

# Iowa State University Extension

A photograph of a combine harvester in a field at sunset. The harvester is in the center, moving towards the right. The field is golden-brown, and the sky is a mix of orange and yellow. The harvester has a long auger extending to the right. The overall scene is a typical agricultural landscape during harvest time.

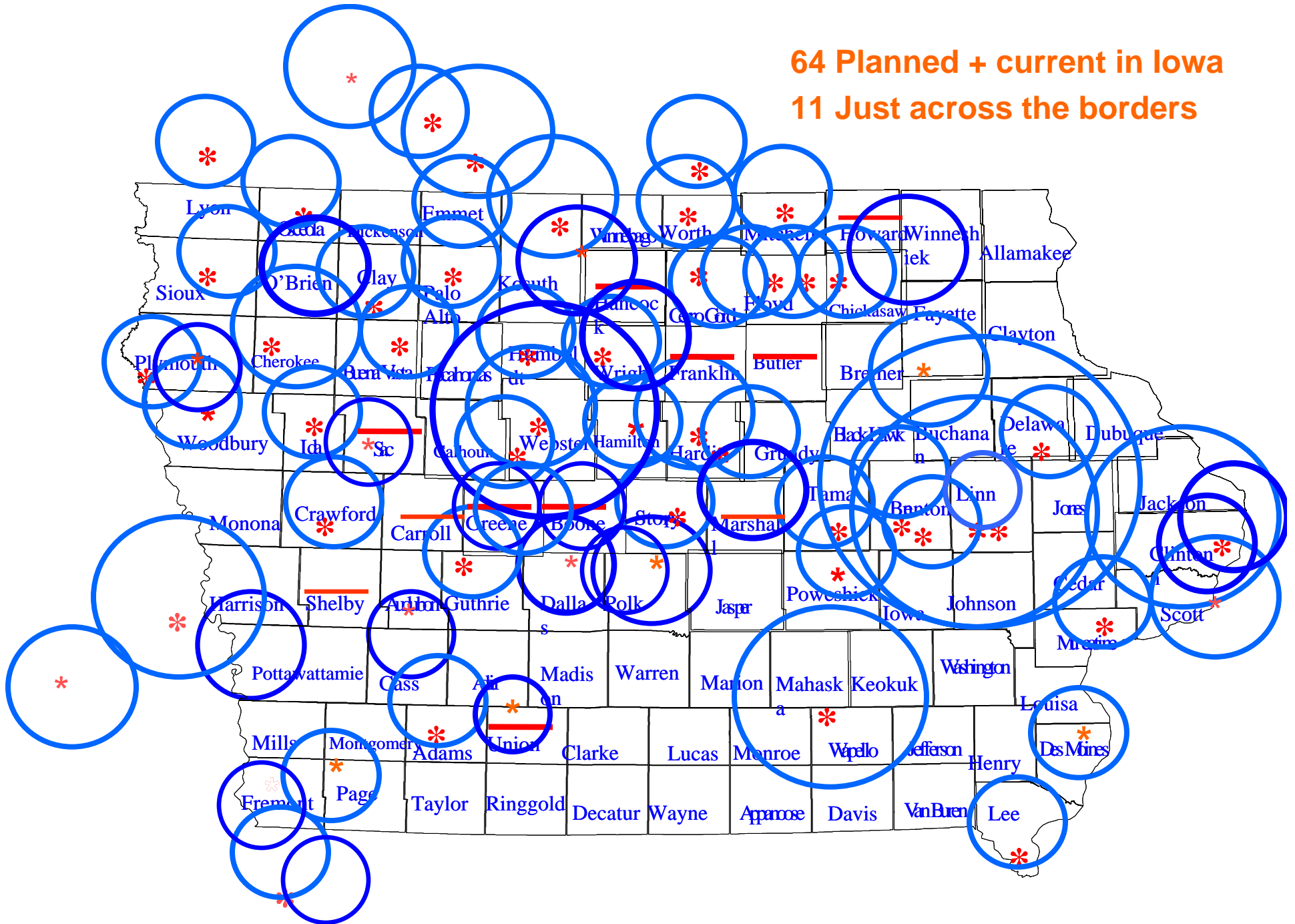
**Dr. Robert Wisner, University Professor  
& Extension Economist**

