

Increased Corn Yields: Creating Surplus or Ethanol?

Fuel Ethanol Workshop

June 14-16, 2010

Updated for IGQI July 9, 2010

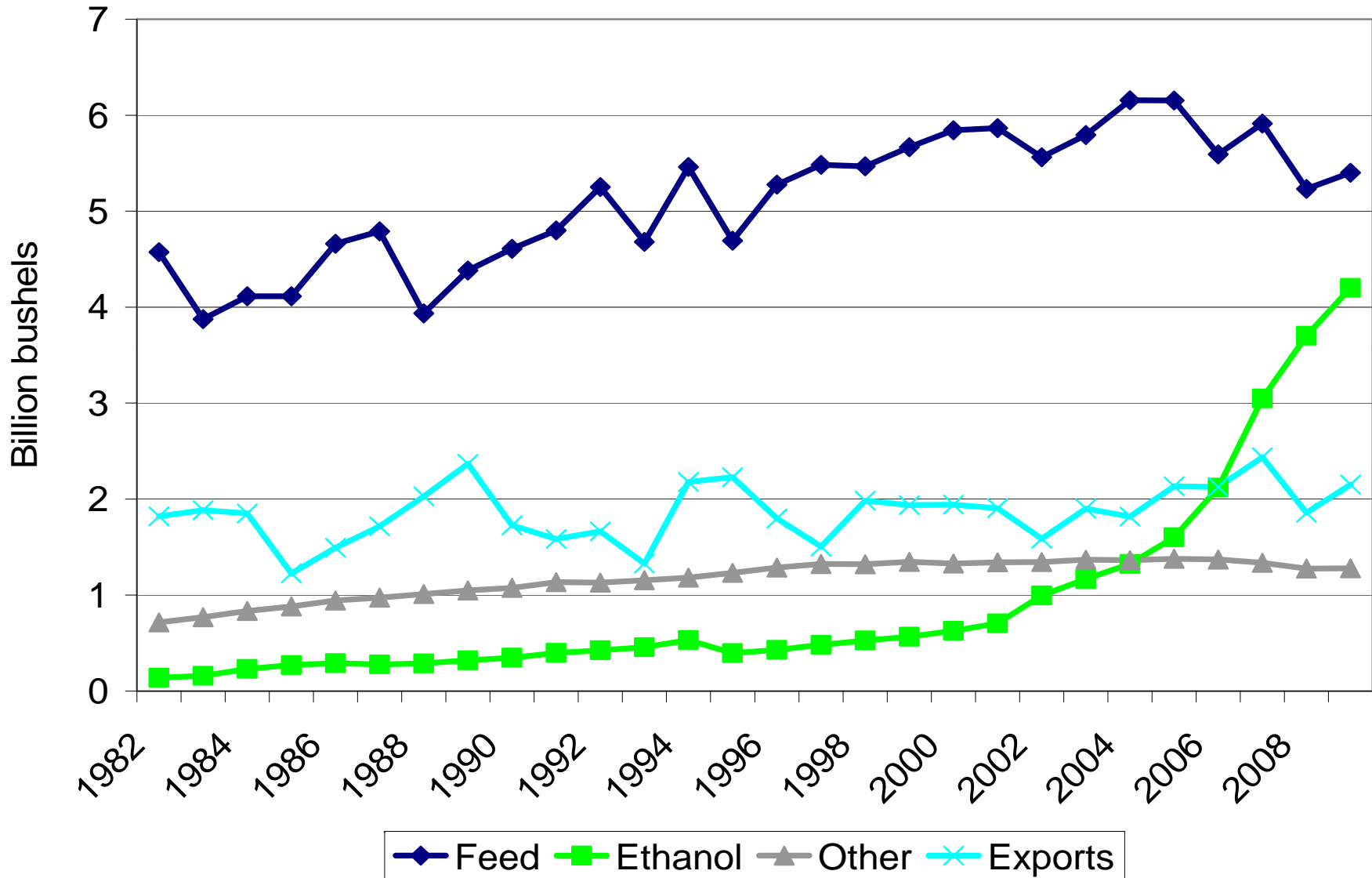
Charles Hurburgh, Iowa Grain Quality Initiative

