

Global Policies and Risk Management

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Overview of Talk

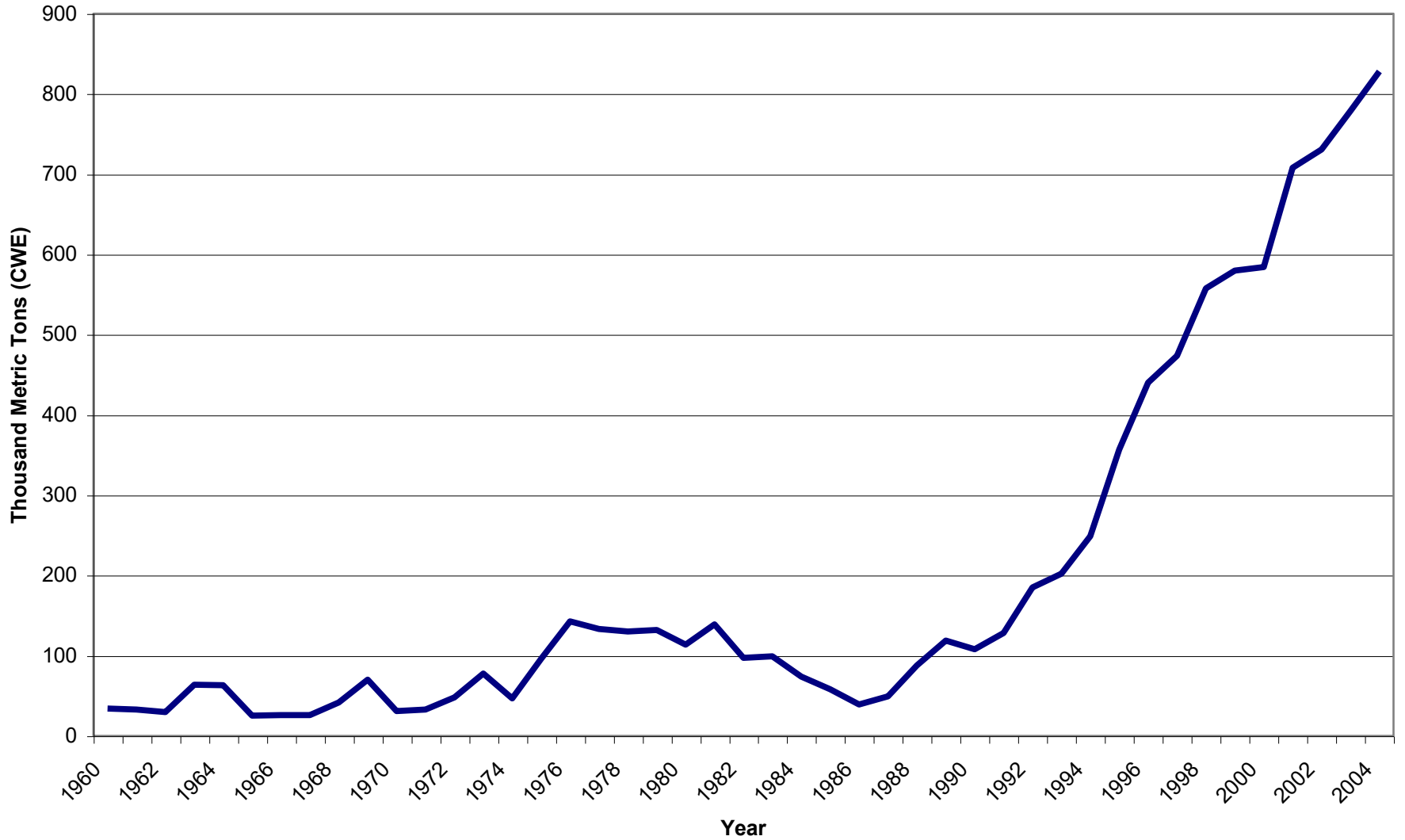
- Review status of WTO talks
 - Framework agreement
 - WTO cotton ruling
- Review proposal to make U.S. farm programs more acceptable to WTO
- Another perspective on outlook for corn supply/demand balance
- Review crop insurance outlook for 2005 and 2006

Status of WTO Negotiations

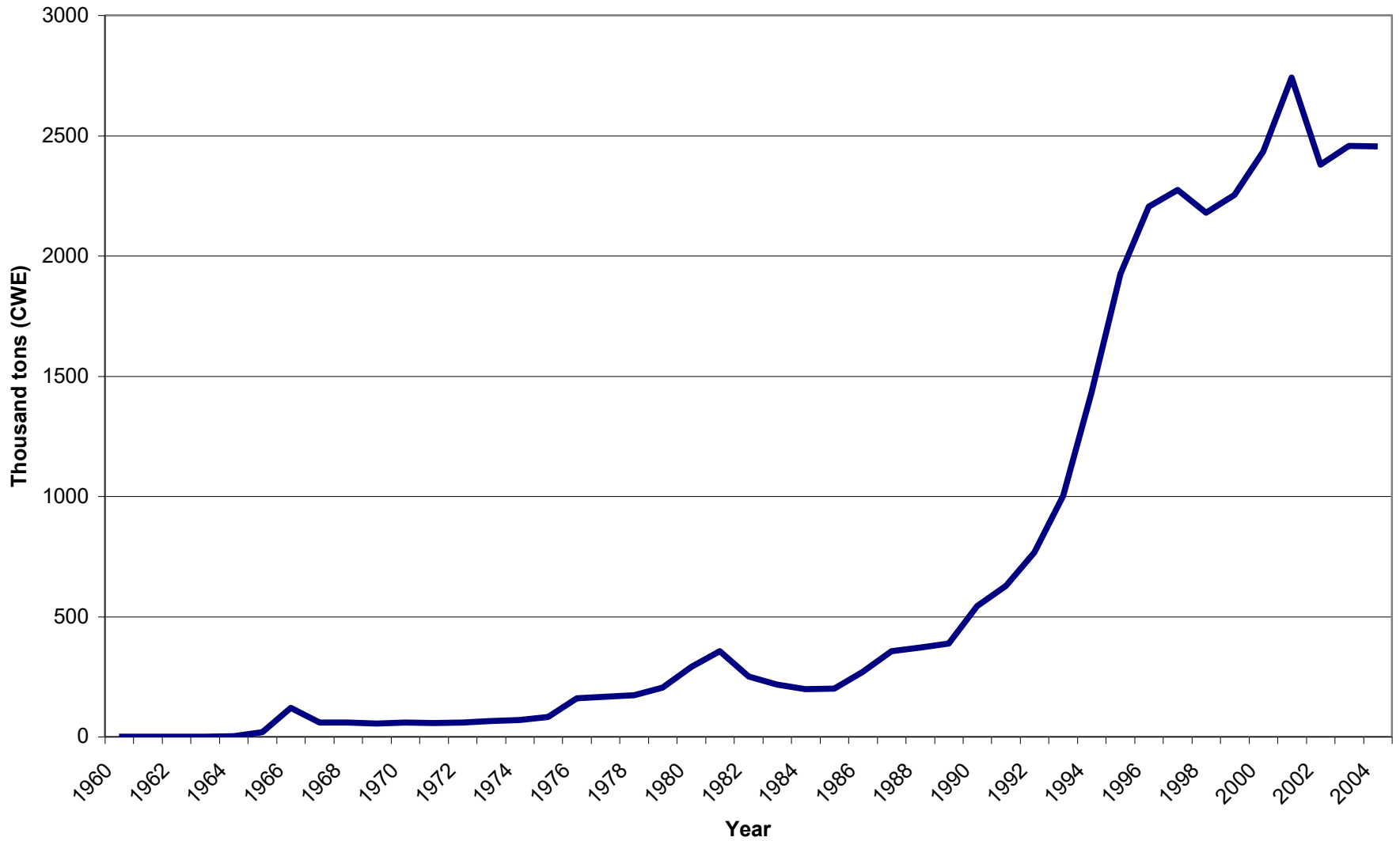
- Late July agreement keeps negotiations going
- Old agreement:
 - Amber box expenditures capped at \$19.1 billion in support (LDPs, MLAs, CCPs, tariff support)
 - No limit on blue box (old deficiency payment or green box (AMTA, DPs)

What are the benefits of an agreement?

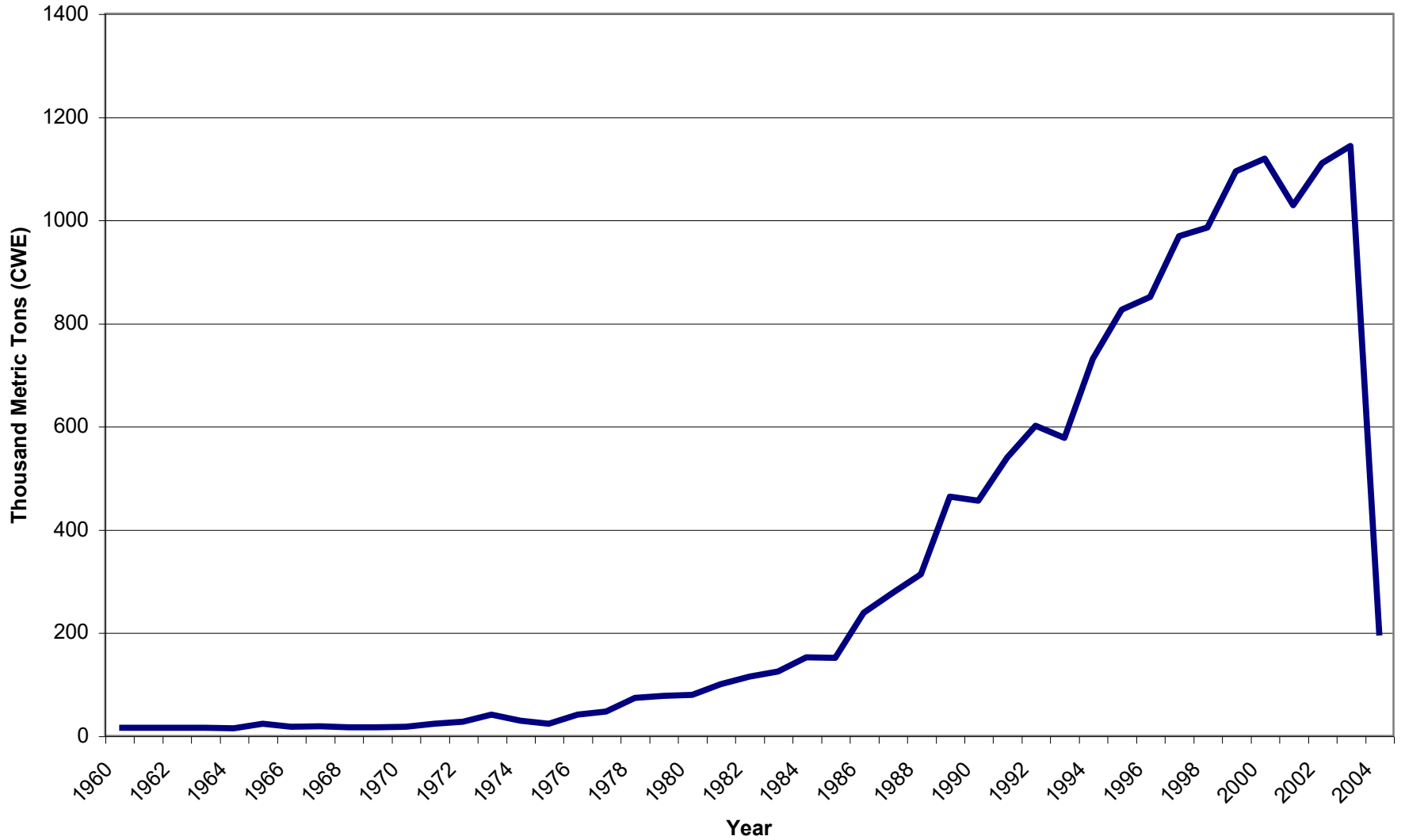
U.S. Pork Exports 1960:2004



U.S. Broiler and Turkey Exports 1960:2004



U.S. Beef and Veal Exports 1960:2004



New Framework Agreement

- Highlights include:
 - “Boxes” are kept
 - New definition for the blue box
 - 20% cut in support as a “downpayment”
 - Further future cuts as negotiated

CCPs to the Blue Box

- CCPs plus LDPs could exceed amber box limits
- US negotiated CCPs into the limited blue box.
- Previous loopholes will be tightened a bit, but overall we have an increase in flexibility
- Likely that US can negotiate “cuts” without having to cut anything.

