

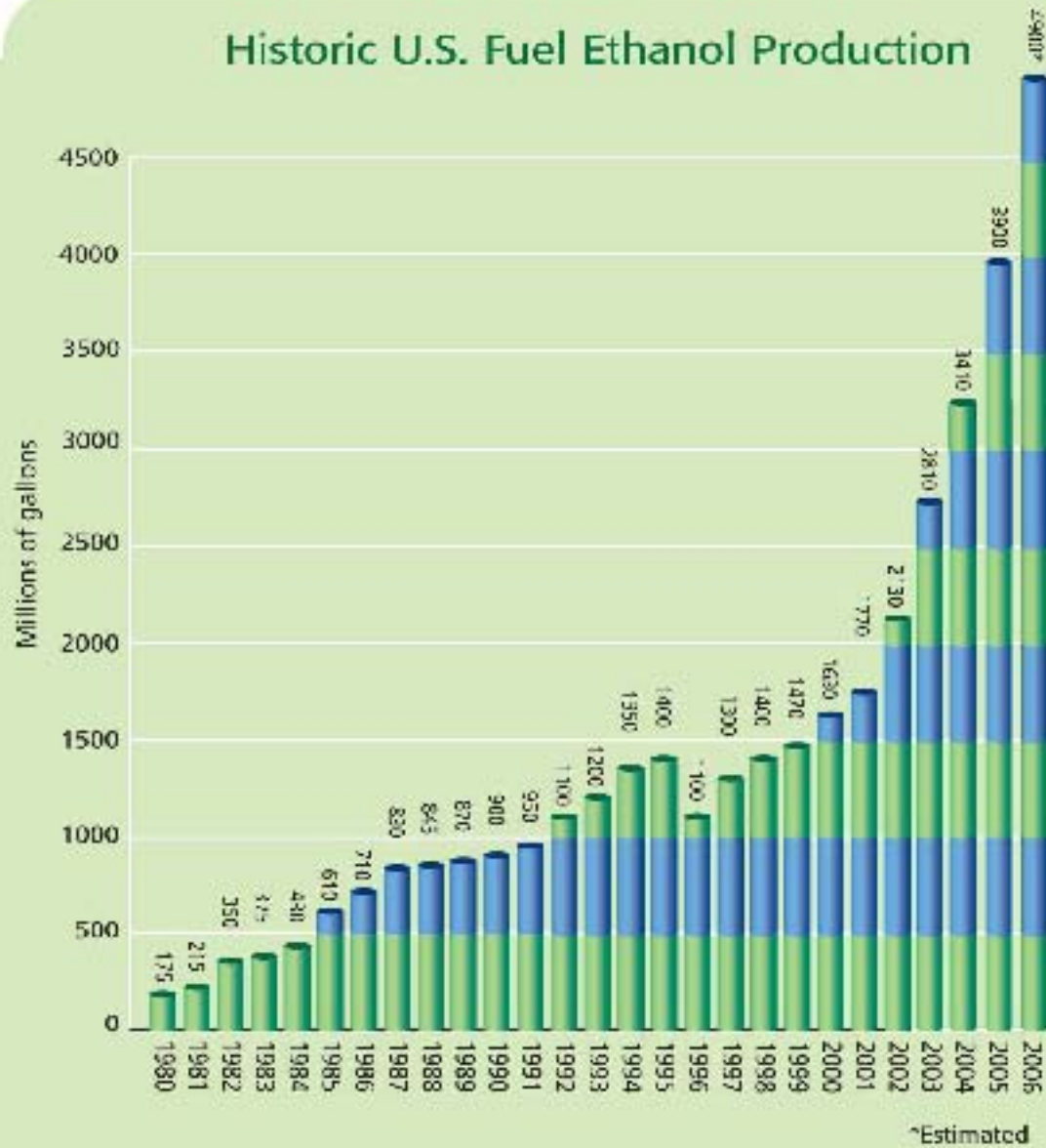
Biofuels - Ethanol and Biodiesel Market Updates

Symposium on “The International Center for
Renewable Energy & Turbulence/Aerospace”
June 1, 2007