Connie L. Hardy, Extension Specialist

Chad Hart, Extension Grain Economist



Corn Use

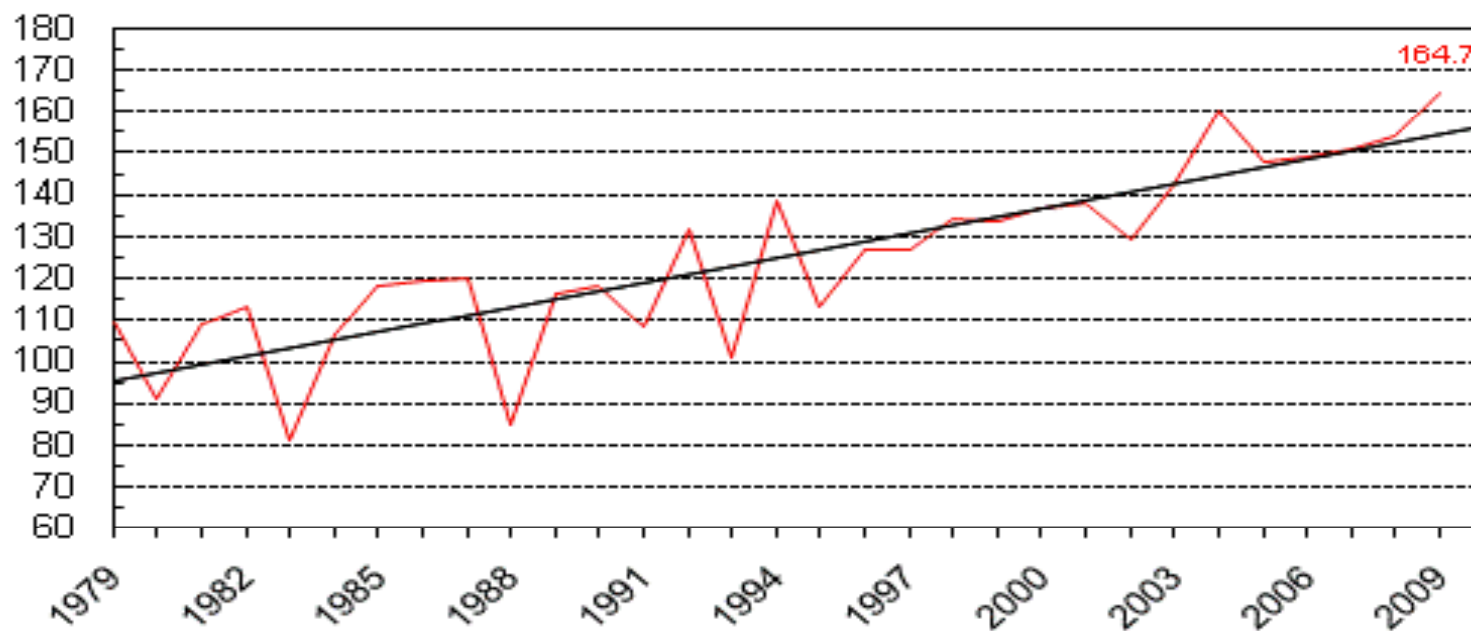




U.S. Corn Yield



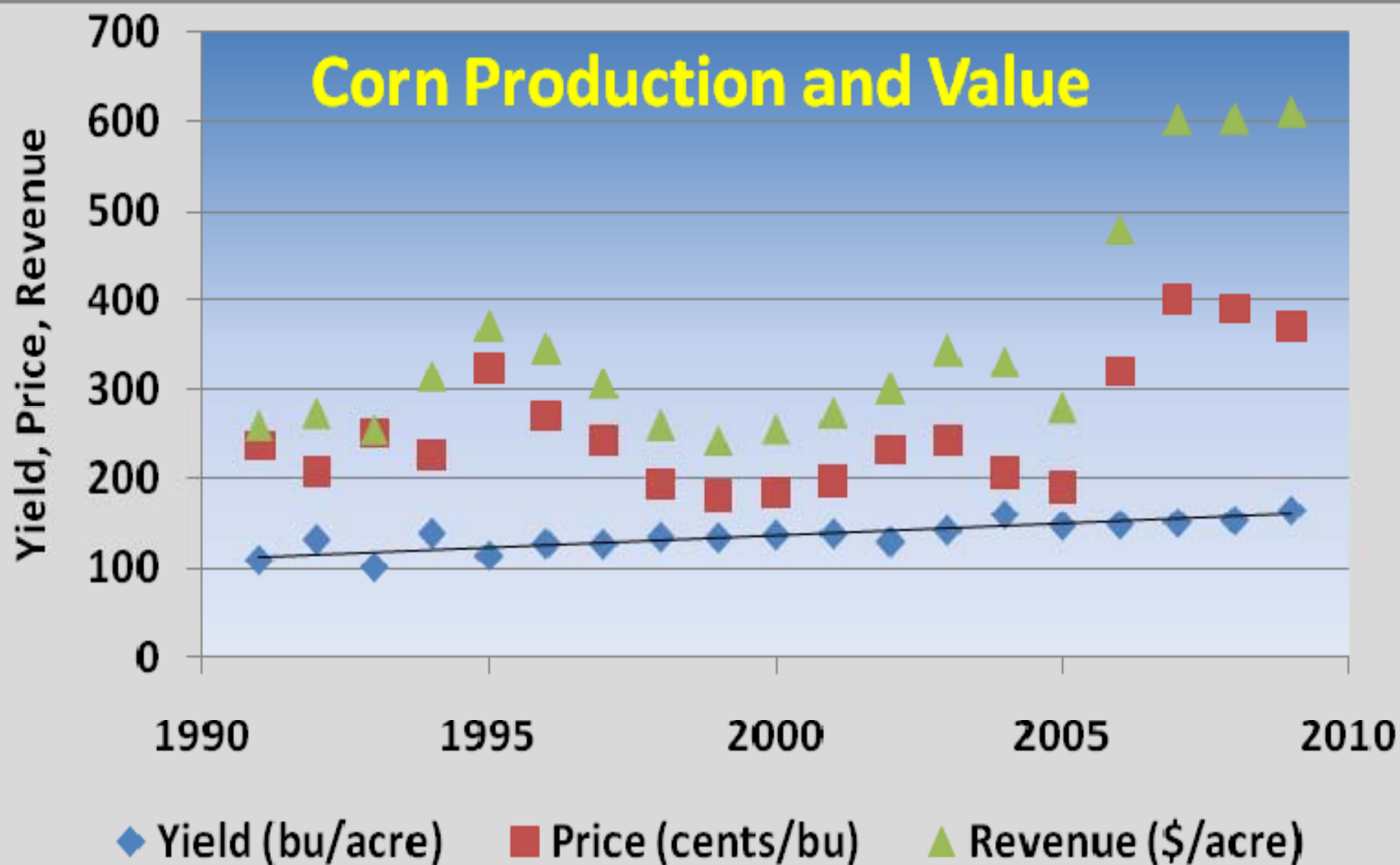
Bushels/Acre



