

Range Beef Cow Symposium XX
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Agriculture

Renewable energy



Ethanol

- Every gallon of ethanol produced replaces imported fossil fuels
- New market for corn farmer
- Enhance market for other grain farmers
- Byproduct feeds cattle

Ethanol
direct help to rural communities



- Less dependent on foreign oil
- Rural jobs
- Share tax base
- Ag dollars have multiplier effect in community



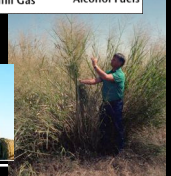
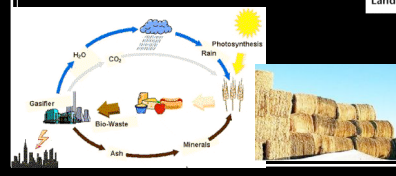
Biodiesel
direct help to agriculture

- Every gallon biodiesel produced replaces one gallon of fossil fuels
- Possible alternate crops for farmers
- Rural Jobs and Tax base



Biomass
...same direct help as with wind & biofuels

- Ag can produce plant / animal matter for: Biofuel...Fibers...Chemicals...Heat
- Repeat benefits as with wind & biofuels



Wind Energy: *direct help to agriculture*



- Profitability
- Water Shortage
- Production Costs
- Climate Change

PROFITABILITY direct income from wind

- Land Development leases
- Tax Base Sharing
- Community Development
- Rural Jobs
- \$2000 to \$3000 per MW installed
- Small Wind
- Community Wind



Impacts on the cattle business from corn as ethanol

- Price squeeze for feeders
- More volatility in the feed grain market
- Corn-based ethanol is a bridge fuel to cellulosic ethanol

The Cattle – Ethanol Connection

- Transportation costs
- Processing
- Energy savings with byproduct
 - distillers grains
 - Ethanol

Beef market relies on exports

- Mexico and Canada are Colorado's top export market
- Colorado lost \$150 million in exports when BSE was discovered in 2003
- \$600 million lost to Colorado beef producers since 2003
- Japan is opening, Korea still closed

Japanese Market is critical

- Colorado shipped \$10 million in beef this year
- In 2003 that figure was \$80 million