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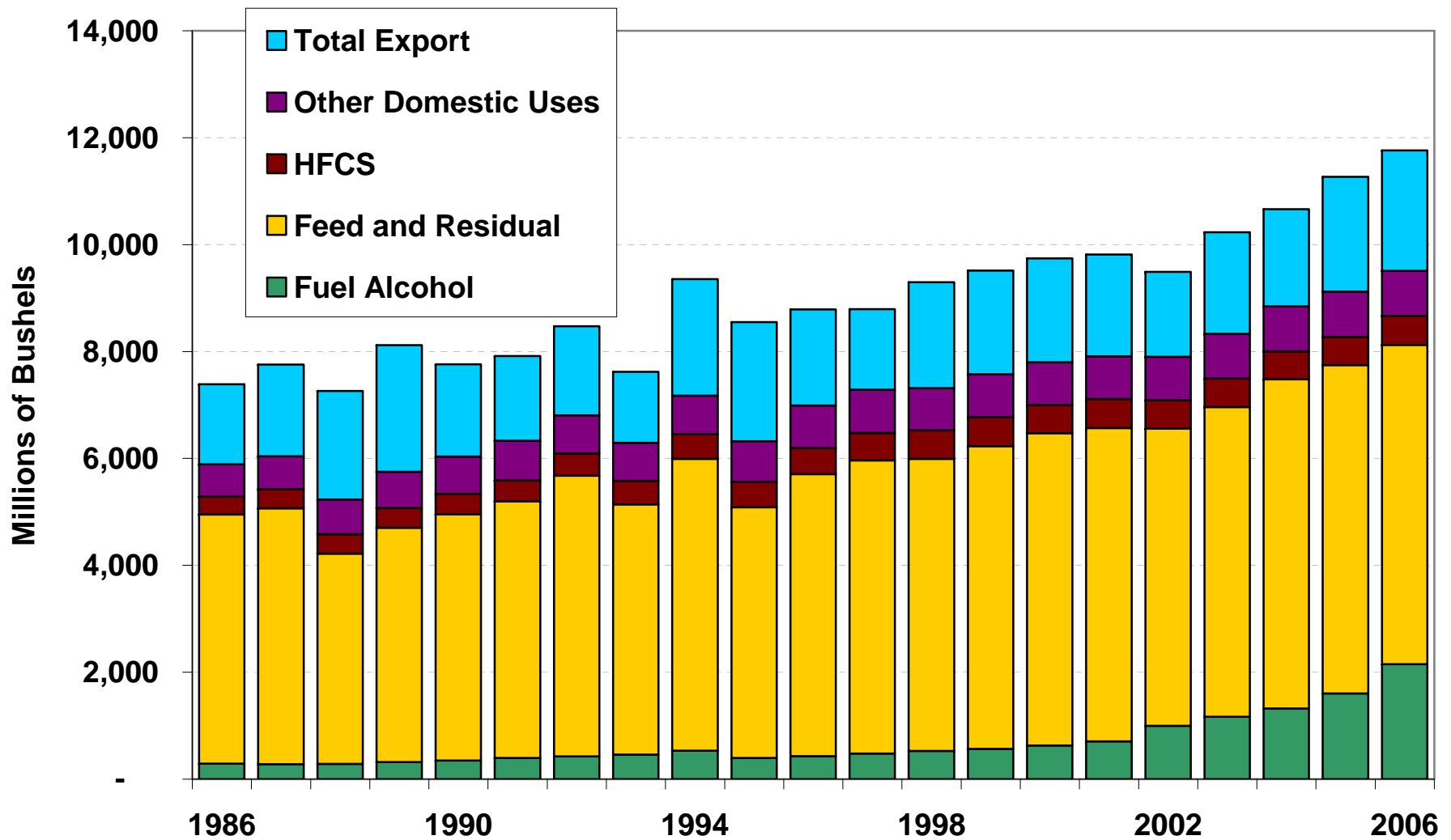


