

Iowa State University Extension



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Biofuels Update & Outlook

11/27/07

Global Biofuels Developments

- **Dramatic changes emerging in global Ag**
- Rapid expansion-- in U.S., Brazil, EU
- About 90% of Global Ethanol -- from U.S., Brazil
- EU leading in biodiesel use
- Rapid growth of palm oil production for biodiesel
- ***Major constraint: cropland availability***
- Global forces will determine size of industry

41 countries encourage biofuels

Major Countries with Ethanol Fuels

- **U.S.**
- **Brazil**
- **Canada**
- **China**
- **EU-27**
- **Thailand**

Countries considering ethanol fuels

- **South Africa**
- **Ukraine**
- **Japan, others**

Major Countries with Ethanol Fuels

- **U.S.** – likely production of 14-15 bil. gal. from corn in 4.5 to 5.5 years
- **Brazil** current 5.34 bil gal. –89 new ethanol plants to be built, 2007-2011 (51 under construction)
 - 2% biodiesel mandate by 2008 & 5% by 2013
- **China** – 3 corn-based plants, emphasis shifting to other feedstocks (9 mil. T. maize for ethanol)

Major Countries with Ethanol Fuels, cont.

- **EU-27** – 5.75% of motor fuel to be renewable by 2010, 10% in 2020
- **Canada** – 5% ethanol mandate by 2010, 2% biodiesel by 2012
- **Thailand** – ethanol from sugar, casava

Biodiesel– Competition for crop land

Corn Futures 11/16/07

Cents Per Bushel

<u>7-Dec</u>		380
<u>8-Mar</u>		396
<u>8-May</u>		406
<u>8-Jul</u>		415
<u>8-Sep</u>		419
<u>8-Dec</u>		425
<u>9-Mar</u>		430
<u>9-May</u>		433
<u>9-Jul</u>		438
<u>9-Dec</u>		425
<u>10-Mar</u>		428
<u>10-Jul</u>		431
<u>10-Dec</u>		425

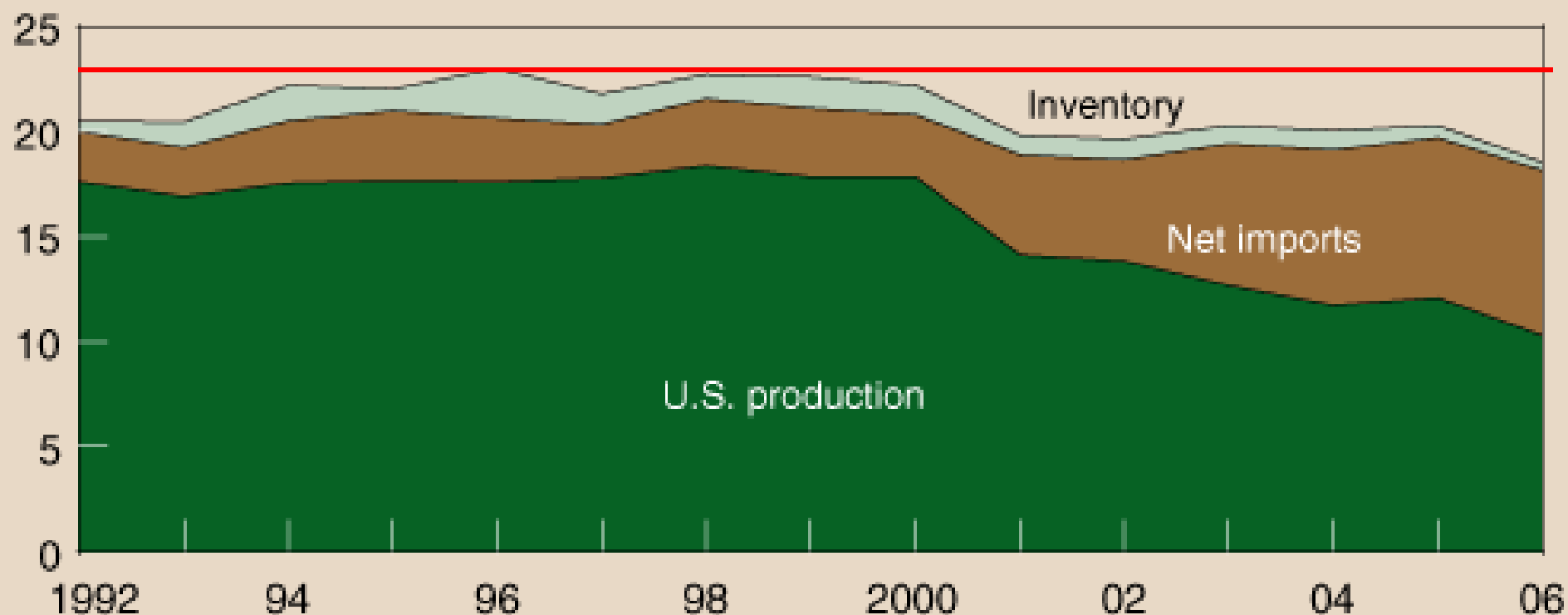
Soybean Futures 11/16/07

Cents Per Bushel

<u>8-Jan</u>			1084
<u>8-Mar</u>			1100
<u>8-May</u>			1105
<u>8-Jul</u>			1107
<u>8-Aug</u>			1086
<u>8-Sep</u>			1040
<u>8-Nov</u>			1018
<u>9-Jan</u>			1021
<u>9-Mar</u>			1022
<u>9-Jul</u>			1020
<u>9-Nov</u>			965

U.S. ammonia supply more dependent on imports since 2000

Million tons



Note: Fertilizer year starts from July of the preceding year to June of the year indicated in the chart.

Source: USDA, Economic Research Service, using production and inventory data from the U.S. Department of Commerce and The Fertilizer Institute, and net import data from ERS.



热烈欢迎各级领导莅临天冠检查指导工作

请来宾登
记后进厂









China Ethanol Policy

- **No more grain-based ethanol plants**
- **Emphasis on root crops**
- **Operating pilot cellulose plant**
- **Interest in biodiesel from palm oil**









Battle for acreage: S. Am., EU, U.S. wheat, SB, Cotton, & Corn: Key Influences

1. Ethanol profitability

--Infrastructure & transportation

-- Negative margins ahead -- how long & how bad?

2. Govt. biofuels mandates?

3. Strong Corn Export sales

4. World Economy?

5. EU opening up 10% set-aside in 2008

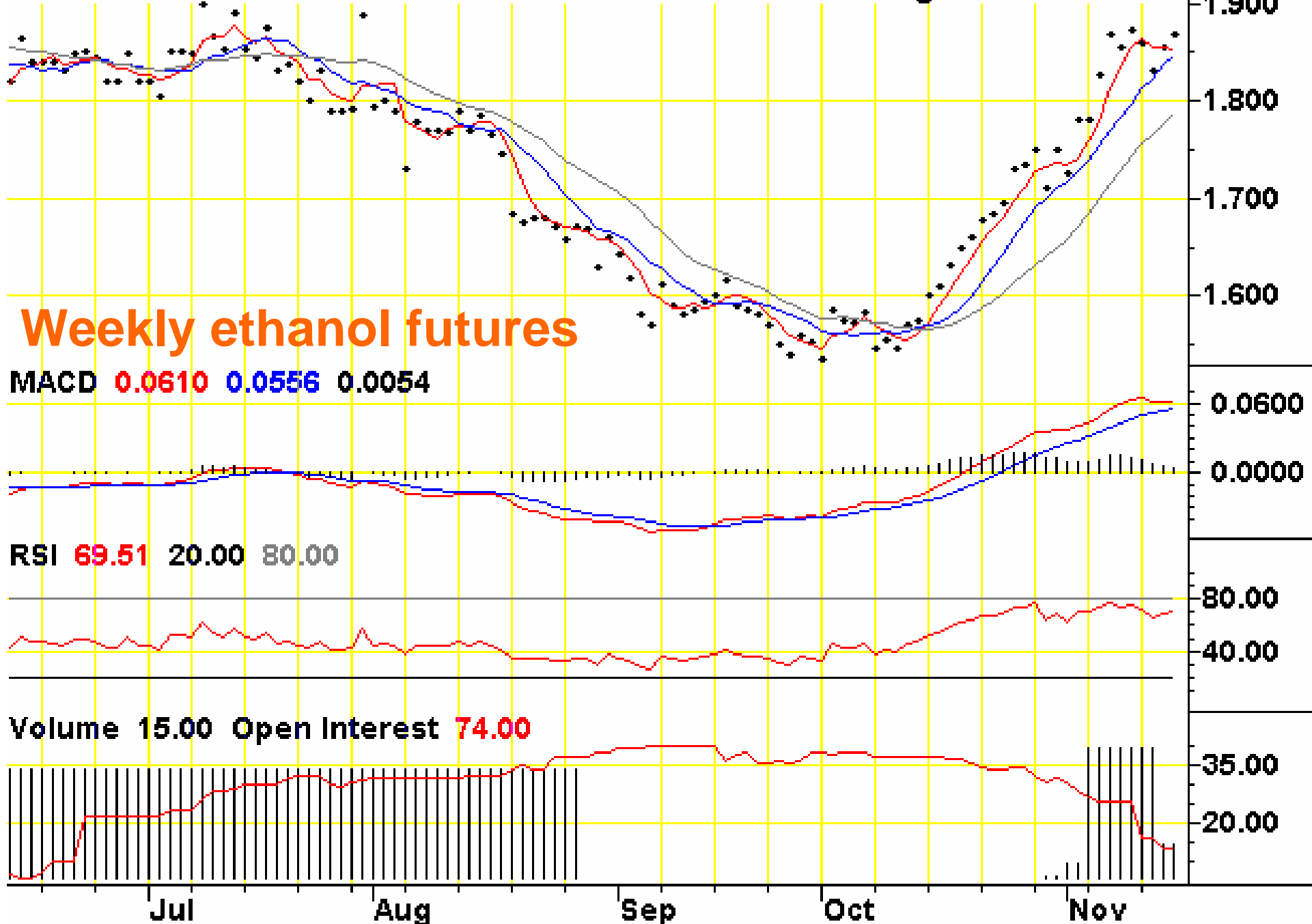
6. Basis behavior, spring & summer

Market Overview

R. Wisner, ISU Econ.

1. ***Corn Supplies fully adequate for demand***
 - Slower domestic feed demand
 - Slowing ethanol growth
 - Sizeable increase in carryover likely in 08
2. ***SB supplies tightening***
 - How tight depends on S. America
 - More 5-6 mil. More SB acres needed next spring
3. **Price prospects, cash corn prices:**
 - steady to modestly higher into mid-winter. *Down-side risk in summer*
4. **Price prospects, cash SB:**
 - higher trend into mid-winter, high volatility, summer risk.

