

2012 Risk and Profit Conference Breakout Session Presenters

"Knowledge for Life"

# 5. Farm Bill Programs and Crop Insurance: Part 1

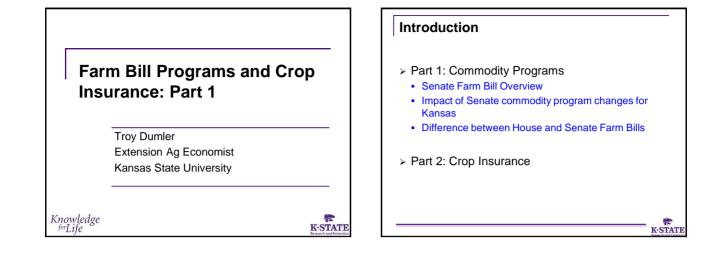
# Troy Dumler

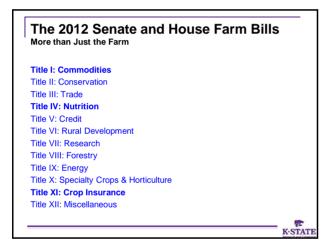
# <tdumler@ksu.edu>

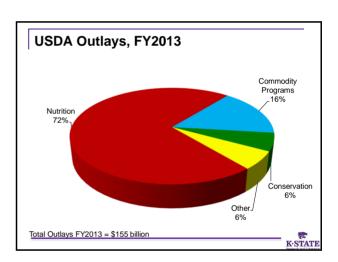
Troy Dumler is a K-State Extension Agricultural Economist in southwest Kansas. A native of Kansas with B.S. and M.S. degrees in agricultural economics from Kansas State University, Troy has developed an Extension program centered on farm management and agricultural policy. In addition to continued work in cropping systems profitability, since the passage of the 2008 Farm Bill, he has focused much of his attention on analyzing how new commodity programs in the bill will impact farmers and ranchers.

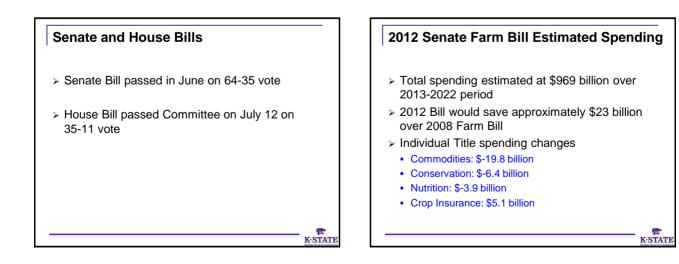
# Abstract/Summary

The debate over the next Farm Bill has intensified in 2012. While opinions have differed among commodity groups and Members of Congress regarding future commodity programs, two things are certain regarding the next Farm Bill: 1) direct payments will be eliminated, and 2) crop insurance will be the backbone of U.S. farm policy. This 2-part session will review recent Farm Bill activity in detail. Part 1 will focus on new commodity program alternatives while Part 2 will discuss current crop insurance proposals.









### 2012 Senate Farm Bill Agriculture Reform, Food and Jobs Act of 2012

- > Title I: Commodities
  - Eliminates Direct Payments, Counter-Cyclical Payments, ACRE, and SURE
  - Establishes Ag Risk Coverage (ARC)
  - Maintains Marketing Loan Program at Current Loan Rates
  - Tightens adjusted gross income eligibility requirements and payment limitations
  - Maintains some Supplemental Disaster Assistance
     Programs

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### **Supplement Disaster Assistance**

- Livestock Indemnity Payments (LIP)
  - Provides payments for livestock death loss due to adverse weather
- Livestock Forage Payments (LFP)
  - Provides payments in the event of drought or fire
  - Eligible coverage includes native or improved pasture
  - Coverage also includes crops planted to provide grazing

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# Livestock Forage Disaster Program (LFP)

- LFP covers grazing losses due to drought, as determined by the intensity level of the U.S. Drought Monitor
  - Payments are calculated at 1, 2, or 3 monthly payments depending on the Drought Monitor intensity rating
- > Monthly Payment Rate = 60% of the lesser of
  - The monthly feed grain equivalent (15.7 lbs/day for adult beef cow)
    - Corn price = higher of 12 or 24 month national average price
  - The monthly feed cost based on normal carrying capacity for the grazing land