Historic U.S. Fuel Ethanol Production



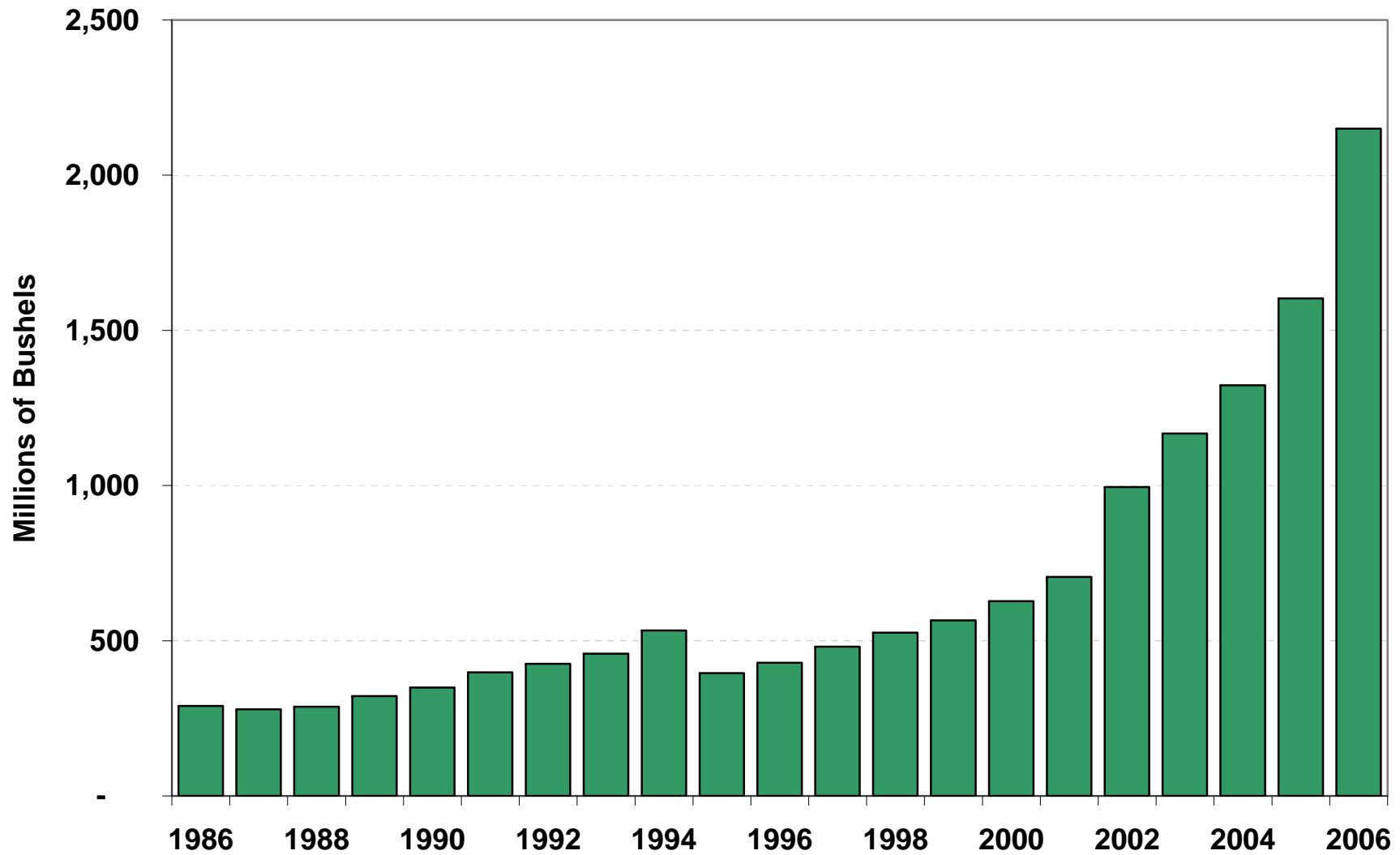
Source: U.S. Energy Information Administration / Renewable Fuels Association

