

Consus Ethanol, LLC

Converting American Resources
into American Fuel

Eric Wallace, CEO

Phone: 412-635-6270 ext:114

Fax: 412-635-6278

Cell: 412-977-6644

Consus Ethanol

5000 McKnight Road

Suite 405

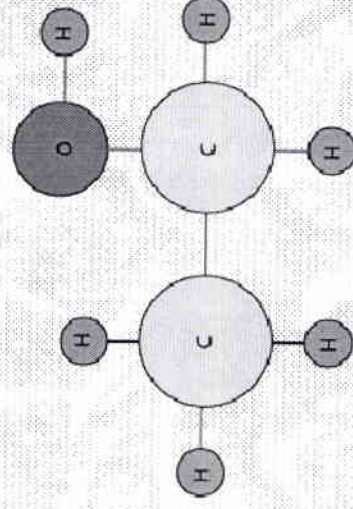
Pittsburgh, PA 15237

What is Ethanol?

- In its most basic form, ethanol is grain alcohol, produced from crops such as corn and sugar cane or any material with “convertible starch”
- Ethanol as a Fuel – A clean burning, high octane fuel additive (105 Octane)

Additional Uses of Ethanol

- Beverages
- Cleaners
- Solvents
- Pharmaceuticals
- Perfumes
- Mouthwash



Ethanol's Molecular Signature: CH₃CH₂OH

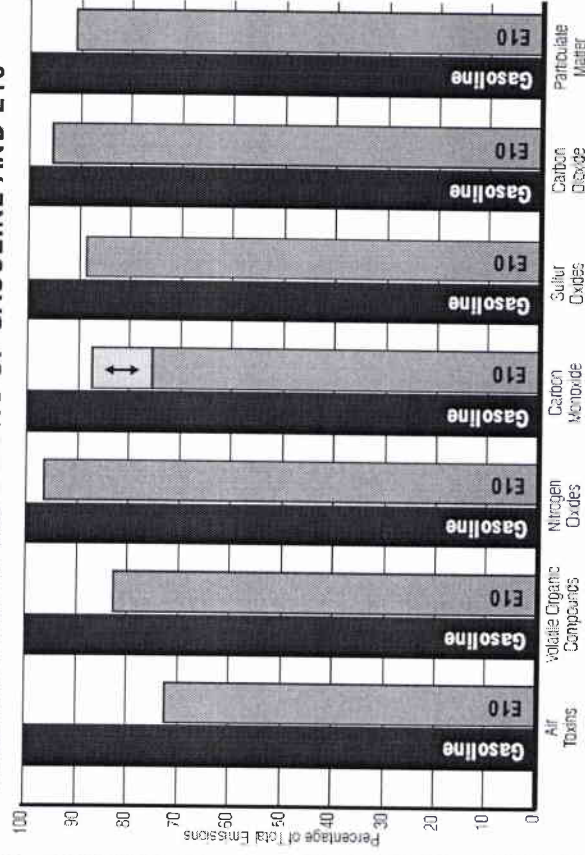
Ethanol Fuel Blends

- E10 (10% ethanol and 90% unleaded gasoline)
- E10 is currently approved for use in any make or model of vehicle sold in the U.S.
- All vehicles can currently use E10 without any modifications to the engine.
- Loss of Gas Mileage +/- 1.0-3.0%

Ethanol is beneficial because it:

- Decreases the fuel's overall cost,
- Increases the fuel's octane rating,
- Decreases gasoline's harmful emissions, and,
- Eliminates the need for MTBE.