**Ethanol, Feed Grain Markets, & Longer Term  
Implications**

**8/22/06**

<b>Corn Processing Plants in and Near Iowa, 8/21/06</b>				
		<b>Est. Mil. Bu. Processing Capacity</b>		
Cedar Rapids		203	<u>Planned or under construction</u>	
Clinton		180	Albert City - C	42
W. Burlington		18	Blair, NE* - E	38
Muscatine		49	Humboldt County - P	18
Hanlontown		17	Tama - P	38
Marcus		20	Fairmont, MN (1/2 of 76 mil. Bu.)* C	38
Lakota (current cap. 20 mil. Bu)		40	Goldfield - C	19
Ashton		18	Faribank - C	38
Hopkinton (Uses sugar & strach)		0	Revived Blirstown - C	2
Sioux Center		8	Charles City - P	57
Coon Rapids		36	Shenandoah - C	18
Blair, NE*		32	Superior - P	18
Albert Lea, MN*		15	New Hampton - P	18
Luvurne, MN*		8	ADM Expansion (cedar rapids & clinton)	190
Keokuck		47	Marshalltown - P	38
Eddyville		76	Staceyville - P	38
Iowa Falls		40	Akron - P	38
Galva		10	Spencer - P	38
Steamboat Rock		8	Marcus expansion - E	18
Emmetsburg		19	Corning (may go to 38 mil. Bu.) - P	23
Denison		19	Grinnell - P	38
Ft. Dodge		42	Quad Cities - Galva, IL 1/2 of 38- P	19
Mason City		15	Creston - P	18
Jewell		24	Burlington expansion E	36
Gowrie		22	Council Bluffs - P	42
Nevada		19	Atlantic - P	19
			Des Moines P	38
*Reflects estimated corn drawn from Iowa supplies. The amount is excluded from totals.			Dexter - P	38
			Buffalo - P	38
			Hinton - P	38
			Ft. Dodge new plant - P	110
			Salix P	19
			Winnesheik county - P	38
P = Proposed, C = Under Construction, E= Expansion of existing plant			Wesley - P	37
			Belmond - P	38
			Merrill - P	18
			Hartly - P	40
			Boone - P	36
			Odebolt	45
			Green County - P	70
			W. Des Moines - P	36
<b>Sub-total</b>		<b>930</b>	<b>Sub-total</b>	<b>1,443</b>