US Corn Utilization



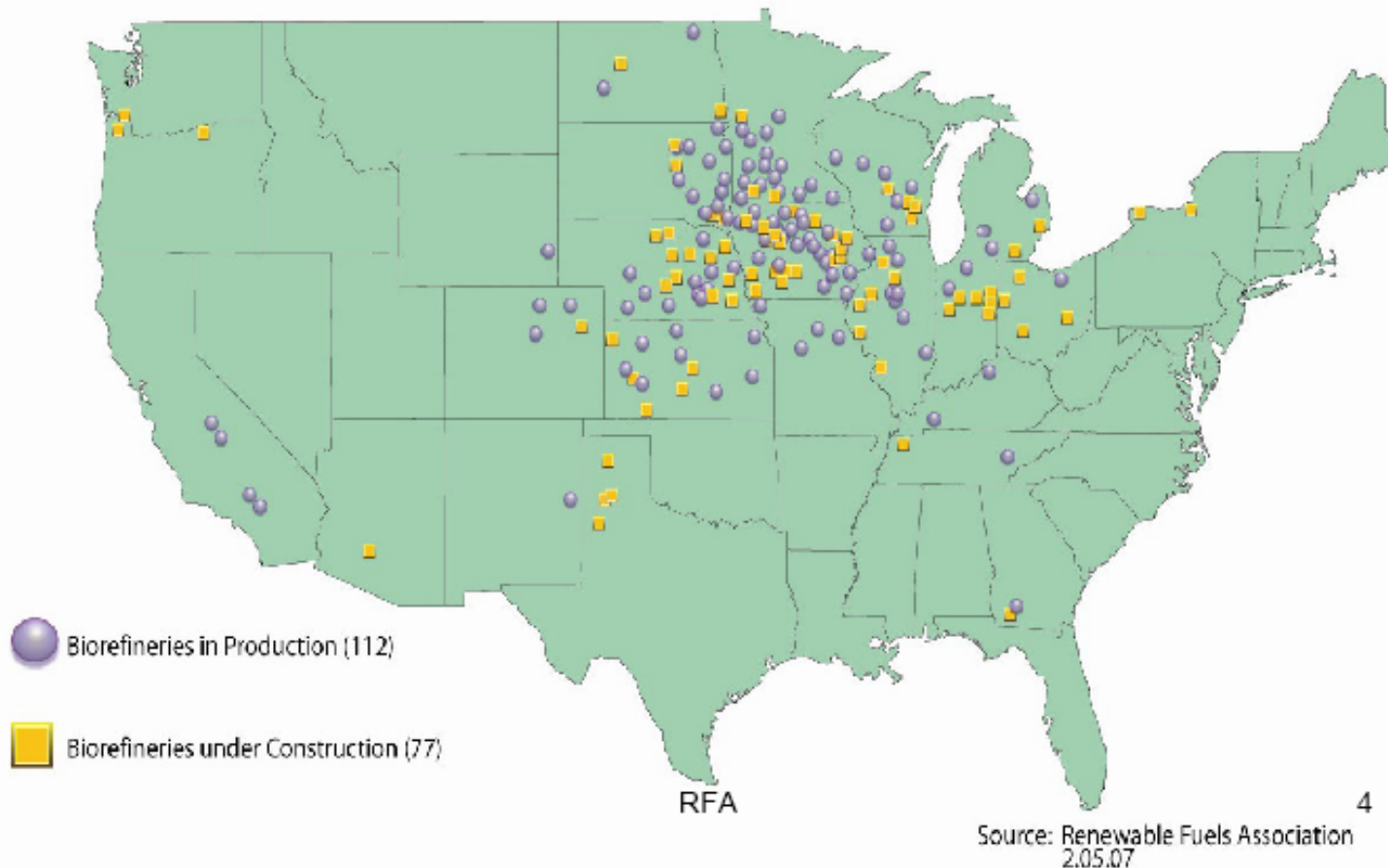
Source: USDA - NASS

US Corn Used in Ethanol



Source: USDA - NASS

U.S. Ethanol Biorefinery Locations



- The U.S. ethanol plant total is 118 with installed capacity of 5.624 billion gallons.
- There are 62 plants under construction with expected capacity of 4.588 billion gallons. Total of 10.2 billion gallons by 2007 – 2008.

