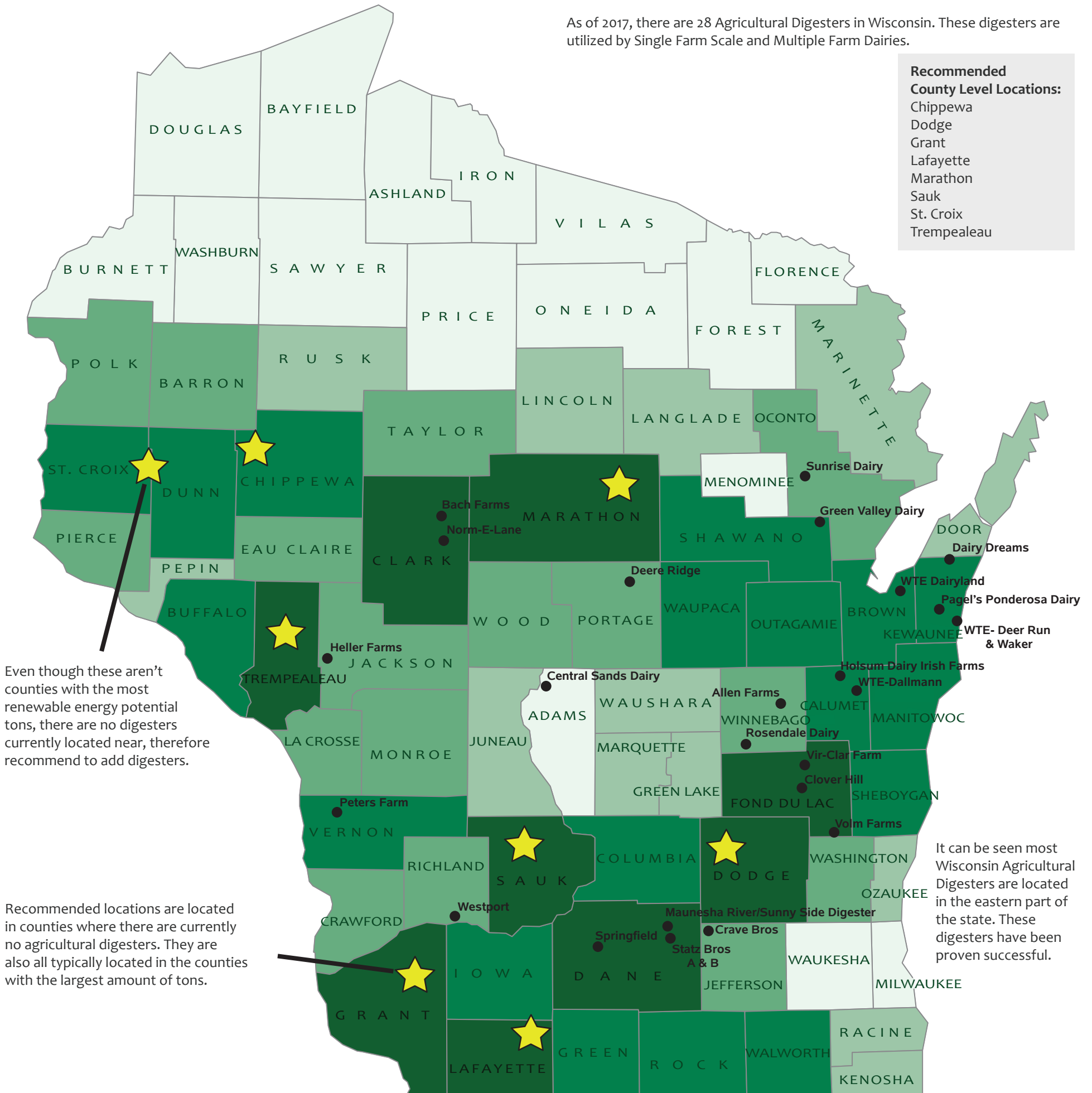


# Recommended New Locations for Agricultural Biogas Digesters Based on Biomethane Potential

Agricultural Biogas Operations have the largest growth potential compared to Industrial Food and Fuel Producers, Wastewater Treatment Facilities, and Landfill Biogas Capture Programs.

Agricultural Anaerobic Digestion is a biological process that produces a gas principally composed of methane (CH<sub>4</sub>) and carbon dioxide (CO<sub>2</sub>) otherwise known as biogas. These gases are produced from livestock manure.

As of 2017, there are 28 Agricultural Digesters in Wisconsin. These digesters are utilized by Single Farm Scale and Multiple Farm Dairies.



## Wisconsin Data:

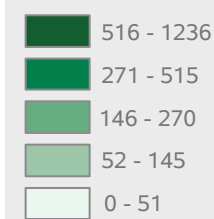
97% of Agricultural Digesters produce electricity  
100% of Agricultural Digesters produce heat

Potential for between 353 and 1,168 additional digester systems on dairy farms. It is recommended a digester have at least 500 head to make it feasible. Current trends show dairy farms are getting fewer and larger; therefore, small farms are shutting down and existing farms are getting larger

## Current Issues:

- Achieving economically sustainable operation
- Incorporating new systems into the existing on-farm framework of waste logistics and labor allocation
- Insuring farm personnel are equipped to operate and manage these complex biological and energy generation systems

## Animal Manure Renewable Energy Potential in Tons



Biomethane data based on 2014 data  
Manure Digester locations based on 2017 data.