Cotton Finding is the Wild Card

- Brazil brought a complaint about US cotton subsidies to the WTO panel.
- Old WTO agreement held countries harmless if
 - amber box spending was below the cap, *and*
 - Crop specific spending was below the base period spending (peace clause)
- WTO panel ruled that cotton spending exceeded the base period, and

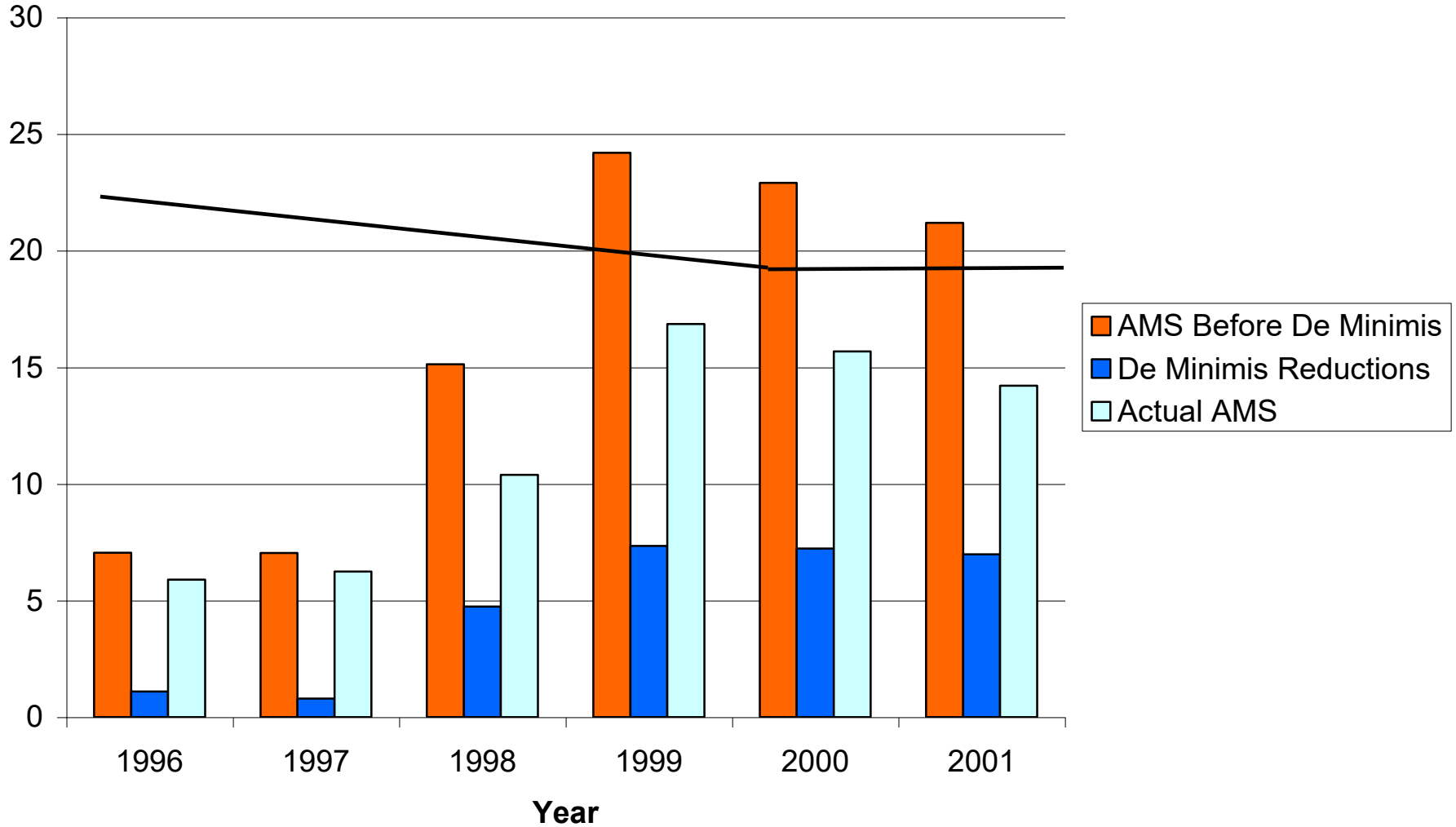
WTO Cotton Finding

- Brazilian cotton producers were harmed by U.S. subsidies
 - Export subsidies (step 2) should be immediately ended
 - LDPs lowered world prices, causing harm to Brazilian cotton farmers
 - AMTA and DPs “do not fully conform” to Green Box guidelines because of restrictions on fruit and vegetable production.

Will Cuts be Necessary?

- The 20% “down payment” can be made without affecting anything
- Subsequent cuts may lead to some program adjustment
- But added flexibility in the framework should lead to minimal required changes.

How the U.S. Met Its AMS Limits



Outlook

- US and EU will not have to make many changes
- Why should we expect importing countries to change?
- Grand deal is for US and EU to cut domestic support in return to market access

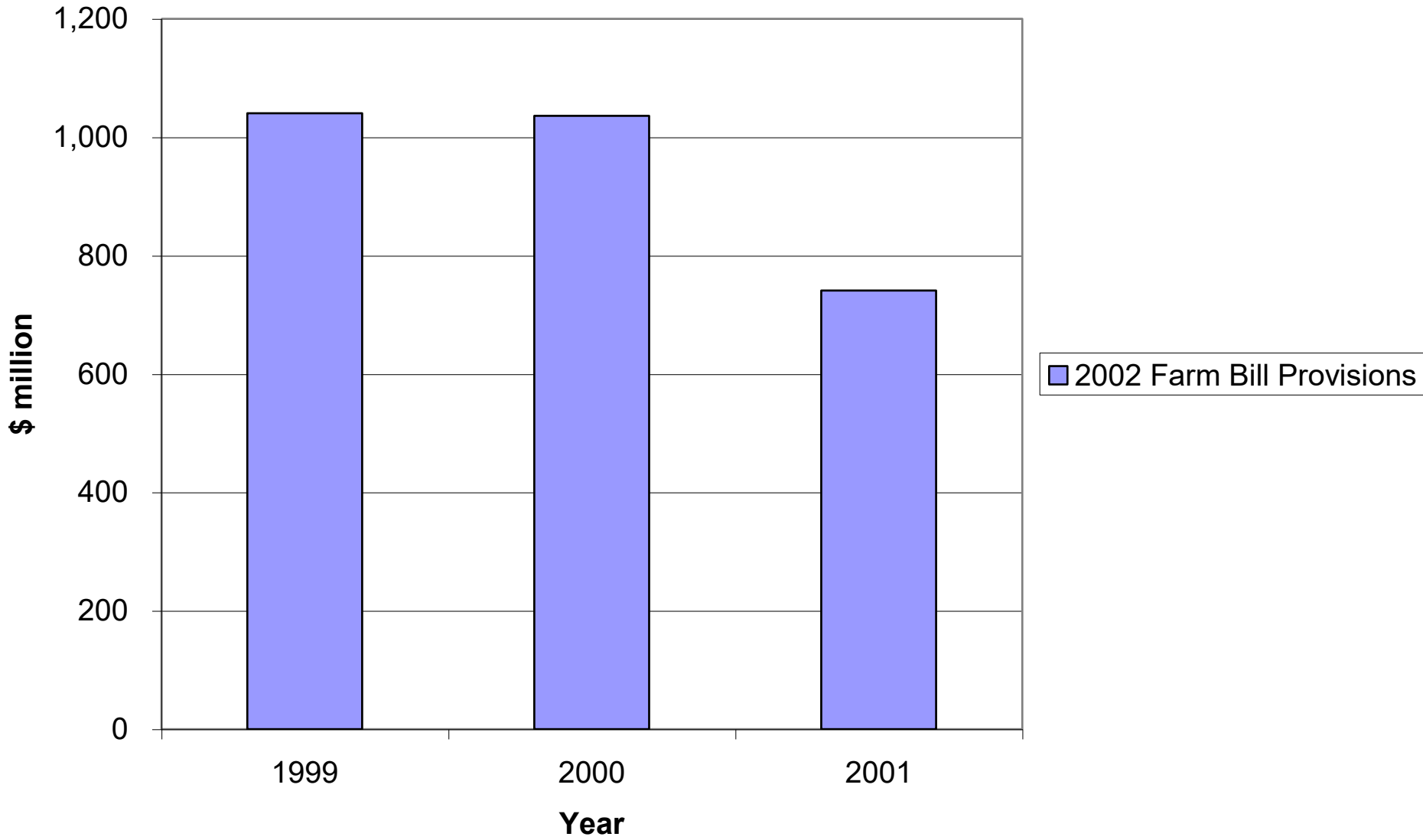
An Alternative Path

- Marketing loan program the worst offender in the US.
- EU and others view the CCP more favorably because they are based on a fixed amount of production.
 - CCPs are decoupled from production levels so they should not influence production decisions at the margin.