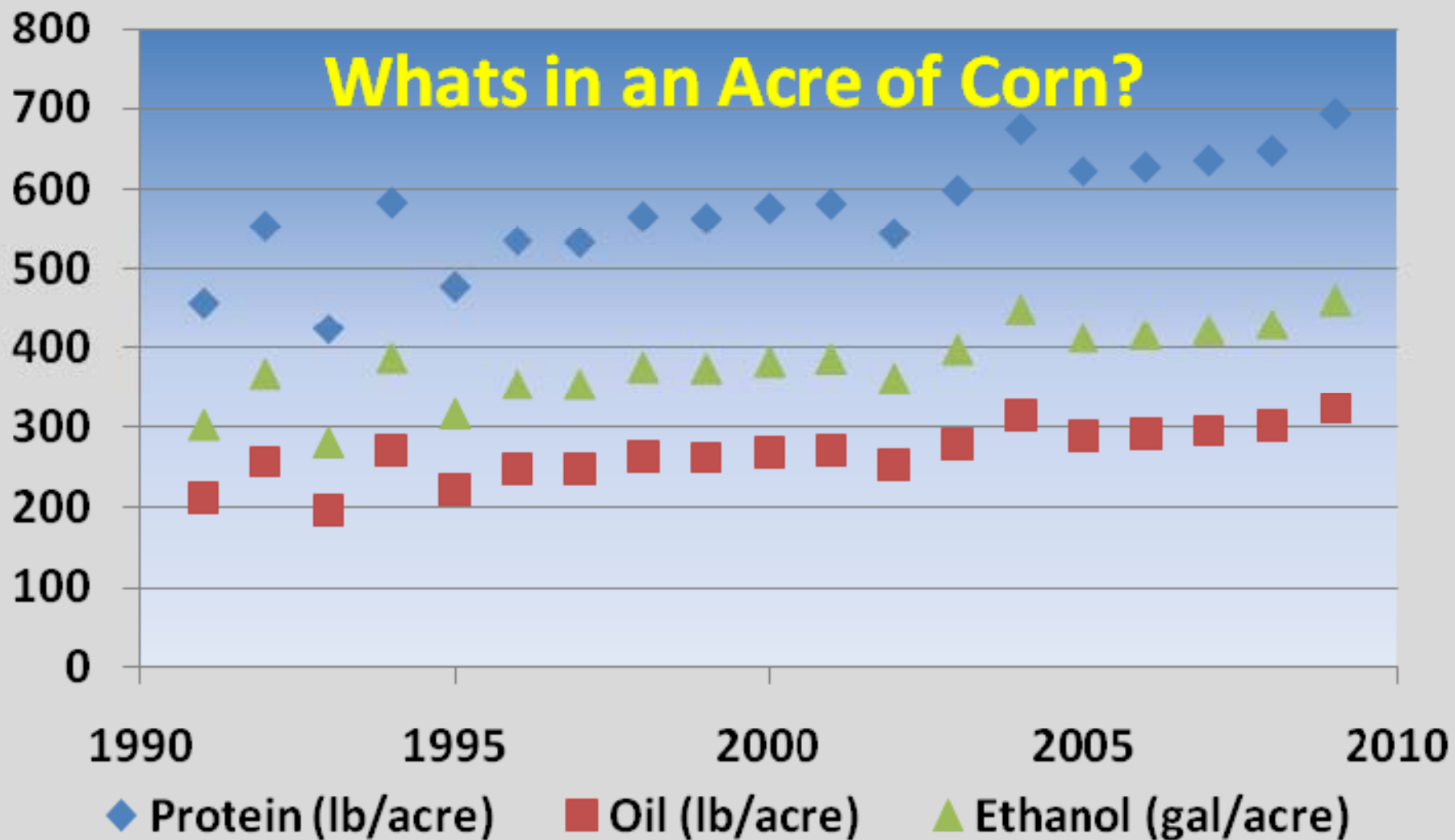
USDA NASS
5-11-10

**Overall = 2.1 bu/a/yr; Last 10= 3.5 bu/a/yr; Seed industry = 4-6 bu/a/yr (forward)
~400-500 million bu/year increase
Nitrogen use: 1.0-1.1 lb/bu down to 0.7 lb/bu**

