

2013 Risk and Profit Conference

Breakout Session Presenters

"Knowledge for Life"

10. The Farm Bill and Crop Insurance

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Dr. Art Barnaby was raised on a diversified farm, located in Elk County, Kansas. Art received his B.S. degree from Fort Hays State University, M.S. from New Mexico State University and a Ph.D. in Agricultural Economics from Texas A&M University. Art joined the Agricultural Economics faculty in 1979. He currently holds the rank of Professor.Art conducts national extension education programs on market risk, government commodity programs, crop insurance and public policy. Art was 1 of 30 people who were named on Top Producer Editors' list of "Brave Thinkers: 30 Leaders Who Made a Difference" and on their list of "7 Economists, Bankers Who Challenged the Status Quo". He has authored several research projects on crop insurance issues and their impacts on farmers. His research work with the private sector was the basis for the first revenue insurance contract. Art is an author on the KSU Risk Management page on www.agmanager.info. Art is a past winner of the Excellence in Extension Award that included a \$5,000 honorarium presented by the National Association of Public and Land Grant Universities. He is also a three time winner of the American Agricultural Economics Association Distinguished Extension Program Award. Art is a frequent speaker at professional, farmer-producer, ag lender, and insurance industry meetings. Art's wife, Nancy, holds a B.S. degree from Fort Hays State University in Nursing. Art and Nancy have two sons and two granddaughters.

Abstract/Summary

In August of 2012, some analysts were forecasting crop insurance claims of nearly \$40 billion. Those overstated insurance claim forecasts set the stage for a "no ad hoc' disaster aid policy in 2012". The press ran with the story and made it appear that most farmers had record profits and received "big" insurance checks. Citing national aggregated profit and crop insurance data provided a very incomplete picture. Individual farmers with record profits had good yields, but no crop insurance claims! Farmers receiving insurance checks may have had an "average" year, but most farmers still needed a 20% yield loss or more to collect insurance payments. Some had a 19% yield loss and collected nothing. The only exception would have been those farmers with the county based GRIP or GRIPH coverage that does not require a farm level loss. Crop insurance critics claim that elimination of the harvest price would provide all of the coverage farmers "need" and reduce the taxpayer cost for crop insurance. It is true lowering the coverage in crop insurance by eliminating the harvest price will lower taxpayer costs. An alternative of eliminating 85% and 80% coverage and retaining the harvest price would also lower the coverage and lower taxpayers' costs. However, eliminating the 85% and 80% coverage would have very little impact on Great Plains dryland farmers because very few dryland farmers buy 85% or 80% coverage. The impact of this cut would be on the irrigated and Corn Belt farmers where they do buy higher coverages. On average lowa farmers buy coverage that is 13 points higher than in Kansas, but the average premium rate in Kansas is two to two and half times more than in Iowa.

Eliminating the harvest price would have a greater effect on Corn Belt farmers because of the stronger negative price yield correlation on corn. Without the harvest price, lowa farmers would have received reduced or in many cases no indemnity payments for the 2012 drought. What is the point in having insurance, even cheap insurance, if does not pay when the insured has a loss? Is it believable that policy makers would have retained a "no ad hoc disaster policy", without those lowa corn farmers collecting crop insurance payments in an election year? All farmer marketing plans, including cash sales and selling grain out of storage, assume production. The harvest price replaces indemnity bushels at their current market value and maintains the hedge or provides replacement bushels for cash sales. If an uninsured hedged farmer has a crop failure, what is the difference between this farmer and a short Chicago spec trader? The answer is nothing. How much would be saved by elimination of the harvest price is a hotly debated topic. In order for the elimination of the harvest price to reduce taxpayer's costs, it requires a significant price increase combined with a significant yield loss. There have been 2 out of the last 21 years that met both conditions on corn and 2012 was one of those years. Reduction in harvest price subsidy is only one of many ways to reduce the taxpayers' costs. This presentation will cover alternatives and consequences caused by reduced taxpayer support for crop insurance.

The Farm Bill and Crop Insurance



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Alternative Methods to Reduce Taxpayer Cost for Crop Insurance

- Headlines claim 2012 crop insurance will cost taxpayers \$30 to \$40 billion! Laughing all the way to the bank with over paid claims!
- 2. Replace crop insurance with a "free" disaster program;
- 3. Or "Free Market"; eliminate all safety net programs and layoff all FSA and RMA employees.
- 4. Farm Bill interest groups include farmers, ag. lenders, Farm Credit (agent), Grain Companies, RMA employees, FSA employees, crop insurance agents, AIPs, EWG, RMA consultants, food stamp supporters, Land Grant Universities, others, and taxpayers.
- 5. Many analysts doubt that current institutional constraints would allow either policy extreme.

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Farm Bill Changes to Crop Insurance

- 1. Catastrophic Risk Protection (CAT) premium reduction that is 100% subsidy to "reduce" Farm Bill cost
- 2. Enterprise units for irrigated and non-irrigated crops in the same county
- 3. Secretary shall use county data collected by the Risk Management Agency or the National Agricultural Statistics Service, or both for area plans
- 4. If the Farm Service Agency determines any producer's average adjusted gross income is over \$750,000; the producer's share of the crop insurance premium will increase 15 percentage points. Does not apply to CAT. \$250K AGI limit voted down in the House.
- 5. Increase the yield plug from 60% to 70% of T yield.