### Livestock Forage Disaster Program (LFP)

- Grazing losses due to drought will be determined using the intensity levels of the U.S. Drought Monitor as follows
  - D2 (severe drought): 8 consecutive weeks in any area of the county during the normal grazing period = 1 monthly payment
  - D3 (extreme drought): any area of county at any time during the normal grazing period = 2 monthly payments

## Livestock Forage Disaster Program (LFP)

- > Grazing losses due to drought (cont.)
  - D3 (extreme drought): 4 weeks in any area of the county during the normal grazing period = 3 monthly payments
  - D4 (exceptional drought): any area of county at any time during the normal grazing period = 3 monthly payments

### 2012 Senate Farm Bill Agriculture Reform, Food and Jobs Act of 2012

- Title II: Conservation
  - Consolidates 23 existing conservation programs into four functions
  - Maintains EQIP and CSP
  - Reduces CRP acreage cap from 32 to 25 million acres by 2017
  - Reduces conservation spending by \$6 billion

### 2012 Senate Farm Bill Agriculture Reform, Food and Jobs Act of 2012

- > Title XI: Crop Insurance
  - Creates the Supplemental Coverage Option (SCO) to provide supplemental area coverage to individual insurance policies
  - Makes enterprise units permanent
  - Establishes separate enterprise units for irrigated and non-irrigated crops
  - Creates stand-alone Stacked Income Protection Plan (STAX) revenue program for cotton growers

### Agriculture Risk Coverage (ARC)

- > ARC is a "shallow loss" program that would provide payments if actual revenue is less than 89% of benchmark revenue
- One time choice to select individual farm or county coverage
- > ARC Guarantee

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- Benchmark Revenue = Benchmark Yield x Benchmark Price
- Benchmark Yield = 5-year Olympic Average Yield
- Benchmark Price = 5-year Olympic US Market Year Average Price

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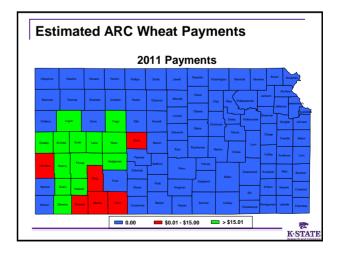
ARC Guarantee = Benchmark Revenue x 89%

# Agriculture Risk Coverage (ARC)

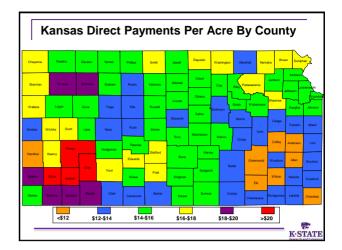
- > Actual Revenue and Payment
  - Actual Revenue = Farm or County Planted Yield x 1<sup>st</sup> 5 months US Market Year Average Price
  - Maximum Payment = 10% of Benchmark Revenue
  - Payment = Min [(ARC Guarantee Actual Revenue) or 10% of Benchmark Revenue] x (65% for individual coverage or 80% for county coverage)

# Senate Payment Limitations ARC has a \$50,000 limitation per person or legal entity Marketing loan program has a \$75,000 limit Tightens requirements to qualify as "actively engaged" to receive payments Tightens AGI eligibility requirements Prohibits payments to person or entity with AGI over \$750,000 Deletes farm/nonfarm distinction

CRD	Benchmark	Benchmark	ARC	Actual	Actual	Actual		Payme
	Price	Yield	Guarantee	Yield	Price	Revenue	Payment	Planted
NW	\$5.68	42.0	\$212.32	41.9	\$7.39	\$309.64	\$0.00	\$0.0
WC	\$5.68	39.3	\$198.67	21.7	\$7.39	\$160.36	\$22.32	\$17.8
SW	\$5.68	37.2	\$188.06	21.7	\$7.39	\$160.36	\$21.13	\$16.9
NC	\$5.68	41.4	\$209.28	38.5	\$7.39	\$284.52	\$0.00	\$0.00
С	\$5.68	40.1	\$202.72	36.9	\$7.39	\$272.69	\$0.00	\$0.00
SC	\$5.68	33.4	\$168.84	29.6	\$7.39	\$218.74	\$0.00	\$0.0
NE	\$5.68	39.3	\$198.67	37.6	\$7.39	\$277.86	\$0.00	\$0.0
EC	\$5.68	31.2	\$157.73	38.1	\$7.39	\$281.56	\$0.00	\$0.00
SE	\$5.68	29.7	\$150.14	34.9	\$7.39	\$257.91	\$0.00	\$0.00



