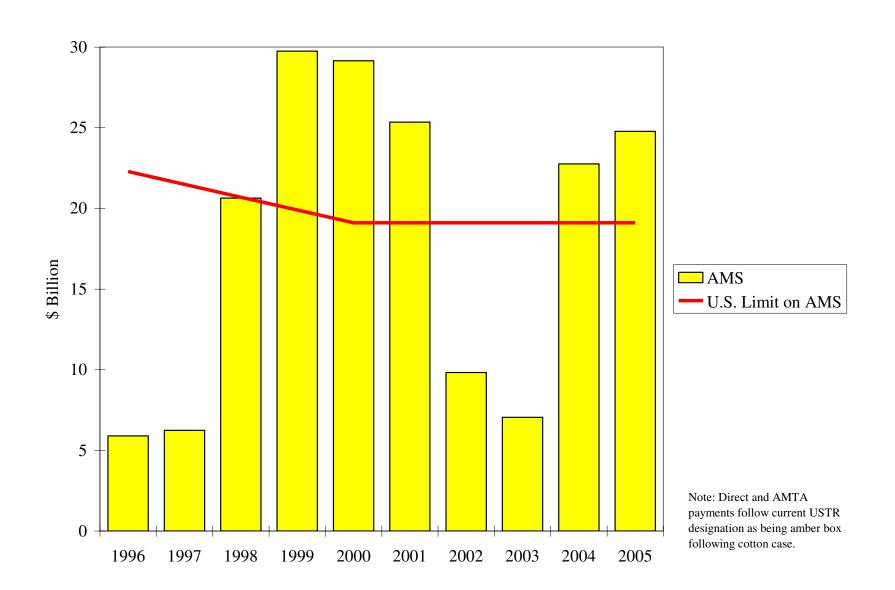
A New Approach to Providing an Agricultural Safety Net

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Iowa State University
Presented at Informa Economics Roundtable Arlington, VA
Jan 25, 2006

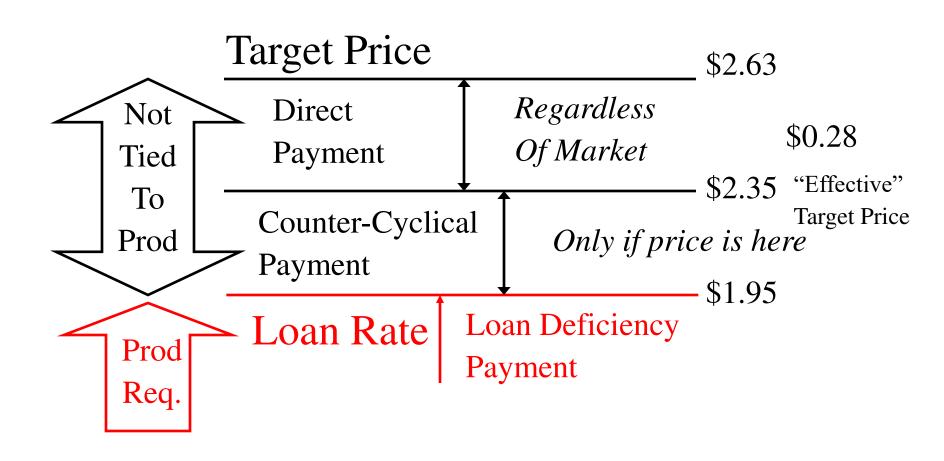
Expenditures on Current Safety Net



US WTO Proposal Would Require Spending Cuts

- Should cuts be made in existing programs?
 - Lower loan rates, effective target prices,
 proportions of production eligible for support
- Should we redesign the US safety net to
 - meet WTO and budget objectives
 - improve the effectiveness of existing program?

