ManureDB: Creating a nationwide manure test database

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Overview

- Current published livestock manure “book values” used in the United States (U.S.) are several decades old.

- Recent data from Midwest U.S. labs indicates manure nutrient data has changed from book values published by Midwest Plan Service (2004) and American Society of Agricultural and Biological Engineers (2005).

- The University of Minnesota received grant funding to create a manure nutrient database (ManureDB) to update these values.
  - Working with the Minnesota Supercomputing Institute

- We are seeking laboratories to partner with developing the database.
Collaborating Lab Summary

• Labs would share past manure data results with ManureDB (going back as far as they have or feel comfortable) and then annually going forward.

• No customer names or addresses shared with us (only zip codes, if possible)

• A one-time honorarium available for labs to help with costs associated with adjusting their system to extract the data

• Data would be available to the public as a searchable database

• Public facing space to show aggregate summary data for a state or region (similar to a book value, but a dynamic one)
Future Plans

• Finish construction and user-testing of ManureDB beta site in collaboration with participating laboratories

• Refine manure data uploading processes

• Publish ManureDB as a publicly available website, hopefully by the end of the year.

• Recruit more laboratories to participate in the database. If your lab is interested in learning more about this project, please contact us!

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