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CRD	Average	Avg Pmt/	Frequency	Avg Claim	Frequency
	Payment	Planted Acre	of Payment	Payment	of Max Pmt
NW	\$3.45	\$2.76	34.4%	\$8.03	63.6%
WC	\$3.65	\$2.92	34.4%	\$8.50	72.7%
SW	\$3.83	\$3.06	34.4%	\$8.90	81.8%
NC	\$2.74	\$2.19	28.1%	\$7.80	55.6%
С	\$2.87	\$2.30	34.4%	\$6.68	45.5%
SC	\$2.14	\$1.71	25.0%	\$6.86	62.5%
NE	\$2.73	\$2.18	31.3%	\$6.98	60.0%
EC	\$3.05	\$2.44	28.1%	\$8.67	66.7%
SE	\$2.73	\$2.18	31.3%	\$6.98	70.0%



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CRD	Benchmark	Benchmark	ARC	Actual	Actual	Actual		Payment/
	Price	Yield	Guarantee	Yield	Price	Revenue	Payment	Planted Ac
NW	\$3.94	72.5	\$254.23	73.7	\$5.97	\$439.99	\$0.00	\$0.00
WC	\$3.94	59.8	\$209.69	51.8	\$5.97	\$309.25	\$0.00	\$0.00
SW	\$3.94	39.4	\$138.16	10.3	\$5.97	\$61.49	\$15.52	\$12.42
NC	\$3.94	98.8	\$346.45	96	\$5.97	\$573.12	\$0.00	\$0.00
С	\$3.94	78.9	\$276.67	17.2	\$5.97	\$102.68	\$31.09	\$24.87
SC	\$3.94	79.0	\$277.02	6.4	\$5.97	\$38.21	\$31.13	\$24.90
NE	\$3.94	118.7	\$416.24	126	\$5.97	\$752.22	\$0.00	\$0.00
EC	\$3.94	95.7	\$335.58	45.3	\$5.97	\$270.44	\$37.71	\$30.17
SE	\$3.94	96.8	\$339.44	24.4	\$5.97	\$145.67	\$38.14	\$30.51
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# Estimated ARC Payments for Non-irrigated Corn in Kansas (1980-2011)

CRD	Average	Avg Pmt/	Frequency	Avg Claim	Frequency
	Payment	Planted Acre	of Payment	Payment	of Max Pmt
NW	\$3.58	\$2.87	28.1%	\$10.19	88.9%
WC	\$3.04	\$2.43	28.1%	\$8.65	77.8%
SW	\$3.41	\$2.73	37.5%	\$7.27	75.0%
NC	\$3.93	\$3.14	31.3%	\$10.05	90.0%
С	\$2.82	\$2.25	28.1%	\$8.01	88.9%
SC	\$3.30	\$2.64	31.3%	\$8.44	80.0%
NE	\$4.60	\$3.68	31.3%	\$11.77	60.0%
EC	\$5.38	\$4.31	37.5%	\$11.49	66.7%
SE	\$3.40	\$2.72	25.0%	\$10.86	75.0%
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CRD	Benchmark	Benchmark	ARC	Actual	Actual	Actual		Paymen
	Price	Yield	Guarantee	Yield	Price	Revenue	Payment	Planted /
NW	\$3.94	181.8	\$637.50	173.6	\$5.97	\$1,036.39	\$0.00	\$0.00
WC	\$3.94	170.9	\$599.28	163.7	\$5.97	\$977.29	\$0.00	\$0.00
SW	\$3.94	190.8	\$669.06	135.3	\$5.97	\$807.74	\$0.00	\$0.00
NC	\$3.94	168.3	\$590.16	162	\$5.97	\$967.14	\$0.00	\$0.00
С	\$3.94	169.0	\$592.62	136.9	\$5.97	\$817.29	\$0.00	\$0.00
SC	\$3.94	168.6	\$591.21	131.7	\$5.97	\$786.25	\$0.00	\$0.00
NE	\$3.94	165.7	\$581.05	163.6	\$5.97	\$976.69	\$0.00	\$0.00
EC	\$3.94	158.0	\$554.04	150	\$5.97	\$895.50	\$0.00	\$0.00
SE	\$3.94	132.8	\$465.67	92.2	\$5.97	\$550.43	\$0.00	\$0.00