11/15/2007 C=1.868 +.013 O=1.868 H=1.868 L=1.868 Mov Avg 3 lines



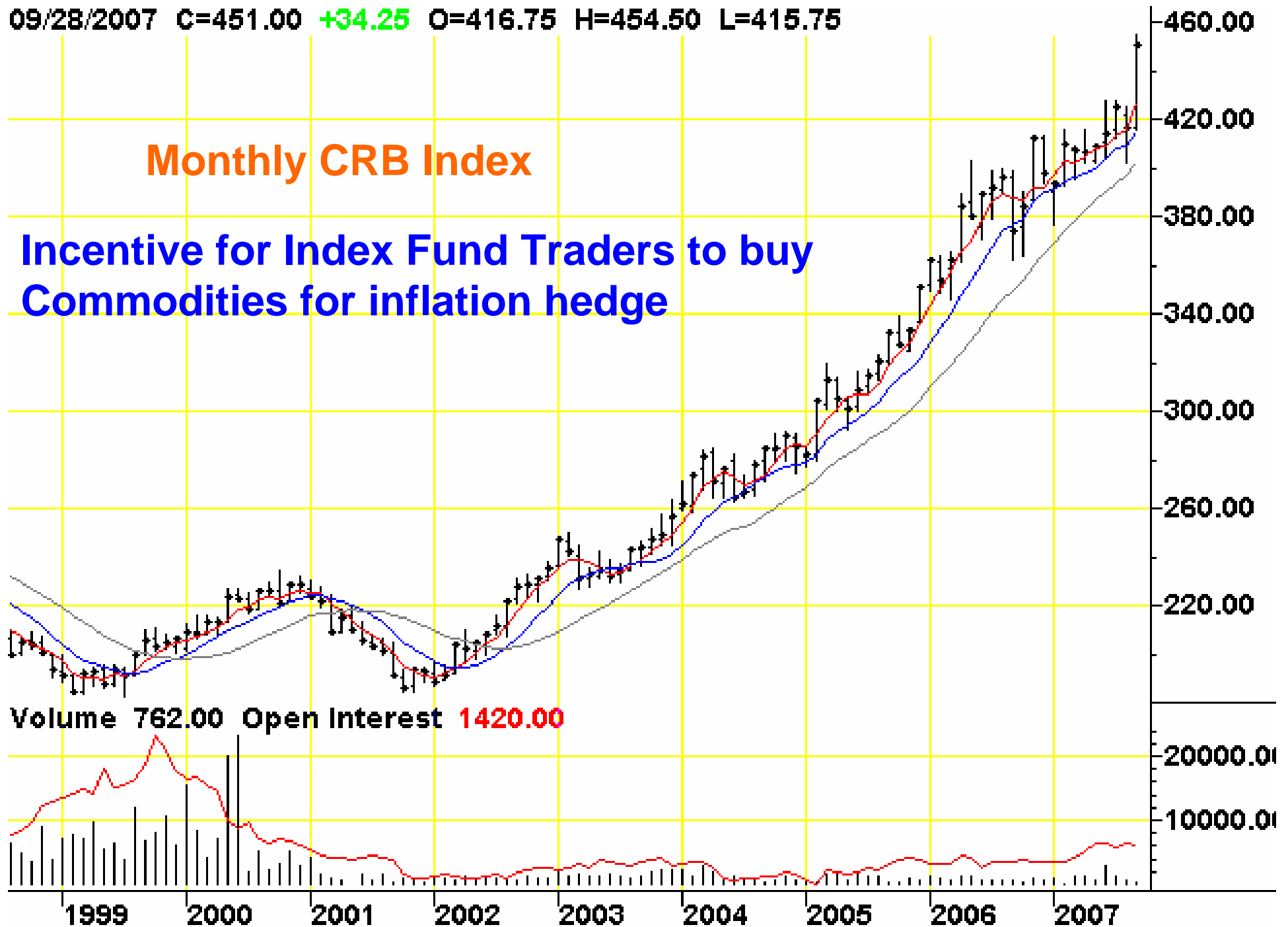
Ethanol Blending Economics- 10/22/07

		Rack Price/Gal.			
Unleaded gas		\$2.13	2.36	11/15/07	
Ethanol		\$1.69	1.92		
					11/25/07 HOI
		Retail Price/Gal.			
	Unleaded		E-10	E-85	E-85
Component costs	gas				
Ethanol	0		0.17	1.44	1.63
Unleaded Gasoline	2.13		1.92	0.32	0.35
Federal Hwy. Tax	0.185		0.185	0.185	0.185
State Hwy. Tax	0.20		0.20	0.20	0.20
Ethanol tax credit	0		-0.05	-0.434	0.434
Retail Margin	0.20		0.20	0.60	0.059
Retail Price @ pump	\$2.72		\$2.62	\$2.31	\$2.00

09/28/2007 C=451.00 +34.25 O=416.75 H=454.50 L=415.75

Monthly CRB Index

Incentive for Index Fund Traders to buy
Commodities for inflation hedge



09/28/2007 C=77.63 -3.12 O=80.71 H=81.10 L=77.58 Mov Avg 3 lines

**Weekly U.S. Dollar Index:
Reduces grain prices in
world markets**

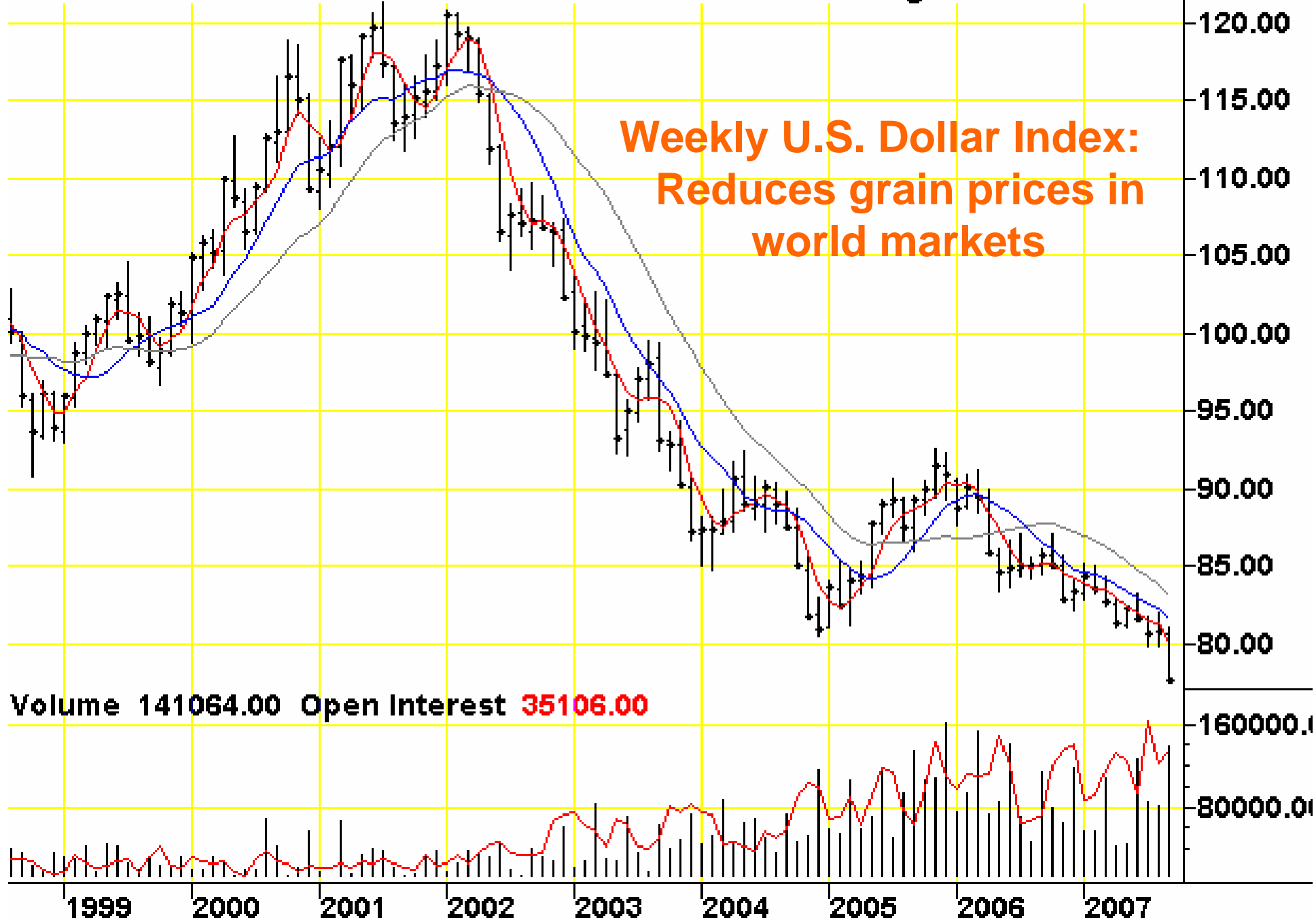


Figure 1. Iowa Gross Processing Margins for Ethanol,
January 2000-Prelim. Sept.-Oct. 2007 \$ Per Gallon