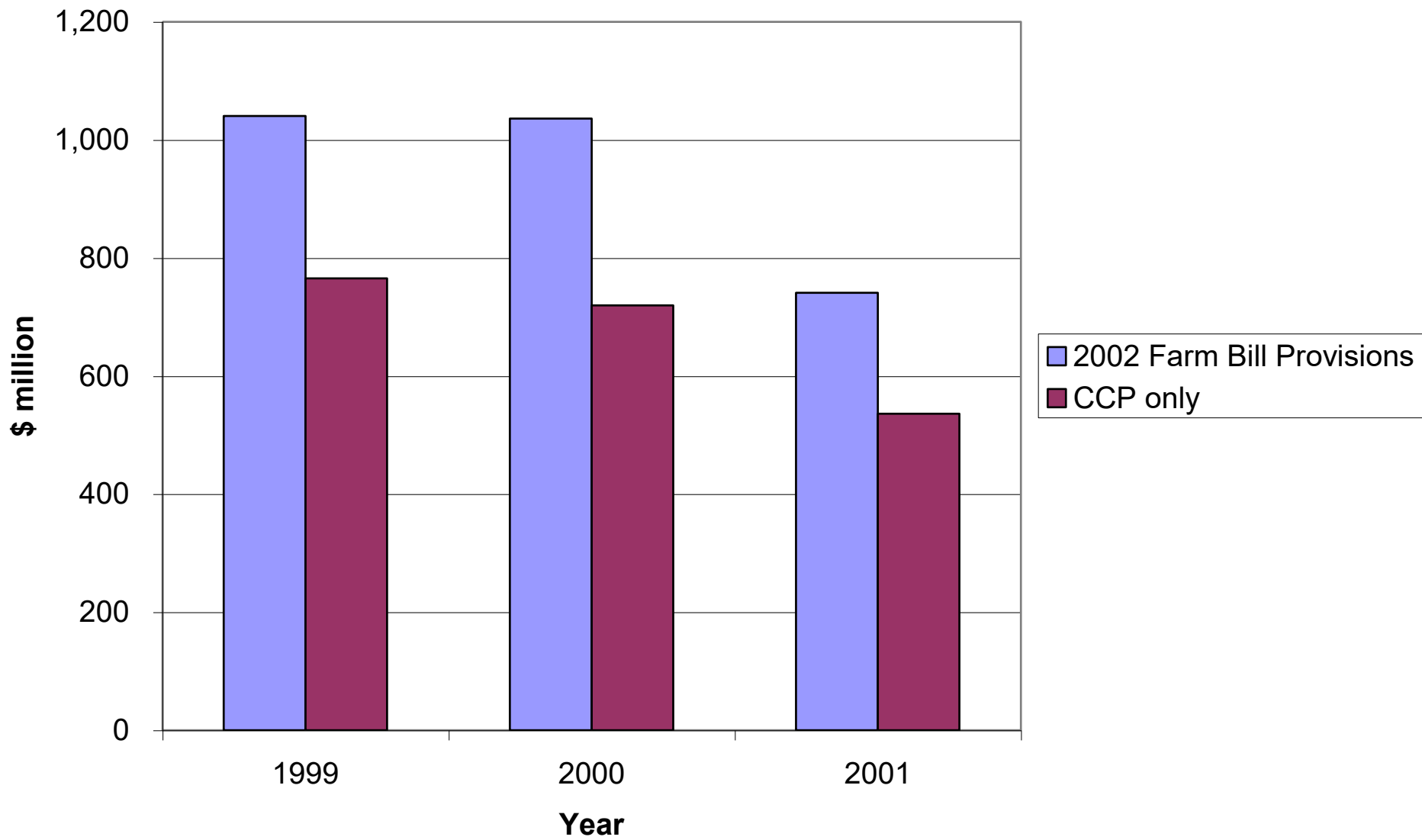
An Alternative Path

- LDPs pay out when price is below the loan rate
- CCPs pay out when price is below the effective target price.
- Why not replace LDPs with CCPs?
 - US would then be in a leadership position rather than a defensive position with regards to domestic support
 - What would be impact on farmers?

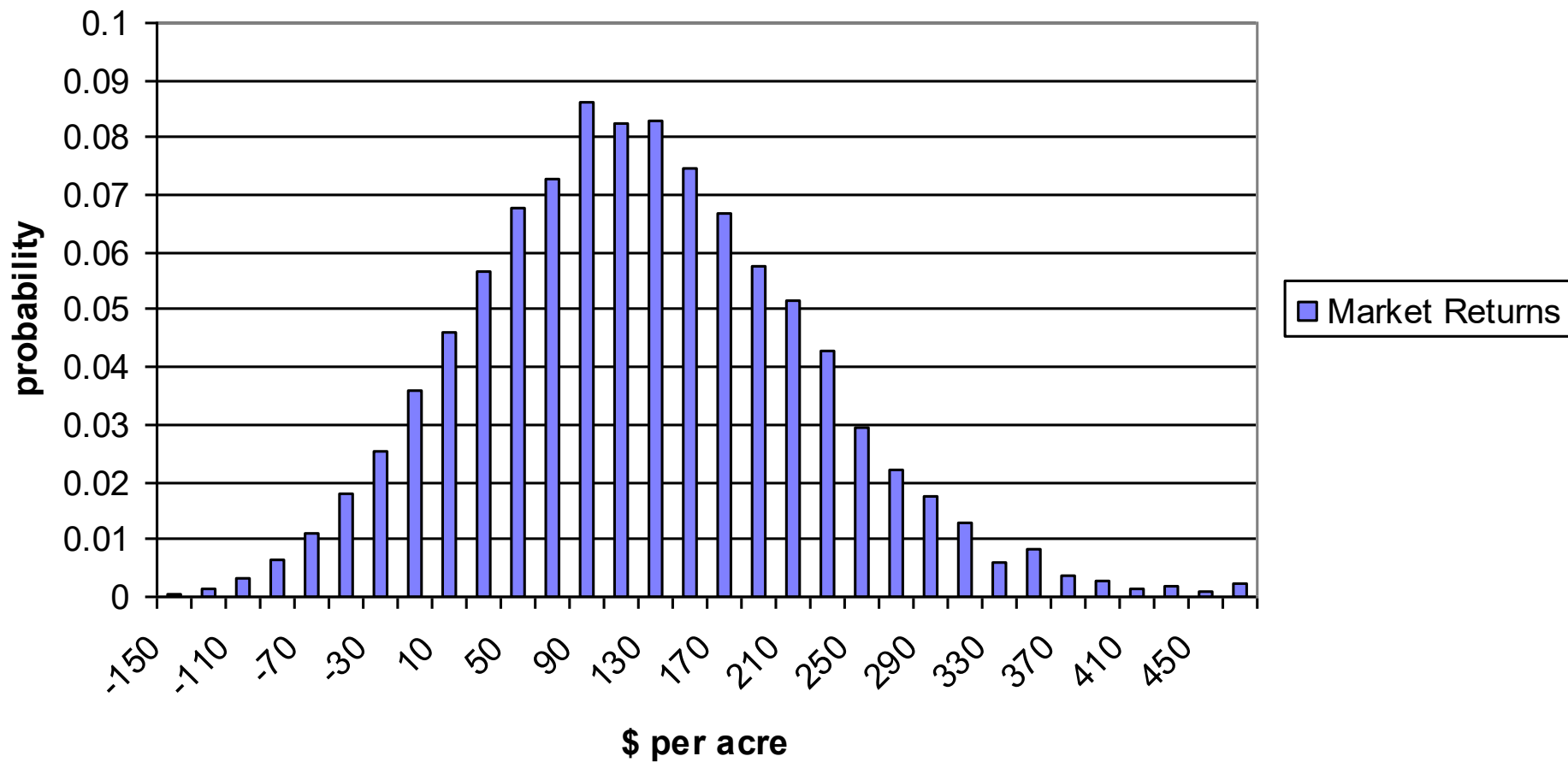
What would payments have been to Iowa corn farmers?



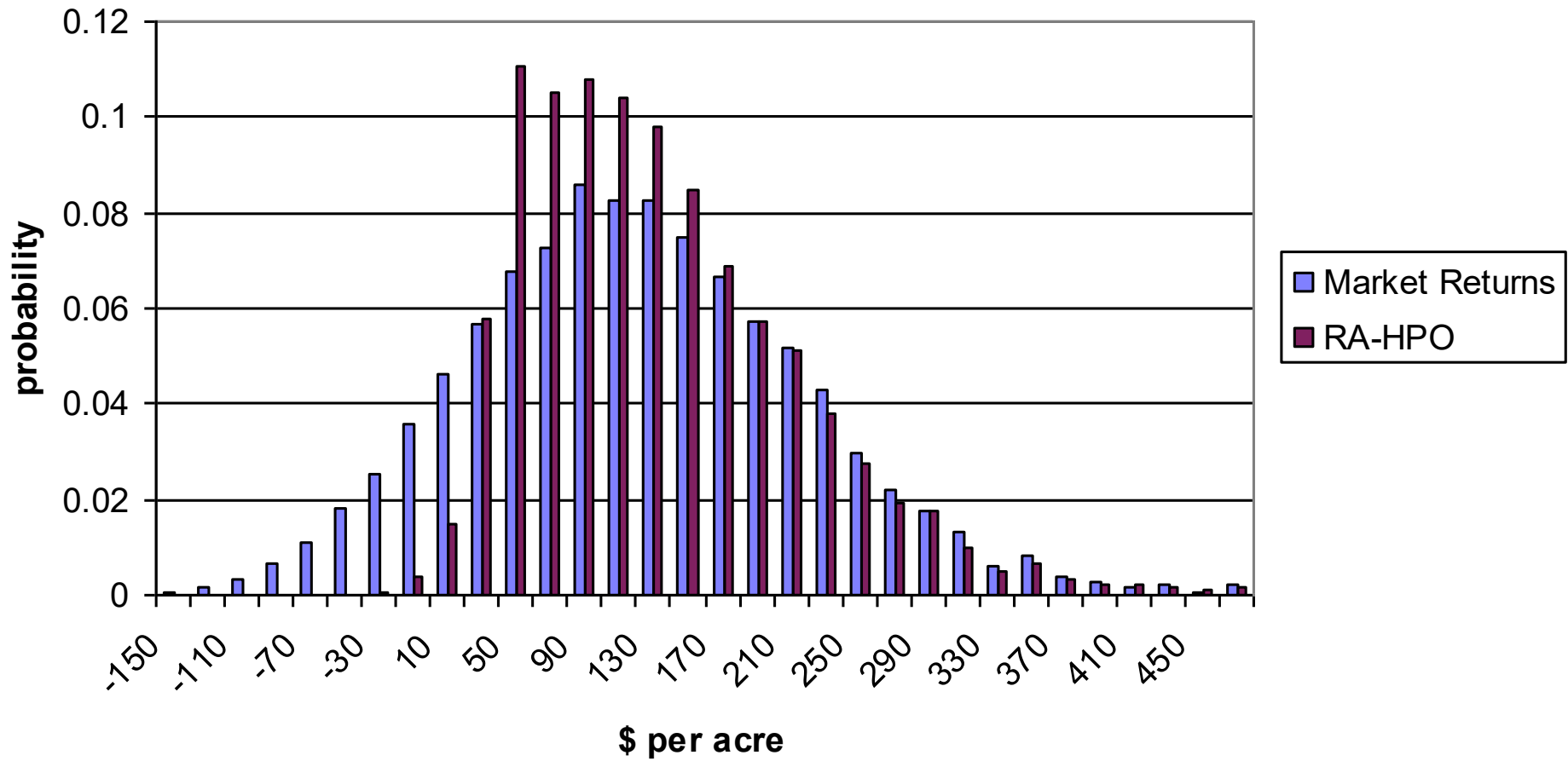
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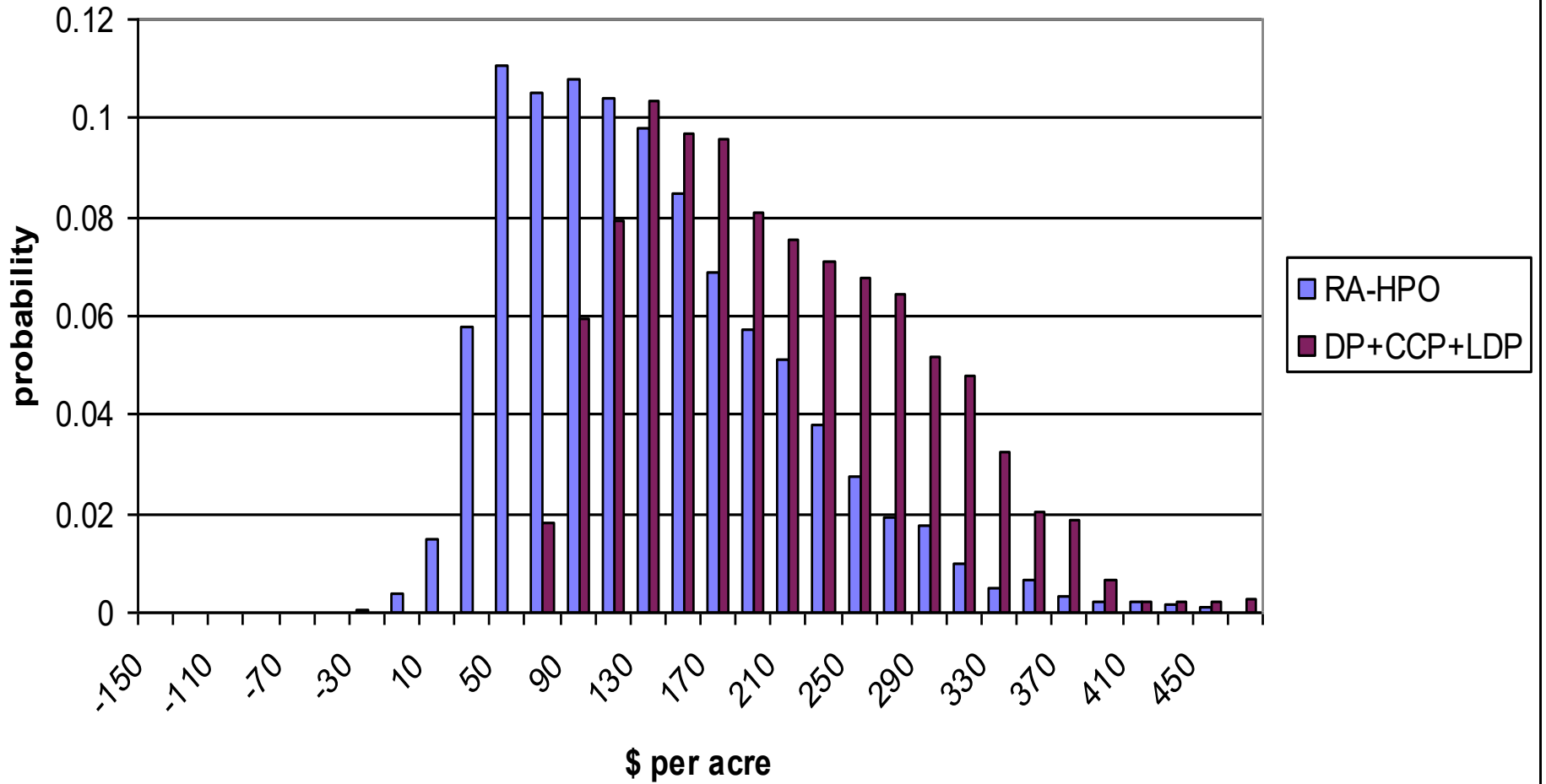
Distribution of Total Revenue Less Variable Costs from Corn for a Land Owner



