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Agricultural Outlook Forum
U.S. Department of Agriculture

Presented: February 24-25, 2011

2009 On-Farm Renewable Energy Production Survey

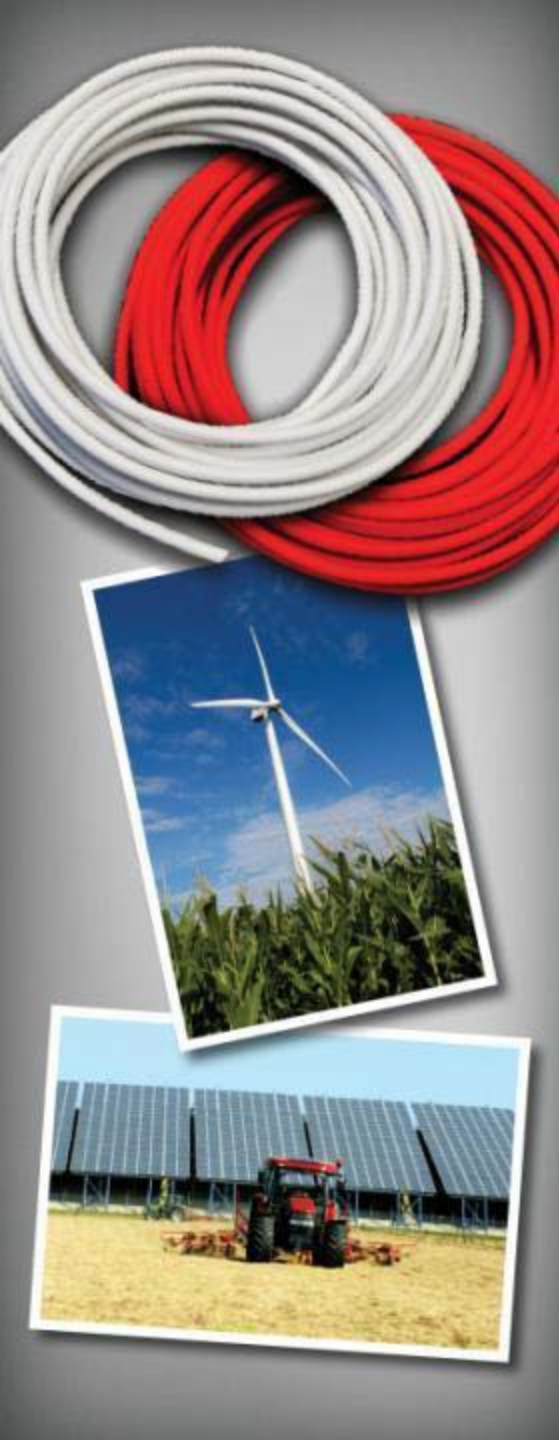
Joe Prusacki

2009 On-Farm Renewable Energy Production Survey

February 25, 2011



United States Department of Agriculture
National Agricultural Statistics Service



Background

The first survey conducted by USDA's National Agricultural Statistics Service (NASS) to focus on the production of renewable energy on America's farms and ranches.