64 Planned + current in Iowa  
11 Just across the borders

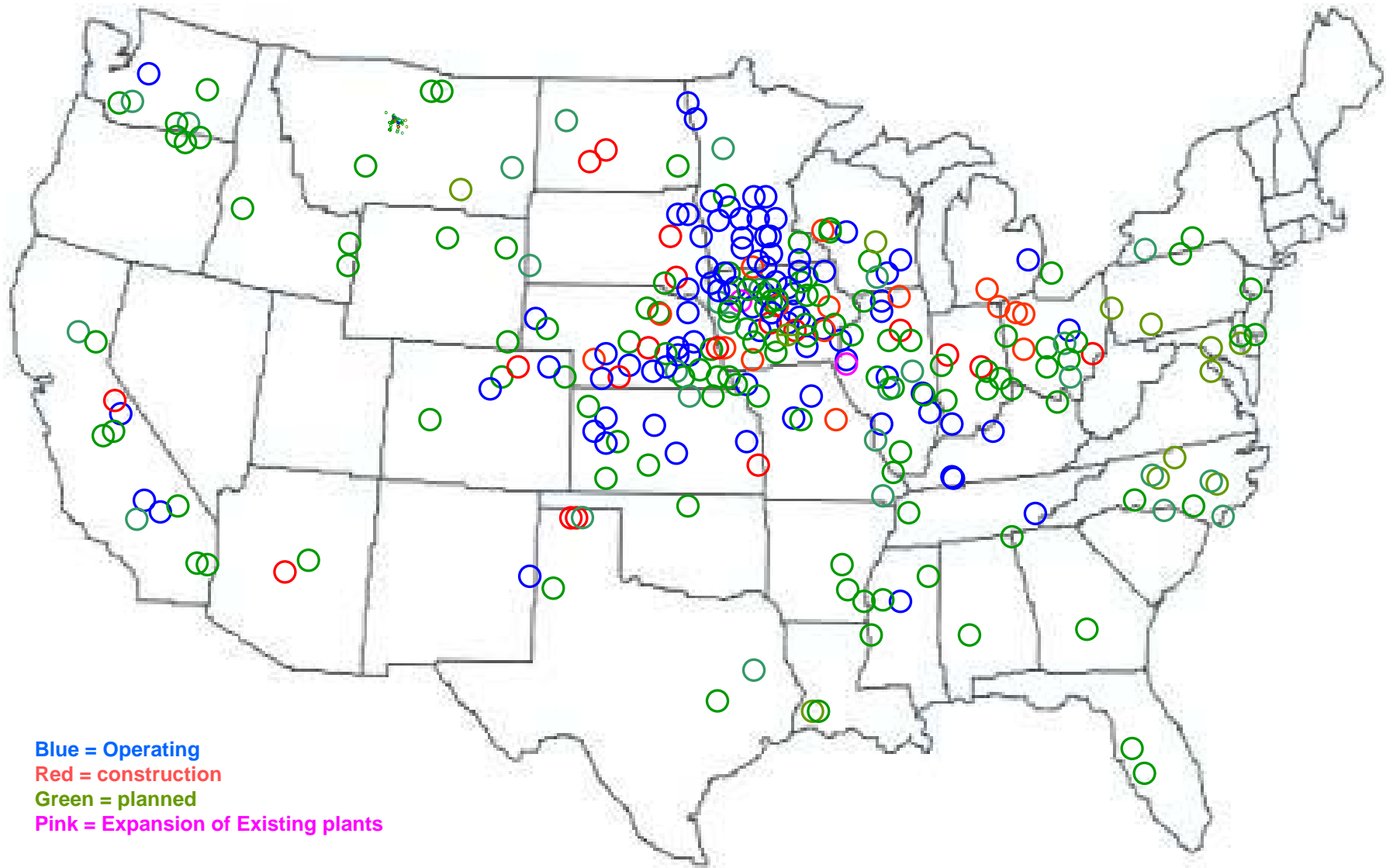


Iowa Corn Processing & Ethanol Plant Locations, Actual & Planned, 8/25/06

## Iowa Corn Production, Use & Excess for Export out of State, Mil. Bu.

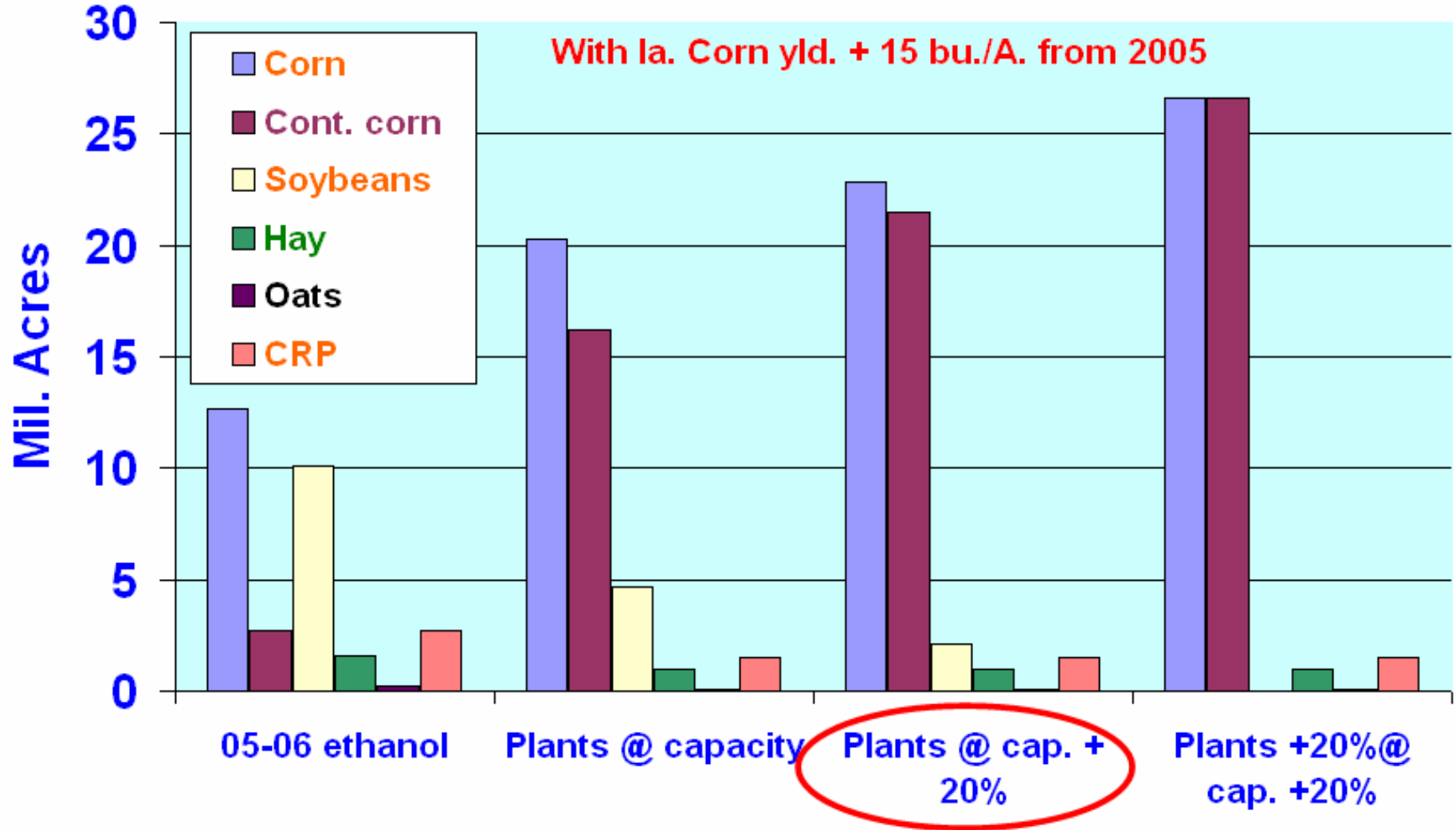
8/24/06	2005-06 06/06 processing Capacity	Current & Planned plants @ rated capacity	Current & Planned plants @ 120% capacity	Current & planned plants + 25% More @ 120% capacity
2005 corn crop	2,163	2,163	2,163	2,163
Less feed use	700	700	700	700
Less processing	930	2,373	2,848	3,560
Plus corn replaced by DGS	45	45	45	45
<b>Avail. For Export</b>	<b>578</b>	<b>-865</b>	<b>-1,340</b>	<b>-2,052</b>
2006 Mil. Harv. Acres	<b>12.4</b>			
Yield, 2005, Bu./A.	<b>173</b>			
2005 Trend Yield, Bu./A.	<b>159</b>			
2009 Trend Yld., Bu./A.	<b>167</b>			
Yield needed to maintain exports (@ '05 A.)		<b>290.8</b>	<b>329.1</b>	<b>386.5</b>
Acresage needed @ 2005 yield		<b>20.8</b>	<b>23.6</b>	<b>27.7</b>
Acresage needed @ 2009 trend yield		<b>21.6</b>	<b>24.4</b>	<b>28.7</b>
Acresage needed @ 2005 yield+15 bu./A.		<b>20.3</b>	<b>22.8</b>	<b>26.6</b>