Structure of Program Payments for Corn



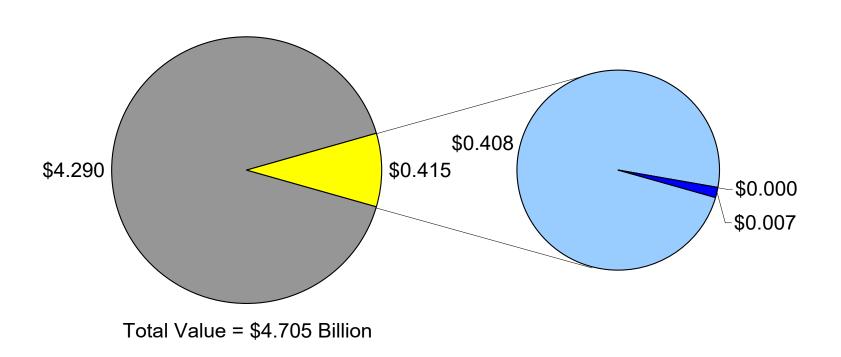
Impact of U.S. WTO Proposal on Current Program

	Current	New	Change	
Corn			absolute	percent
Loan rate	1.95	1.74	-0.21	-11.00%
Target price	2.63	2.45	-0.18	-7.00%
Soybeans				
Loan rate	5.00	4.45	-0.55	-11.00%
Target price	5.80	5.39	-0.41	-7.00%
Wheat				
Loan rate	2.75	2.45	-0.3	-11.00%
Target price	3.92	3.65	-0.27	-7.00%
Cotton				
Loan rate	52.00	46.28	-5.72	-11.00%
Target price	72.40	67.33	-5.07	-7.00%
Rice				
Loan rate	6.50	5.79	-0.72	-11.00%
Target price	10.50	9.77	-0.73	-7.00%
Raw sugar Ioan (\$/Ib)	18.00	15.12	-2.88	-16.00%
Milk support price (\$/cwt)	9.90	8.81	-1.09	-11.00%
Sugar non-NAFTA TRQ (mmt)	1,229	1,984	755	61.50%

Does a Price Safety Net Make Sense?

- High yield, low price: Payment received, but payment will be excessive
- Low yield, high price: No payment received, but cash receipts will likely be down for some farmers
- High yield, high price: No payment needed and no payment received *******
- Low yield, low price: Payment received, but no compensation for low yields

Market Value and Payments to lowa Corn Producers in 2002

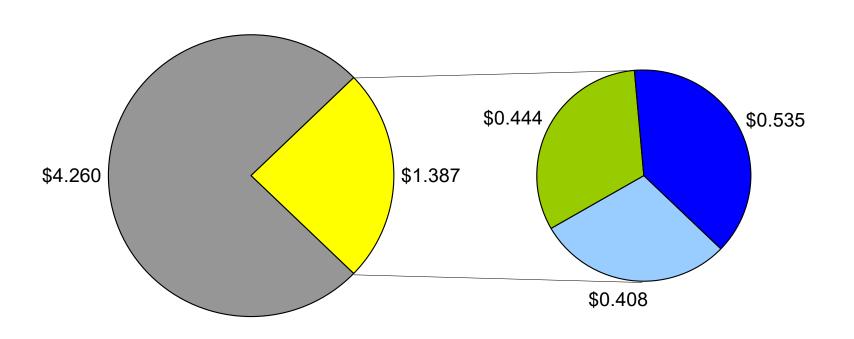


■ Countercyclical Payments
■ Marketing Loan Payments

■ Direct Payments

■ Value of Production

Market Value and Payments to lowa Corn Producers in 2004



■ Countercyclical Payments
■ Marketing Loan Payments

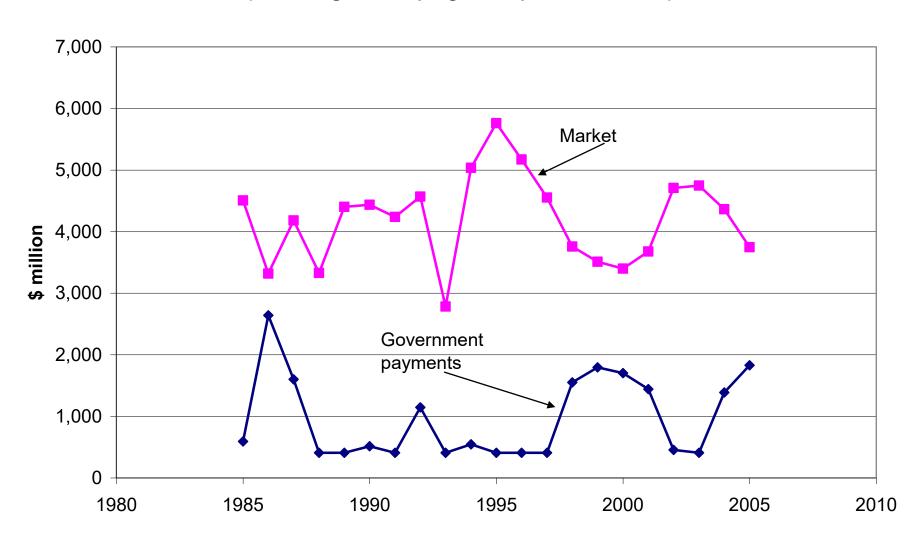
■ Direct Payments

Total Value = \$5.647 Billion

■ Value of Production

When Do Payments Arrive?