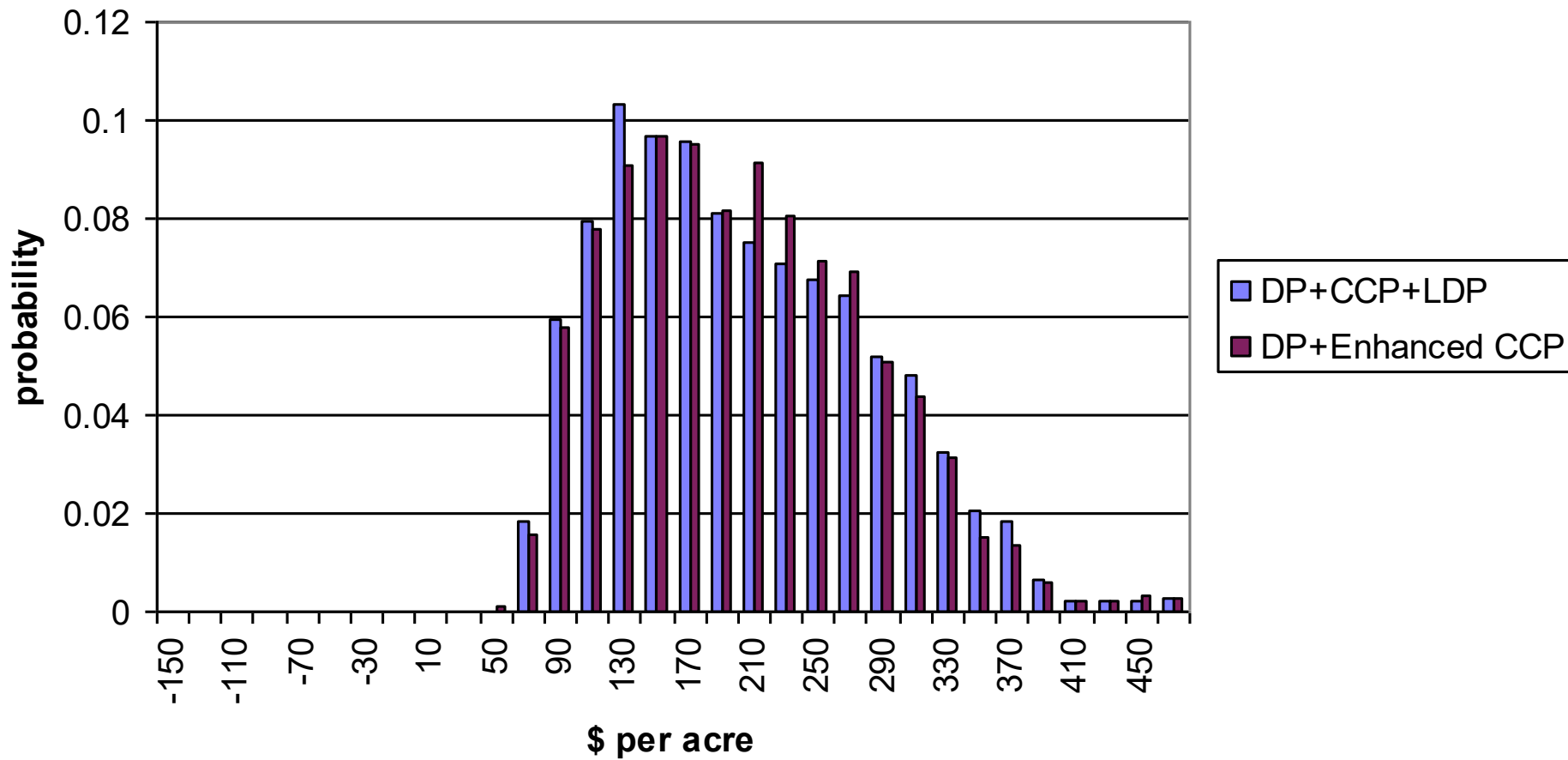
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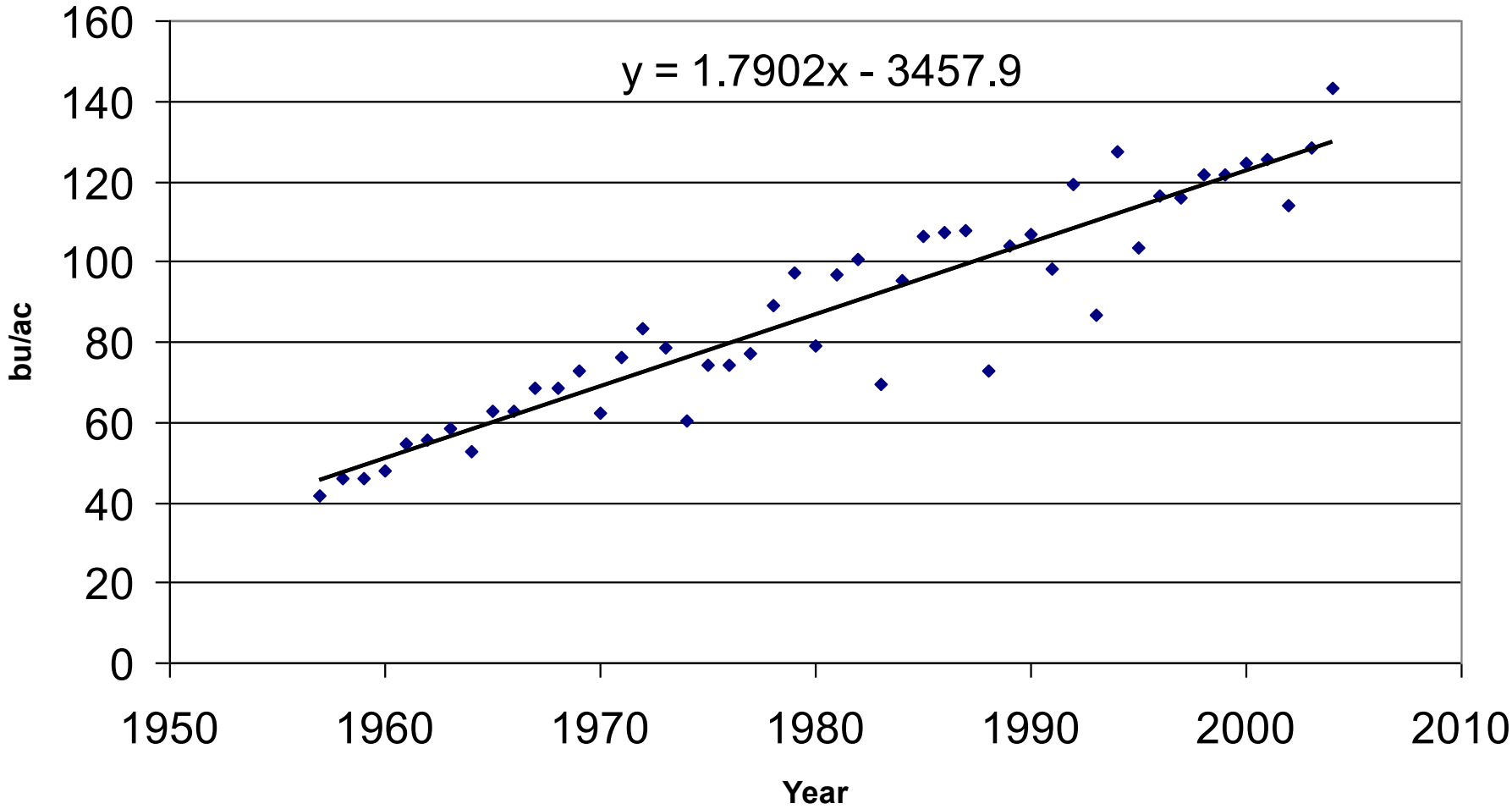
Will we run out of corn?

- Depends on
 - Trend yields of corn and soybeans
 - Weather patterns
 - Growth in meat exports, ethanol use and per-capita meat consumption

