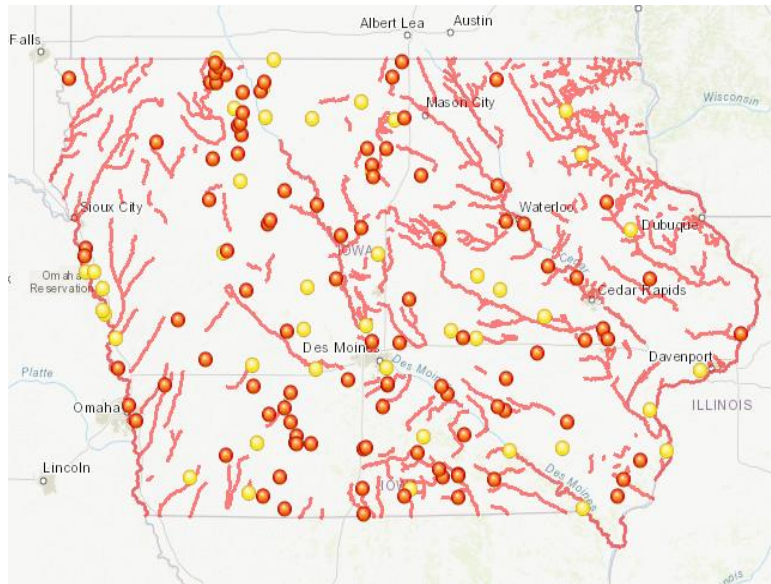
Scott County CAFOs

*Farms holding 1000 Animal Units are required to fill out and submit a Master Matrix

*30% of CAFOs in Scott County (see highlighted below) fall just below that threshold avoiding the need to fill out a Master Matrix sidestepped the recommendation of the county before constructing

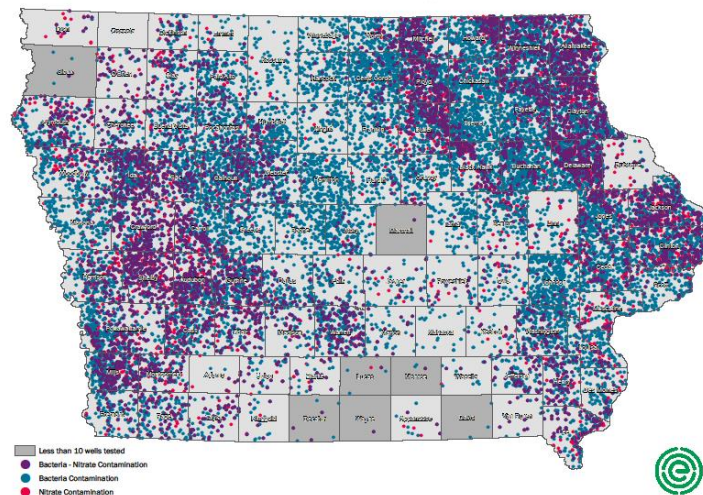
Facility Name	CityName	OperatType	AnimalUnit
Allen's Grove Pork Inc.	Dixon	Confinement	1536
Tom Dittmer Gilt Barn	Eldridge	Confinement	
Hamilton H & S Land Inc.	Le Claire	Confinement	576
Thomas Lahl Farm - Locust Street Pork	Blue Grass	Confinement	1536
Scott Rochau Farm	Davenport	Confinement	1090
Mike Decap	Dixon	Confinement	960
Grandview Farms - Dewulf W/f Site	LongGrove	Confinement	960
Paustian Enterprises (home Farm)	Walcott	Confinement	660
Arlan Engelbrecht	Eldridge	Confinement	
Grandview Farms - Engler W/f Site	LongGrove	Confinement	960
Keppy Farm	Durant	Confinement	768
Kirby Farms Inc.	Davenport	Confinement	2006
Slopertown Farm	Eldridge	Confinement	960
Claussen Family Farms Llc		Confinement	490
Grandview Farms Inc. - Walcott Wean To Finish	Walcott	Confinement	1680
Dean Claussen	Eldridge	Confinement	1456
K3 Co.	Walcott	Confinement	667.4
Lilienthal Jim	NewLiberty	Confinement	1920
Holst Farms Inc.	Le Claire	Confinement	264
Paustian Enterprises (ross Finishing/sow Unit)	Walcott	Confinement	1835.6
329- Jerry Havill	NewLiberty	Confinement	998.400024
T/j Wtf Llc	Eldridge	Confinement	960
Vander Heiden Jeff & Marlon (formerly Pewe Enterprises Inc)	NewLiberty	Confinement	380
Benson Farms Inc.	Le Claire	Confinement	660
Grandview Farms Inc. (home Sow Unit)		Confinement	7375.6
Scott Wolf	NewLiberty	Confinement	1945.6
Kappeler Farms Inc.	Stockton	Confinement	960
Stender Finishing - Paustian	Walcott	Confinement	1200
John Maxwell	Donahue	Confinement	960
I Paustian	Walcott	Confinement	1112
Ross Paustian	Walcott	Confinement	1040
Robert Lilienthal	Paullina	Confinement	960
J2t2 Llc	Stockton	Confinement	1920
Lois Klever Trust	Eldridge	Confinement	140
Brady Claussen	Long Grove	Confinement	960
Robert Badtram	NewLiberty	Confinement	992

