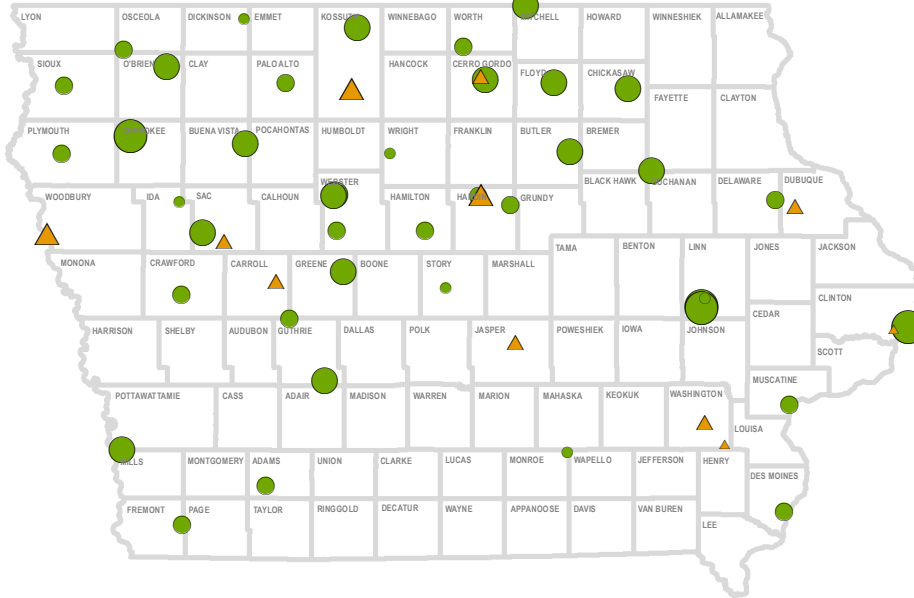


Ethanol and Biodiesel — 2018

Iowa Ethanol and Biodiesel Plants by Capacity



#1 Iowa's Ranking Nationally in Both Ethanol and Biodiesel Production

Production Capacity in Iowa

4,289 **425**

Ethanol Biodiesel

Production Capacity in Millions of Gallons

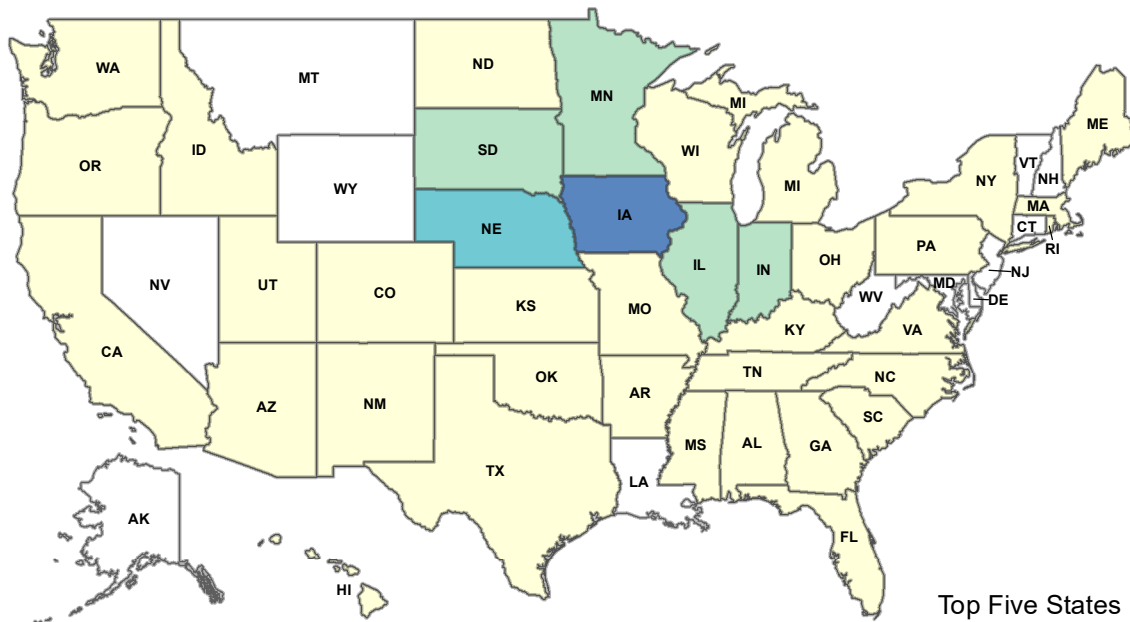
Biodiesel Plants (11 Total)

- ▲ 10 - 25
- ▲ 26 - 50
- ▲ 51 - 76

Ethanol Plants (41 Total)

- 37 - 50
- 51 - 100
- 101 - 150
- 151 - 300

Total Ethanol and Biodiesel Production Capacity by State — as of January 1, 2018



Ethanol and Biodiesel Production Capacity in Millions of Gallons

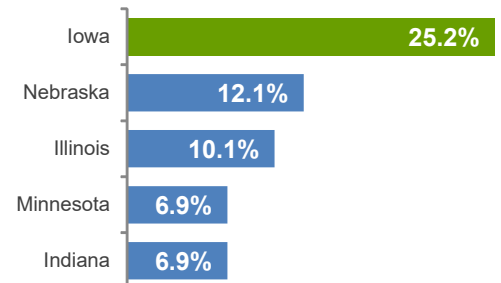
- 0 - 1,000
- 1,001 - 2,000
- 2,001 - 3,000
- 4,714
- No Capacity

Note: Production capacity is usually indicated by nameplate capacity.

Quick Facts:

- Ethanol is made primarily from corn starch from kernels.
- Biodiesel is made from vegetable oils, primarily soy oil, but also from animal fats, waste oil, and greases.
- 1 bushel of corn yields 2.7 gallons of ethanol.
- E15 fuel is a blend of 15% ethanol and 85% gasoline. E15 is approved for use in model year 2001 and newer cars, trucks, and SUVs. A 10 percent ethanol blend is approved for use in all automobiles.
- Fuel-grade biodiesel must meet specifications and be registered with the Environmental Protection Agency as a legal motor fuel. Biodiesel is not the same as renewable diesel. While both fuels can be made from similar feedstocks, they are made using different production processes and have different properties.

Top Five States in Percentage of Total Ethanol and Biodiesel Production



Sources: U.S. Department of Agriculture, Economic Research Service - U.S. Bioenergy Statistics, U.S. Energy Information Administration, LSA Calculations
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