Wind
turbines



Solar
panels



Methane
digesters



2007 Census of Agriculture

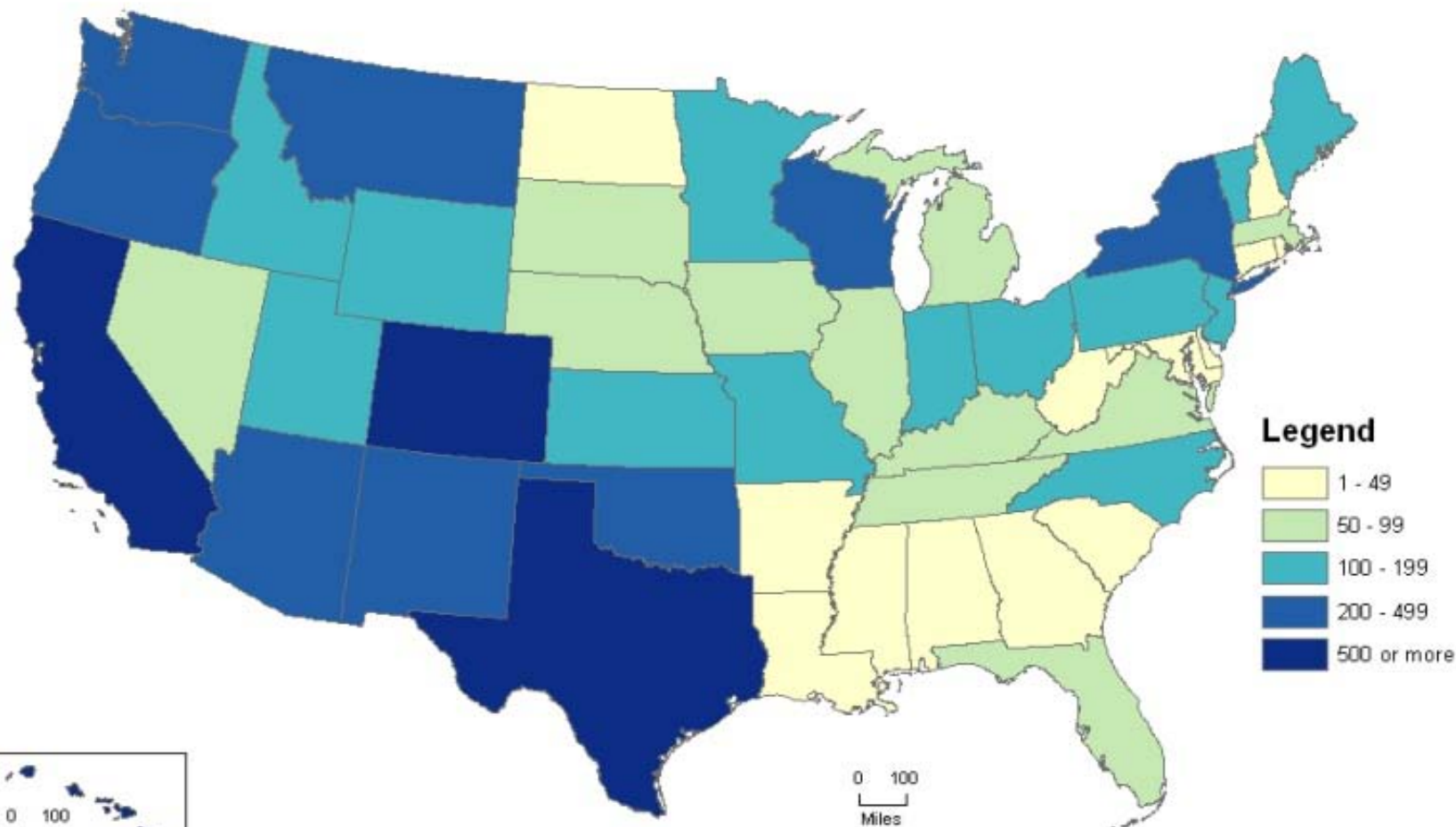
Screening Question

At any time during 2007, did this operation generate energy or electricity on the farm using wind or solar technology, methane digester etc.?

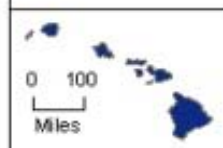
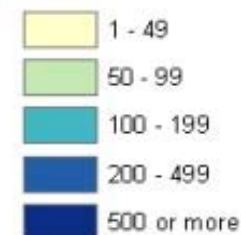