COMPARISON OF EMISSIONS OF GASOLINE AND E10

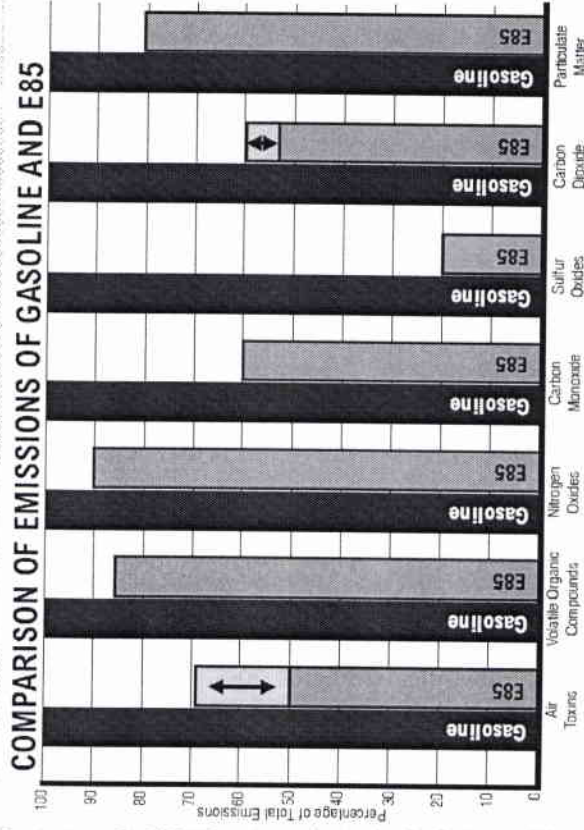


Ethanol Fuel Blends

- **E85** (85% ethanol and 15% unleaded gasoline)
 - E85 is an alternative fuel for use in flexible fuel vehicles (FFVs).
 - Loss of gas mileage +/- 15%-17%

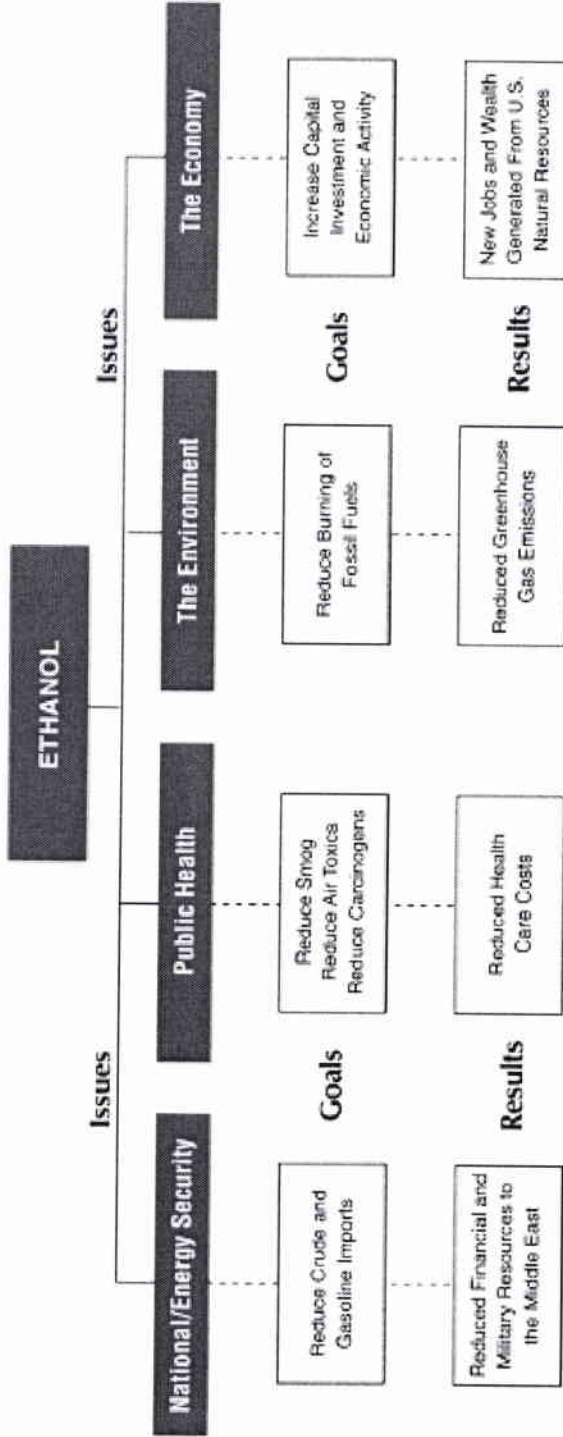
“More than 5 million cars in the U.S. are designed to run on E85. 650 retail gas stations across the country are pumping E85 today, more than a 300% increase from 2004.”