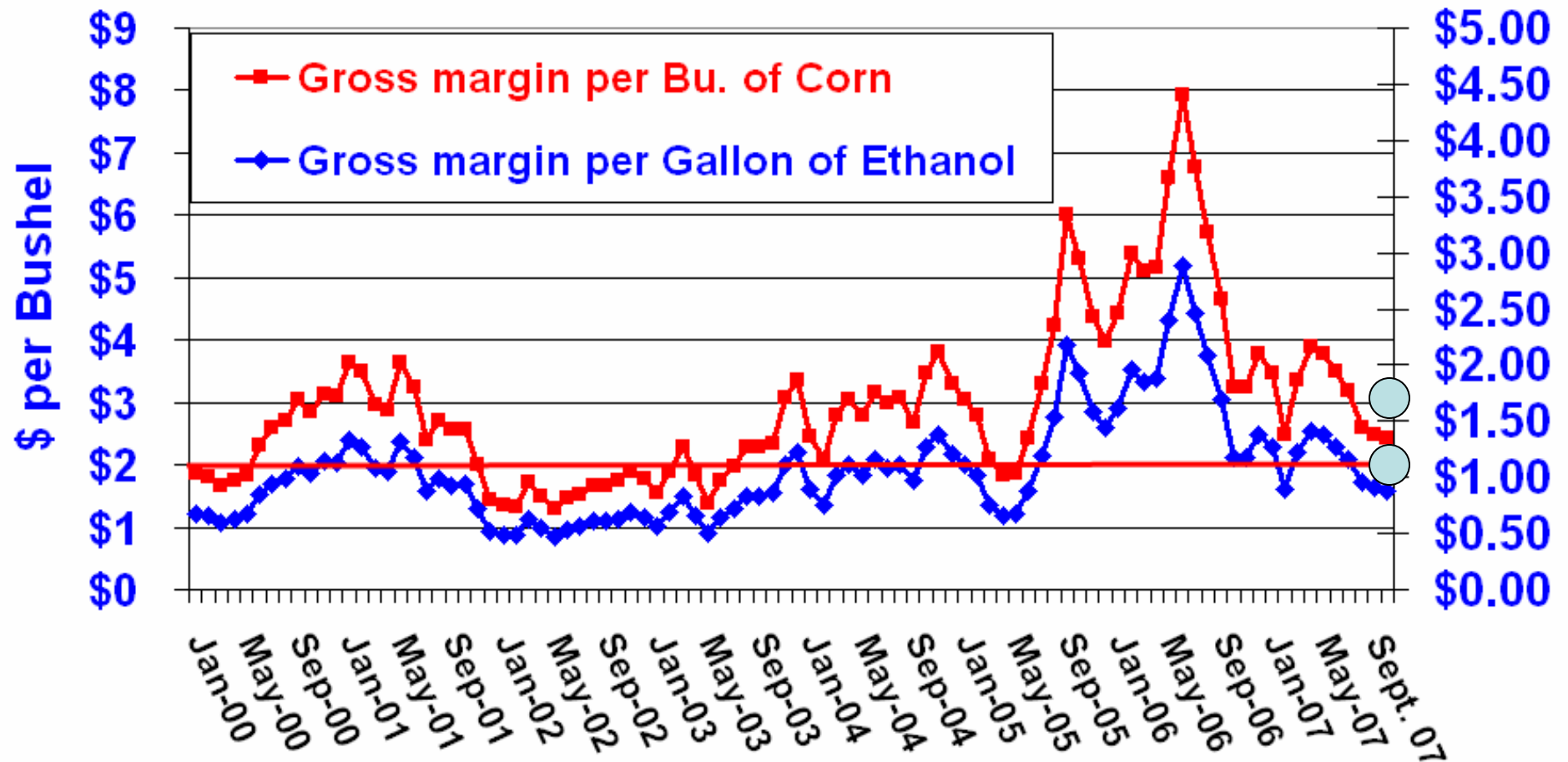
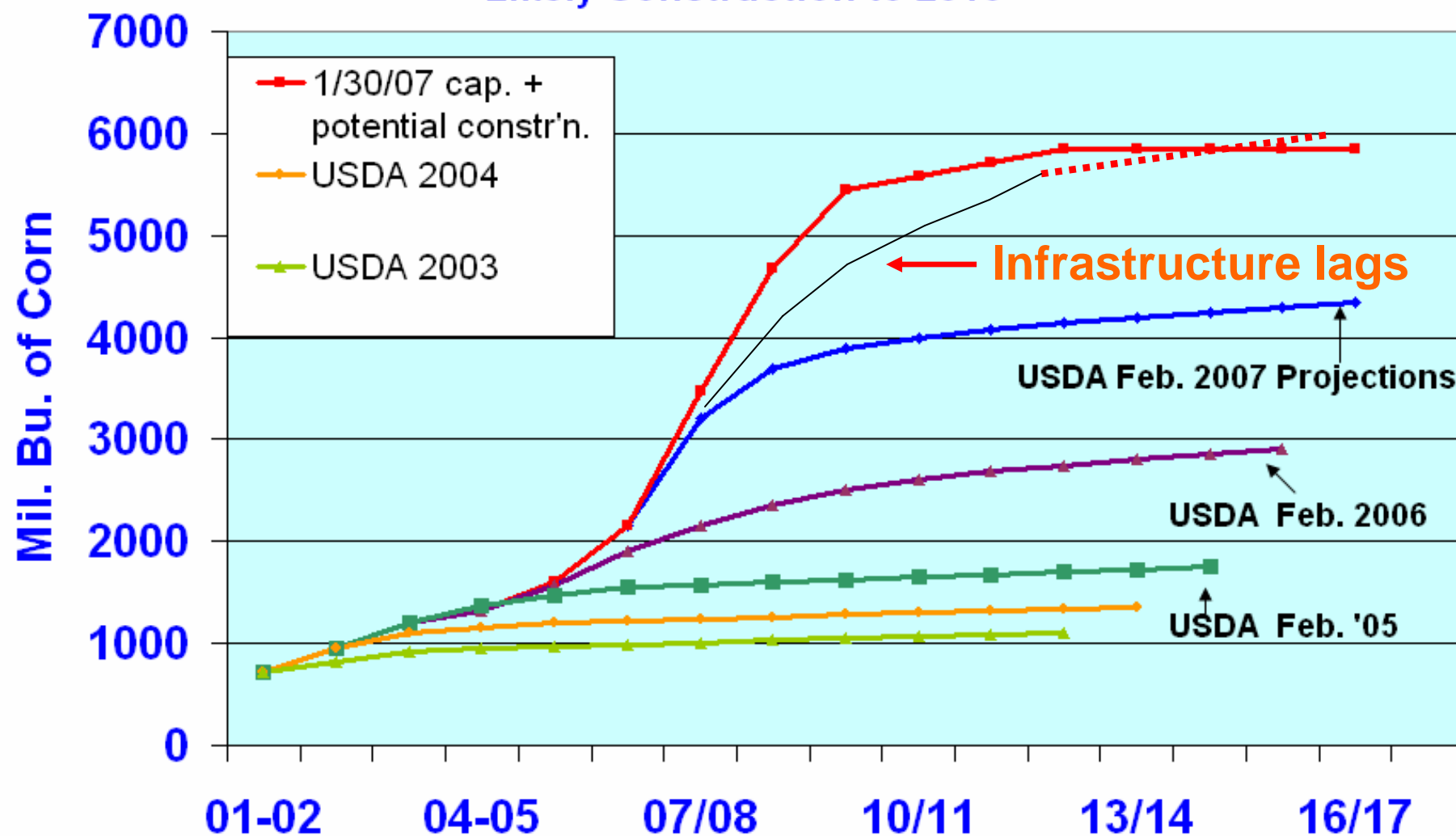
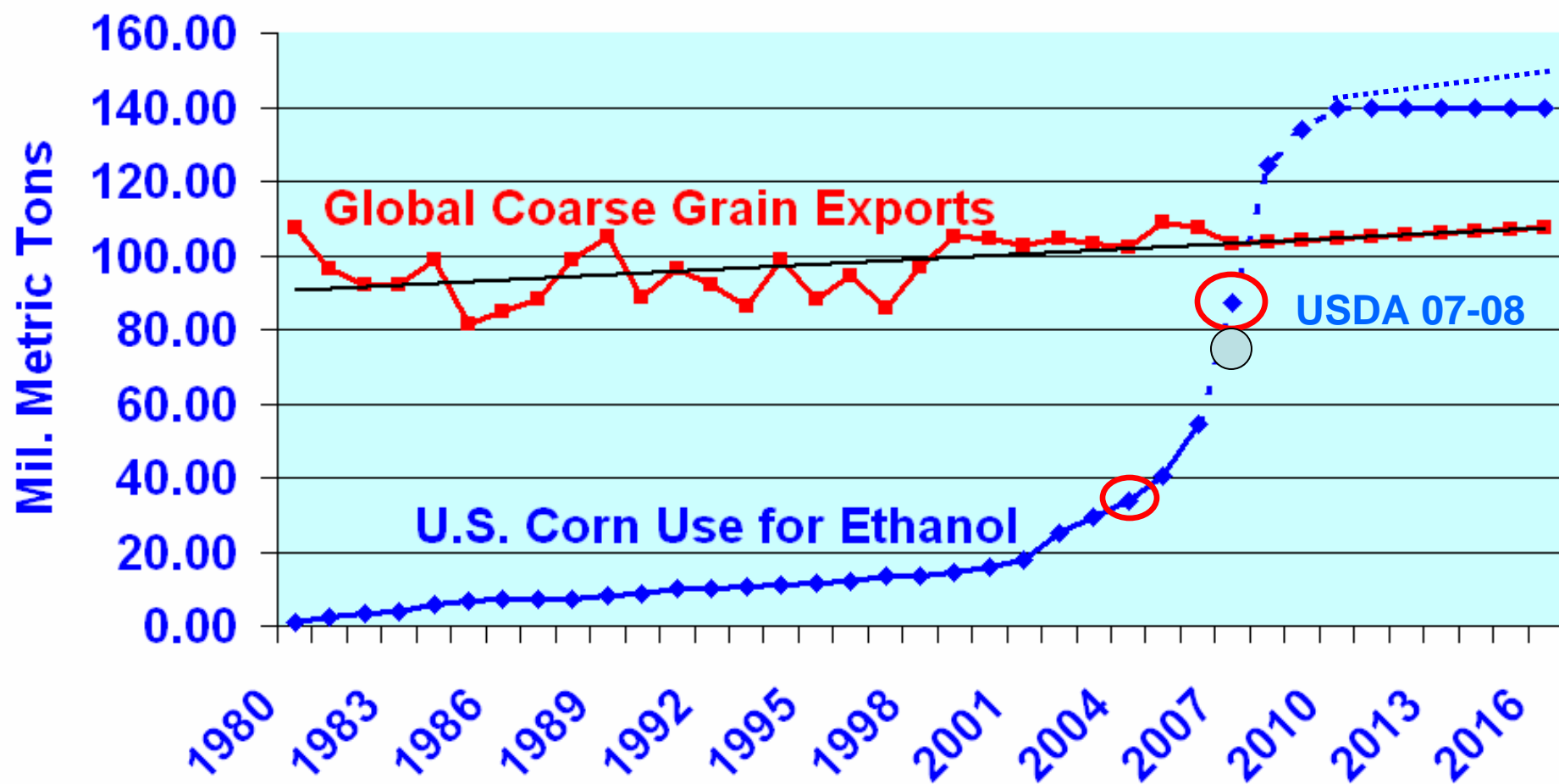


Figure 1. USDA Feb. '07 & Previous 10-Yr. Projections of Corn for Ethanol, Plus Existing & Under Construction Capacity + Likely Construction to 2010



Mil. Tons U.S. Corn Use for Fuel Ethanol & Global Coarse Grain Exports

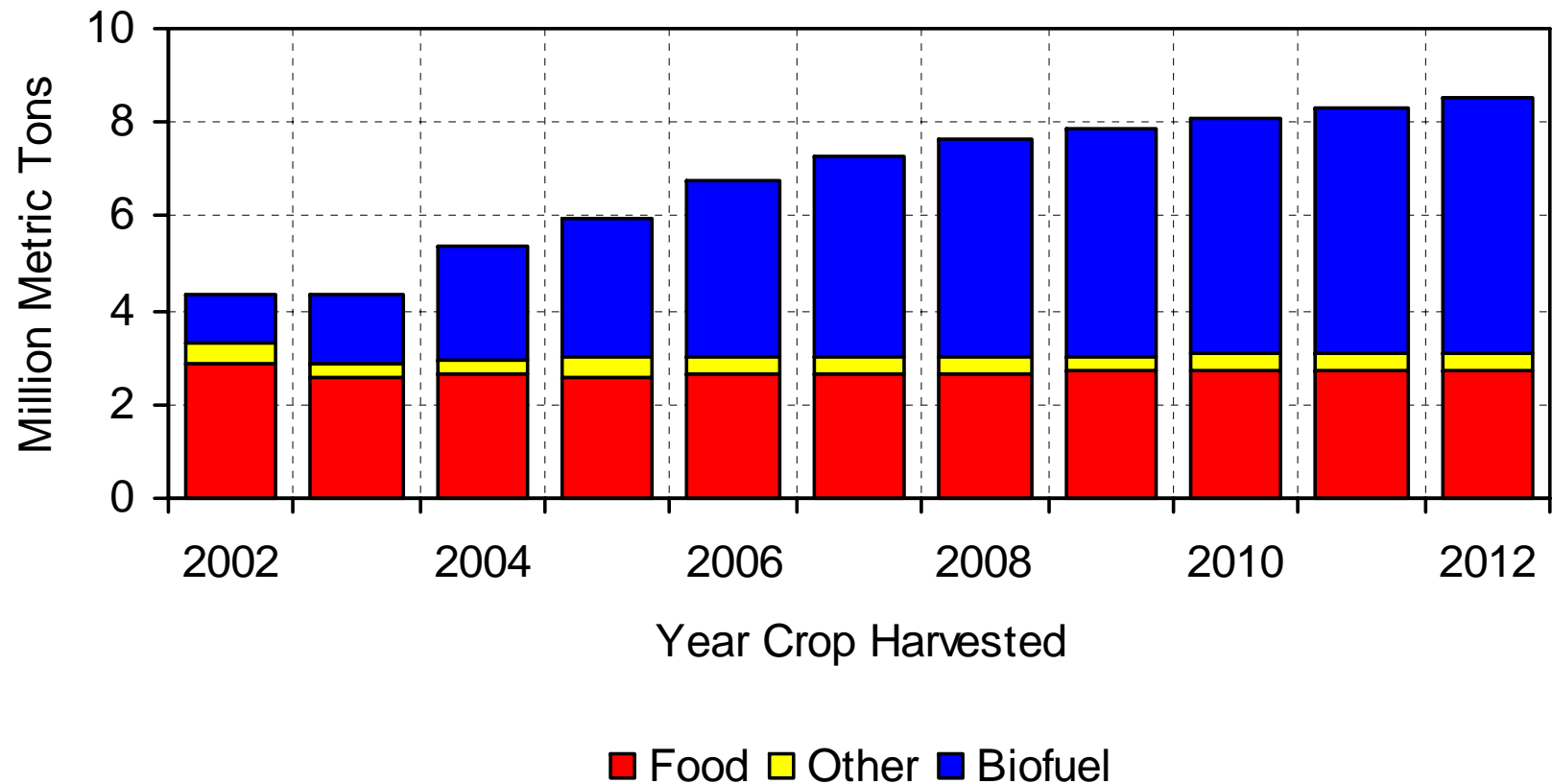


International Impacts

- U.S. ethanol plants under construction to use 55 mil. tons of corn (doubling use)
 - 3.5 times the volume of Japan imports of U.S. corn
 - 123% of 2006 EU corn crop
 - 66% of global corn exports
- Other countries are expanding ethanol & biodiesel
- Strong negative impacts on animal ag.
- Higher food costs ahead
- Major risk-management challenges in Ag. & bioenergy