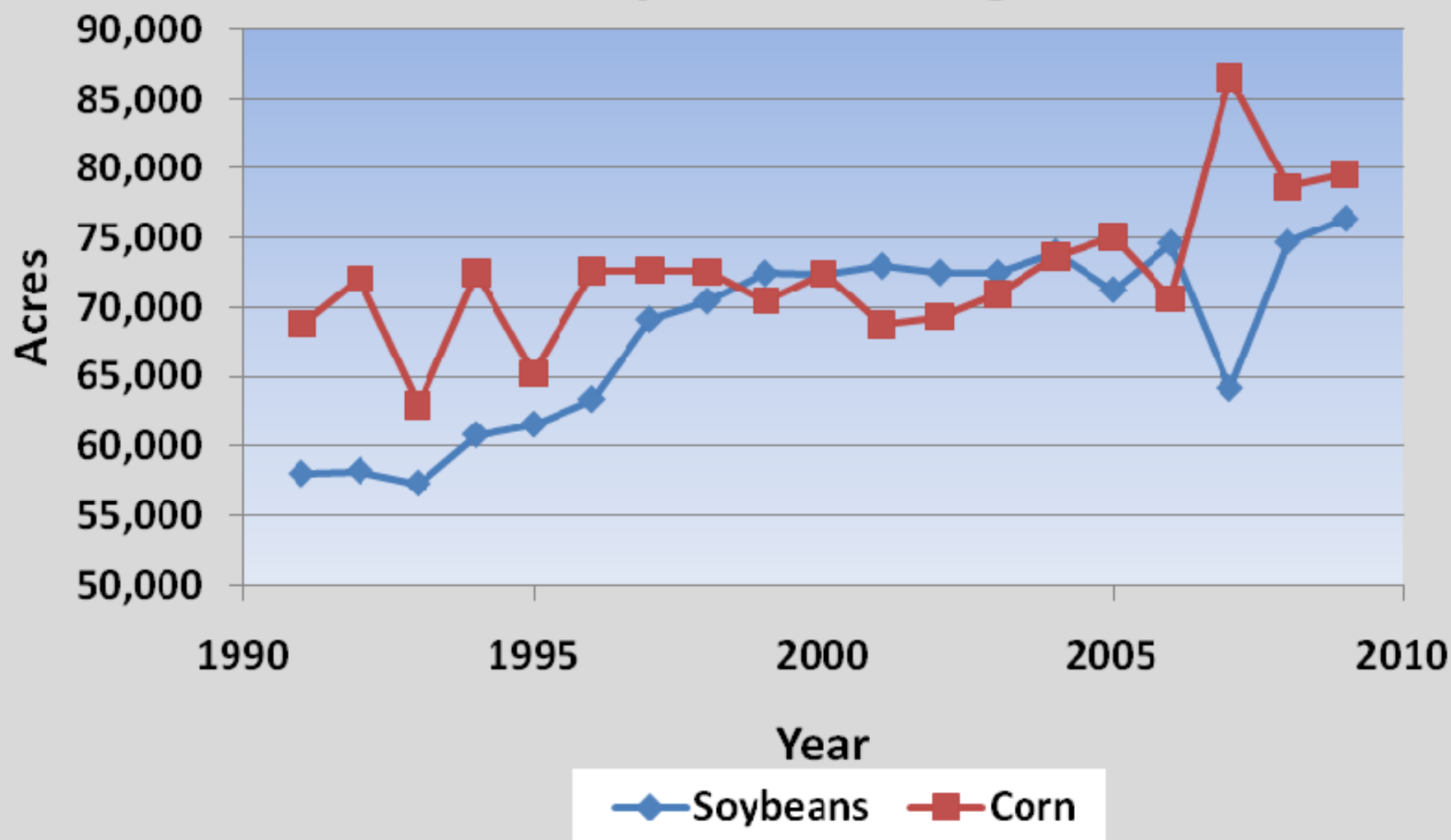
Corn Production and Value