Source: National Ethanol Vehicle Coalition, January 2006



Benefits of Ethanol

Fuel Ethanol Is Helping Meet National Public Policy Priorities



Ethanol Facts: Net Energy

Ethanol's Net Energy Value: A Summary of Major Studies

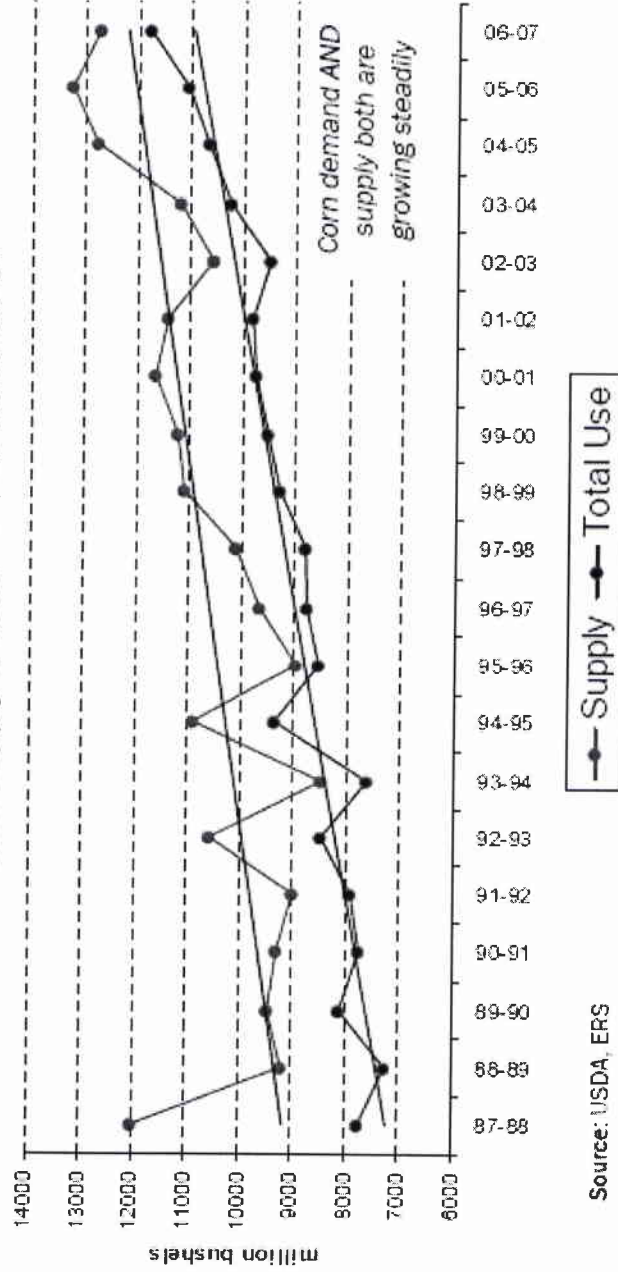
Authors and Date	NEV (Btu)
Shapouri, et. al (1995) - USDA	+20,436 (HHV)
Lorenz and Morris (1995) - Institute for Local Self-Reliance	+30,589 (HHV)
Agri. and Agri-Food, CAN (1999)	+29,826 (LHV)
Wang, et. al. (1999) – Argonne National Laboratory	+22,500 (LHV)
Pimentel (2001) - Cornell University	-33,562 (LHV)
Shapouri, et. al, Update (2002) – USDA	+21,105 (HHV)
Kim and Dale (2002) - Michigan State University	+23,866 to +35,463 (LHV)
Shapouri, et. al, (2004) – USDA	+30,258 (LHV)

- “Corn Ethanol is energy efficient as indicated by an energy ratio of 1.67” – 2004 USDA report
- Gasoline is inefficient with an energy ratio of .8 – 2004 USDA report

Ethanol Facts: Food vs Fuel

MYTH: Increasing ethanol production causes a long-term corn supply-demand imbalance.
FACT: Increasing demand for corn is being met with increasing supply.