### **Estimated ARC Payments for Irrigated** Corn in Kansas (1980-2011) CRD Average Avg Pmt/ Frequency Avg Claim Frequency of Max Pmt Payment Payment Planted Acre of Payment \$20.70 NW \$4.04 60.0% \$3.24 15.6% WC \$2.79 \$2.24 15.6% \$14.31 20.0% SW \$4.99 \$4.00 18.8% \$21.31 16.7% NC \$4.33 \$3.46 18.8% \$18.46 16.7% С \$3.52 \$2.82 12.5% \$22.55 75.0% SC \$4.42 15.6% \$22.63 20.0% \$3.54

15.6%

21.9%

28.1%

\$17.28

\$13.16

\$9.69

40.0%

28.6%

33.3%

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\$2.70

\$2.88

\$2.73

NE

EC

SE

\$3.37

\$3.60

\$3.41

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CRD	Benchmark	Benchmark	ARC	Actual	Actual	Actual		Payment/
	Price	Yield	Guarantee	Yield	Price	Revenue	Payment	Planted Ac
NW	\$3.53	73.3	\$230.29	70.0	\$5.96	\$417.20	\$0.00	\$0.00
WC	\$3.53	69.1	\$217.09	38.1	\$5.96	\$227.08	\$0.00	\$0.00
SW	\$3.53	59.9	\$188.19	13.8	\$5.96	\$82.06	\$21.15	\$16.92
NC	\$3.53	90.2	\$283.38	92.3	\$5.96	\$550.26	\$0.00	\$0.00
С	\$3.53	80.5	\$252.91	43.1	\$5.96	\$257.15	\$0.00	\$0.00
SC	\$3.53	67.7	\$212.69	16.4	\$5.96	\$97.97	\$23.90	\$19.12
NE	\$3.53	90.1	\$283.06	88.0	\$5.96	\$524.48	\$0.00	\$0.00
EC	\$3.53	62.0	\$194.79	41.5	\$5.96	\$247.34	\$0.00	\$0.00
SE	\$3.53	67.2	\$211.13	23.8	\$5.96	\$141.96	\$23.72	\$18.98
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-			(1980-20	,	
CRD	Average	Avg Pmt/	Frequency	Avg Claim	Frequency
	Payment	Planted Acre	of Payment	Payment	of Max Prr
NW	\$2.41	\$1.93	21.9%	\$8.82	85.7%
WC	\$2.63	\$2.10	25.0%	\$8.41	62.5%
SW	\$3.36	\$2.69	34.4%	\$7.82	36.4%
NC	\$3.40	\$2.72	28.1%	\$9.68	88.9%
С	\$3.19	\$2.55	31.3%	\$8.16	60.0%
SC	\$3.09	\$2.47	21.9%	\$11.31	85.7%
NE	\$3.55	\$2.84	28.1%	\$10.09	55.6%
EC	\$2.84	\$2.27	28.1%	\$8.09	44.4%
SE	\$2.79	\$2.24	21.9%	\$10.22	71.4%

CRD	Benchmark	Benchmark	ARC	Actual	Actual	Actual		Paymen
	Price	Yield	Guarantee	Yield	Price	Revenue	Payment	Planted /
NW	\$9.89	41.0	\$360.89	36.9	\$11.80	\$435.98	\$0.00	\$0.00
WC	\$9.89	32.7	\$287.83	22.9	\$11.80	\$270.16	\$17.67	\$14.14
SW	\$9.89	50.3	\$442.75	40.4	\$11.80	\$476.47	\$0.00	\$0.00
NC	\$9.89	39.2	\$345.04	38.5	\$11.80	\$453.78	\$0.00	\$0.00
С	\$9.89	33.1	\$291.35	14.5	\$11.80	\$171.10	\$32.74	\$26.19
SC	\$9.89	37.2	\$327.44	18.5	\$11.80	\$218.84	\$36.79	\$29.43
NE	\$9.89	40.7	\$358.24	43.6	\$11.80	\$514.75	\$0.00	\$0.00
EC	\$9.89	29.2	\$257.02	18.6	\$11.80	\$219.12	\$28.88	\$23.10
SE	\$9.89	27.1	\$238.54	11.5	\$11.80	\$135.66	\$26.80	\$21.44