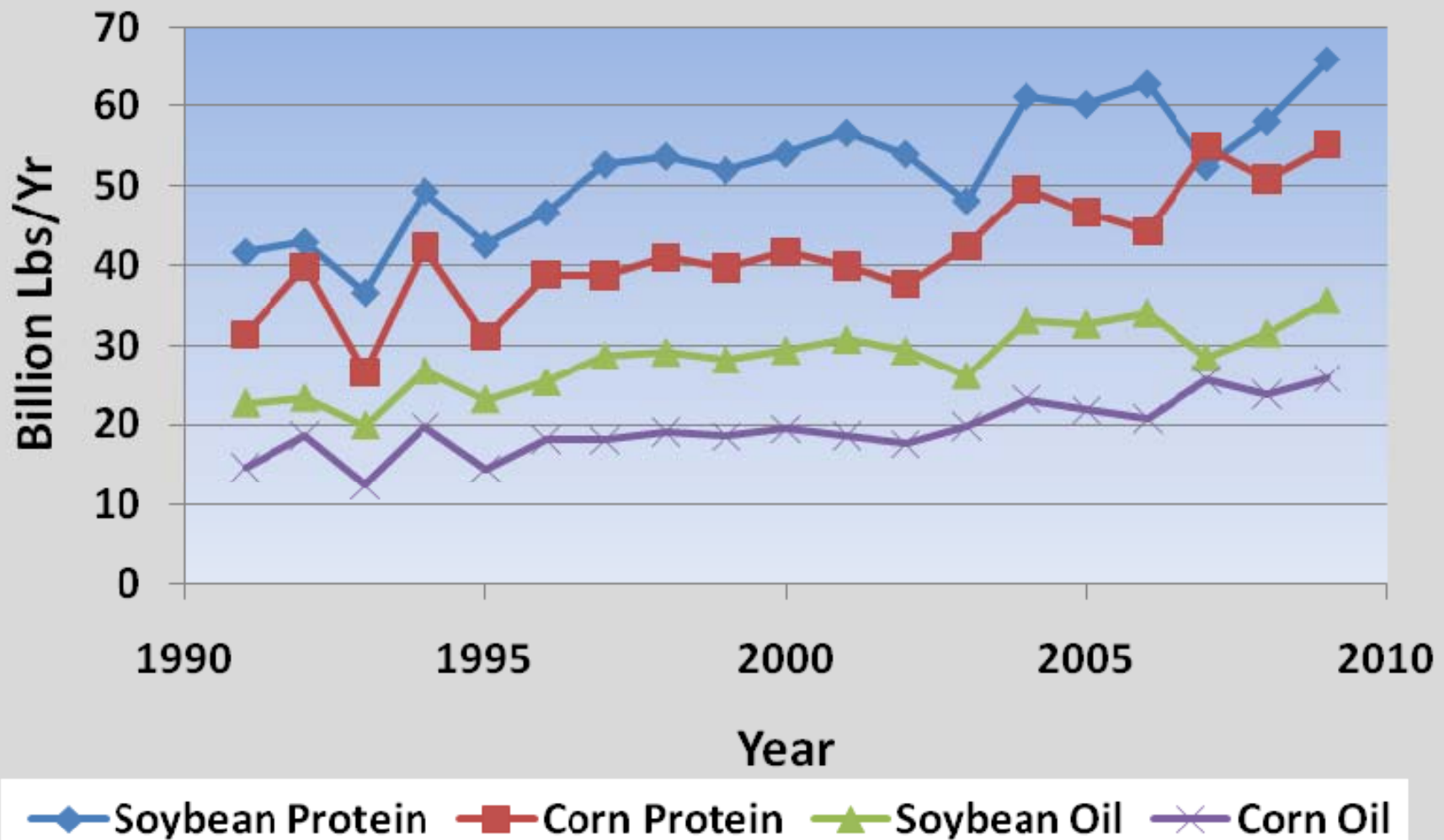
Whats in an Acre of Corn?