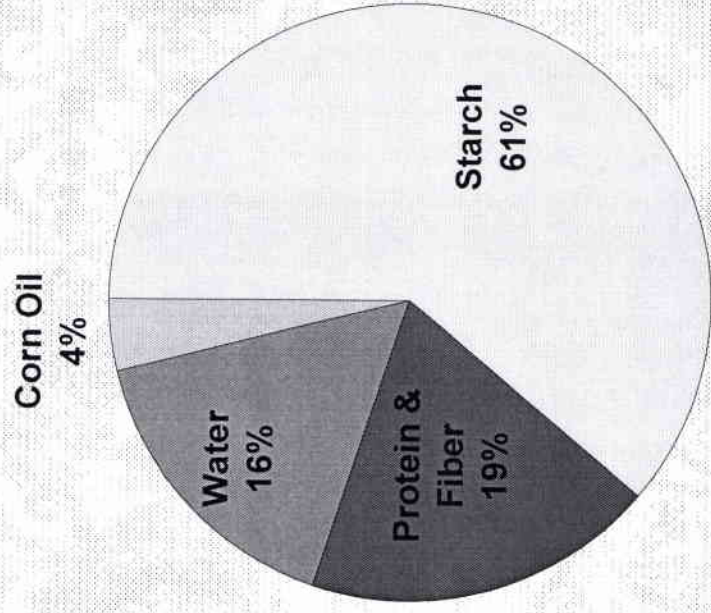
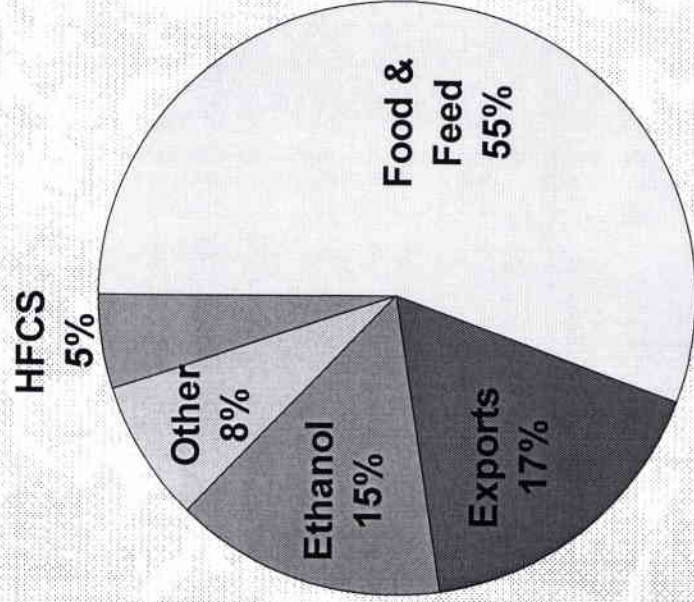
U.S. Corn Supply & Total Use, 87-88 to 06-07



Source: USDA, ERS

Ethanol Facts: Food vs Fuel

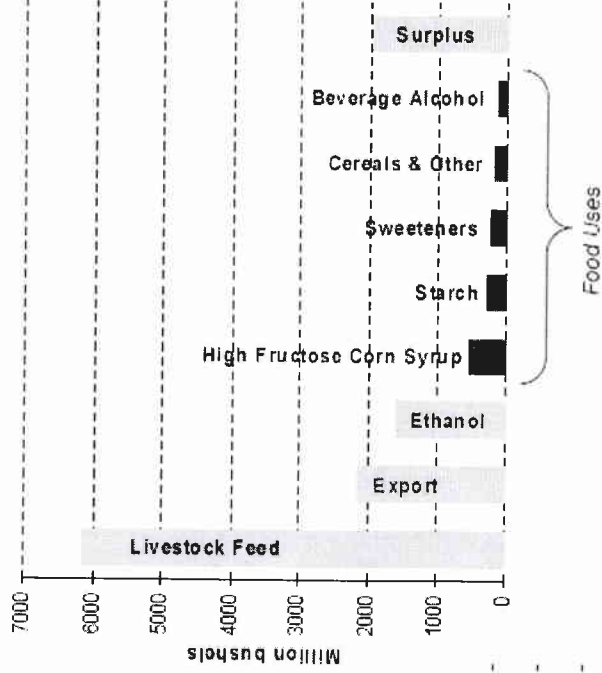
- Ethanol accounts for 15% of corns demand
- Ethanol process simply extracts starch from the kernel



Ethanol Facts: Food vs Fuel

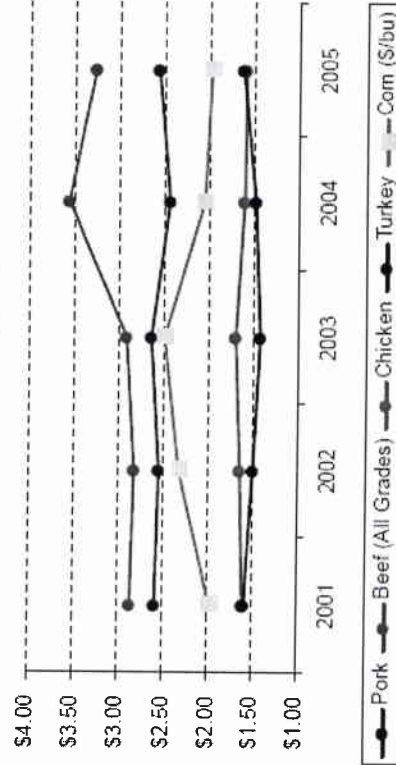
- DDGS, a byproduct of the ethanol process can be used as a feeding supplement.