Estimated ARC Payments for Soybeans	
in Kansas (1980-2011)	

CRD	Average	Avg Pmt/	Frequency	Avg Claim	Frequency
	Payment	Planted Acre	of Payment	Payment	of Max Pmt
NW	\$4.37	\$3.50	28.1%	\$12.43	22.2%
WC	\$5.40	\$4.32	31.3%	\$13.82	50.0%
SW	\$0.94	\$0.75	9.4%	\$8.03	0.0%
NC	\$3.67	\$2.94	28.1%	\$10.44	33.3%
С	\$4.12	\$3.29	21.9%	\$15.05	57.1%
SC	\$4.08	\$3.26	15.6%	\$20.87	80.0%
NE	\$4.85	\$3.88	28.1%	\$13.79	77.8%
EC	\$5.46	\$4.37	34.4%	\$12.70	81.8%
SE	\$4.45	\$3.56	37.5%	\$9.49	75.0%
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District	Wheat	Non-irrigated Corn	Irrigated Corn	Grain Sorghum	Soybeans
NW	2,619	2,188	873	2,415	1,541
WC	2,800	2,653	928	2,563	1,933
SW	2,958	4,027	831	2,955	1,256
NC	2,657	1,605	943	1,963	1,612
С	2,744	2,010	939	2,199	1,909
SC	3,295	2,008	941	2,615	1,699
NE	2,800	1,336	957	1,965	1,553
EC	3,527	1,657	1,004	2,855	2,164
SE	3,705	1,639	1,195	2,635	2,332

Some implications if Senate Committee
bill were adopted

- Based on still-unpublished preliminary FAPRI-MU estimates
  - Average payments under ARC and STAX would be less than programs they replace
  - Reductions are larger for some crops (e.g., rice) than others (e.g., corn), and soybeans payments could actually increase
  - ARC payments average about 2% of the value of production
  - ARC payments would be variable, much like crop insurance
  - ARC and crop insurance are imperfectly complementary

Source: Pat Westhoff, FAPRI

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### Supplemental Coverage Option (SCO)

- New coverage option based on individual yield and loss basis, supplemented with coverage based on an area yield and loss basis that covers part of the deductible under the individual policy
  - Triggers only if losses in the area exceed 10% of normal levels
    Includes a deductible of 21% of the expected value of the crop
  - Includes a deductible of 21% of the expected value of the crop under the underlying insurance policy for producers in ARC

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Provides a 70% premium subsidy

### 2012 House Farm Bill Estimated Spending

> 2012 Bill would save approximately \$35 billion over 2008 Farm Bill

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- > Individual Title spending changes
  - Commodities: \$-23.6 billion
  - Conservation: \$-6.1 billion
  - Nutrition: \$-16.1 billion
  - Crop Insurance: \$9.5 billion

### **House Commodity Programs**

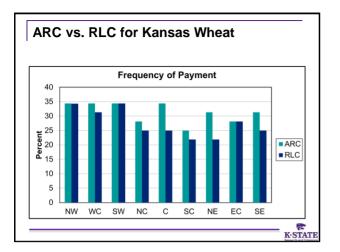
- > Price Loss Coverage (PLC)
  - Optional program with fixed target (reference) prices
  - Allows producers opportunity to update yields (90% of 2008-2012 yields)
  - Payments on 85% of planted acres up to total farm base acres
- > Revenue Loss Coverage (RLC)
  - Optional program similar to ARC in Senate Bill
  - Coverage only at county level
  - Payments on 85% of planted acres up to total farm base acres