Ralfs Finishing	Walcott	Confinement	720
Geurink Farms Inc.	Walcott	Confinement	600
Dean Claussen	Long Grove	Confinement	960
Peeterboldt Farms	Davenport	Confinement	960
Hein Finishing	Stockton	Confinement	960
Golinghorst Inc.	Walcott	Confinement	960
Hermiston Farms - Site 3	NewLiberty	Confinement	960
Terry Ralfs Finishers	Walcott	Confinement	1454
Dixon Site	Dixon	Confinement	992
Jerry Stoltenberg	Walcott	Confinement	872
Ben And Jamie Boeding	Princeton	Confinement	998.4
Jt Allens Grove Pork Llc	Dixon	Confinement	1920
Keppy Maysville	Walcott	Confinement	960
Edwin Maxwell	Walcott	Confinement	400
Larry Goettsch	Eldridge	Confinement	340
Richard Portsman	Blue Grass	Confinement	400
Nieman Farms Inc.	Walcott	Confinement	300
Grandview Frams Inc.	Dixon	Confinement	400
Dennis Kirby	Davenport	Confinement	420
Kundel Farms Corporation	Davenport	Confinement	320
John Maxwell	Donahue	Confinement	280
Kyle Kirby	Davenport	Confinement	480
Jt Allens Grove Pork 2	Dixon	Confinement	960
Witt Bauernhof Llc	Long Grove	Confinement	480
Hg Pork	Walcott	Confinement	720
Glenora Feed Yard Llc		Confinement	4888



Impaired waterways in Scott County (Iowa DNR): Duck Creek, Silver Creek, Robin Creek, Candlelight Creek, Goose Creek, Pheasant Creek, Stafford Creek, Crow Creek, Spencer Creek, Lost Creek, Princeton Refuge, West Lake, Wapsipinicon River, Mud Creek Tributary near Walcott, and the Mississippi River.

Iowa's Private Wells Contaminated by Nitrate and Bacteria



Contaminated wells in Scott County (Environmental Working Group)
 Number of wells tested: 877, Number of wells with elevated nitrate: 83, Number of wells with bacteria: 202, Number of wells with elevated nitrate and bacteria: 17

Letter To the Scott County Board of Supervisors:

Agriculture has been and will continue to be a huge part of Iowa's identity. Ever since the Master Matrix was adopted by the Iowa State Legislature in 2002, Scott County has passed the construction evaluation resolution every year, without fail, by the deadline of January 31. Thank you for continuing to pass this year after year.

Even though Iowa's laws on animal agriculture place most of the authority with the State's DNR rather than with county government, we feel that signing on to the construction evaluation resolution yearly keeps us informed of applications that are filed within our county and gives you as county supervisors, and ourselves as county residents, an opportunity to weigh in on proposed CAFOs. Because, as with other issues within the county, staying involved locally is very important.

However, we feel that the Master Matrix construction evaluation only encourages the bare minimum and does not go far enough to protect our communities, soil, water, air, or quality of life. And so, we, residents of Scott County, are asking you to pass an additional resolution petitioning the Governor of Iowa and the Iowa State Legislature to address the failings of the Master Matrix and grant counties stronger authority in the decision making and accountability of CAFO operations.

The Master Matrix lacks the ability to:

- Protect communities due to lax separation distances. Recent examples of this are CAFOs that were either built or expanded near the communities of Maysville and McCausland. Rural communities are also responsible for increased wear and tear on secondary roads and bridges from semi use.
- Evaluate the impact of the local karst topography of eastern Iowa and the fields being spread with liquid manure. This directly impacts the soil's ability to absorb the nutrients from the manure. The excess nutrients run off into our waterways putting them in danger of elevated bacteria and nitrates.
- Address CAFO applications that fall under the threshold of needing a Master Matrix scoring altogether. This is a loophole that allows applicants to avoid accountability and sidestep the approval of the county before constructing.

Scott County has numerous impaired waterways as described in the latest DNR report: Duck Creek, Silver Creek, Robin Creek, Candlelight Creek, Goose Creek, Pheasant Creek, Stafford Creek, Crow Creek, Spencer Creek, Lost Creek, Princeton Refuge, West Lake, Wapsipinicon River, Mud Creek Tributary near Walcott, and the Mississippi River are all impaired. Scott County also has 877 contaminated private wells. There are several programs in place already to improve the quality of water in Scott County, but there needs to be higher accountability to protect the success rate of these programs.

The Master Matrix construction evaluation drafted almost 20 years ago, simply does not go far enough to protect our communities, soil, water, air, or quality of life and needs to be re-evaluated. It is a pass-fail test that is no substitute for local control. We ask that you pass an additional resolution petitioning the Governor of Iowa and the Iowa State Legislature to address the failings of the Master Matrix and grant counties stronger authority in the decision making and accountability of CAFO operations.