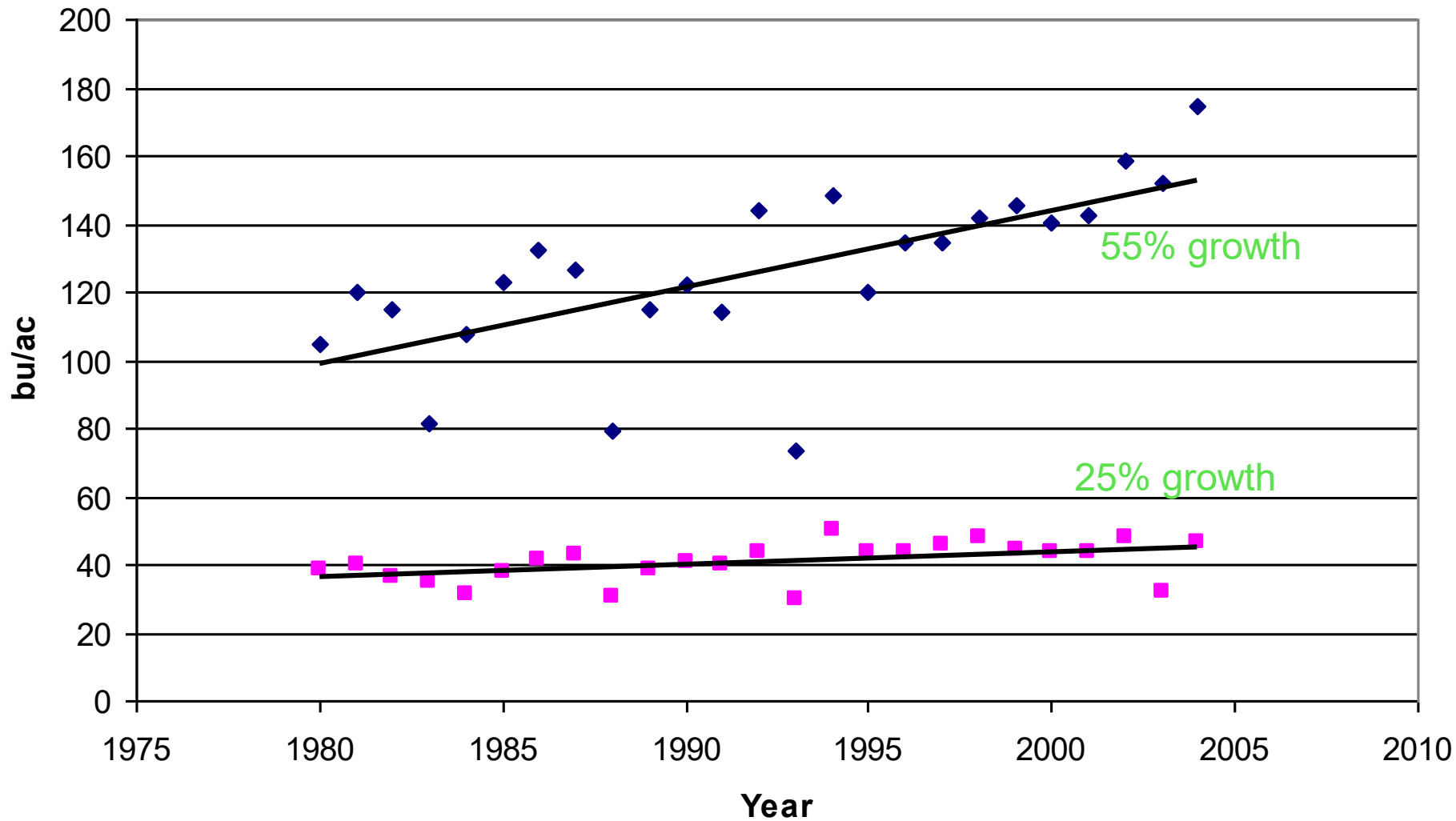
Increased demand causes increased supply

U.S. Corn Yields per Planted Acre

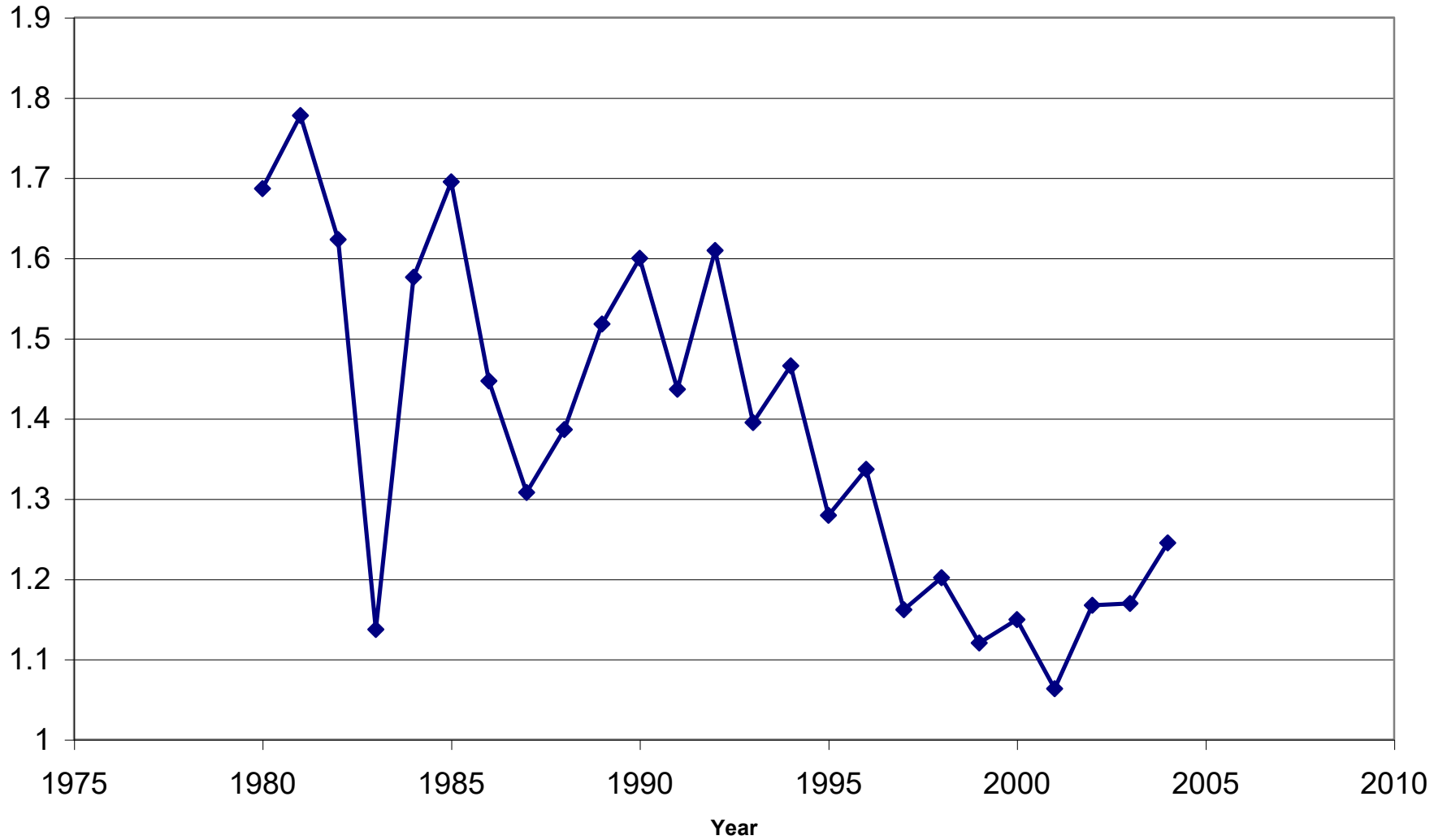
$$y = 1.7902x - 3457.9$$



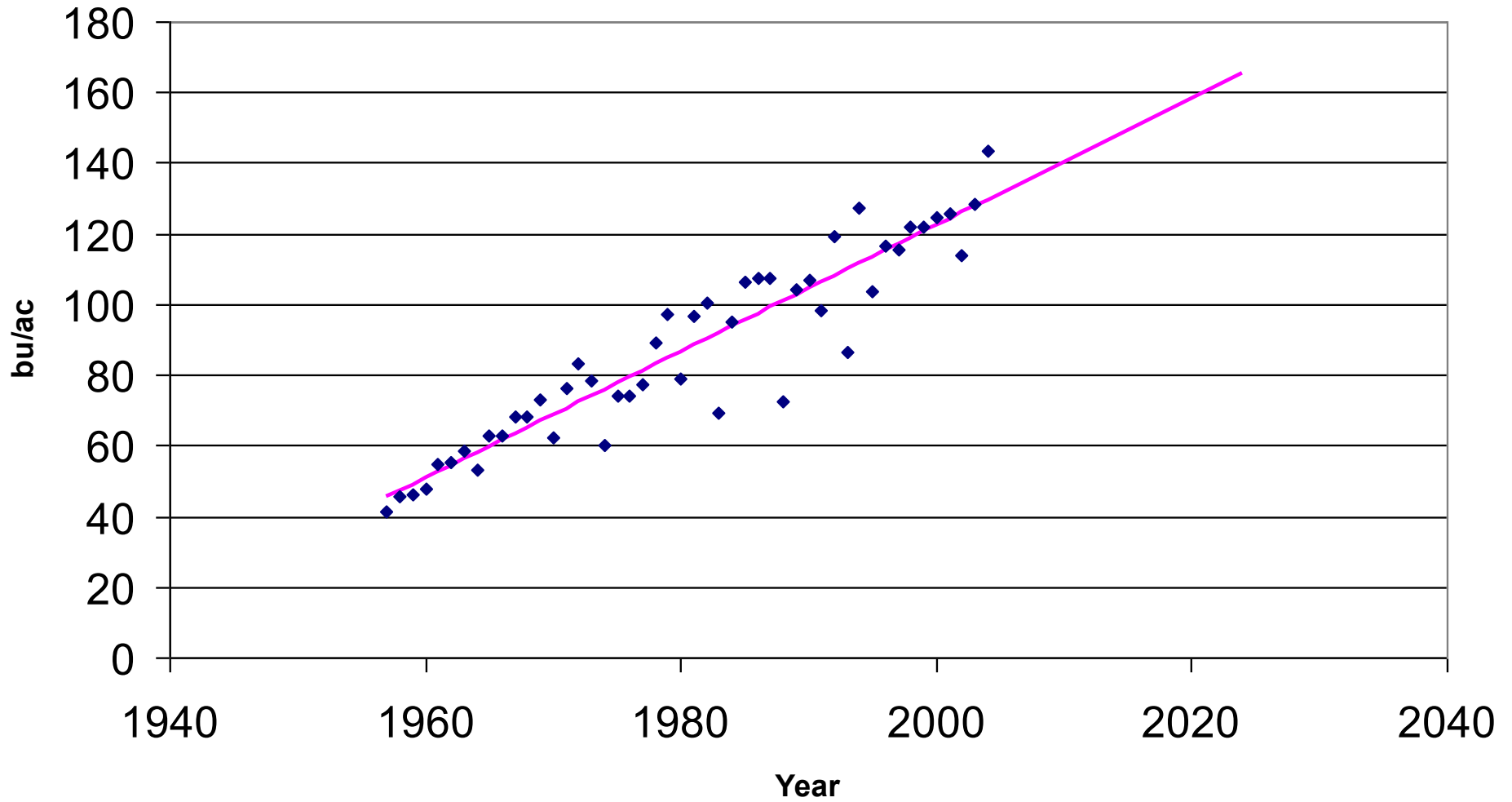
Iowa Corn and Soybean Yields per Planted Acre Since 1980