Farms Producing Renewable Energy



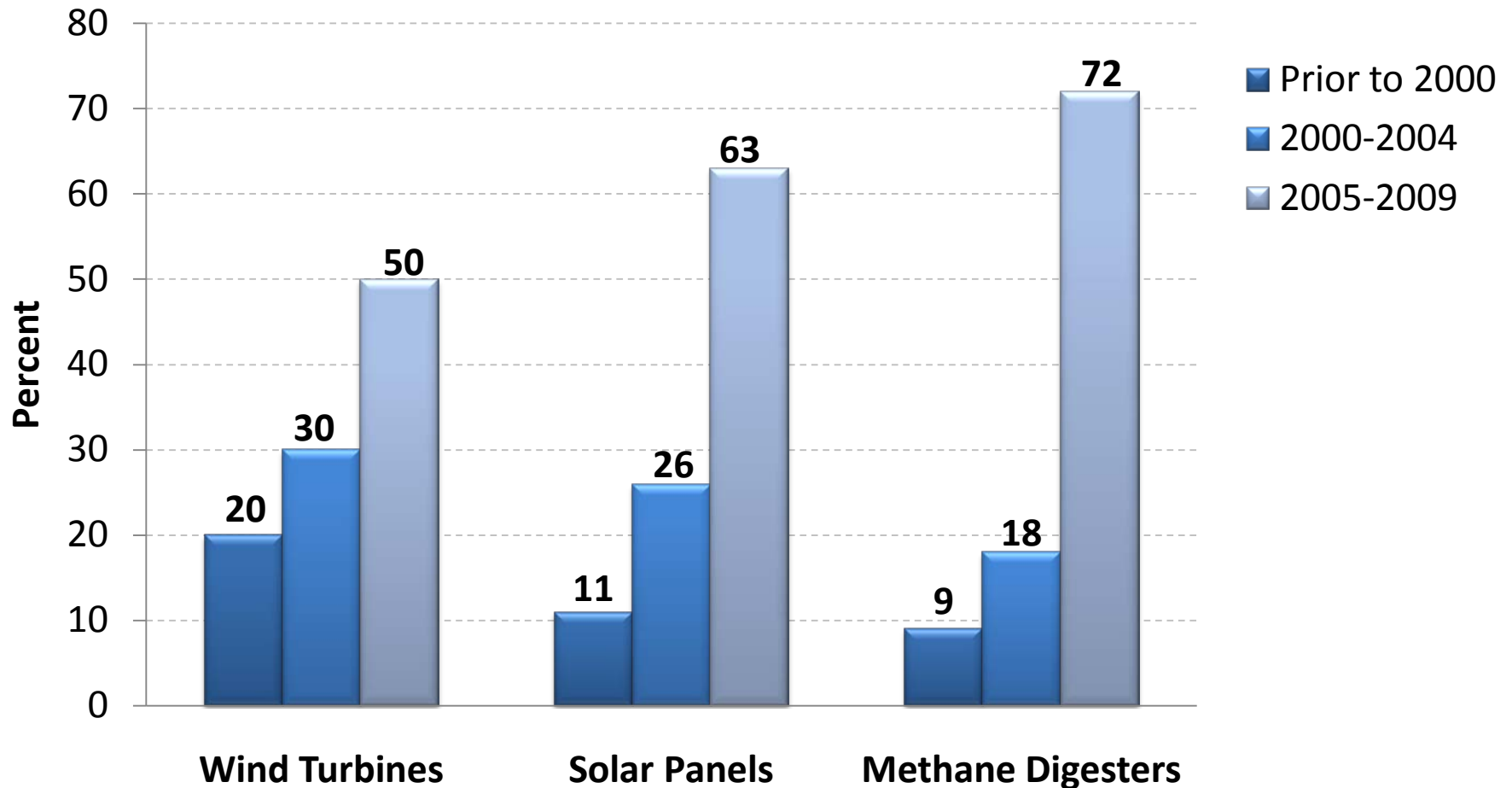
Legend



02-M000
U.S. Department of Agriculture, National Agricultural Statistics Service

U.S. Farms with Renewable Energy - 8,569

Percent of U.S. Wind Turbines, Solar Panels, and Methane Digesters by Year of Installation

