

**National Air Quality Site  
Assessment Tool  
NAQSAT**

Natalie Rector  
Michigan State University Extension Educator  
[rector@msu.edu](mailto:rector@msu.edu)

---

 National Air Quality Site Assessment Tool 

---

---

---

---

---

---

---

---

**Background**

- Livestock producers are under increasing pressure to mitigate air emissions:
- Concern over regulatory requirements
  - 2005 Consent Agreement – Industry & EPA CERCLA, EPCRA and CAA
  - National Air Monitoring Study (NAEMS)
    - <https://engineering.purdue.edu/odor/NAEMS/>
  - 2009 Non-participating farms complied with EPCRA requirements
- “Good Neighbor Policy”

---

---

---

---

---

---

---

---

**Background**

- Mitigation strategies are expensive to implement
  - Identify opportunity for greatest impact
  - Select correct management action to control emission of concern
- Because of management and structural variability in operations, these are site specific decisions.

---

---

---

---

---

---

---

---

## Funding

- USDA-NRCS Conservation Innovation Grant and partners



---

---

---

---

---

---

---

---

## Partners

C.E. Meadows Endowment, Michigan State University  
Colorado Livestock Association  
Iowa Turkey Federation  
Iowa Pork Producers  
Iowa Pork Industry Center  
Iowa State University Experiment Station  
Michigan Milk Producers Association  
Michigan Pork Producers Association  
Michigan State University Extension  
National Pork Board  
University of California, Davis  
University of Georgia Department of Poultry Science  
University of Maryland Department of Animal and Avian Sciences  
Nebraska Environmental Trust  
Western United Dairymen

---

---

---

---

---

---

---

---

## University partners

- Colorado State University
- Iowa State University
- Michigan State University
- Oregon State University
- Penn State University
- Purdue University
- Texas A&M University
- University of California, Davis
- University of Georgia
- University of Maryland
- University of Minnesota
- University of Nebraska



---

---

---

---

---

---

---

---

## Project components

Development of an on-farm air quality assessment tool designed to evaluate where mitigation strategies will have the greatest impact

---

---

---

---

---

---

---

---

## Goals

- Online availability (free!)  
– <http://naqsat.tamu.edu/>
- Farmer friendly
- Site specific
- Must compliment currently available tools  
– Iowa State “Air Management Practices Assessment Tool”<sup>1</sup>



---

---

---

---

---

---

---

---



---

---

---

---

---

---

---

---