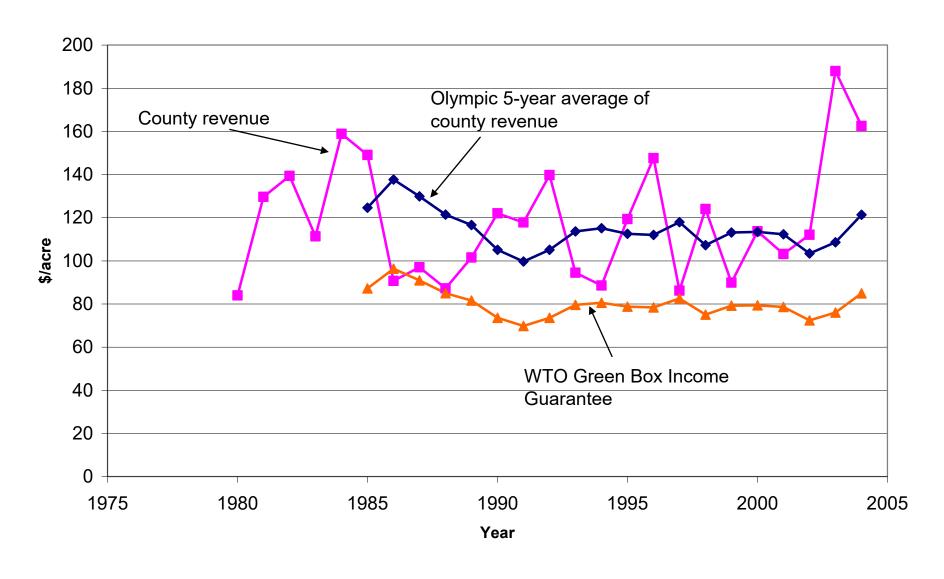
(Assuming current program in place since 1985)



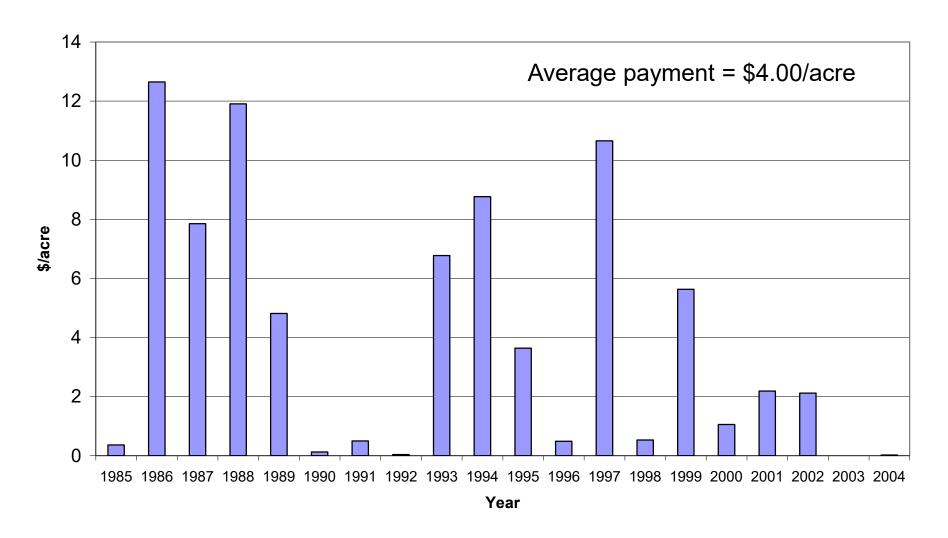
Does a Revenue Safety Net Make Sense?