**(Growth 2007-12 = 147% of U.S. soybean oil exports)
(Food demand for vegetable oil highly inelastic)**

EU Use of Rapeseed Oil



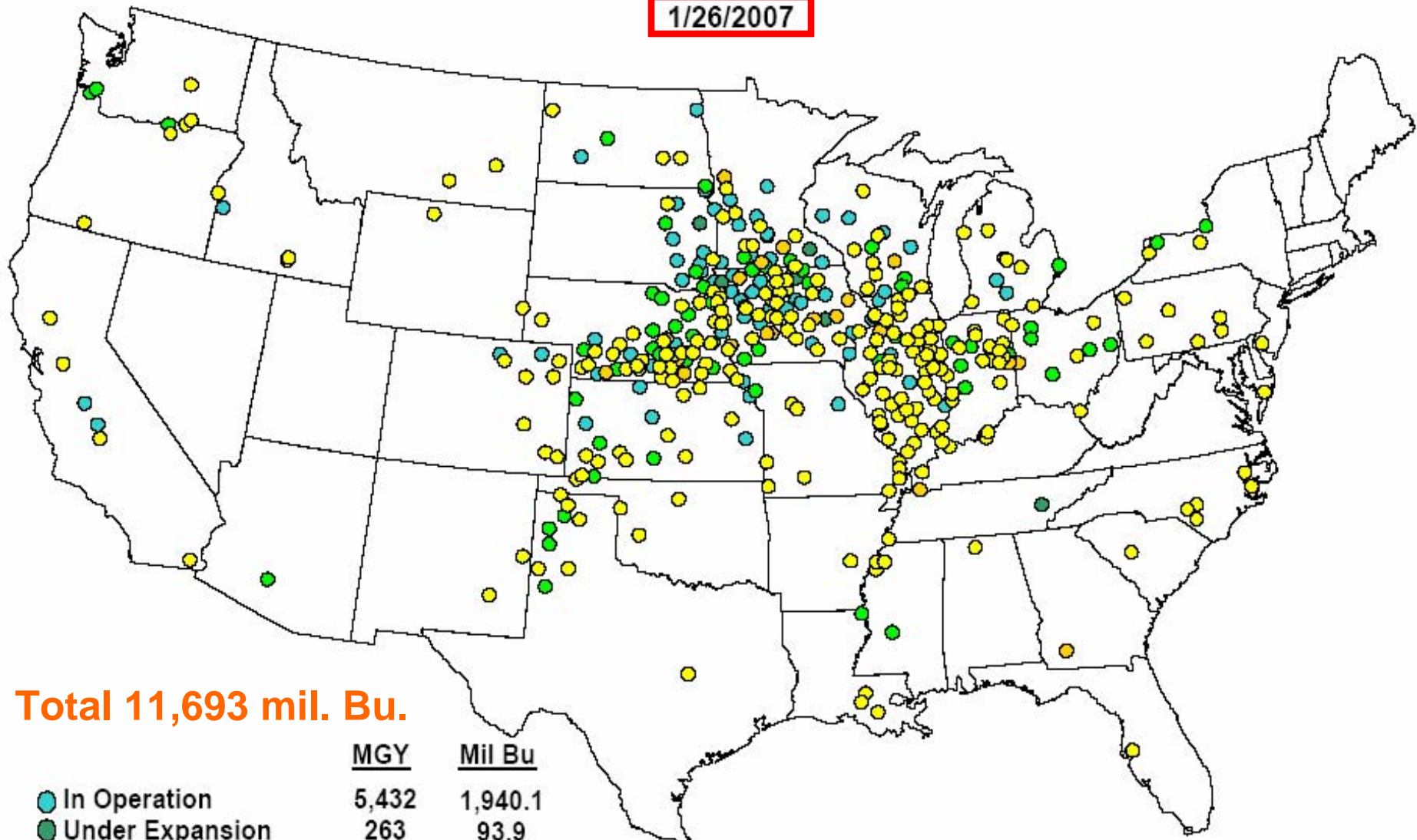
Source: FAPRI estimates

Pulls land away from food uses

Figure 3. US Ethanol Plants



1/26/2007

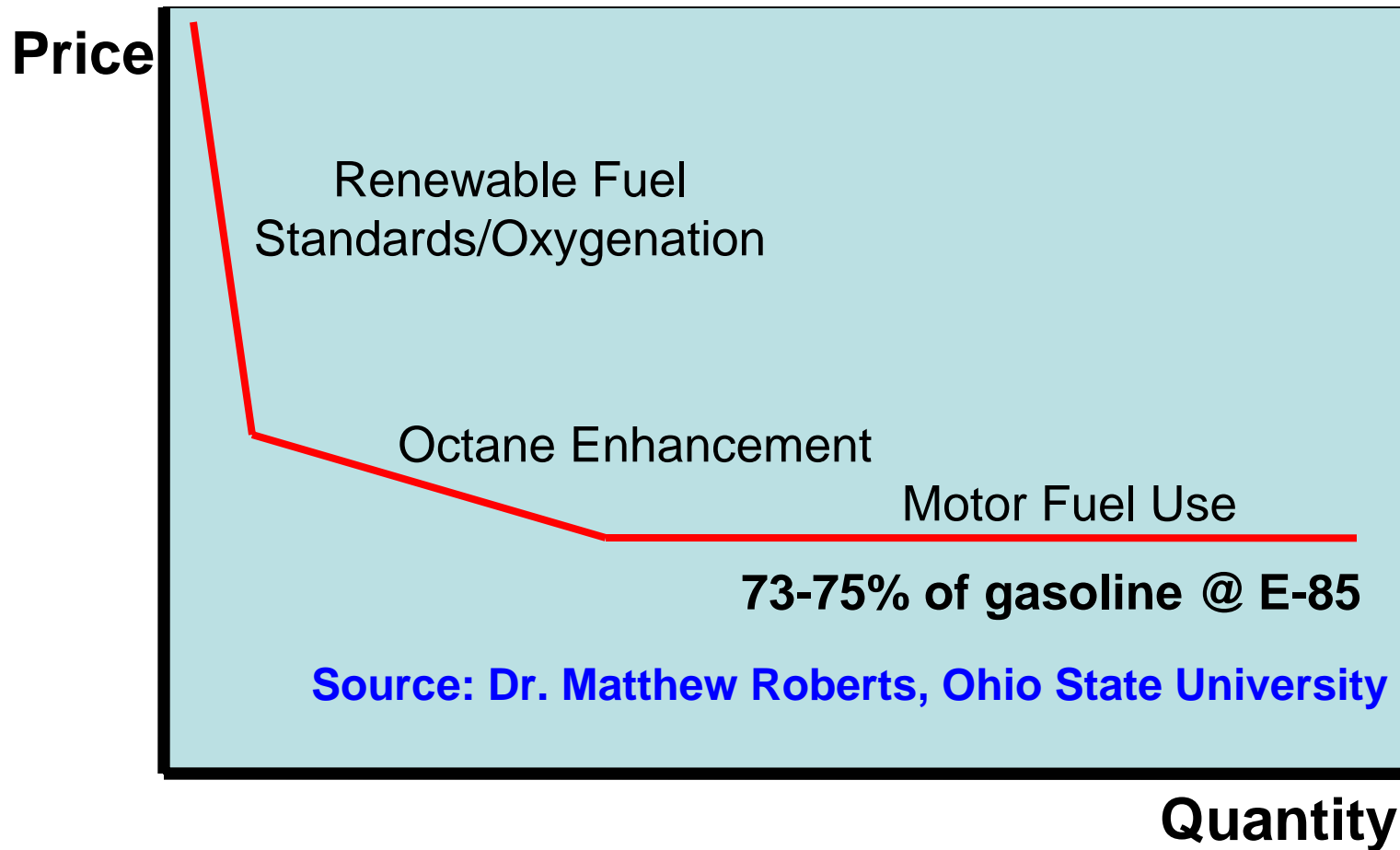


Total 11,693 mil. Bu.

	<u>MGY</u>	<u>Mil Bu</u>
● In Operation	5,432	1,940.1
● Under Expansion	263	93.9
● Under Construction	4,872	1,740.0
● Ground Broken	2,463	879.6
● Planned	19,710	7,039.3

Plants "Under Construction" have broken ground and have poured concrete. Plants that have "broken ground" have begun site work but no actual construction. Plants that are "planned" have been talked about or announced in the news.

Demand Curve for Ethanol



2007-08 U.S. corn supplies adequate to meet demand

- **Crop up 25%, 20% increase in corn acres**
- **But at expense of:**
 - ***16% decline in soybean planted area***
 - ***29% decline in cotton area***
 - ***8% decline in non-durum spring wheat***
 - ***Declines in other minor crops***
- ***Soybean supplies to tighten substantially, increased plantings needed in 2008***
- **Cotton more needed in 2008**
- ***More U.S. corn likely will be needed in 2009***

**Prospective Number of future Ethanol Plants,
7/25/07 (Excludes Current Plants)**

			Under Constr'n	Planned Plants	Total to build
Iowa			13	27	40
Indiana			7	30	37
Illinois			4	56	60
Kansas			6	10	16
Michigan			3	5	8
Minnesota			6	7	13
Missouri			1	9	10
Nebraska			14	36	50
Ohio			12	7	19
S. Dakota			4	4	8
Wisconsin			4	10	14
Corn Belt Total			74	201	275
Non-Corn Belt					
California			3	14	17
Colorado			1	14	15
Idaho			2	1	3
New York			3	6	9
N. Carolina			1	6	7
Penn.			1	7	8
Texas			5	11	16
Other non-Corn Belt			11	83	94
Total non-Corn Belt			27	128	155
U.S. Total			101	329	430

Plant Numbers Sources: Renewable Fuels Association

<http://www.ethanol.org/index.php?id=37&parentid=8#USEthanolFacilities> & DTN Ethanol

Web Site,

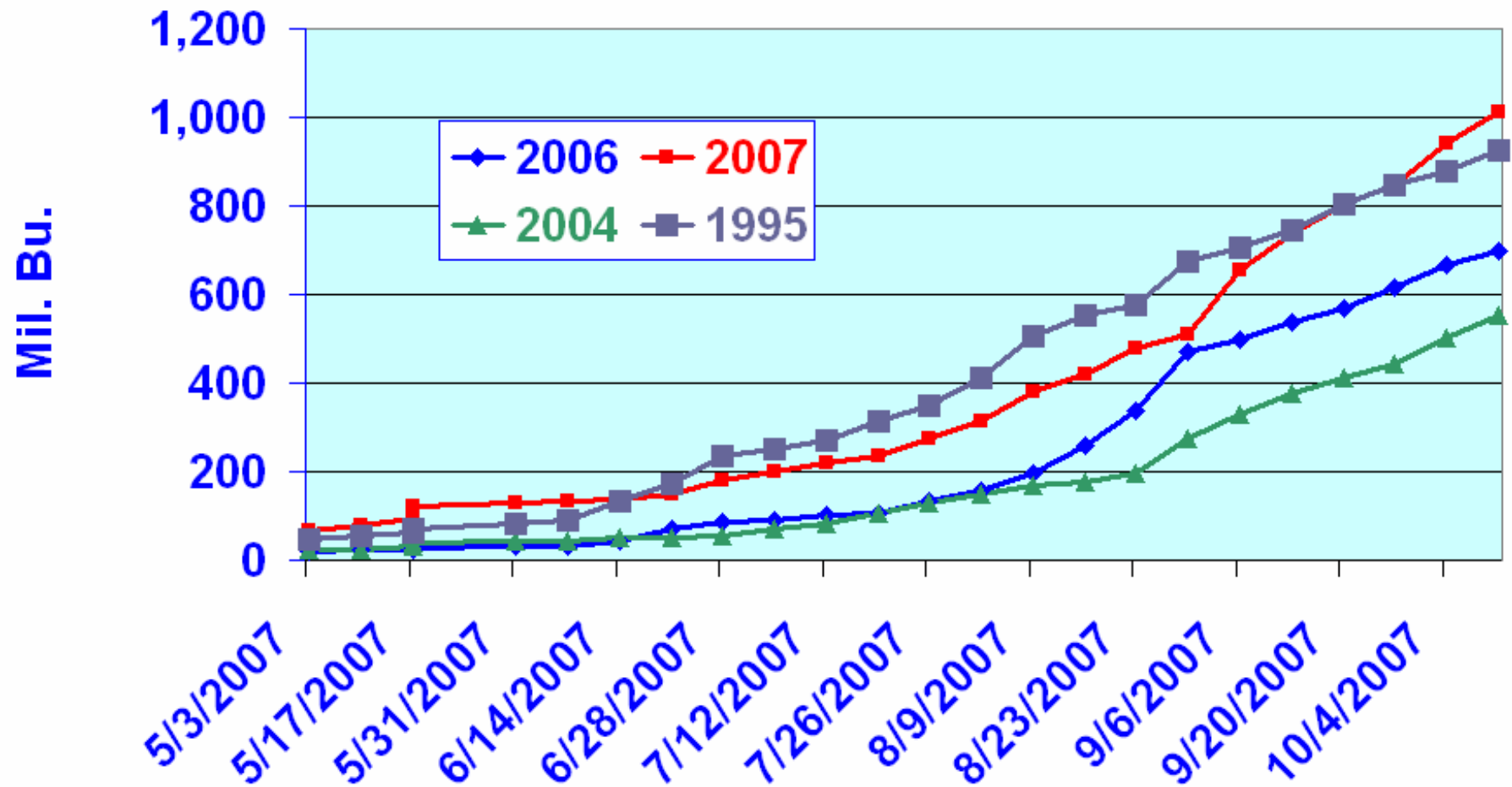
<http://www.dtnethanolcenter.com/index.cfm?show=47&mid=48>

Changes in Ethanol Plants, 7/27 to 11/06/07 (From DTN)

Expansion hasn't stopped

	7/27/07	11/06/07
• U.S. Operating Plants	134	139
• U.S. Plants Under Const.	89	91
• Planned plants	329	343

