

2008 CMDC

Nebraska's Potential

Biofuels Crops

- John Hay

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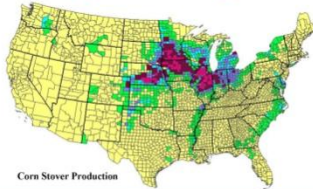
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Cellulose Challenges

- Harvest
- Storage
- Marketing Contracts
- Opportunity Cost



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Oil Seed Challenges



- Harvest
- Storage
- Markets
 - Oil
 - Meal
- Pests/Diseases
- Opportunity Cost

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Opportunity Costs

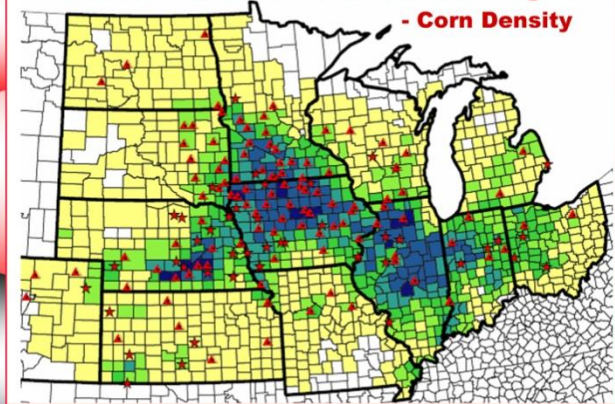
U.S. Crops	Yield bu/ac	Yield lbs. / acre	Products	Oil %	Oil Yield lbs/ac	Operating Costs	Opp Cost
Soybeans	dry 40	2,376	Oil, Meal	18%	428	\$194	\$286
	irr 65					\$299	\$481
Sunflowers (oil type)		2,200	Oil, Meal	40%	880	\$300	\$360
		dc 1,200			480	\$200	\$160
Canola**		irr 2,300	Oil, Meal	40%	920	\$194*	\$450*
Corn	dry 125	8,960	Oil, Ethanol, DDGS	<2%	130	\$268	\$482
	irr 200					\$406	\$794
Switchgrass		8,000	Hay, Biomass			\$125	\$175
Wheat	60	3,360				\$232	\$248

Source: USDA - National Agricultural Statistics Services, <http://www.nass.usda.gov/QuickStats/>

*estimated operating costs
** Western Nebraska

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Ethanol Plants in North Central Region - Corn Density



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Cellulose Harvest



Whole Plant Harvest

Harvest With Combine

Round Baling



Cobs with Combine



Cobs with Combine and Cart



Miscanthus Harvest



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