- High yield, low price: Payment received if revenue is below target revenue *******
- Low yield, high price: Payment received if revenue is below target revenue *******
- High yield, high price: No payment needed and no payment received *******
- Low yield, low price: Payment received, full compensation to target revenue *******

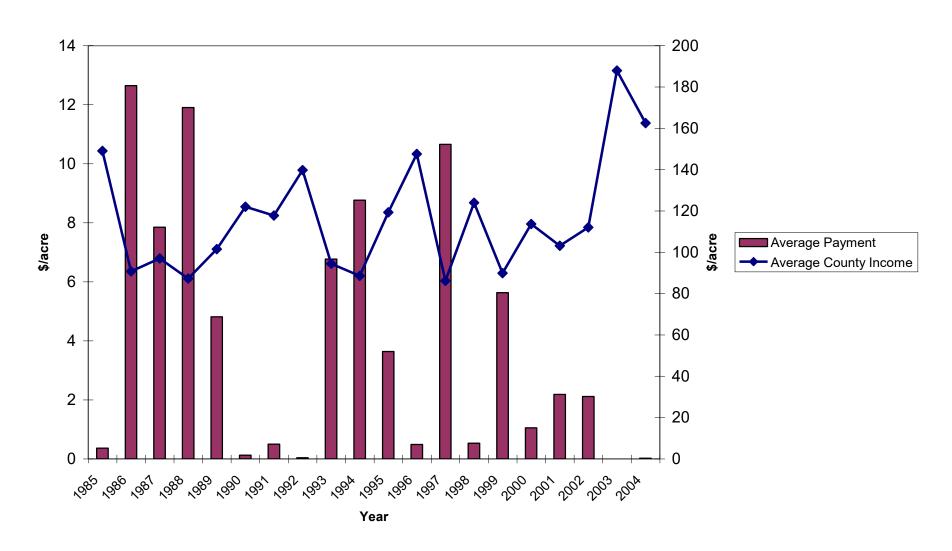
Design of a "Green Box" Income Support Program



Average Payment to Steele County Wheat Producers under a "Green Box" Income Insurance Program



Green Box Support Would Arrive when Steele County Wheat Farmers Need It



New Amber and Blue Box Programs

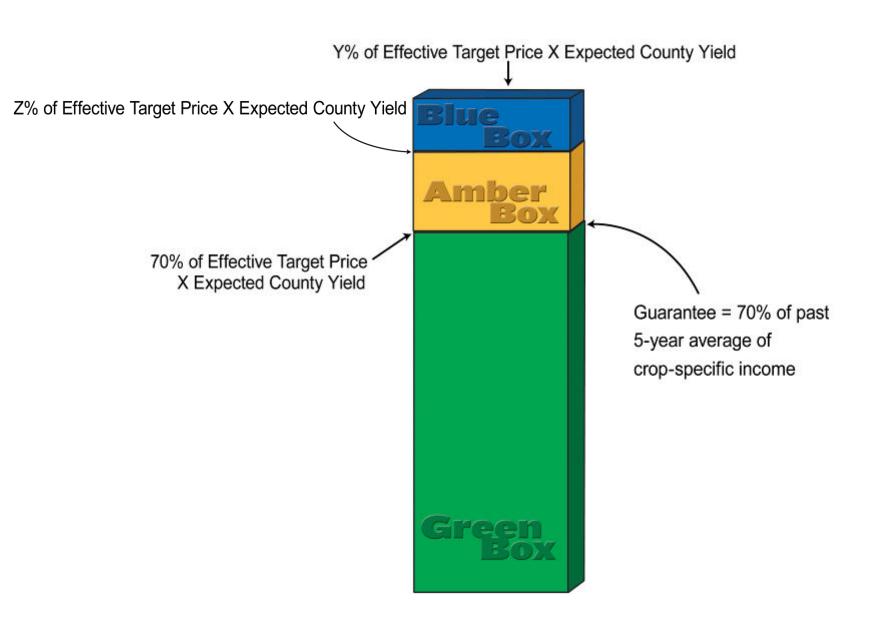
Amber Box

- Define <u>target county revenue</u> as the product of expected county yield and a target price
- Define <u>actual county revenue</u> as the product of county average yield and national season-average price
- Payments flow when actual county revenue is less than <u>amber coverage level</u> times target county revenue guarantee
- Maximum payments reached when actual county revenue falls below 70% of target county revenue
- Payments made on actual farmer-planted acreage

New Amber and Blue Box Programs

Blue Box

- Payments flow when actual county revenue is less than <u>blue coverage level</u> times target county revenue
- Maximum payments reached when actual county revenue falls below the target county revenue times the amber coverage level
- Payments made on fixed base acreage



How Much Safety Under U.S. Proposal?