# Existing & Planned U.S. Corn Processing Plants



8/24/06

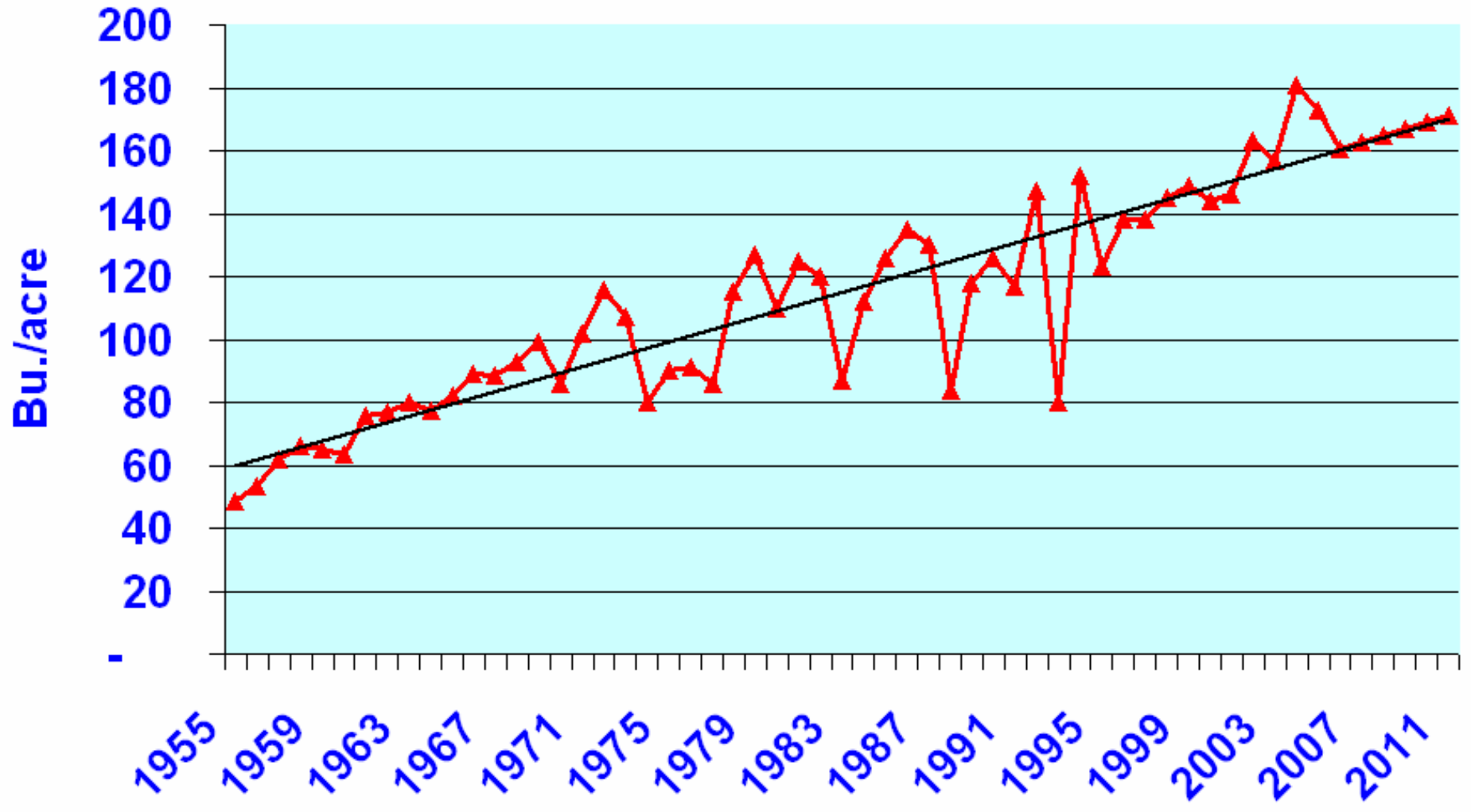
# Iowa Current & Potential 2012 Crop Acreages