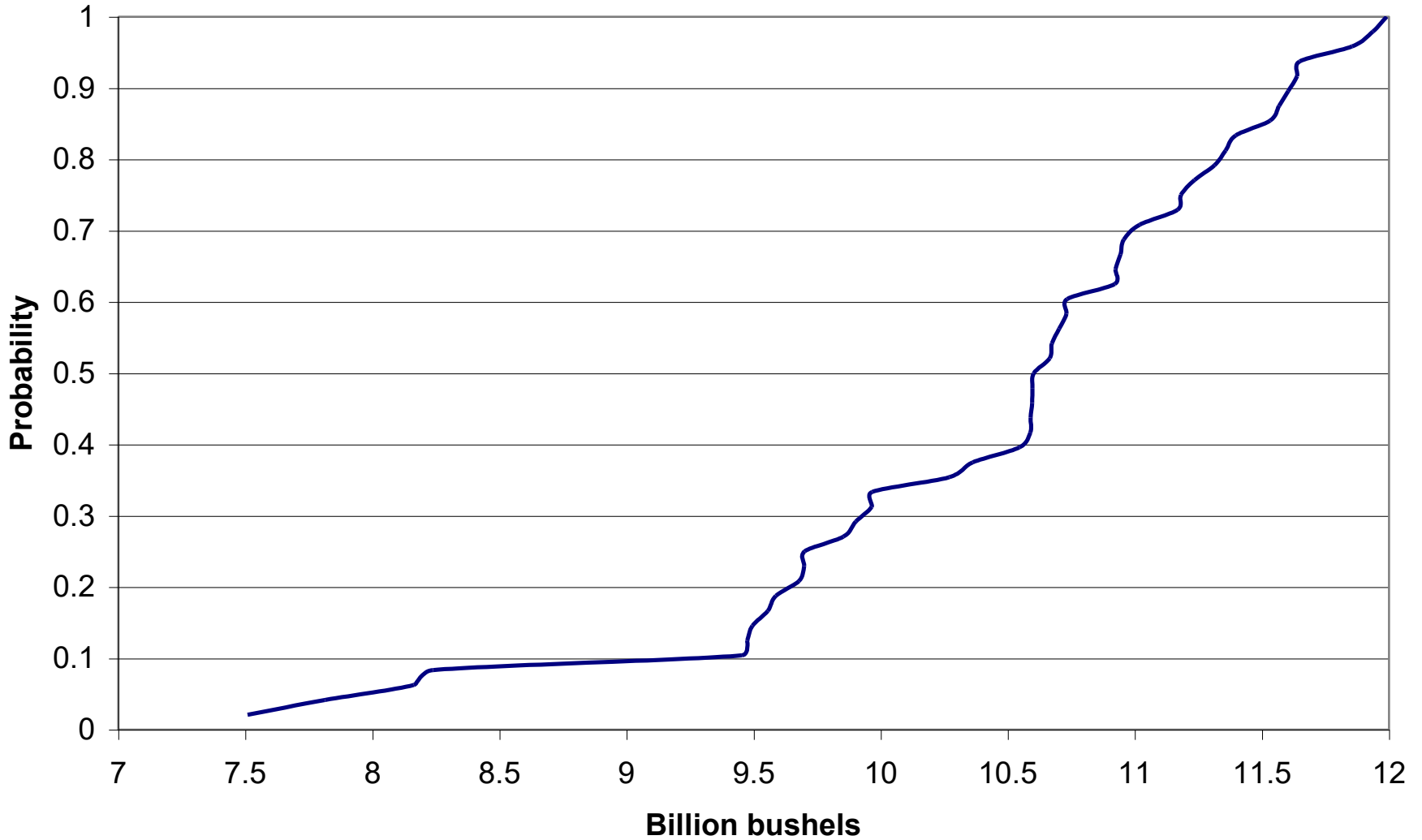
Ratio of Corn to Soybean Acres in Iowa



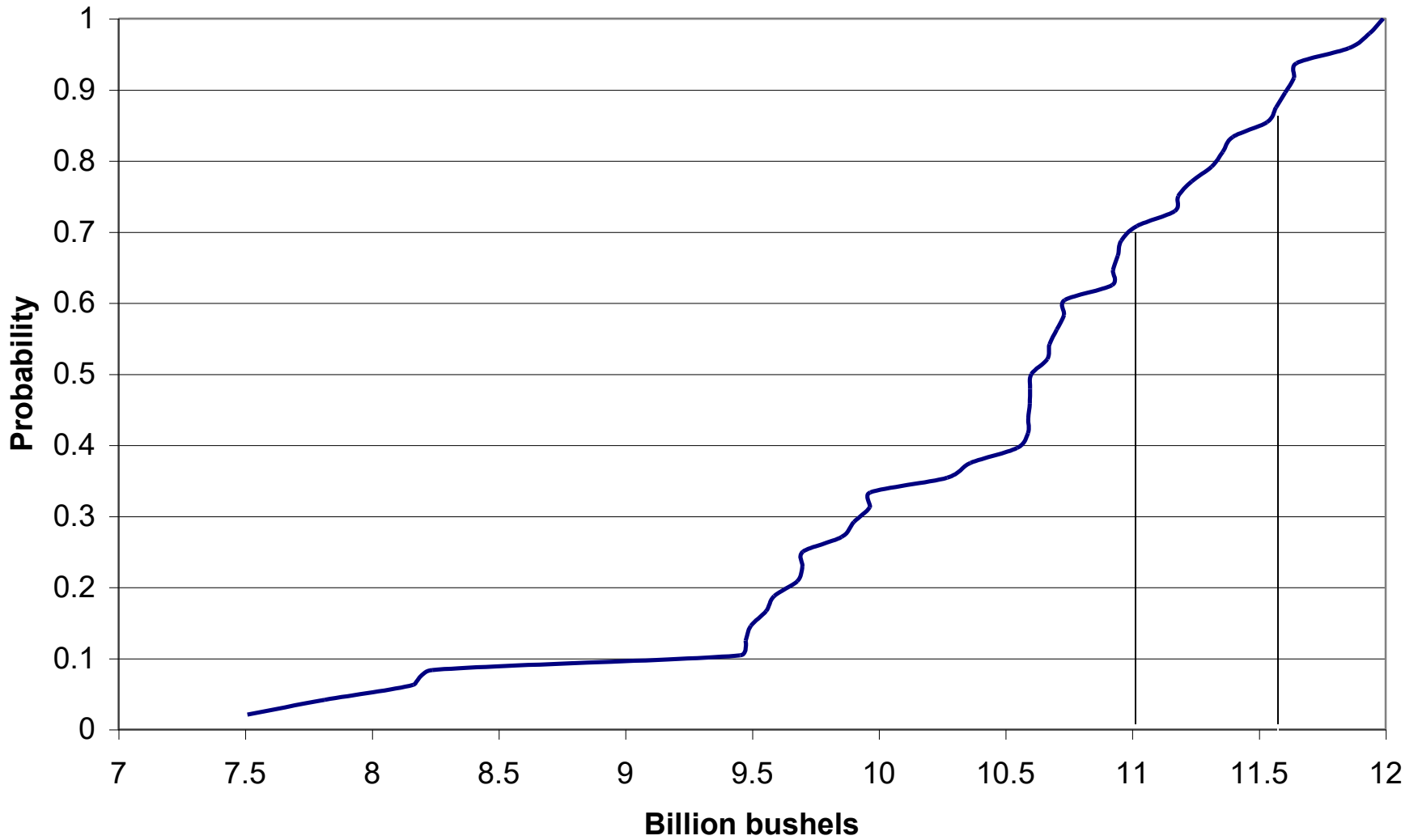
U.S. Corn Yields per Planted Acre



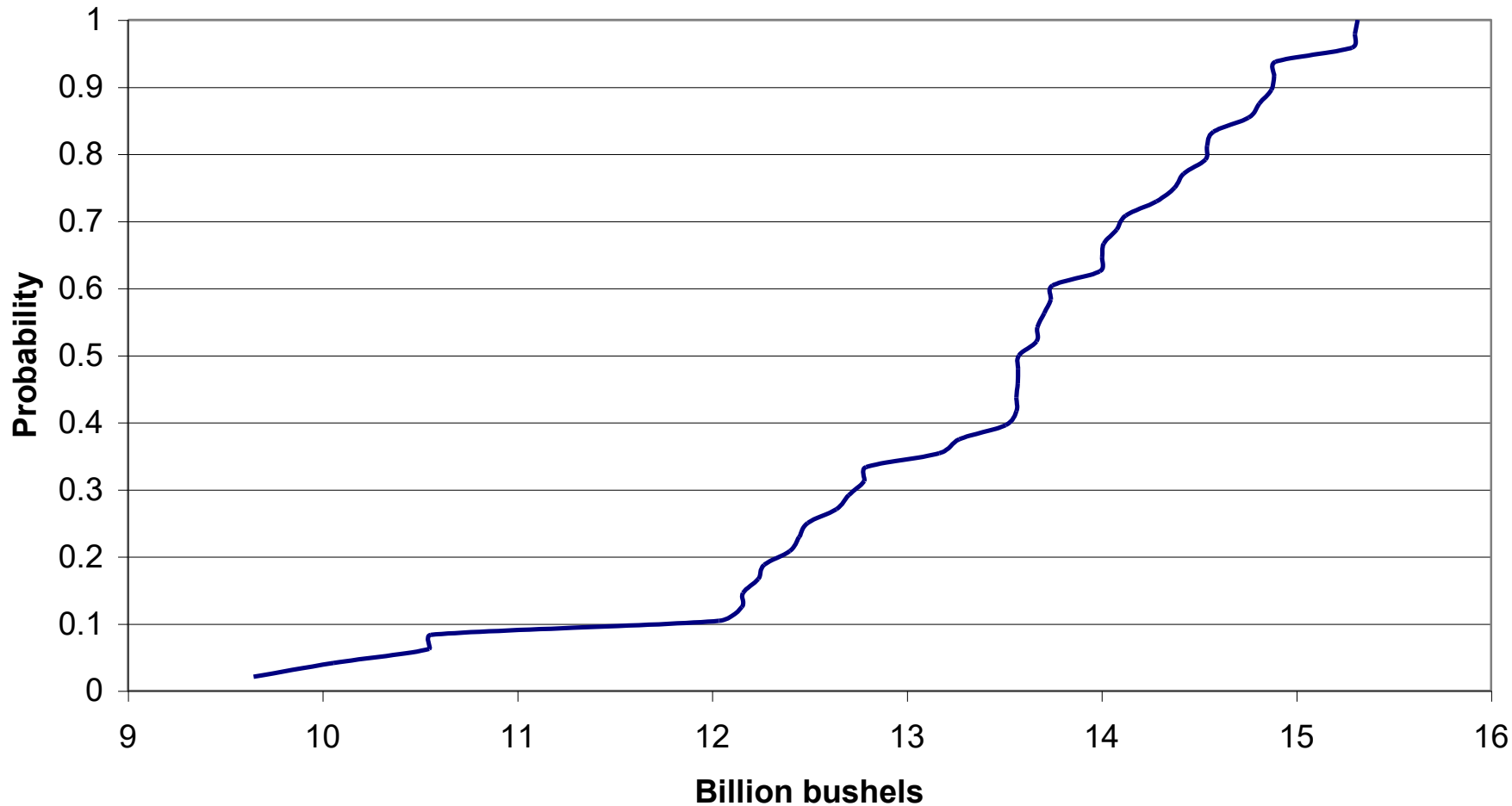
Cumulative Probability Distribution of U.S. Corn Production for 2005
Expected Production = 10.45 bbu