Respectfully,

Scott Co Residents

RESOLUTION NO. _____

A RESOLUTION PETITIONING THE GOVERNOR OF IOWA AND THE STATE LEGISLATURE TO ADDRESS THE FAILINGS OF THE MASTER MATRIX

WHEREAS, the Scott County Board of Supervisors, recognize the importance of agriculture within the State of Iowa; and,

WHEREAS, the Scott County Board of Supervisors, has been presented with several applications for permits to construct concentrated animal feeding operations (CAFO) in Scott County, Iowa; and,

WHEREAS, CAFOs in Iowa have proliferated at a rate and number likely unanticipated by the authors of the 2002 Matrix; and,

WHEREAS, the Scott County Board of Supervisors, has attempted to provide pertinent information regarding the siting and expansions of CAFO's in Scott County, Iowa; and,

WHEREAS, the current legislation and regulation applies the use of a Master Matrix that has failed to adequately differentiate between the geography, water sources and other critical considerations throughout different regions within the State; and,

WHEREAS, the failure to properly take into consideration information within the knowledge of local sources and community members, has highlighted the failings of the Master Matrix to protect the air, water, health, "quality of life" and economic interests of the citizens we were elected to represent; and,

WHEREAS, local governments' authority in determining whether a proposed site is suitable for a CAFO is limited to scoring the poorly designed Master Matrix and making a recommendation to the Iowa Department of

NOW, THEREFORE, BE IT RESOLVED BY THE SCOTT COUNTY BOARD OF SUPERVISORS:

1. The Scott County Board of Supervisors do hereby petition the Governor of Iowa and the State Legislature to address the failings of the Master Matrix to protect the air, water, health, "quality of life" and economic interests of the citizens we were elected to represent.

2. The Scott County Board of Supervisors hereby asks the Governor of Iowa and the State Legislature to grant counties stronger authority in the decision making and accountability of concentrated animal feeding operations.

PASSED AND ADOPTED this ___ day of February, 2021.

SCOTT COUNTY BOARD OF SUPERVISORS

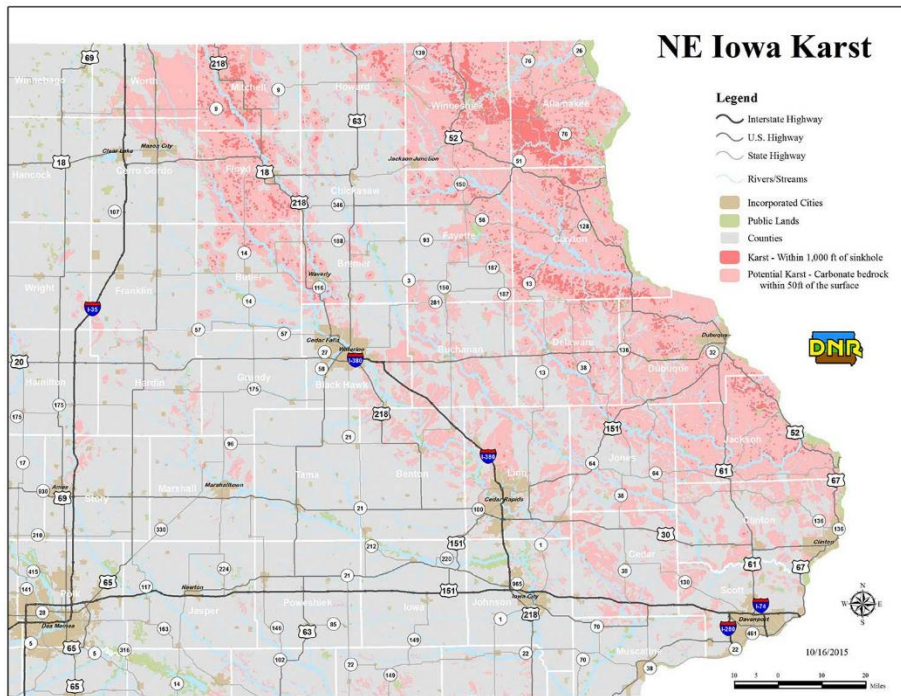
Chairman

Attest: _____

County Auditor

Additional Resources

- Karst & CAFOs
 - <https://www.iowadnr.gov/Environmental-Protection/Land-Quality/Animal-Feeding-Operations/Mapping/Karst-Sinkholes>



- Water treatment costs for nitrate pollution
 - <https://www.ucsusa.org/about/news/rural-iowans-bear-brunt-water-treatment-costs-nitrate-pollution-farms-and-cafos>
- Impacts to roads & bridges
 - https://gctimes.com/news/local/scott-county-takes-aim-at-deficient-bridges/article_63429abf-99b0-5086-a5bb-24957567a296.html?utm_medium=social&utm_source=email&utm_campaign=user-share
- Iowa's Path to Clean Water and Flood Resilient Communities
 - <https://www.cfra.org/publications/iowas-path-clean-water-and-flood-resilient-communities>