05/06 Corn Use



- The price of corn doesn't influence Retail Meat Prices.

Retail Meat Prices and Corn Price
 Feature-weighted average price (\$/lb.)
 Meat prices=\$/lb.; Corn price=\$/bu.

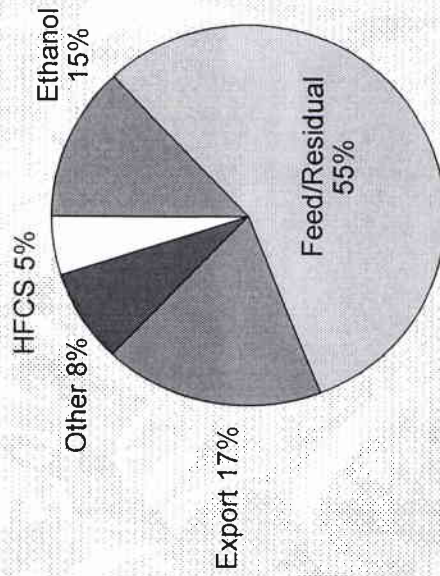


Source: USDA Livestock Marketing Information Center, Retail Scanner Prices for Meat

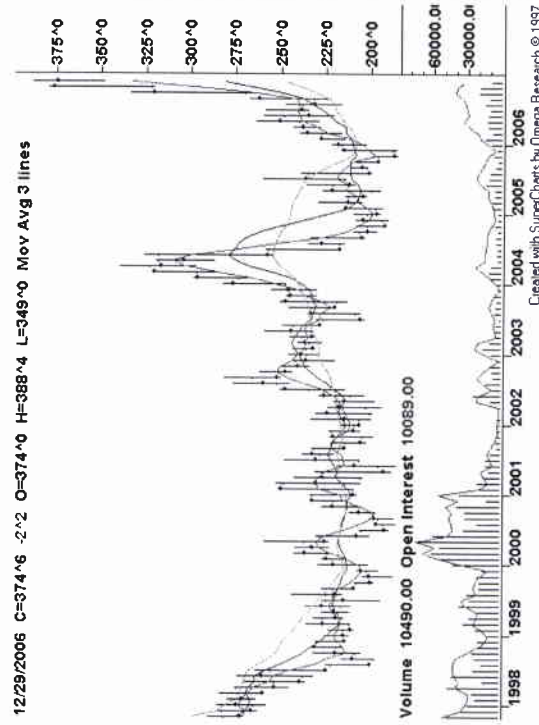
Industry Outlook - Corn

- Price levels of corn after 1996 reverted back to their original levels as supplies returned.
- At the end of 2005/2006 marketing year there was 1.97 billion bushels of yearly carryover corn, enough to produce 6 billion gallons of ethanol.
- Projected 2006/2007 carryover corn levels are slightly less than 1 billion bushels.
- USDA CURRENT PREDICTION OF +10% to +15% MORE ACRES 2007