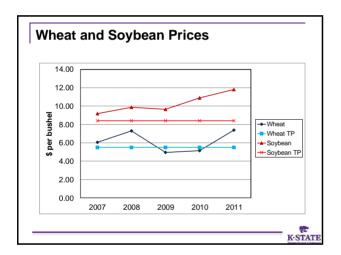
### **Revenue Loss Coverage (RLC)**

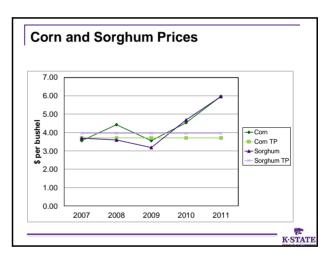
- > Actual Revenue and Payment
  - Actual Revenue = County Planted Yield x 1<sup>st</sup> 5 months US Market Year Average Price
  - Maximum Payment = 10% of Benchmark Revenue
  - Payment = Min [(ARC Guarantee Actual Revenue) or 10% of Benchmark Revenue] x 85%

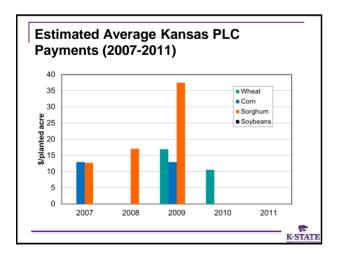
ARC vs. RLC for Wheat 201 ARC (Senate) RLC (House) ARC (Senate) RLC (House) NW \$0.00 \$0.00 \$2.77 \$3.45 wc \$17.86 \$18.97 \$3.65 \$3.27 SW \$16.90 \$16.36 \$3.83 \$3.44 NC \$0.00 \$0.00 \$2.74 \$2.14 С \$0.00 \$0.00 \$2.87 \$1.82 SC \$0.00 \$0.00 \$2.14 \$1.74 NE \$0.00 \$0.00 \$2.73 \$2.19 EC \$0.00 \$0.00 \$3.05 \$2.65 SE \$0.00 \$0.00 \$2.32 \$2.73 KISTATE

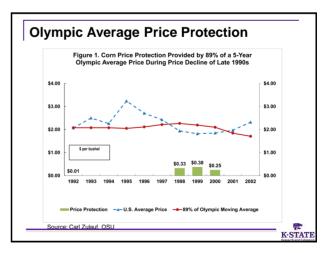


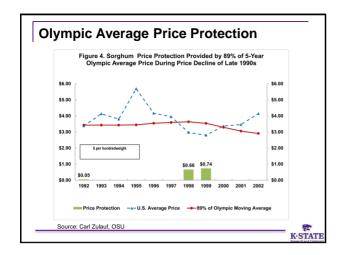
Сгор	2008 Farm Bill Effective Target Price	2012 House Proposed Target Price	MYA Price 2007-2011
Wheat	\$3.65	\$5.50	\$6.22
Corn	\$2.35	\$3.70	\$4.62
Sorghum	\$2.28	\$3.95	\$4.30
Soybeans	\$5.56	\$8.40	\$10.65

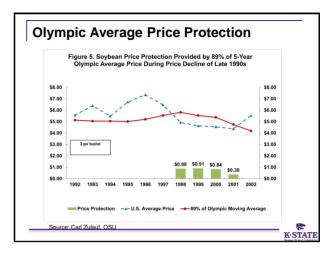


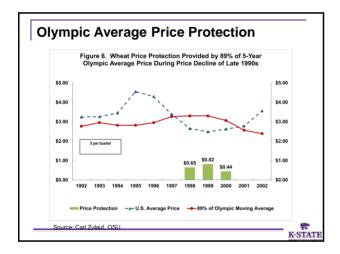


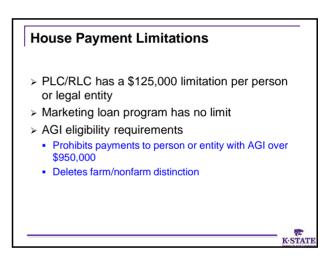


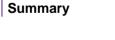












- > Will there be a new Farm Bill? If so, when?
- > What options will be included in the new bill?
  - Price and Revenue programs
  - Individual and area options for revenue programs
  - Supplemental insurance options with commodity programs

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Impact of payment limitations

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