Corn and Soybean Acreage, USA

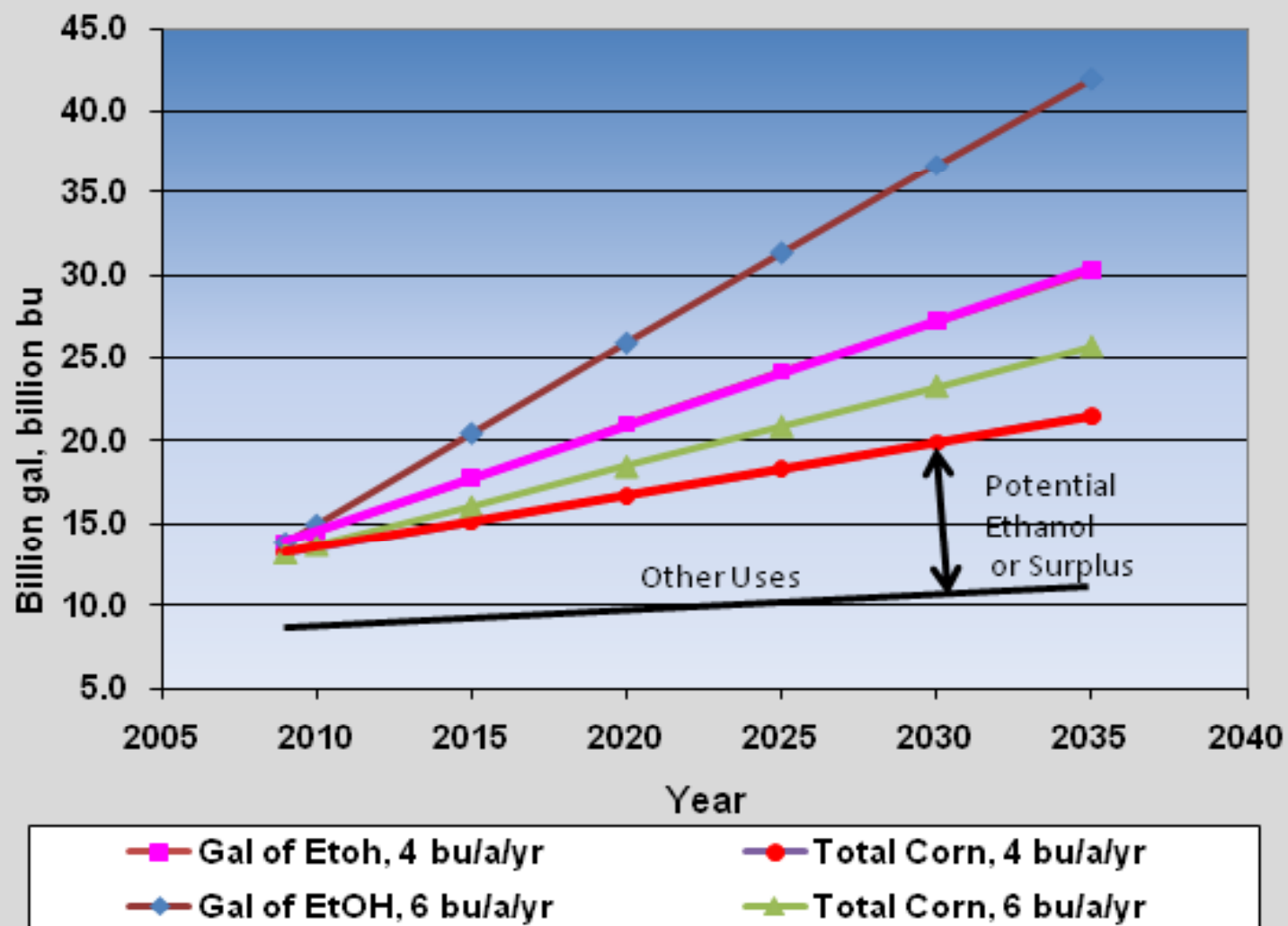


Corn and Soybean Protein and Oil, USA



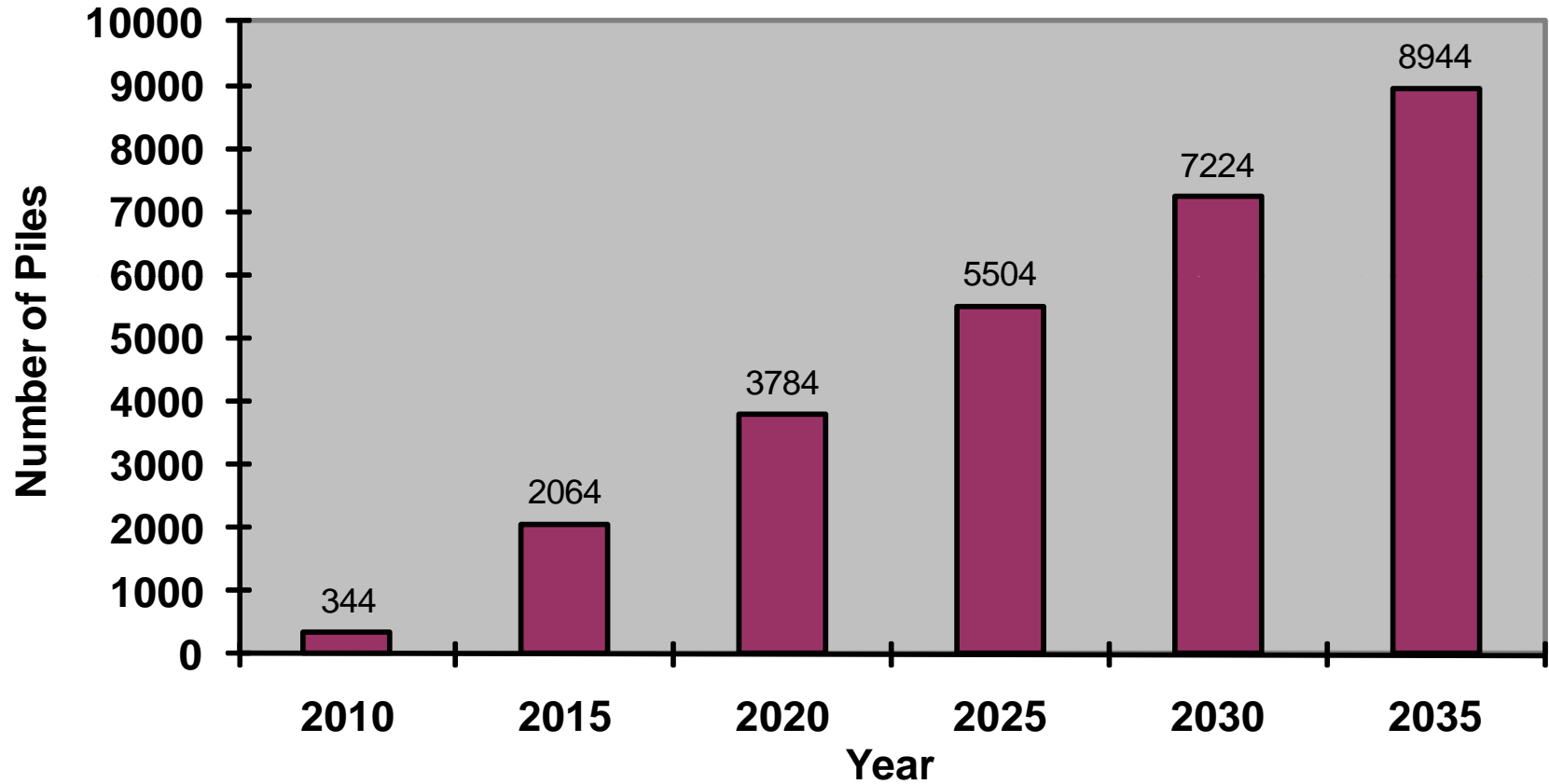
Potential Corn and Ethanol Production

Feed, Food Export @ +1%/yr, 80MM Acres of Corn

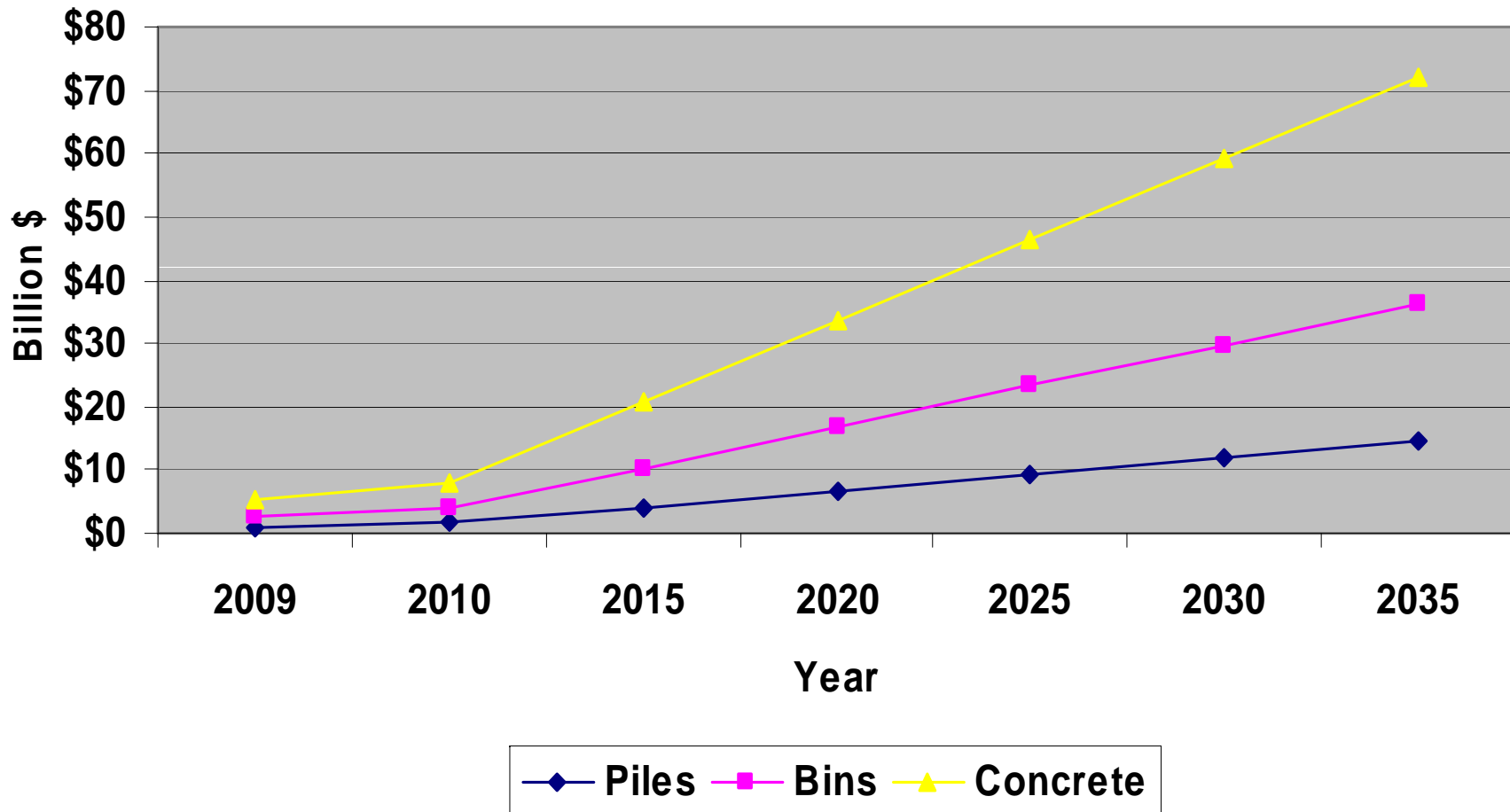


New Corn Storage as Piles