Needed Yld. @ current Acres

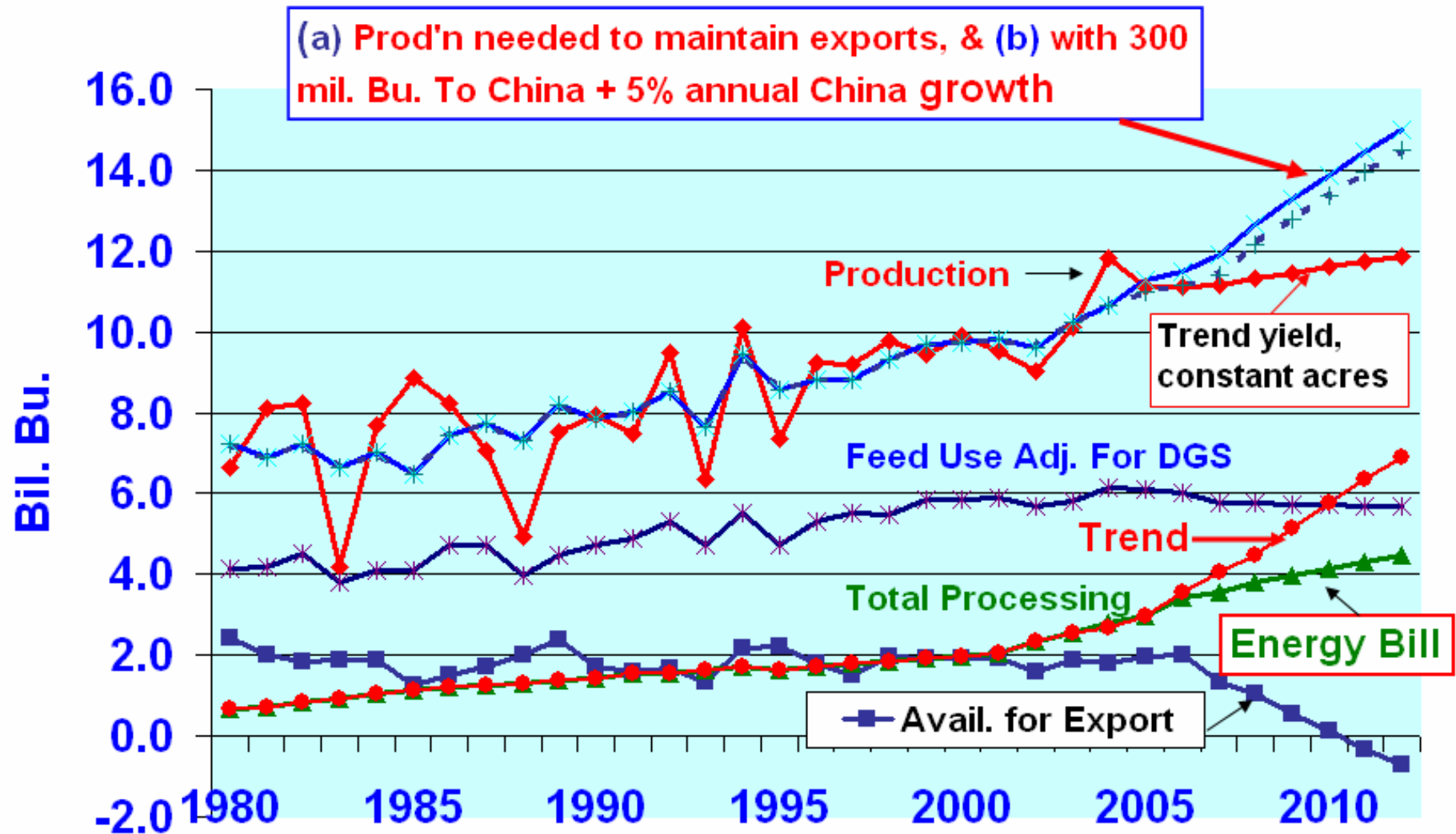


# Iowa Corn Yield Per Acre

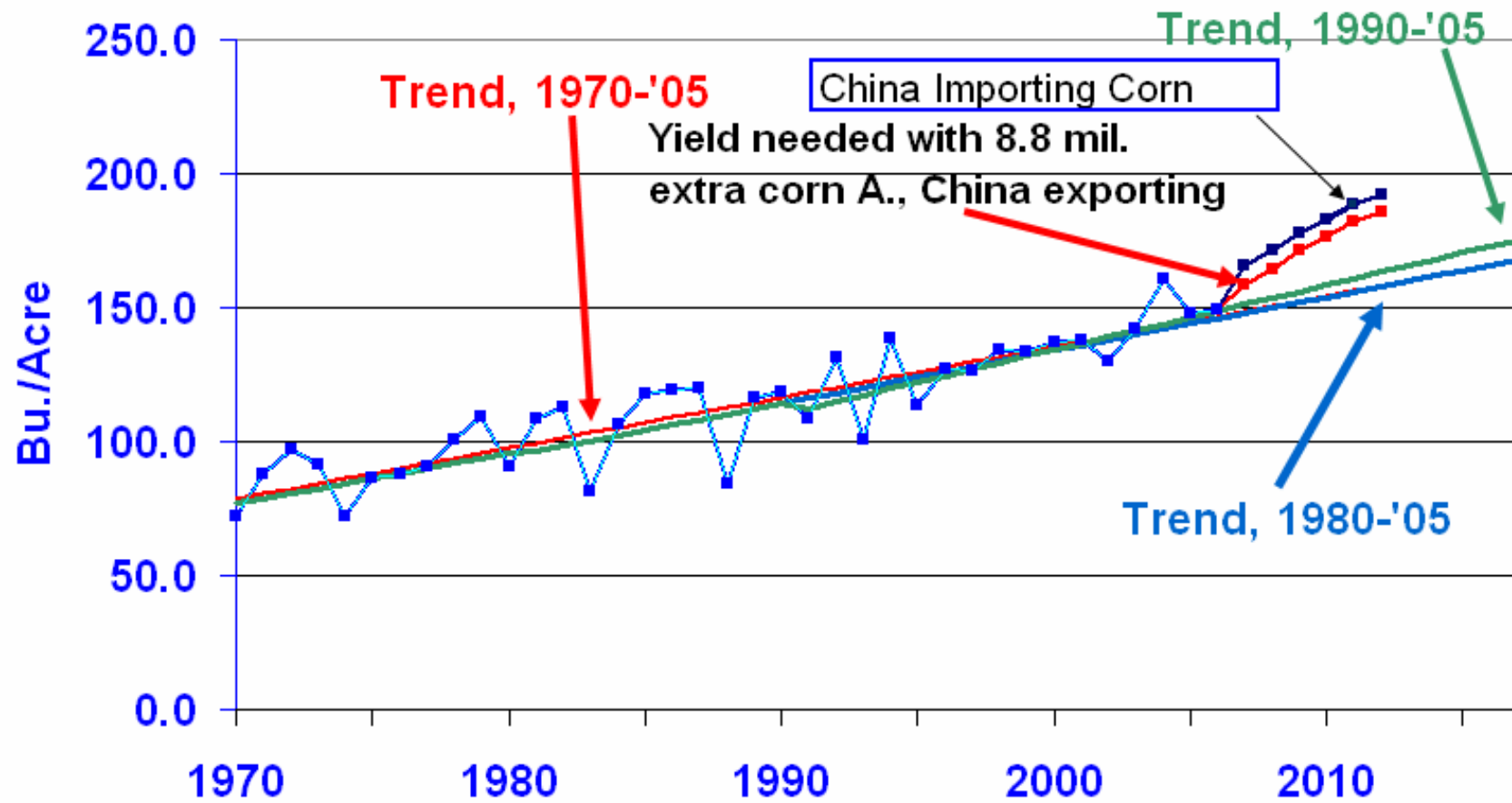


# Figure 1. U.S. Corn Production, Domestic