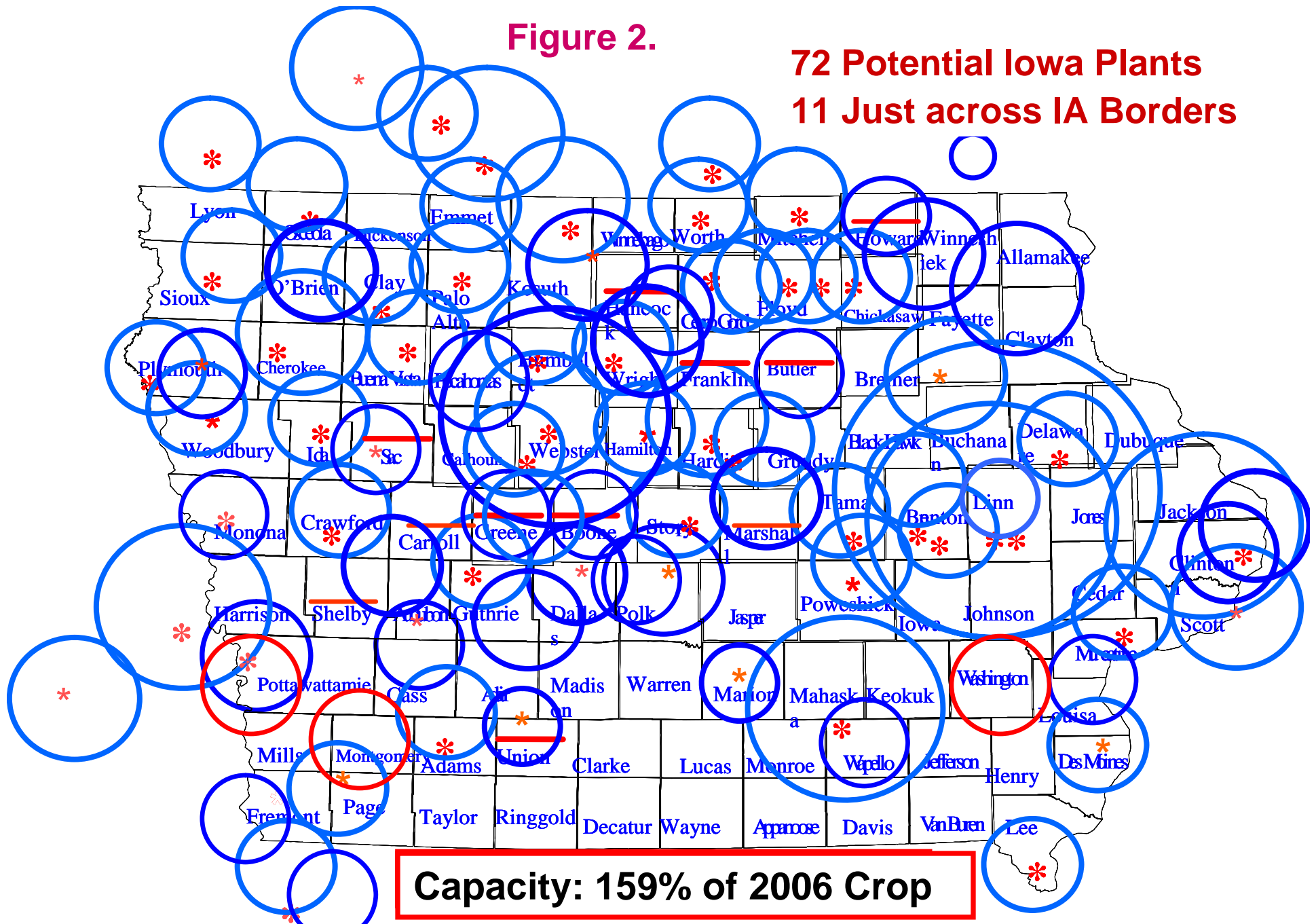
Outstanding New-Crop U.S. Corn Export Sales + Shipments



11/15/2007	Corn Balance Sheet (Mil. Bu.)												
			2004-05	2005-06	Est.	Projected 2007-08		Projected 2008-09			Projected 2009-10		
Supplies:					2006-07	A	USDA-Crop	A	B	C	A	B	C
Plant. A(mil.)			80.9	81.8	78.3	93.6	93.6	88.5	88.5	88.5	93.5	93.5	93.5
Harv.A.(mil)			73.6	75.1	70.6	85.8	86.1	80.5	81.0	81.0	86.0	86.0	86.0
Bu./A.			160.4	147.9	149.1	151.0	152.9	148.0	155.5	158	149.0	158	163
Production			11,807	11,114	10,535	12,956	13,168	11,914	12,596	12,798	12,814	13,588	14,018
Carryover			958	2,114	1,967	1,304	1,304	1,822	1,822	1,822	1,363	1,363	1,363
Total Supply			12,776	13,237	12,514	14,275	14,487	13,751	14,433	14,635	14,192	14,966	15,396
Feed & resid.			6,158	6,155	5,598	5,700	5,725	5,540	5,700	5,775	5,500	5,700	5,750
Food, ind. & seed			2,686	2,981	3,488	4,520	4,540	5,275	5,290	5,330	5,865	5,940	5,990
Corn for fuel ethanol*			1,323	1,603	2,117	3,130	3,150	3,885	3,900	3,940	4,475	4,550	4,600
Exports			1,818	2,134	2,125	2,350	2,400	1,990	2,080	2,100	1,925	1,950	1,975
Total Utilization			10,662	11,270	11,210	12,570	12,665	12,805	13,070	13,205	13,290	13,590	13,715
Carryover			2,114	1,967	1,304	1,705	1,822	946	1,363	1,430	902	1,376	1,681
Weeks carryover supply			10.3	9.1	5.2	7.1	7.5	3.8	5.4	5.6	3.5	5.3	6.4
U.S. weighted Avg. FARM PRICE			\$2.06	\$2.00	\$3.03	\$3.75	3.55	\$4.20	3.60	3.45	\$4.45	3.55	3.35
IOWA weighted Avg. PRICE, \$/Bu.			1.96	1.95	\$2.95	3.70	3.50	4.15	3.55	3.40	4.40	3.50	3.30
Counter-Cyclical Pmt.			0.30	0.35	\$0.00	0	0	0	0	0	0	0	0
HARV. PRICE, C.IA			1.60	1.40	\$2.80	3.30	3.30	3.95	3.00	2.90	4.30	3.25	2.90
DEC. FUT. @ HARV.			\$1.98	\$2.00	\$3.15	\$3.80	\$3.80	\$4.40	\$3.50	\$3.45	\$4.70	\$3.75	\$3.45
Historical Probability						18%	65%	18%	65%	17%	18%	65%	17%
Feed use % chg. Drought years vs. current						1.8%		-1.0%			-5.6%		

Figure 2.

**72 Potential Iowa Plants
11 Just across IA Borders**



Iowa Corn Processing Plants, Current & Planned, 7/25/07

Iowa Corn Processing, 7/23/07				No. plants	Mil. Bu.	of '06 Crop	
Total operating				30	1,294	63%	
Total Under Construction or expansion				10	447	22%	
Total Planned, not yet under construction				34	1,513	74%	
Grand Total (adjusting for plant expansions)				71	3,254	159%	