U.S. Corn Usage by Segment, 2005



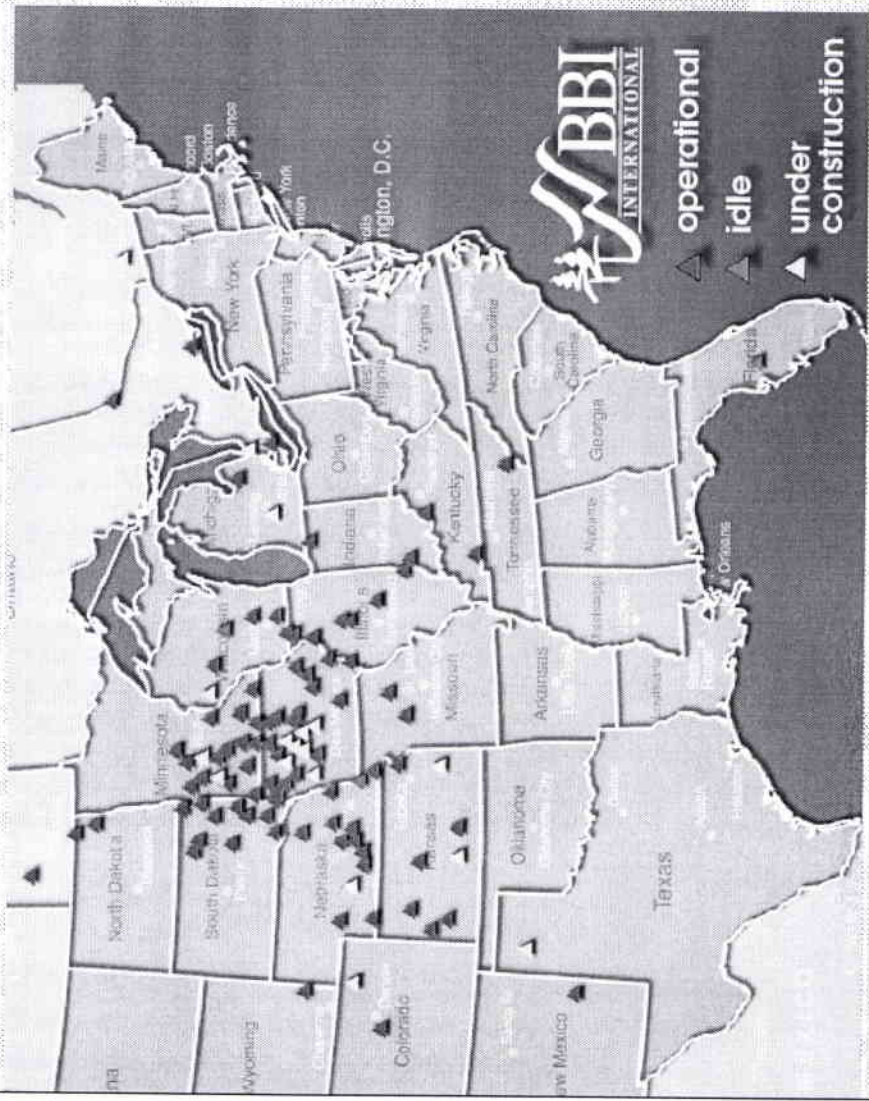
Historical Corn Price



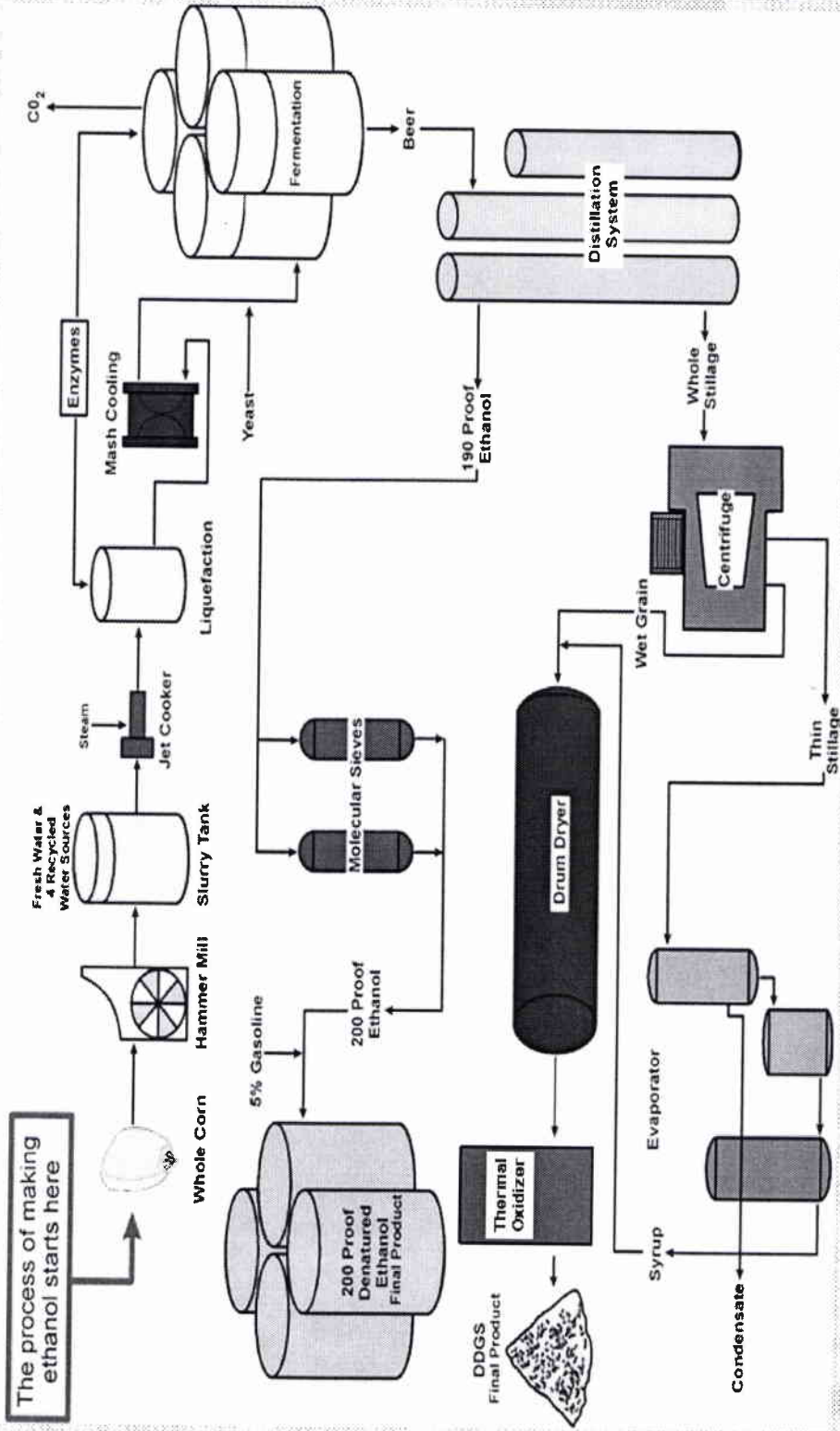
Source: "Concerns About High Corn Prices Unfounded" National Corn Growers Association

Ethanol Plant Locations

- 110 Ethanol Plants at the end of 2006.
- Total production capacity of 5.4 billion gallons.