- Problem: Maximize sum of amber and blue coverage subject to spending limits on amber and blue box under the U.S. proposal
 - Use 1980 2004 data
- Amber box limit of \$7.64 billion
- Blue Box limit of \$5.75 billion
- Dairy gets \$750 million of amber box and \$500 million of blue box
- Sugar gets \$300 million of amber box and \$250 million of blue box
- Account for crop specific amber box limits

What Prices to Use?

Effective Target Prices for 2002 Farm Bill

Wheat - \$3.40/bu

Soy - \$5.36/bu

Peanuts - \$0.2295/lb

Cotton - \$0.6573/lb

Grain sorghum - \$2.22/bu

Corn - \$2.35/bu

Oats - \$1.416/bu

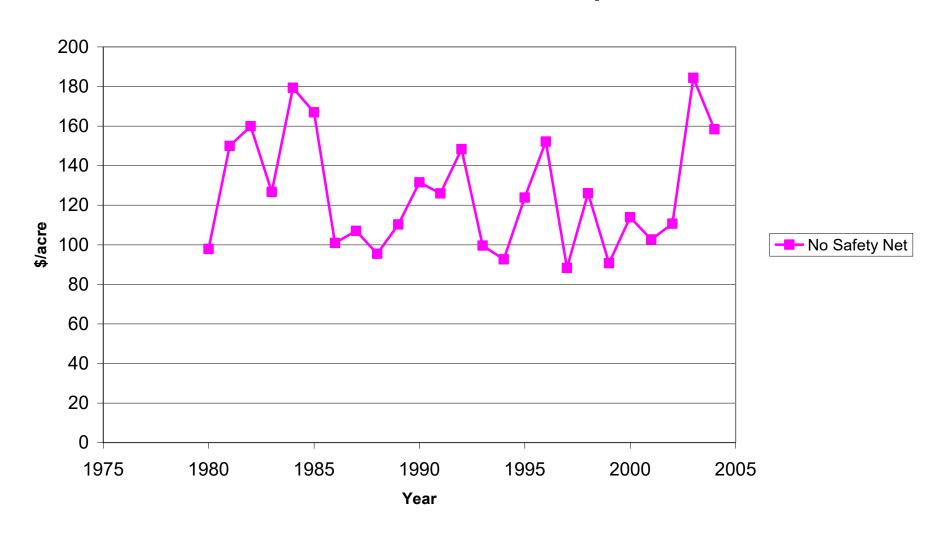
Barley - \$2.00/bu

Rice - \$8.15

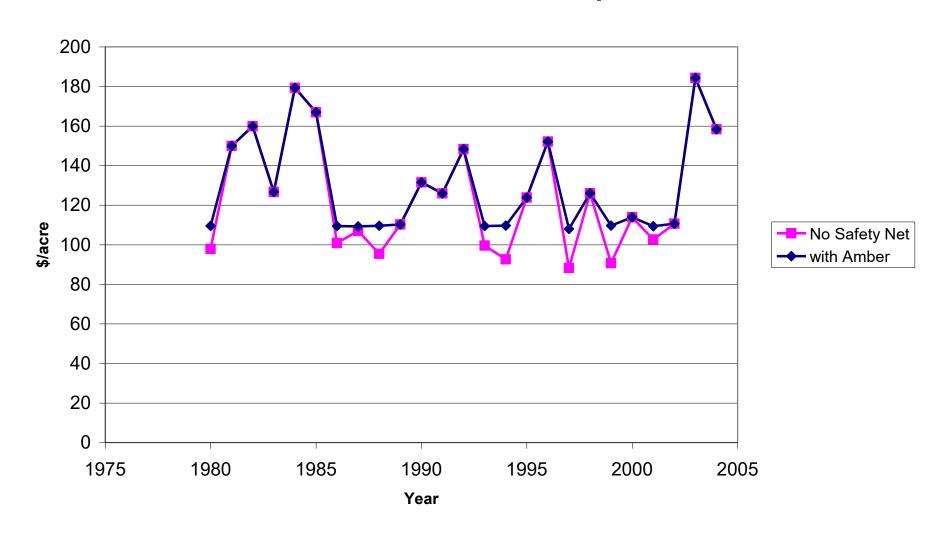
Maximum Safety Levels

- 85% amber box coverage level for all crops and counties
 - crop specific limits start binding
- 95% blue box coverage level
 - aggregate limit begins to bind