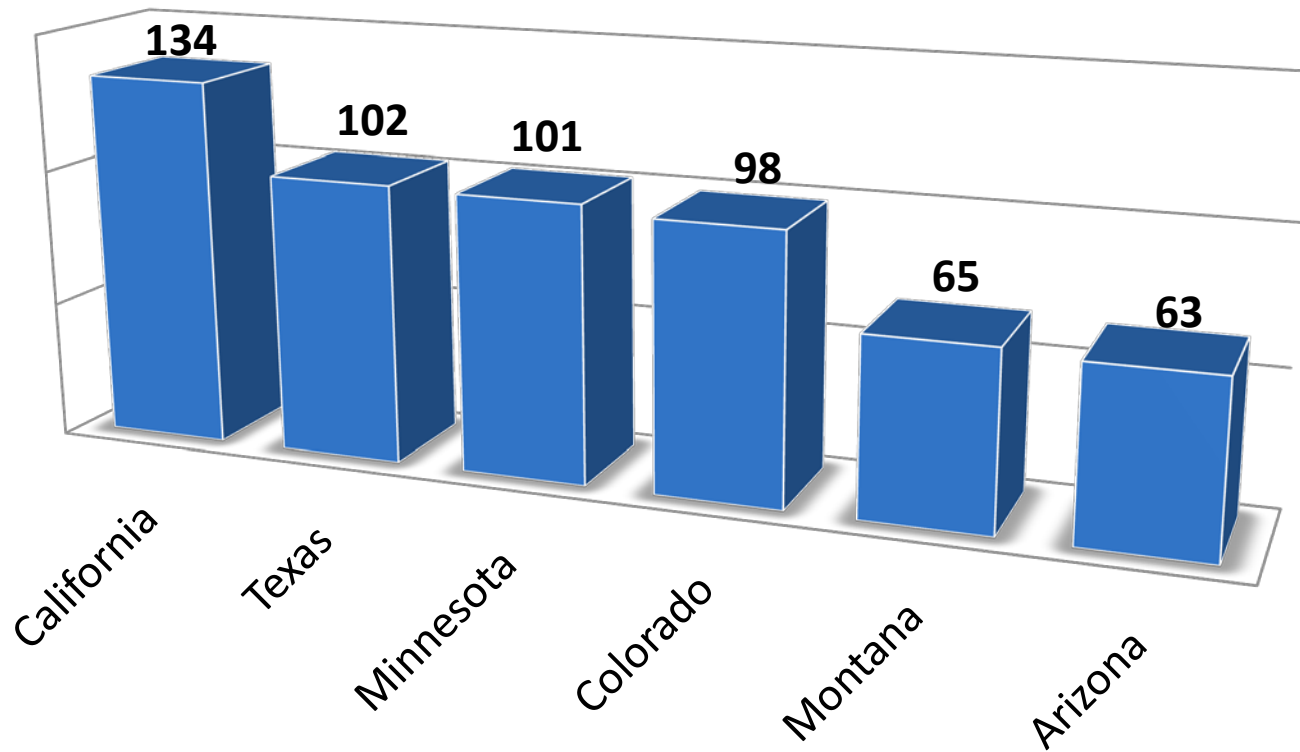


Wind Turbines

- **1,420 Operations in the United States**
 - 1,845 Turbines
- **1,406 Small Turbines (<100 kW)**
 - 1831 Wind Turbines
 - 6 kW Average Generating Capacity
 - \$12,972 Average Installation Cost
- **14 Large Turbines (>100 kW)**
 - 14 Wind Turbines
 - 1035 kW Average Generating Capacity
 - \$1,339,143 Average Installation Cost



Wind Turbines: Number of Farms Select States (2009)

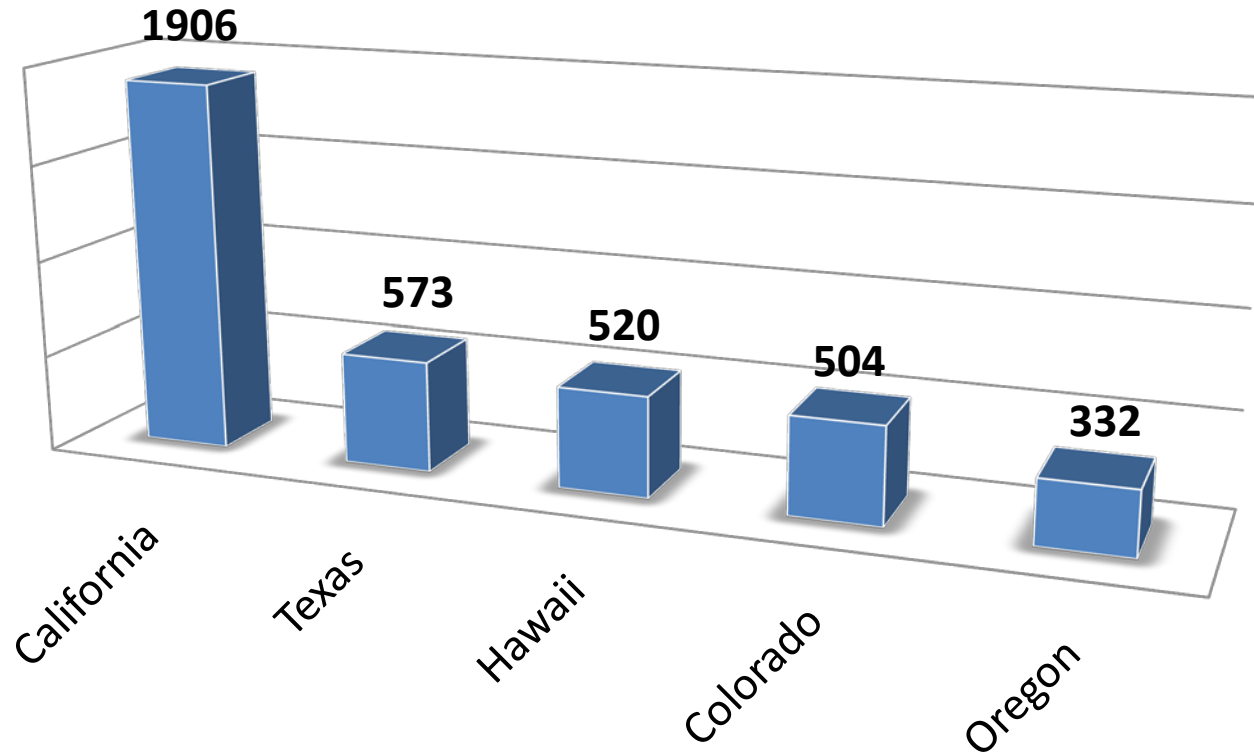


Solar Panels

- **7,968 Farms Reporting Solar Panels**
- **Average Generating Capacity = 4,449 W**
- **Average Installation Cost = \$31,947**



Solar Panels: Number of Farms Top 5 States (2009)



Methane Digesters

- **121 operations in the U.S. had methane digesters**
- **140 methane digesters across the nation**
- **Average installation cost was \$1,718,562**
- **Average digester produced 30.5 million cubic feet of methane**



Questions

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