- Currently 75 ethanol plants under construction or expansion to add 5.5 billion gallons of capacity.
- Total production will reach 11 billion gallons shortly.

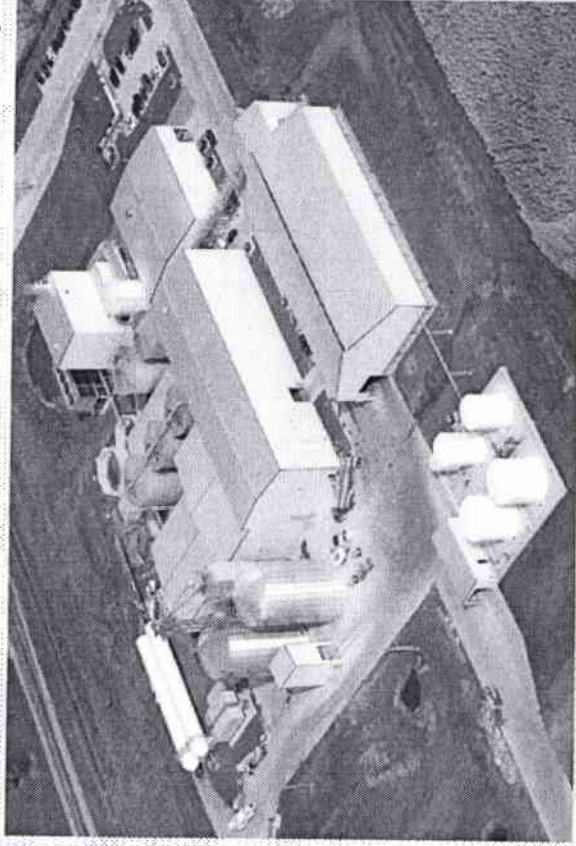


Ethanol Production Process



Plant examples

Ethanol Plant (Utica, WI)
Cogeneration Plant
(Piney Creek)





Consus Ethanol, LLC

PROJECT SPECIFICS