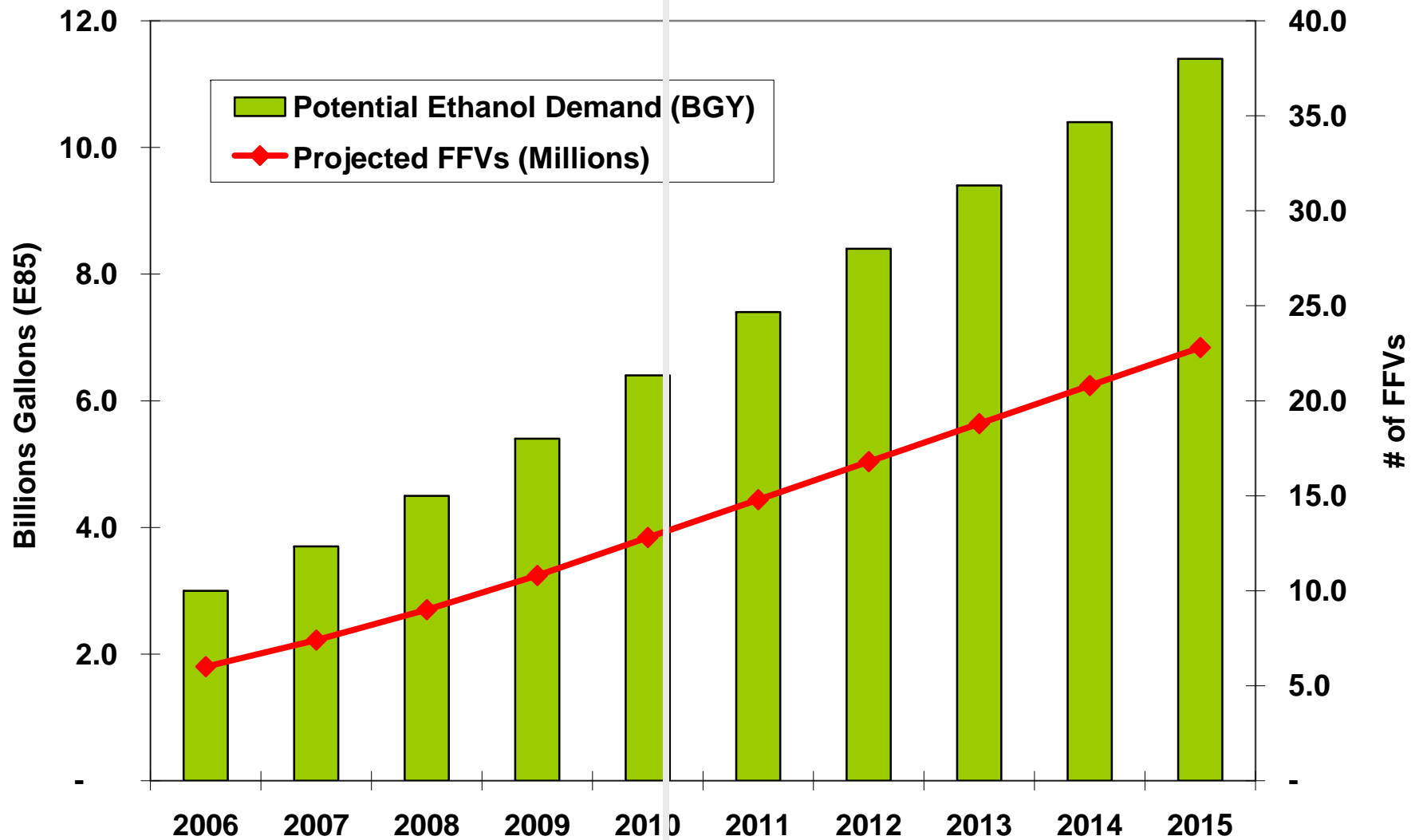
U.S. Ethanol Industry Needs



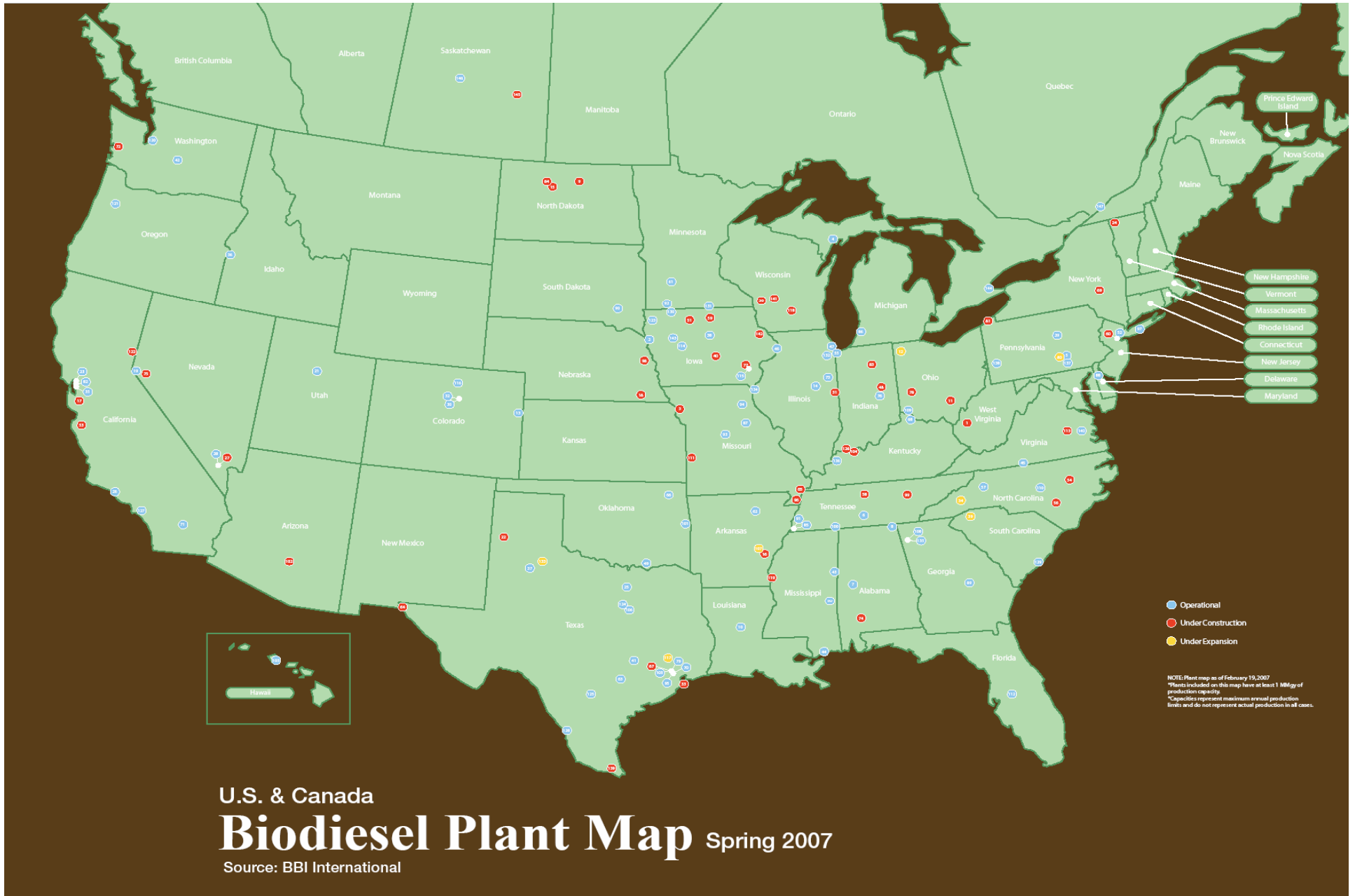
- More competition from design-build companies
- Sustained lower corn prices
- Experienced employees
- Technical breakthroughs in cellulosic ethanol
- Sustained government support