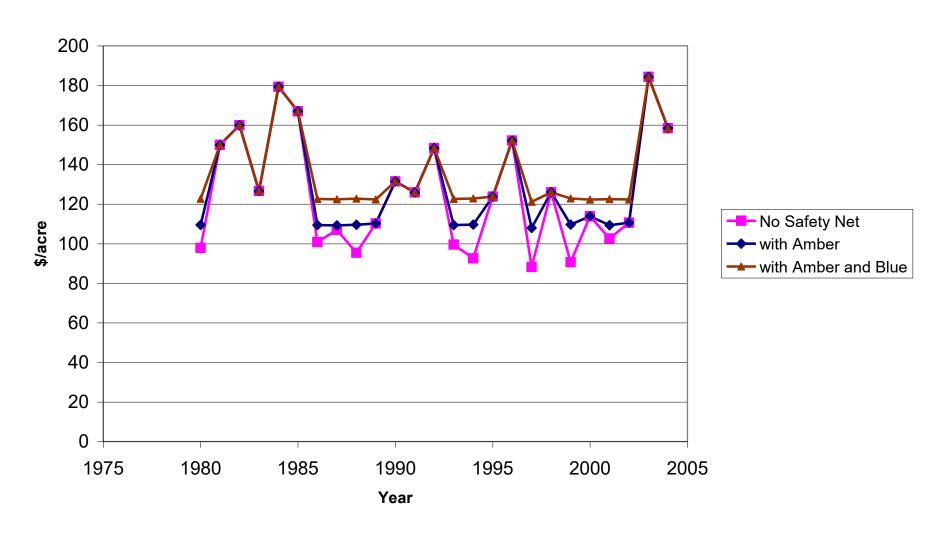
Effect on Steele County Wheat Revenue from New Amber and Blue Box Proposals



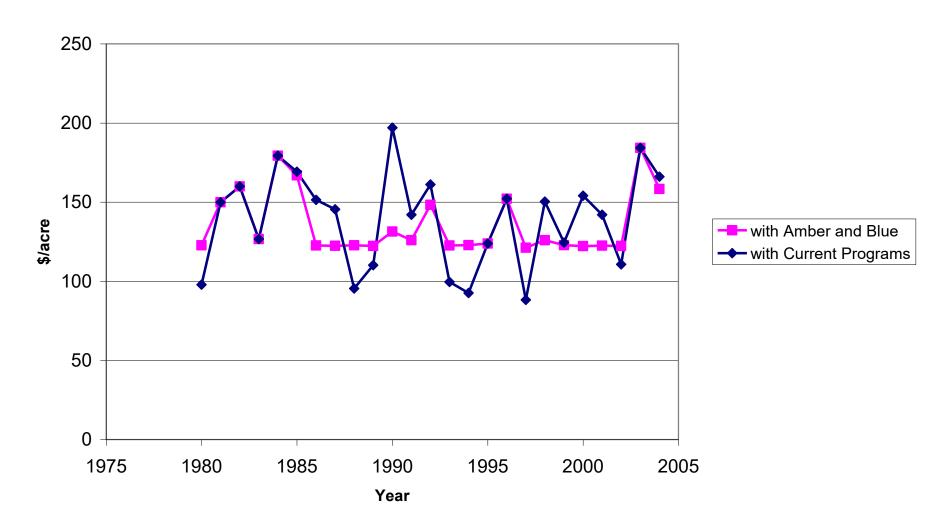
Effect on Steele County Wheat Revenue from New Amber and Blue Box Proposals



Effect on Steele County Wheat Revenue from New Amber and Blue Box Proposals



County Revenue Under Current Programs and New Amber and Blue Box Proposals



Impact of Proposed Programs

- Provides effective safety net within WTO limits as proposed by the U.S.
- Consolidates crop insurance, commodity programs, and disaster aid
- Adopts the target (revenue) that farmers prefer
- Would be a departure from 70 years of supporting prices