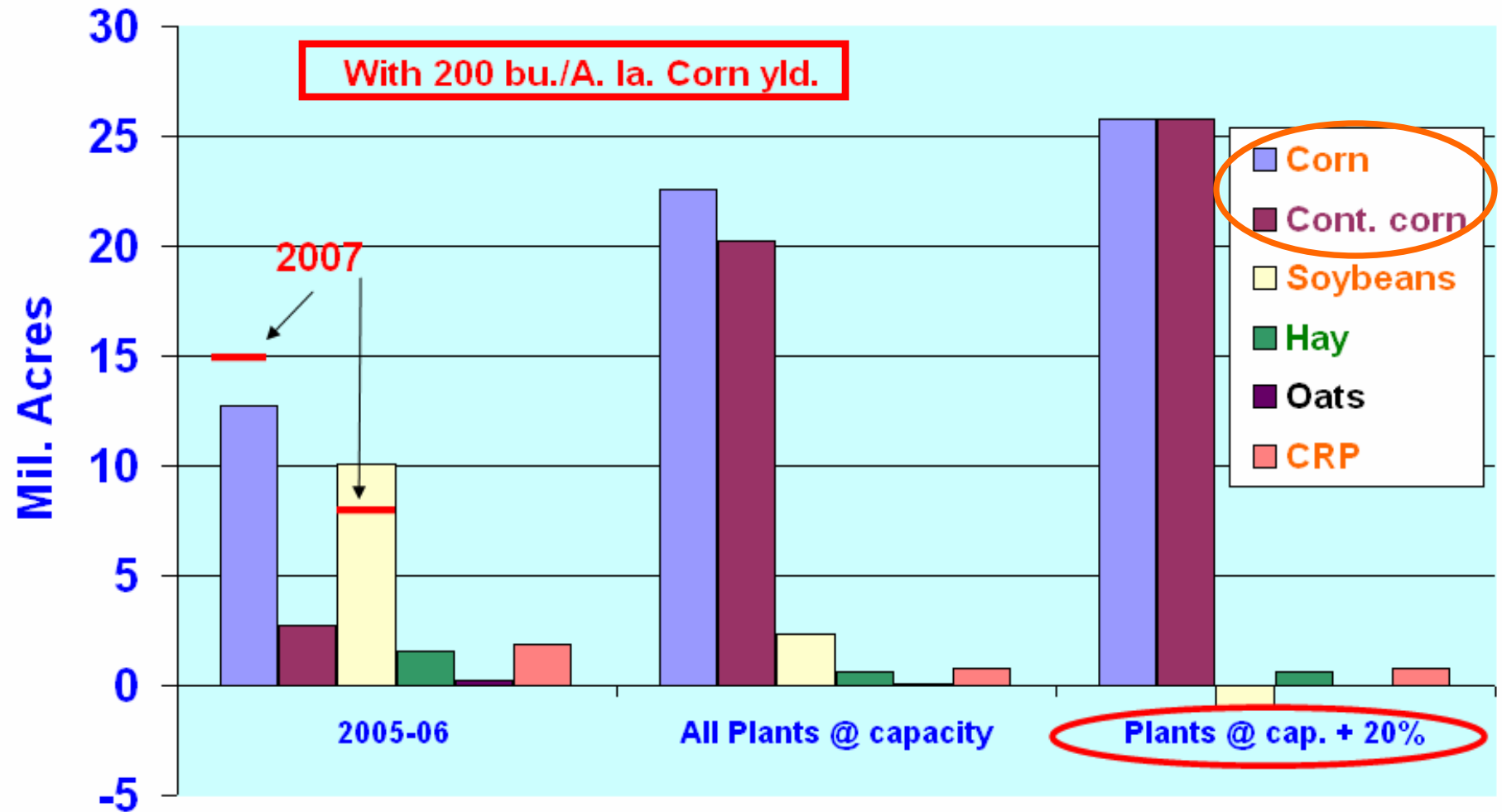
Metric tons Total

82.6

12.5 tons/Ha. yield

Iowa Current & Potential 2010 Crop Acreages

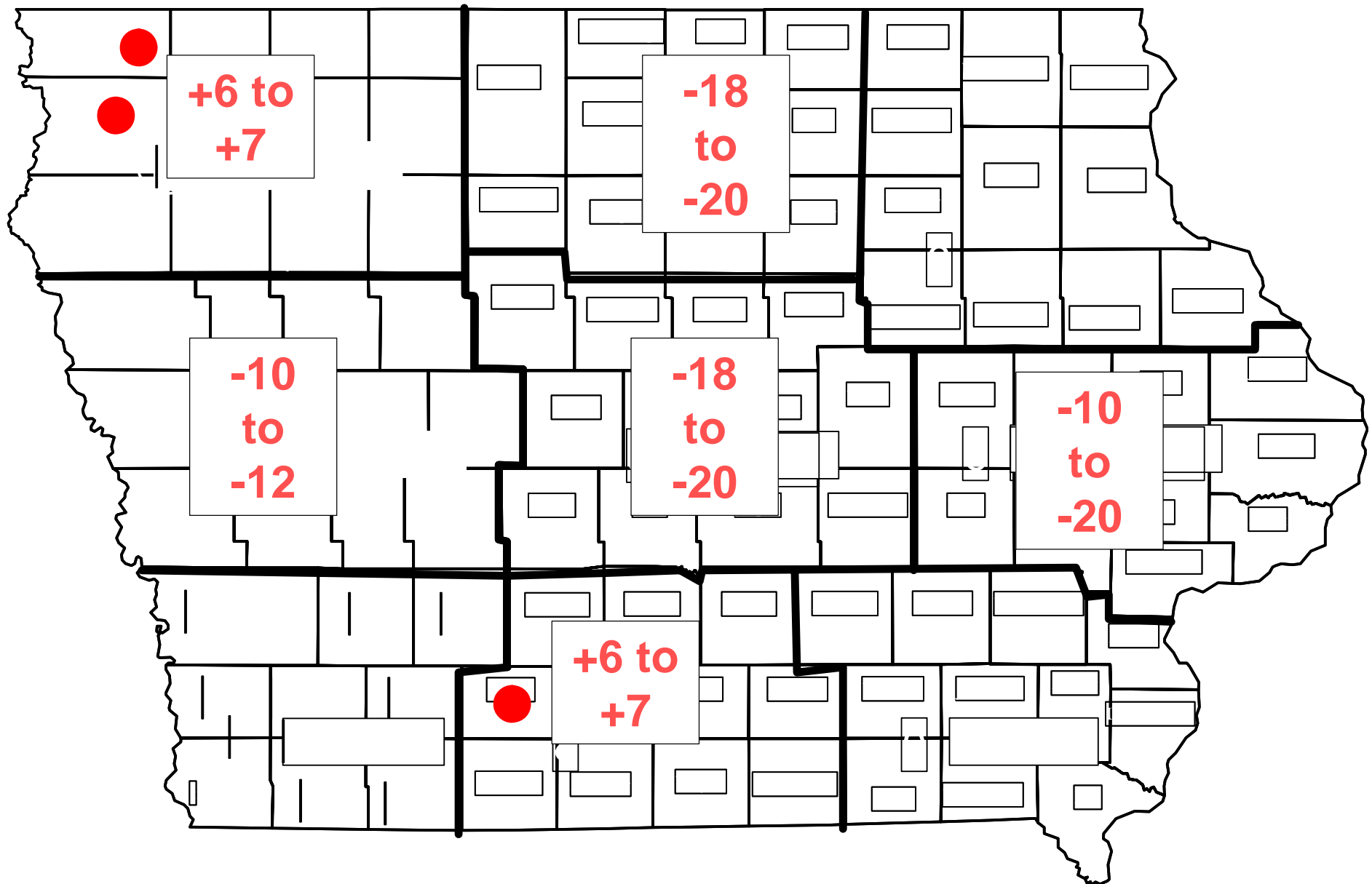
7/26/07



Basis Impacts from Ethanol

- Iowa regional price surface shifting
- Large local variability at point in time
- Increased variability over time
- A few key peaks in price surface, more to come
- Top bidders: processors & feed mills
- Large response to short crops
- Biofuels mandates a potential factor

August 07 High Points in Iowa Corn Basis Feed Mills & Ethanol Plants



N.C. Iowa

Basis Examples, Corn 9/28/07

	<u>Harv. Delivry</u>	<u>July Delvry</u>
Garner	<u>3.18 (-.55)</u>	<u>3.66 (-.42)</u>
Kebler Milling	<u>3.41 (-.32)</u>	<u>3.86 (-.22)</u>
Hobartan	<u>3.29 (-.44)</u>	<u>3.80 (-.28)</u>
Global Lakota (ethanol)	<u>3.28 (-.45)</u>	<u>3.73 (-.35)</u>
Algona	<u>3.20 (-.53)</u>	<u>3.66 (-.42)</u>
Emmetsburg - Ethanol	<u>3.33 (-.40)</u>	<u>3.78 (-.30)</u>
Range	<u>.23</u>	<u>.20</u>

N.W. Iowa

Basis Examples, Corn 9/28/07

	<u>Harv. Delivry</u>	<u>July Delvry</u>
Rock Rapids elevator	<u>3.41 (-.32)</u>	<u>3.77 (-.31)</u>
Ashton ethanol	<u>3.40 (-.33)</u>	<u>3.80 (-.28)</u>
Siouxland Energy	<u>3.51 (-.22)</u>	<u>3.84 (-.24)</u>
Albert City	<u>3.30 (-.43)</u>	<u>3.78 (-.28)</u>
Alton Terminal	<u>3.44 (-.29)</u>	<u>3.81 (-.27)</u>
Orange City elevator	<u>3.44 (-.29)</u>	<u>3.81 (-.27)</u>
Sheldon	<u>3.44 (-.29)</u>	<u>3.81 (-.27)</u>
Visser Elevtr Sioux Cntr.	<u>3.48 (-.30)</u>	<u>N.A.</u>
Egg Center, Sioux Cntr.	<u>3.51 (-.27)</u>	<u>N.A.</u>
Farmers Coop. Sanborn	<u>3.48 (-.30)</u>	<u>3.80 (-.28)</u>
Range	<u>.21</u>	<u>.07</u>

Implications for farm storage
economics?

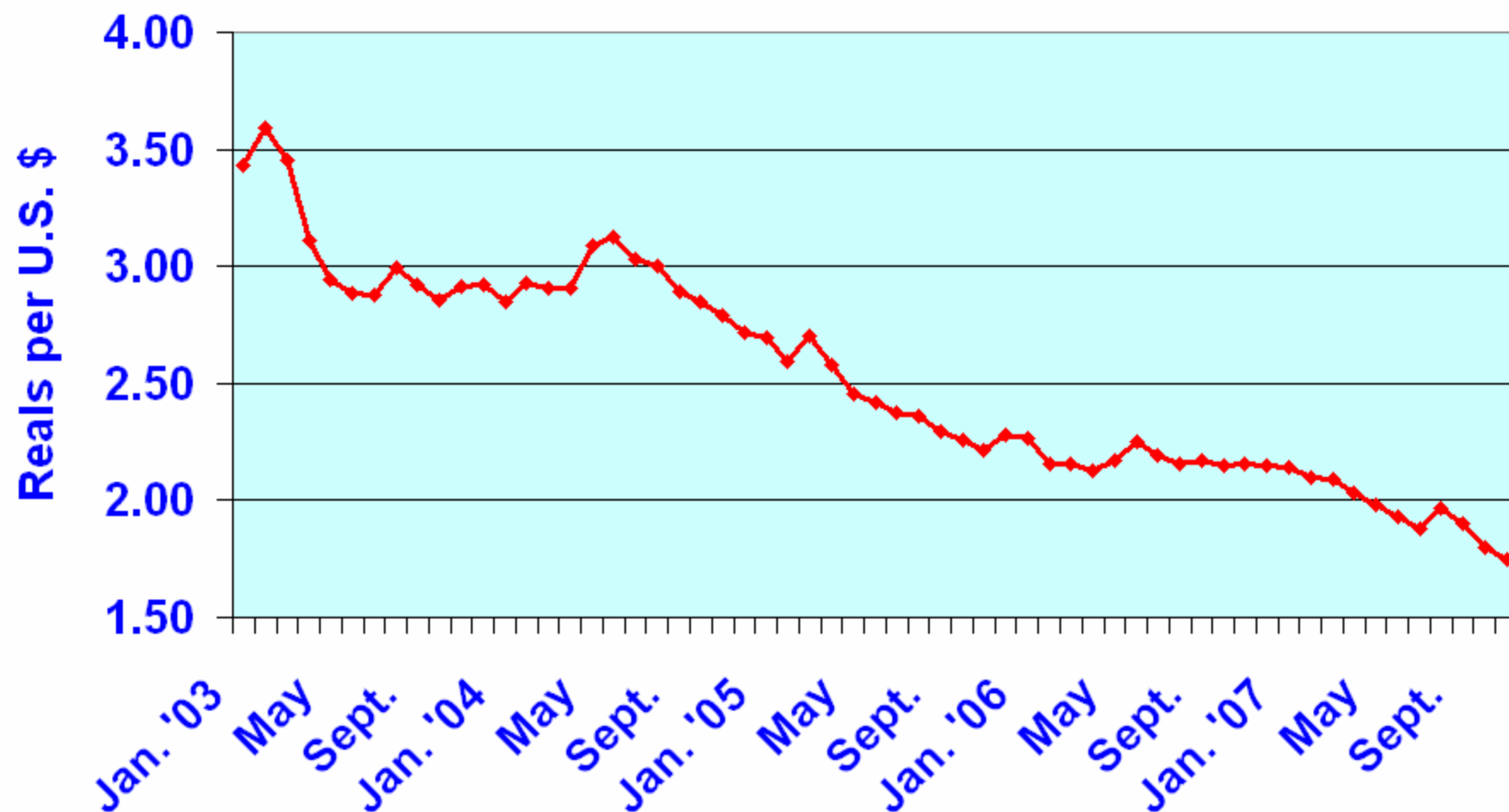
W.C. & Sw. Iowa

Basis Examples, Corn 9/28/07

	<u>Harv. Delivry</u>	<u>July Delvry</u>
Coon Rapids ethanol	<u>3.27 (-.46)</u>	<u>3.74 (-.34)</u>
Denison ethanol	<u>3.51 (-.22)</u>	<u>3.84 (-.24)</u>
Creston Elevator	<u>3.30 (-.41)</u>	<u>3.78 (-.28)</u>
Corning ethanol plant	<u>3.32 (-.41)</u>	<u>3.85 (-.23)</u>
Bunge, Council Bluffs	<u>3.29 (-.44) est.</u>	<u>3.75 (-.33)</u>
Onawa	<u>3.43 (-.35)</u>	<u>N.A.</u>
Lamoni	<u>3.18 (-.53)</u>	<u>N.A.</u>
Shenandoah eth. plant	<u>3.49 (-.24)</u>	<u>3.95 (-.13)</u>
Range	<u>.33</u>	<u>.21</u>

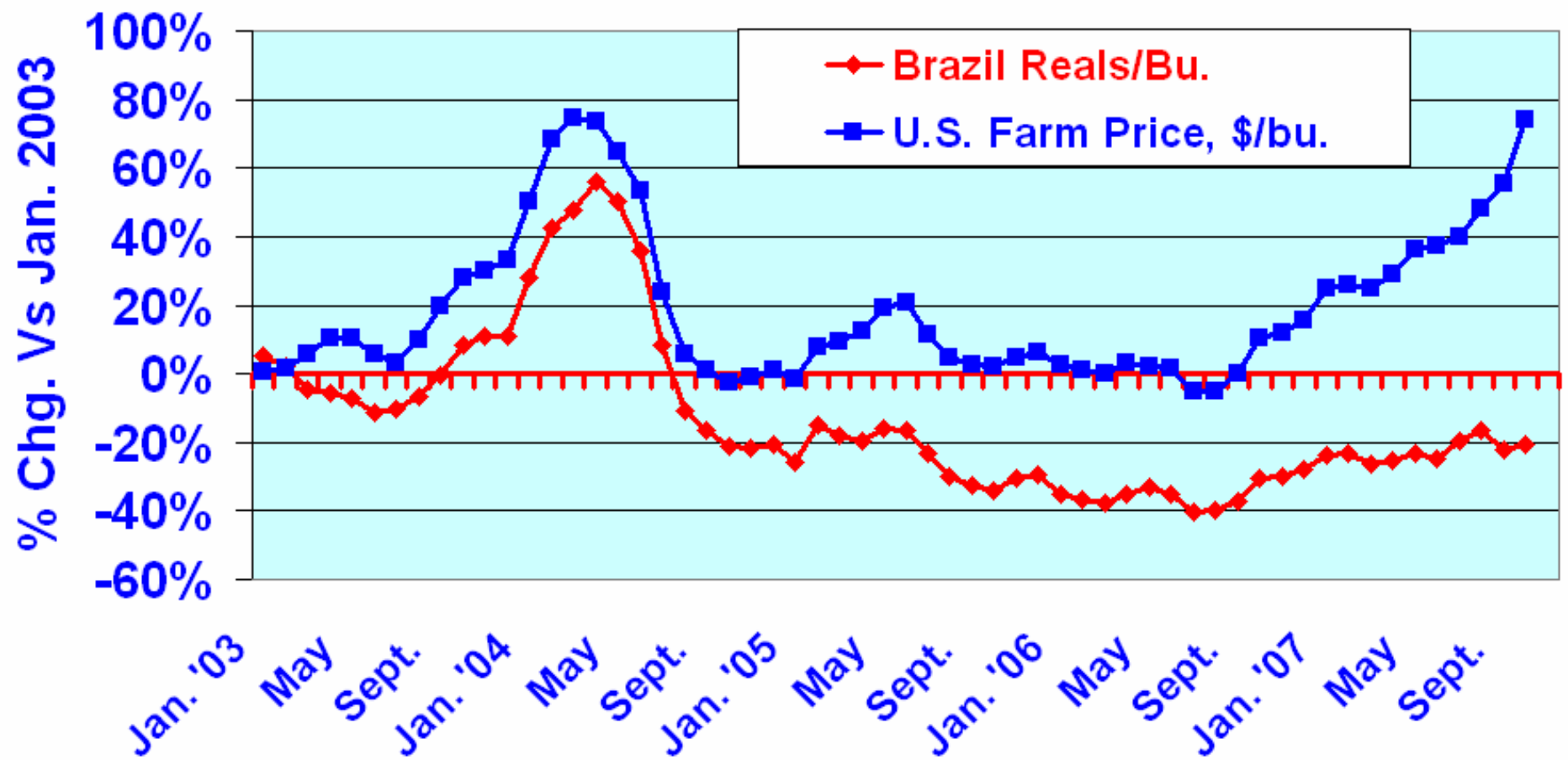
Aug. Corn Price				
	2007	2006	Chg.	% Chg.
IL	3.16	2.15	1.01	47.0%
IN	3.27	2.08	1.19	57.2%
IA	3.26	2.04	1.22	59.8%
KS	3.26	2.23	1.03	46.2%
KY	3.35	2.37	0.98	41.4%
MI	3.30	2.05	1.25	61.0%
MN	3.09	1.93	1.16	60.1%
MO	3.29	2.21	1.08	48.9%
NE	3.26	2.08	1.18	56.7%
NC	3.58	2.52	1.06	42.1%
ND	3.16	1.89	1.27	67.2%
OH	3.33	2.12	1.21	57.1%
SD	3.23	2.00	1.23	61.5%
Tenn	3.27	2.42	0.85	35.1%