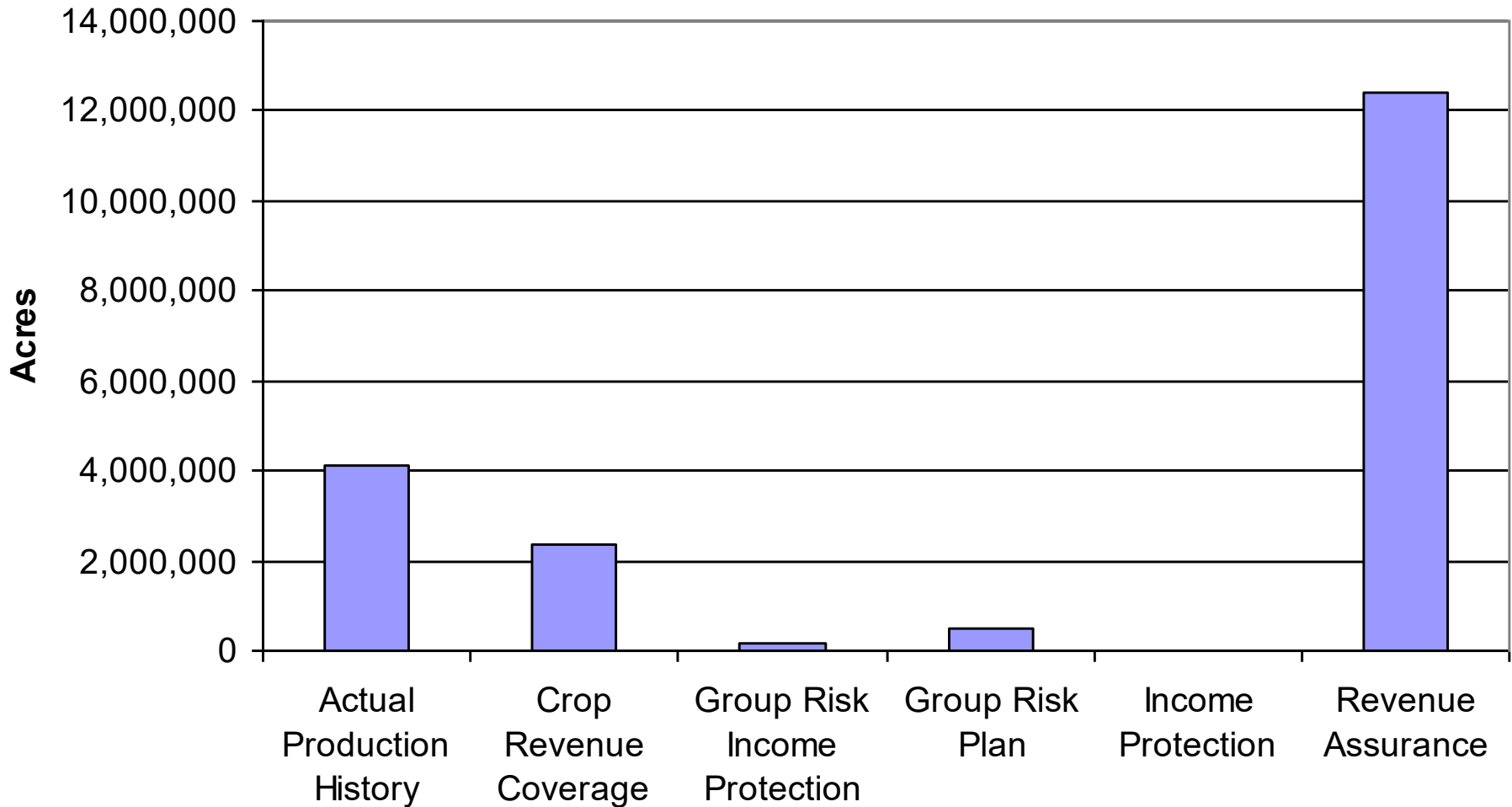
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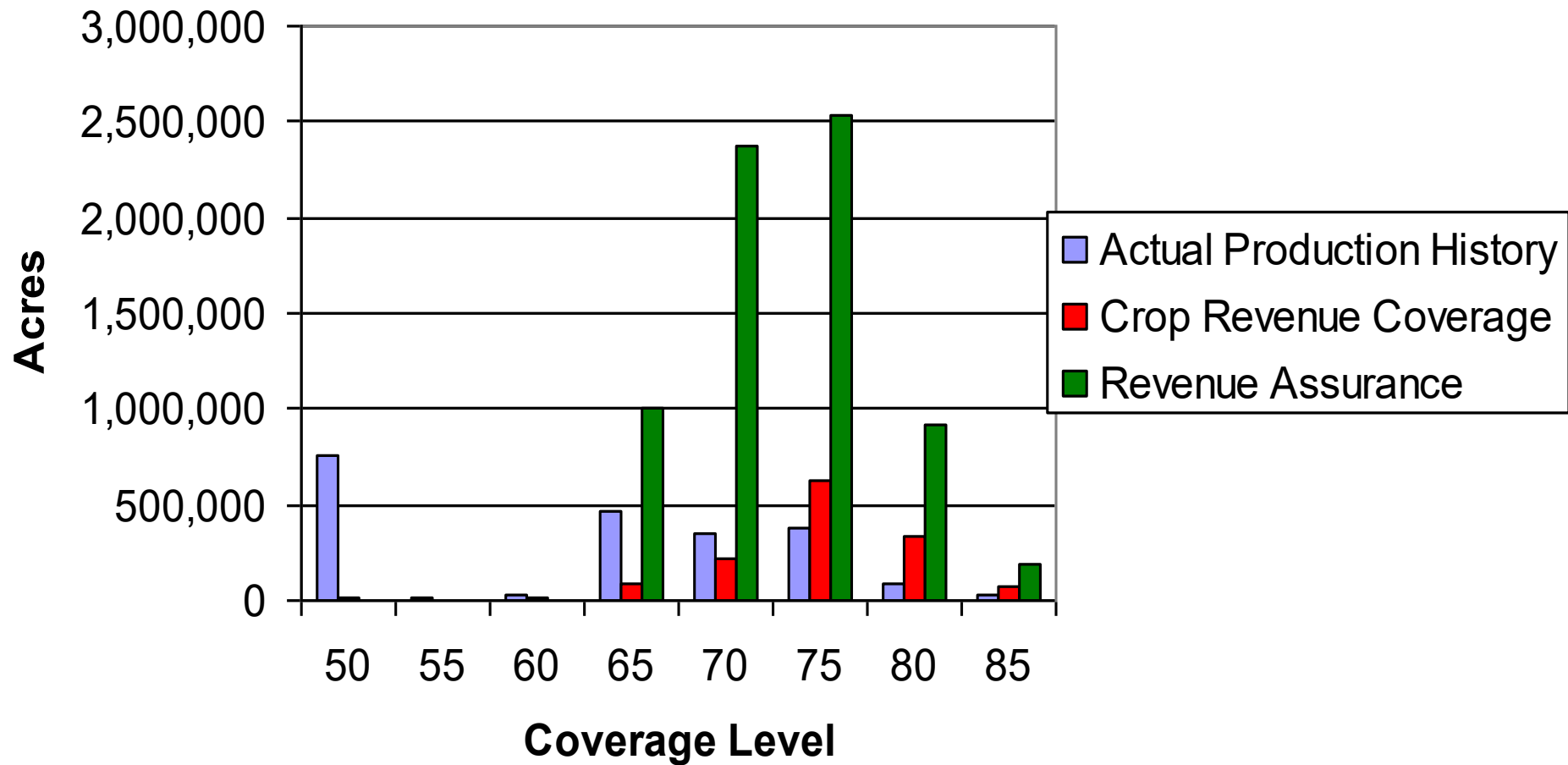
Cumulative Probability Distribution of U.S. Corn Production for 2024
Expected Production = 13.4 bbu



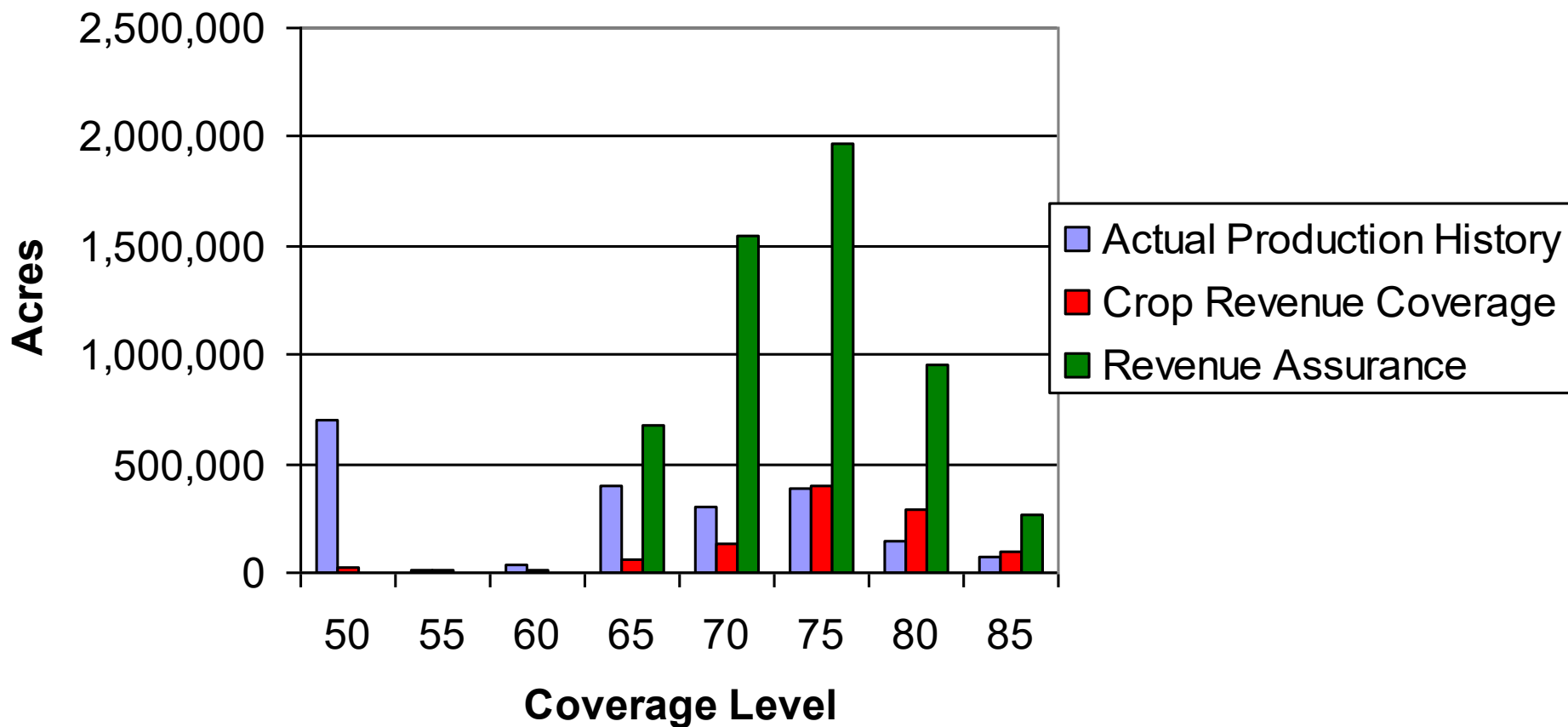
Acres Insured in Iowa by Insurance Plan



Iowa Corn Acres by Insurance Plan and Coverage Level



Iowa Soybean Acres by Insurance Plan and Coverage Level



GRIP and GRIP-HRO

- GRIP guarantee =
Factor*CBOT Springtime Price*Expected
County Yield
- GRIP-HRO guarantee =
Factor*CBOT Fall or Spring Price*Expected
County Yield

Factor lies between 0.6 and 1.5.

Who Should Buy GRIP?