Use, & Availability for Exports--Proj. to 2012

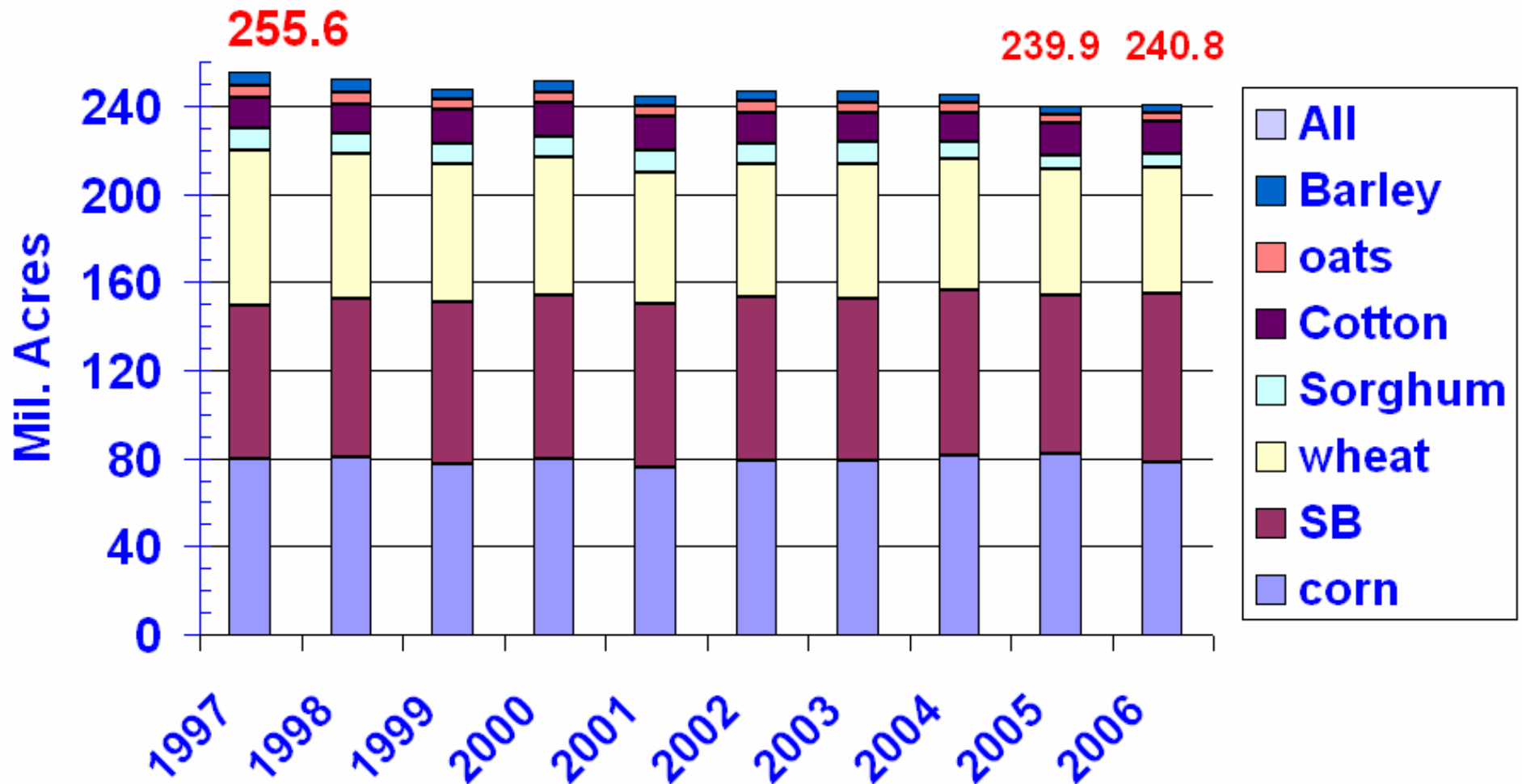
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**Figure 2. US CORN YIELD 1970-2005 & Projected to 2012**