Brazil Exchange Rate, Reals per U.S. Dollar

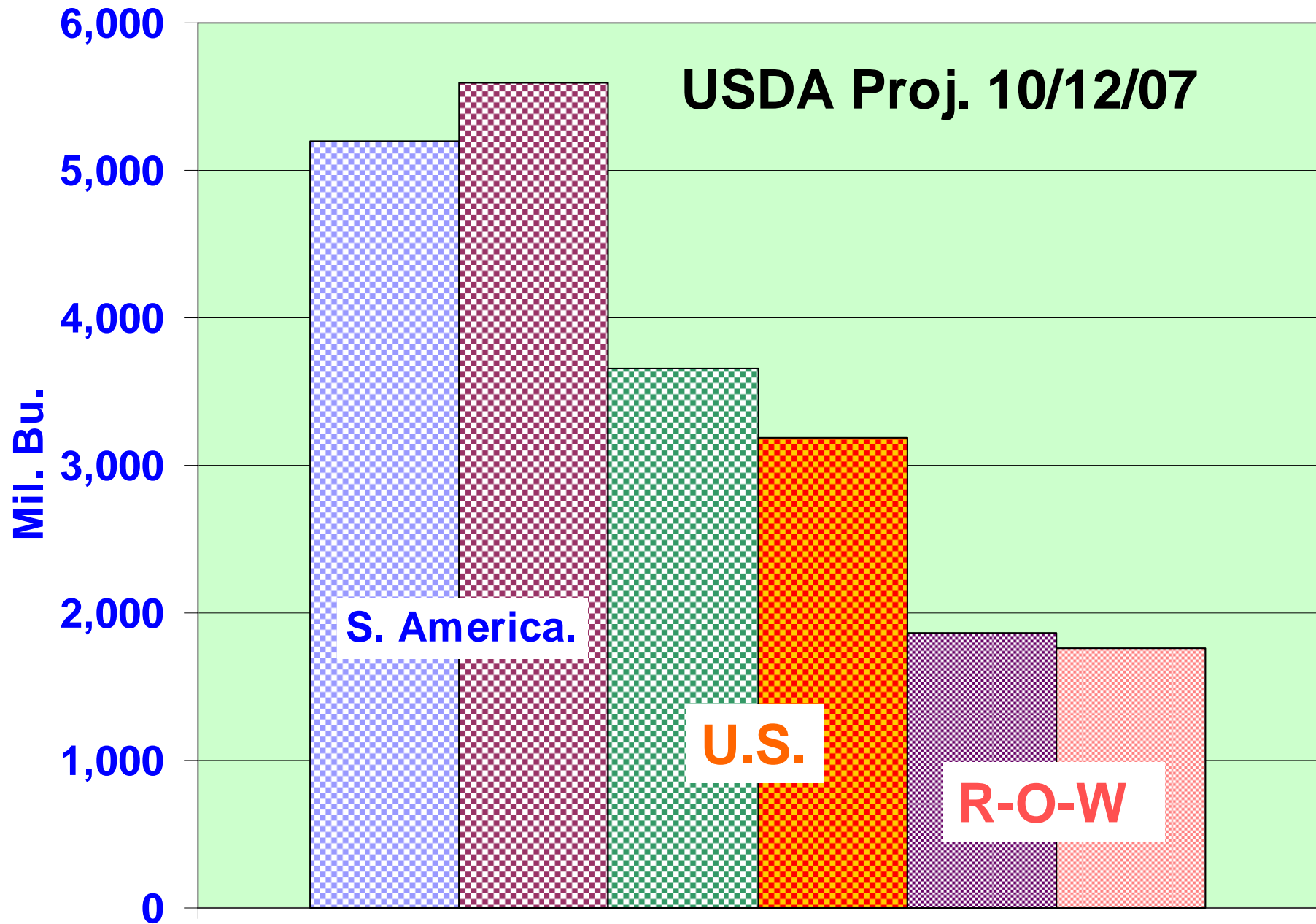


Soybean Prices in Brazilian Reals & U.S. Dollars, Percent Change vs. January 2003

Through Mid-Nov. 07

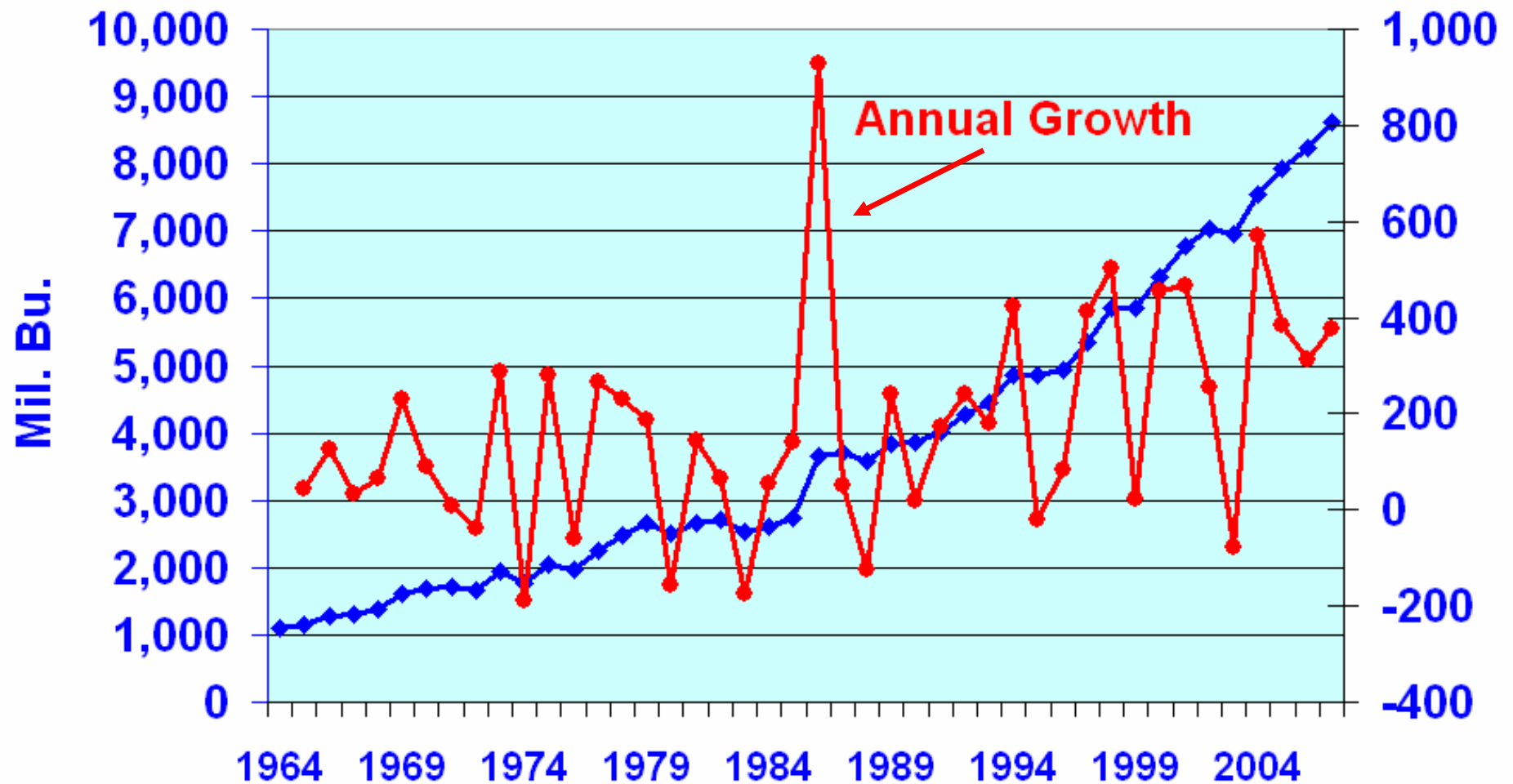


S. America, U.S. & Rest of World Soybean Supplies



World Soybean Utilization

Mil. Bu. Annual Growth



11/15/07	Soybean Balance Sheet, Mil. Bu. R. Wisner, ISU Econ.												
			2004-05	2005-06	2006-07	Projected 2007-08		Projected 2008-09			Projected 2009-10		
Supplies:						A	USDA-Crop	A	B	C	A	B	C
Plant. A(mil.)			75.2	72.0	75.5	63.7	63.7	69.5	69.5	69.5	64.5	64.5	64.5
Harv.A.(mil)			74.0	71.3	74.6	62.7	62.7	68.2	68.6	68.8	63.2	63.6	63.8
Bu./A.			42.2	43.0	42.7	39.5	41.4	39.0	42.5	43.5	39.0	43.2	44
Production			3,124	3,063	3,188	2,477	2,594	2,659	2,914	2,992	2,466	2,749	2,808
Carryover			112	256.0	449	573	573	196	196	196	215	215	215
Total Supply			3,242	3,322	3,646	3,062	3,174	2,859	3,115	3,192	2,686	2,969	3,028
Crush			1,696	1,739	1805	1,770	1,825	1,750	1,815	1,820	1,670	1,790	1,800
Seed & Residual			192	188	153	175	163	180	175	175	185	180	180
Exports			1,097	947	1115	970	990	760	910	975	650	800	825
Total Utilization			2,986	2,873	3,073	2,915	2,978	2,690	2,900	2,970	2,505	2,770	2,805
Carryover			256	449	573	147	196	169	215	222	181	199	223
Weeks carryover supply			4.5	8.1	9.7	2.6	3.4	3.3	3.9	3.9	3.8	3.7	4.1
U.S. FARM PRICE			\$5.74	\$5.66	\$6.40	\$9.55	8.95	\$10.85	8.65	8.40	\$9.85	8.80	8.70
IOWA AVE. PRICE, \$/Bu.			5.64	5.60	6.35	9.50	8.90	10.80	8.60	8.35	9.80	8.75	8.65
Counter-Cyclical Pmt.			0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HARV. PRICE, C.IA			4.70	5.15	\$5.45	8.45	8.45	10.60	8.45	8.15	9.65	8.55	8.45
NOV. FUT. @ HARV.			\$5.15	\$5.70	\$6.05	\$9.45	\$9.45	\$11.05	\$9.05	\$8.85	\$10.10	\$9.10	\$9.00
Historical Probability								18%	65%	17%	18%	65%	17%
MEAL DECATUR, \$/T 48%			\$184	\$175	205	\$284	\$286	\$322	\$260	\$239	\$279	\$267	\$250
SOY OIL, DECATUR, cts./Lb.			23.0	23.8	31.0	42.0	36.5	46.5	37.5	36.5	45.0	37.5	37.0
Soybean/Corn Price ratio			2.79	2.83	2.11	2.55	2.52	2.58	2.40	2.43	2.21	2.48	2.60