- Farmers who do not have a representative APH yield
- Farmers who are lower risk than that assumed in APH program
- Farmers with yields that are highly correlated with county yields

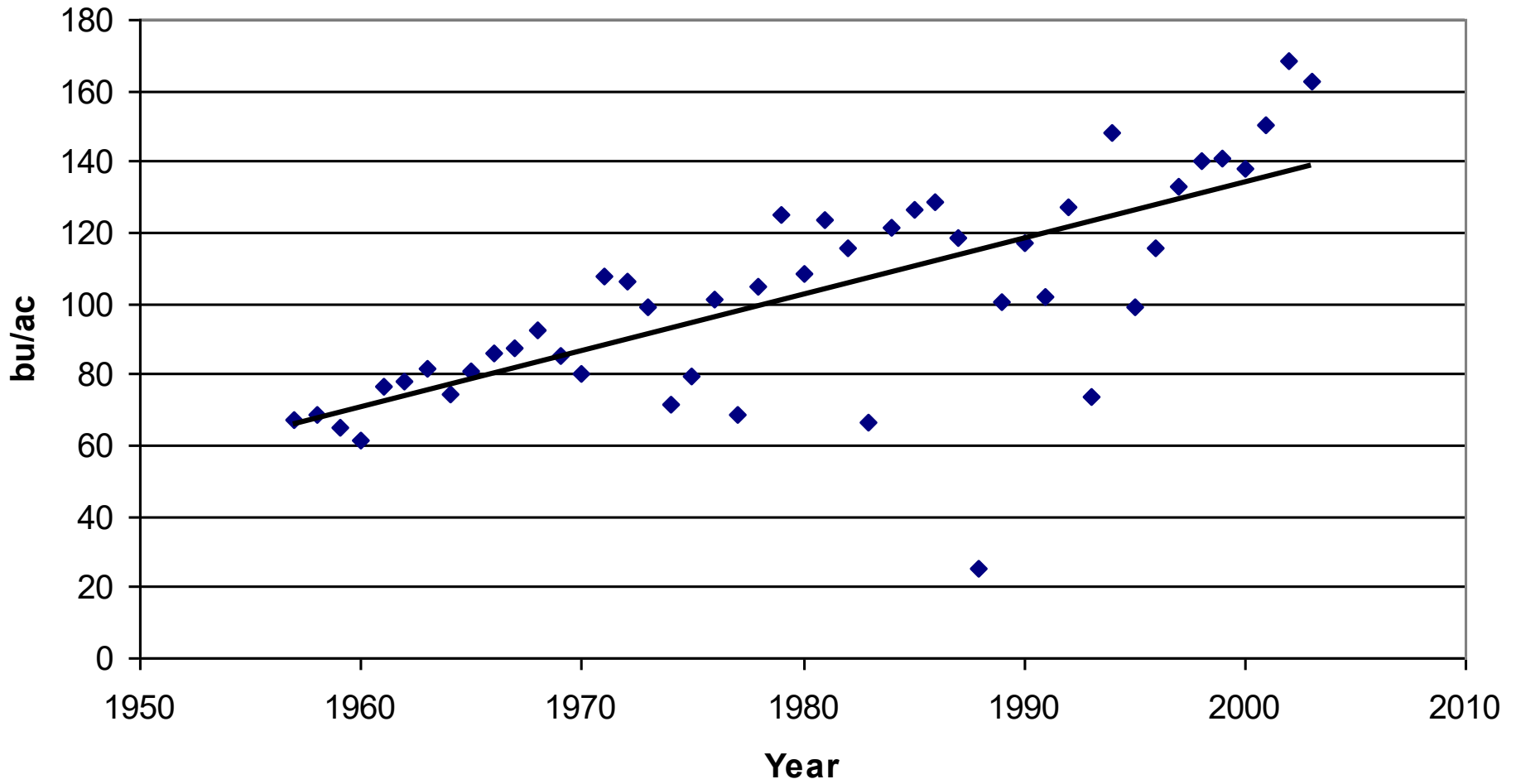
**GRIP and GRIP-HRO in
Iowa County
(Expected Yield = 148 bu/ac)**

Maximum Coverage Per-Acre Total Premium Producer Premium

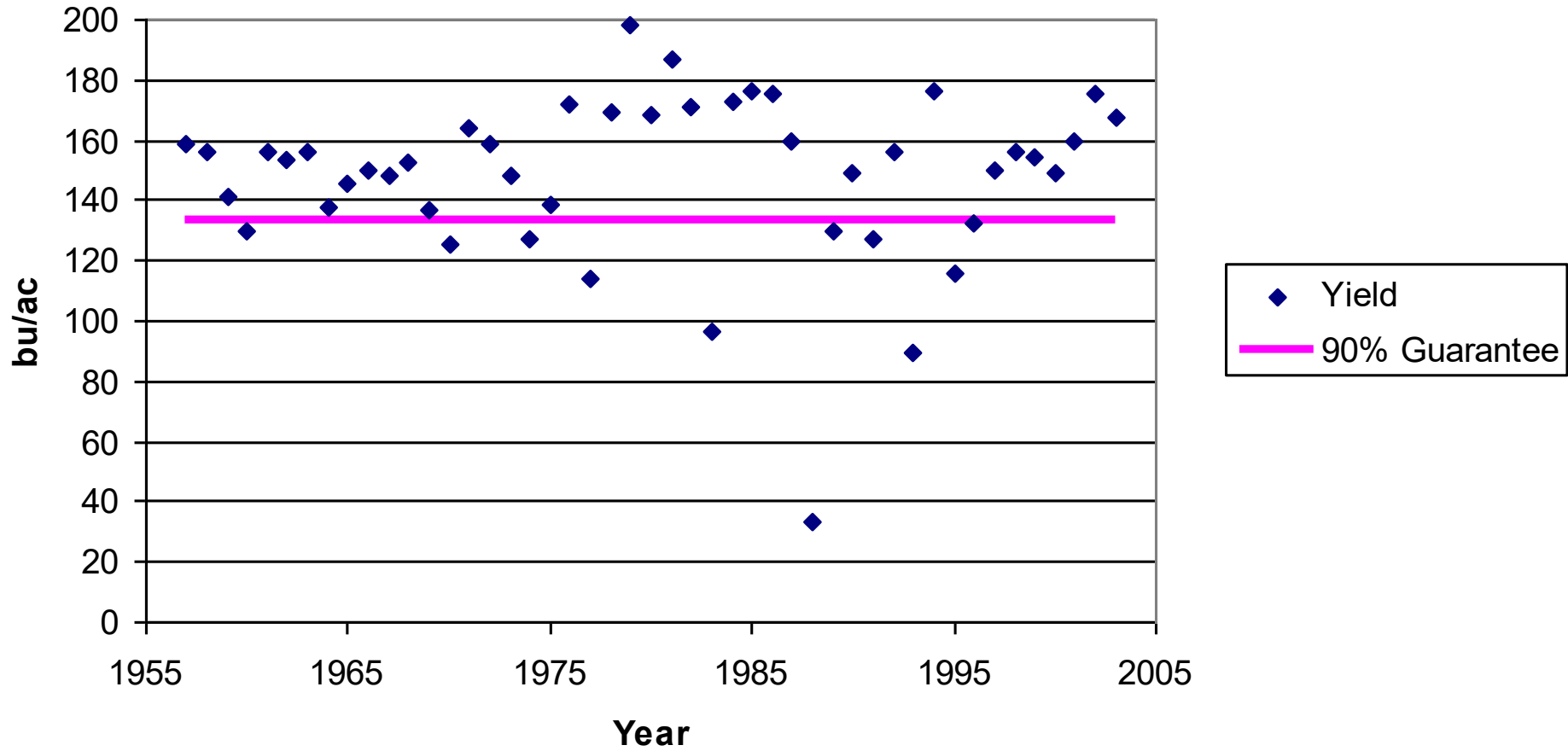
GRIP 533.16 31.08 13.99

GRIP-HRO 533.16 46.22 20.80

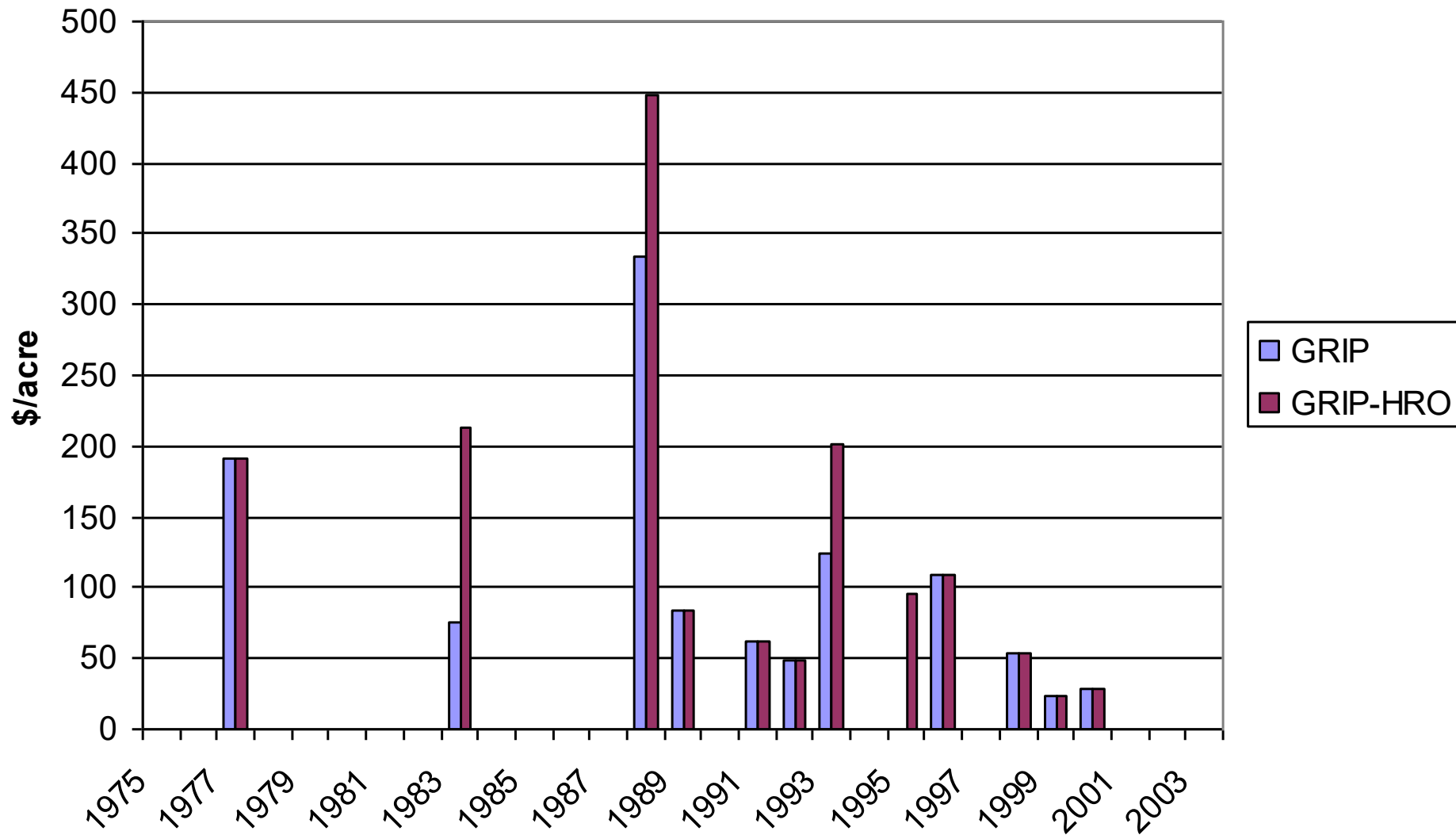
NASS yields and trend for Iowa County, Iowa



When Would Have GRP Paid Out in Iowa County? (Yields Adjusted to a 2005 Technology Basis)



Historical Payouts from GRIP and GRIP-HRO



Payoff from GRIP and GRIP-HRO

- Total payout = 6.7% of liability for GRIP and 9.2% of liability for HRO from 1975 to 2003.
- Premium rate = 5.83% of liability from GRIP and 8.67% of liability from GRIP-HRO.
- Since 1975, rate of return = 15% for GRIP and 6.6% for HRO.

Subsidized rate of return for GRIP and GRIP-HRO

- Producer premium rate = 2.6% and 3.9%.
- 2005 Premium = \$14/acre for GRIP and \$21 for GRIP-HRO
- Historical payback = \$36 and \$49.
- Rater's expected payback = \$31 and \$46.
- Expected return = \$22 or \$17 per acre for GRIP, \$18 or \$15 per acre for HRO.

What about RA?

- Long-run loss ratio in Iowa about 0.70 for individual coverage.
- Premium subsidy rate = 55%.
- Thus for every \$100 in producer premium, farmers should expect to receive back about \$155.
- Or for a \$12 per acre premium, expected return = \$18.60 or \$6.60 per acre.
- For every \$100 in premium for GRIP, should expect to get back \$122 or \$17 per acre. for full coverage.

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