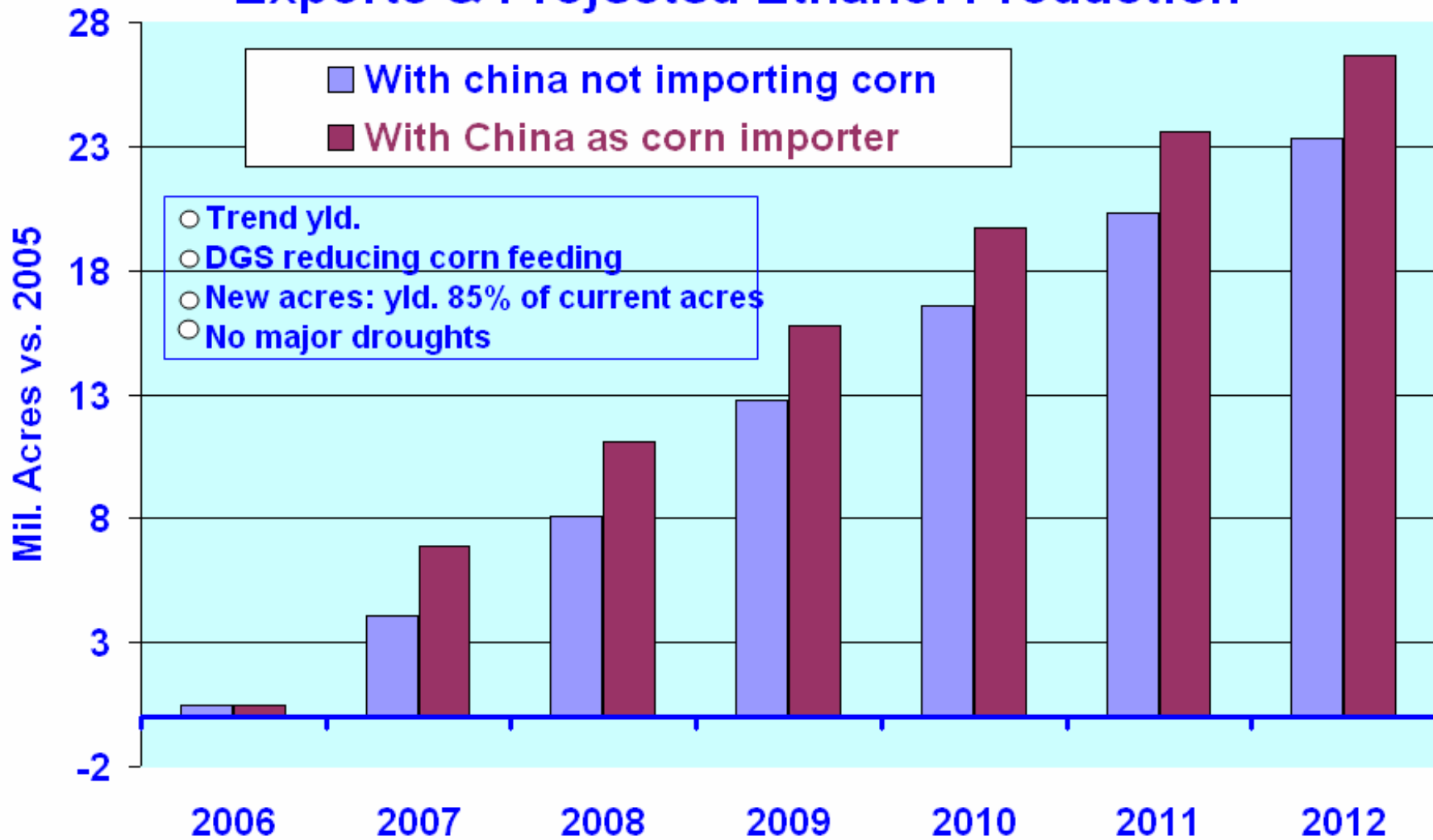


### Figure 3. U.S. Planted Acreage of Major Grains, Oilseeds, and Cotton

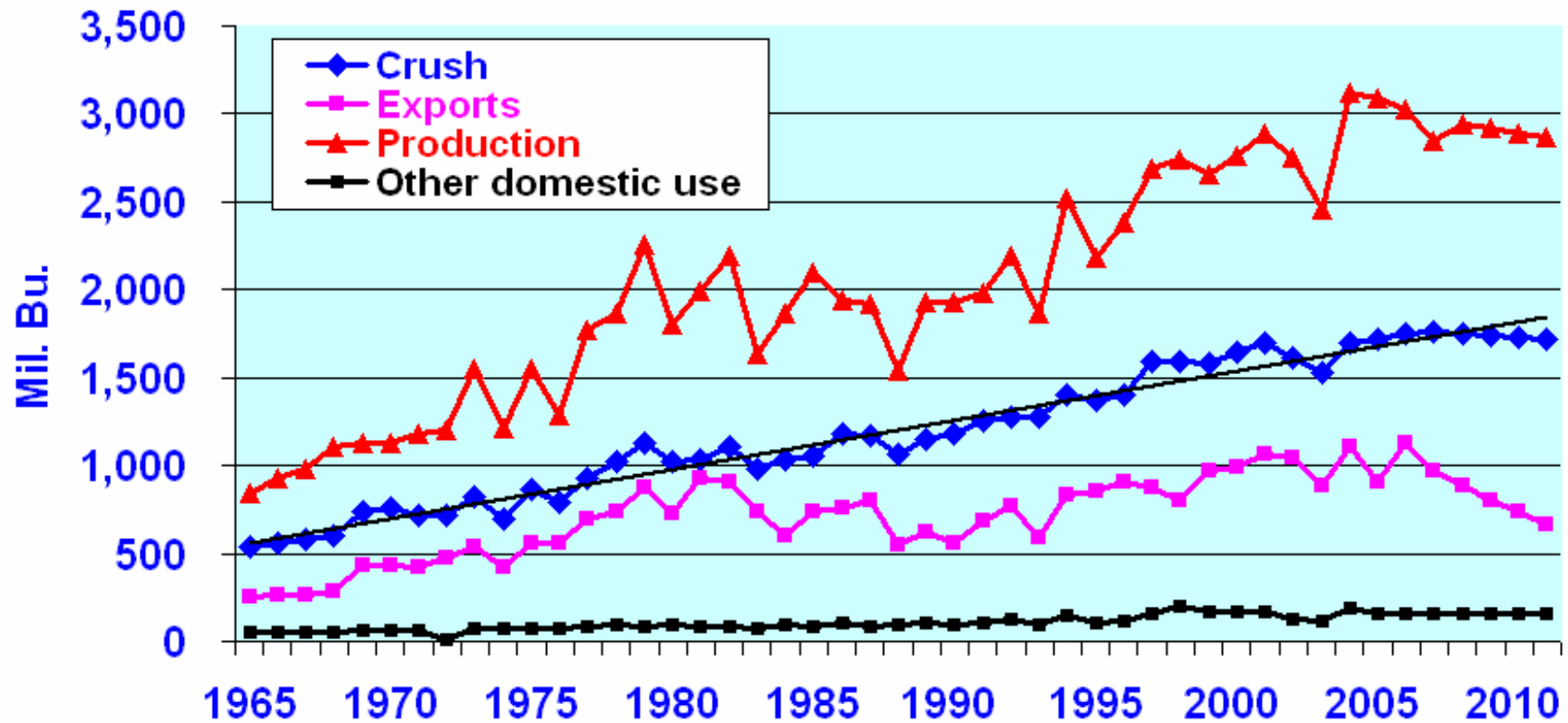


Source of data: USDA, NASS

## Extra U.S. Corn Acres Needed to Maintain Exports & Projected Ethanol Production



## *U.S. Soybean Production, Domestic Use, and Exports, 1965-2006 & Potential to 2010 With Increased Corn Plantings*



**Assumes trend yields. Increased DGS Prod'n im 2010-11 replaces soybean meal from about 280 mil. bu. of soybeans**

# What Could Change These Prospects?

- Accelerated corn yield increases
- Slowdown in ethanol expansion -- oil price collapse
- Break-through in economical biomass conversion
- Ethanol import tax removed – longer term impacts
- Declining livestock feeding