US Projections

E85 Ethanol Demand



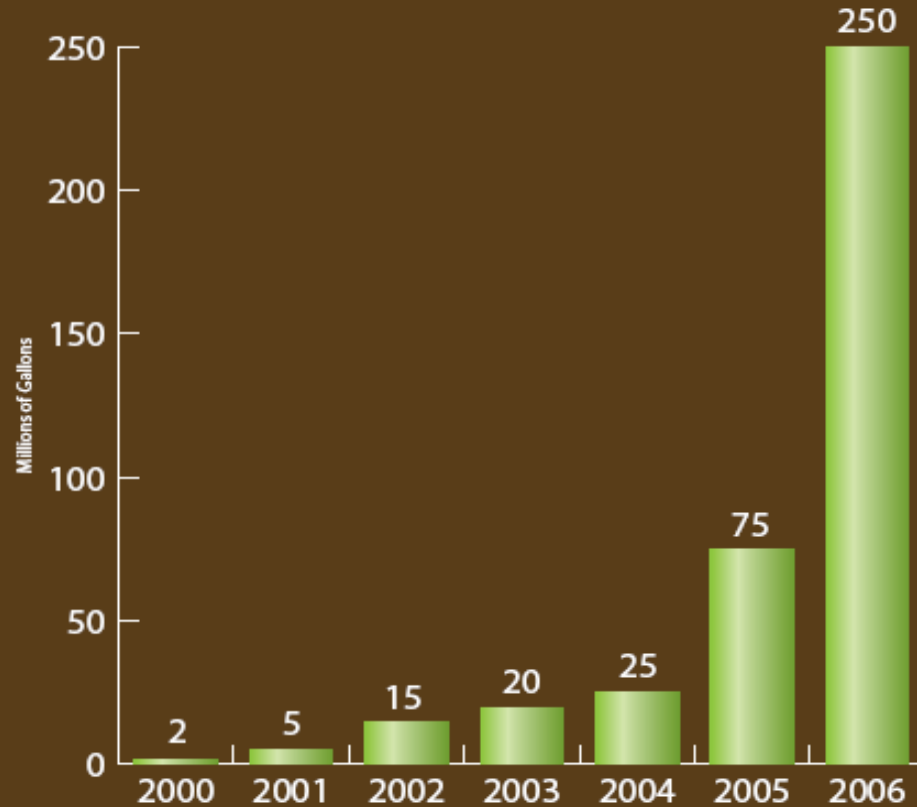
Source: RFA – Renewable Fuels Association



Currently 105 plants are operating

Estimated annual U.S. biodiesel production

Source: National Biodiesel Board



U.S. & Canada

Biodiesel Plant Map Spring 2007

Source: BBI International