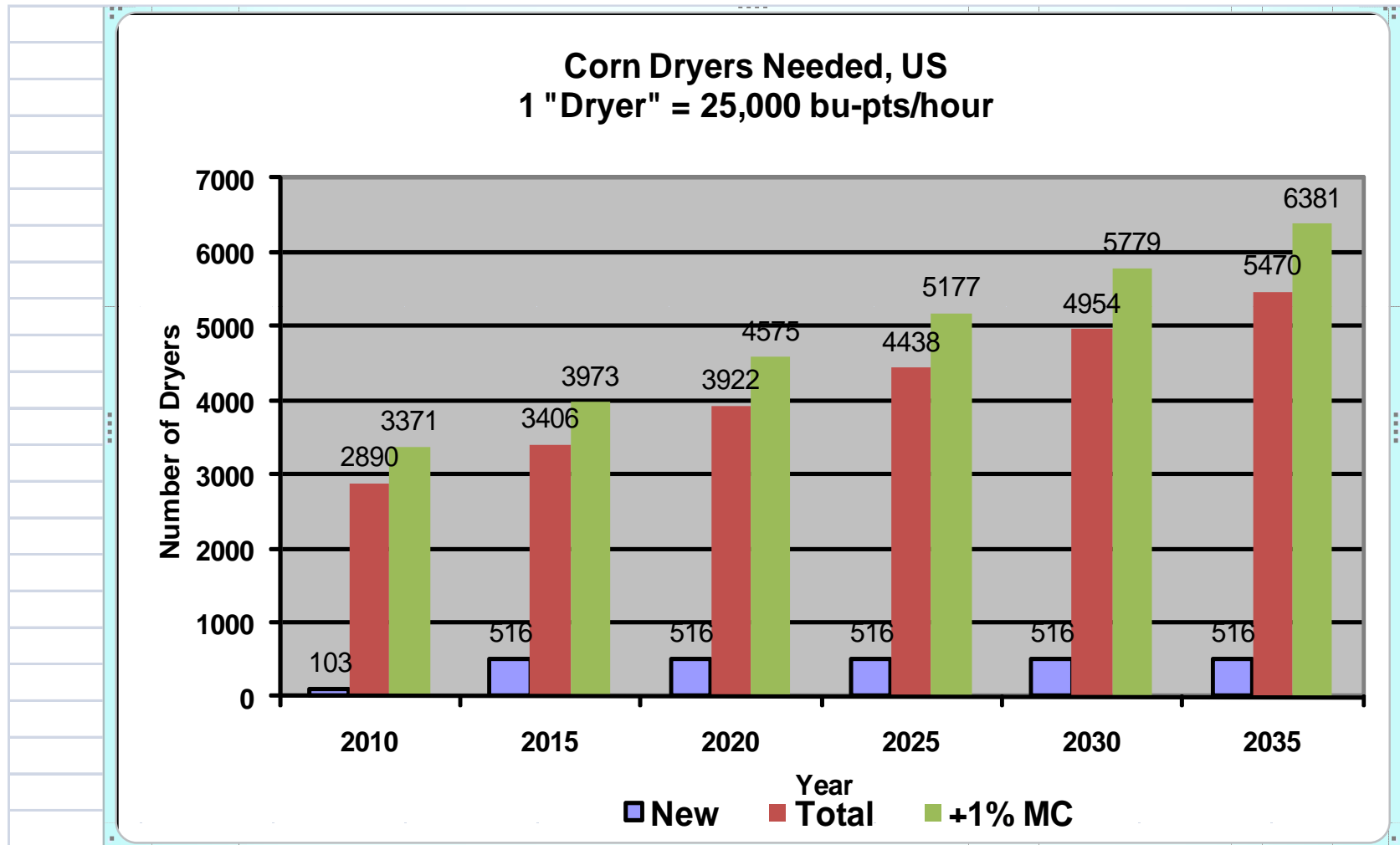
"Pile" = 1,500,000 bu; 6 bu/acre/yr yield gain



Cumulative Cost of Additional Storage



Corn Drying Capacity Needs



Summary

- **Corn production is increasing faster than traditional uses can absorb.**
- **Increase 4-6 bu/a/yr = 350-500MM bu**
- **Huge surpluses very quickly if**
- **Systems thinking in policy planning:**
 - **Corn, soybeans, other grains together.**
 - **Growth connected with acreage balances and continued process improvements**
- **Industry support science based analysis**

Where To Find Us...



www.iowagrains.org

www.grainlab.org

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