MINIMUM SOYOIL PRICE FOR BIODIESEL BREAK EVEN at GIVEN WORLD CRUDE OIL PRICE

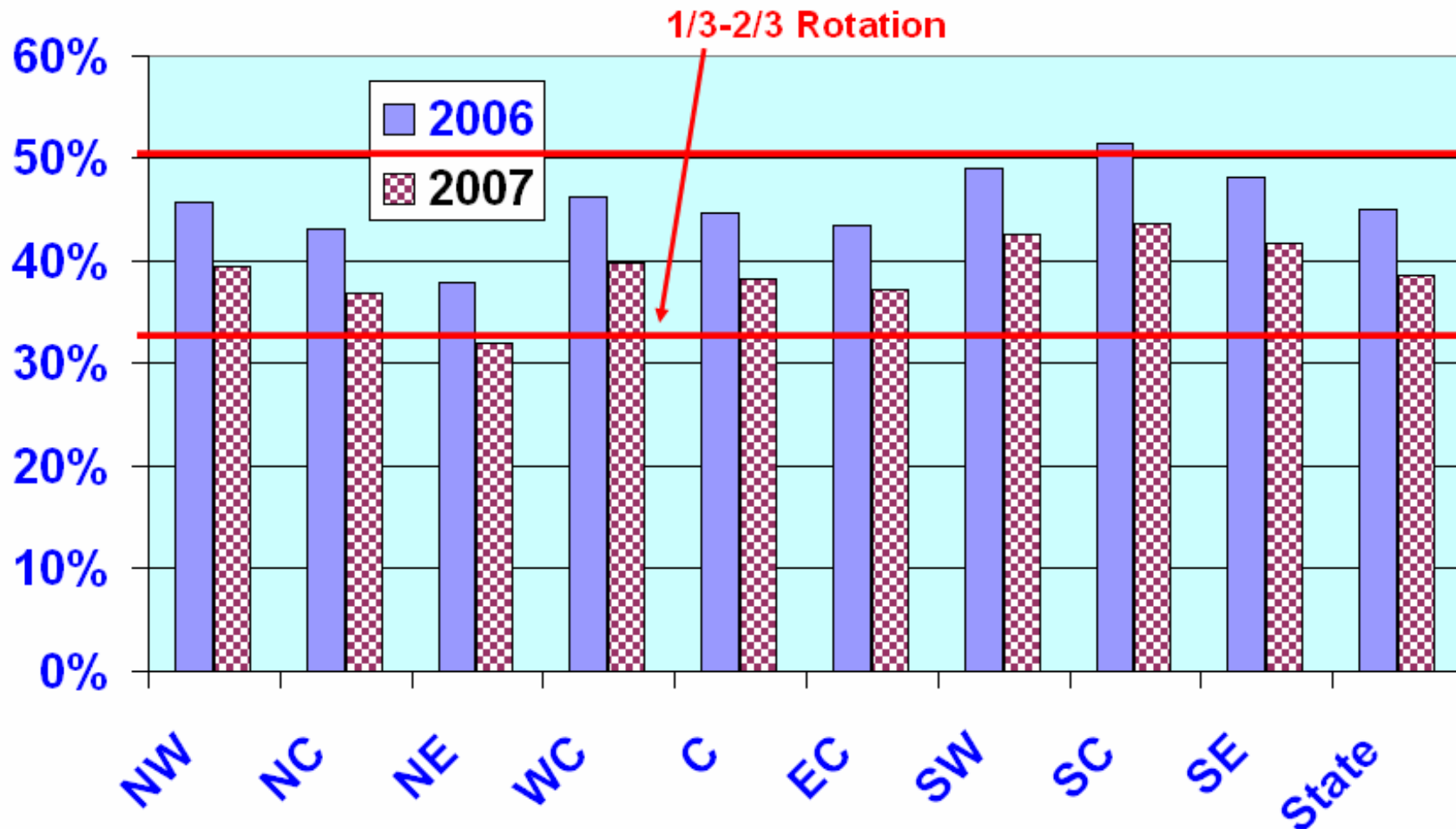
PRX_C_US_BA, GTB-06-03, Mar-14-06

		Crude Oil Price, \$/bbl								
		\$30.00	\$35.00	\$40.00	\$45.00	\$50.00	\$55.00	\$60.00	\$65.00	\$70.00
Add biodiesel		Profitability of Biodiesel at given crude oil and soyoil prices, %\$/lb								
Soybean	\$0.19	(\$0.10)	\$0.02	\$0.14	\$0.25	\$0.37	\$0.49	\$0.61	\$0.73	\$0.85
Oil Price	\$0.20	(\$0.18)	(\$0.06)	\$0.06	\$0.18	\$0.30	\$0.42	\$0.54	\$0.66	\$0.78
\$/lb	\$0.21	(\$0.25)	(\$0.13)	(\$0.01)	\$0.11	\$0.23	\$0.35	\$0.47	\$0.58	\$0.70
	\$0.22	(\$0.32)	(\$0.20)	(\$0.08)	\$0.04	\$0.15	\$0.27	\$0.39	\$0.51	\$0.63
	\$0.23	(\$0.39)	(\$0.28)	(\$0.16)	(\$0.04)	\$0.08	\$0.20	\$0.32	\$0.44	\$0.56
	\$0.24	(\$0.47)	(\$0.35)	(\$0.23)	(\$0.11)	\$0.01	\$0.13	\$0.25	\$0.37	\$0.48
	\$0.25	(\$0.54)	(\$0.42)	(\$0.30)	(\$0.18)	(\$0.06)	\$0.05	\$0.17	\$0.29	\$0.41
	\$0.26	(\$0.61)	(\$0.49)	(\$0.38)	(\$0.26)	(\$0.14)	(\$0.02)	\$0.10	\$0.22	\$0.34
	\$0.27	(\$0.69)	(\$0.57)	(\$0.45)	(\$0.33)	(\$0.21)	(\$0.09)	\$0.03	\$0.15	\$0.27
	\$0.28	(\$0.76)	(\$0.64)	(\$0.52)	(\$0.40)	(\$0.28)	(\$0.16)	(\$0.05)	\$0.07	\$0.19
	\$0.29	(\$0.83)	(\$0.71)	(\$0.59)	(\$0.48)	(\$0.36)	(\$0.24)	(\$0.12)	\$0.00	\$0.12
	\$0.30	(\$0.91)	(\$0.79)	(\$0.67)	(\$0.55)	(\$0.43)	(\$0.31)	(\$0.19)	(\$0.07)	\$0.05
	\$0.31	(\$0.98)	(\$0.86)	(\$0.74)	(\$0.62)	(\$0.50)	(\$0.38)	(\$0.26)	(\$0.15)	(\$0.03)

For Blue Sky Scenario, PRX adopts a crude oil price of \$50/bbl and thus a minimum 24 cent/lb soyoil price, to evaluate impact of subsidized biodiesel market.



Figure 3. Iowa Soybean Acres as a % of Row-Crop Acres harvested for Grain, 2006 & 2007

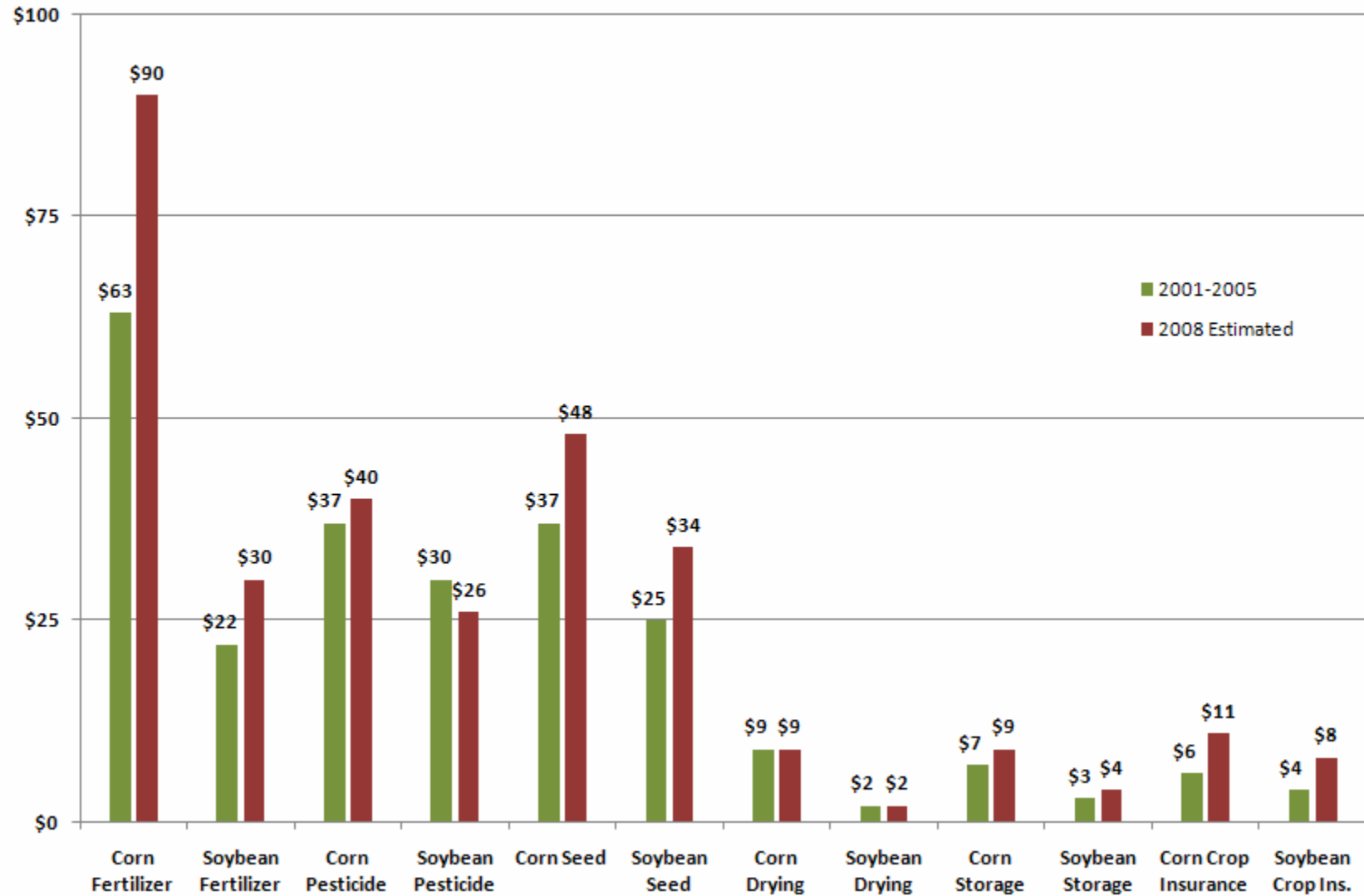


Soybean Basis – Lost Cause?

- Iowa basis -\$1.00 to -\$1.25 vs. near-by futures this summer
- *CBOT says speculative trading has overwhelmed the delivery mechanism*
- Delivery area: Illinois River to St. Louis (actually larger than corn)
- Mechanism: shipping certificates
- Expect basis to be substantially stronger in spring, summer, 2008 – but no guarantees
- *SB geographic basis likely to follow corn*

Direct Cost of Crop Production (\$/A)

Historical vs. 2008 Estimate



Source: U of IL Extension Economics, July 2007.

The Margins

	CORN			SOYBEANS	
	2007 \$3.10bu	2008* \$3.35/bu		2007 \$6.40/bu	2008* \$8.60/bu
Yield bu/a	180	180		55	55
Income	\$558.00	\$603.00		\$352.00	\$473.00
Variable Cost	204.97	249.13		113.00	132.54
Fixed Cost	48.20	55.94		21.73	22.63
Labor	28.60	28.60		26.95	26.95
Land	180.00	225.00		180.00	225.00
Total Cost	461.77	558.67		341.68	407.12
Margin/acre	\$96.23	\$44.33		\$10.32	\$65.88
Margin/Bu.	\$0.53	\$0.25		\$0.19	\$1.20

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Take-Home Points: Corn & SB

- Biofuels expansion slowing, but still significant
- Watch export sales: repeat of '95-96?
- *More soybeans, wheat (cotton?) likely to reduce corn acres in 2008*
- Acreage battle likely to intensify in 2009 & 2010
- Higher govt. biofuels mandate key to ethanol infrastructure capacity
- Much more Iowa corn needed in 3-5 years

Take-Home Points: Corn & SB II

- Forward contracts & HTAs offer above-normal storage profit potential -- for corn
- Corn & SB basis likely stronger in spring.
Strongest basis: @ ethanol plants, feed mills
- Options look expensive, may be better alternative in spring
- *Be prepared for bean market to bring sharp increase in 2008 acres, downward trend in bean prices in fall of '08*
- Corn prices, late summer '08 to depend on improvements in ethanol infrastructure, Govt. biofuels mandate, & blending credit

*Thank You.
Questions?*

<http://www.econ.iastate.edu/faculty/wisner/>

...and justice for all

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