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FSA Free "Puts", Price loss coverage payments if price is less than reference price (House)

Strike Prices

- 1. Wheat, \$5.50 per bushel
- 2. Corn, \$3.70 per bushel
- 3. Grain sorghum, \$3.95 per bushel
- 4. Soybeans, \$8.40 per bushel
- 5. Other oilseeds, \$20.15 per hundred weight
- 6. Barley, \$4.95 per bushel
- 7. Oats, \$2.40 per bushel
- 8. Long grain rice, \$14.00 per hundred weight
- 9. Medium grain rice, \$14.00 per hundred weight
- 10. Peanuts \$535.00 per ton
- 11. Dry peas, \$11.00 per hundredweight
- 12. Lentils, \$19.97 per hundredweight
- 13. Small chickpeas, \$19.04 per hundred weight
- 14. Large chickpeas, \$21.54 per hundred weight

Nonrecourse Marketing Loan Rates (House)

Strike Prices Wheat, \$2,94 per bushel 1. Corn, \$1.95 per bushel 2 Grain sorghum, \$1.95 per bushel 3 Soybeans, \$5.00 per bushel 4. Other oilseeds, \$10.09 per hundredweight 5 Barley, \$1,95 per bushel 6 Oats, \$1.39 per bushel 7 Upland cotton, simple average world price, s.t. Min 47 cent; max 52 cents/lb 8. Extra long staple cotton, \$0.7977 per pound 9 Long grain rice, \$6.50 per hundred weight 10 Medium grain rice, \$6.50 per hundred weight 11 Dry peas, \$5.40 per hundred weight 12 Lentils, \$11.28 per hundred weight 13 Small chickpeas, \$7.43 per hundredweight 14 Large chickpeas, \$11.28 per hundredweight 15 Graded wool, \$1.15 per pound 16 Case of non-graded wool, \$0.40 per pound 17 Case of mohair, \$4.20 per pound 18 Honey, \$0.69 per pound 19 Peanuts, \$355 per ton 20 8/16/2013 4B Ag Consultants & Kansas State University, Copyright 2012, All Rights Reserved 5

FSA Free "Puts", Price Loss Coverage Payments if price is less than reference price (House)

What do you do with this out of the money put?

This new Loss Coverage Payment is effectively an out of the money put that farmers may want to sell.

Expected to cover 85% of the base acres but only on the crop planted.

Payment limits, number of acres covered, strike price relative to market and also crop insurance strike prices will determine if it makes sense to sell options covered by FSA and crop insurance.

If one has not lost money trading options, then one is not ready to sell covered puts. RAM-MAST will give one the tools to start.

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2013 West-Central Kansas Irrigated Corn Premiums 180 APH/185 Trend Yield, 500 Acres Enterprise Unit

	AF	PH Corn	185	\$5.65	Price Ele	ction	0.20	Volatility
% Coverage	50%	55%	60%	65%	70%	75%	80%	85%
Coverage	523	575	627	680	732	784	836	889
Farmer Paid								
YP	1.97	2.61	3.39	4.49	5.93	8.59	14.69	26.92
RP-HPE	1.60	2.10	2.74	3.81	5.40	8.56	15.88	29.72
RP	2.34	3.29	4.42	6.03	8.18	12.51	22.44	41.18
% Increase Prem								
from YP to RP	18.8%	26.1%	30.4%	34.3%	37.9%	45.6%	52.8%	53.0%
% Increase Prem								
from RP-HPE to								
RP	46.3%	56.7%	61.3%	<u>58.3%</u>	51.5%	46.1%	41.3%	<u>38.6%</u>
Yield/bu.	0.021	0.026	0.031	0.037	0.046	0.062	0.099	0.171
"Put"/Cents bu.	(0.004)	(0.005)	(0.006)	(0.006)	(0.004)	(<u>0.000)</u>	0.008	0.018
"Call"/Cents bu.	0.008	0.012	0.015	0.018	0.021	0.028	0.044	0.073

2013 West-Central Kansas Irrigated Corn Premiums 180 APH/185 Trend Yield, 500 Acres Enterprise Unit Change in Volatility

	A	PH Corn	185	\$5.65	Price Ele	ction	0.20	Volatility
% Coverage	50%	55%	60%	65%	70%	75%	80%	85%
Coverage Farmer Paid	523	575	627	680	732	784	836	889
RP 0.20 Volatility	2.34	3.29	4.42	6.03	8.18	12.51	22.44	41.18
RP 0.30 Volatility	2.69	3.78	5.20	7.28	9.86	14.90	26.79	49.04
% increase Prem	15.0%	14.9%	17.6%	20.7%	20.5%	19.1%	19.4%	19.1%
RP 0.18 Volatility	2.11	2.82	3.73	5.03	6.84	10.52	19.24	35.78
% decrease Prem	(9.8%)	(14.3%)	(15.6%)	(16.6%)	(16.4%)	(15.9%)	(14.3%)	(13.1%)



Cheap Puts

- 1. The Yield Adjusted Asian (YAA) put in RP is cheap.
- 2. 2012 & 2013 RP Premiums were lower because of base rate cuts, lower strike price, and a volatility decline from 0.29 to 0.23 and 0.20 for 2013.
- Lower volatility lowers the return from selling covered puts. 4.
- Sell covered options on limit orders only because the out of 5. the money market is thin.
- Don't assume lower premium is the only objective. If one 6. buys higher levels of coverage and trend yield they will have more low cost YAA puts and more guaranteed bushels at replacement values.



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Percent Corn Price Change by State Loss Ratio by Year % Price

Year Change IL IN IA MN MI OH MS OK KS NE тχ 2010 38.3% .64 .33 .70 .09 .52 .25 .18 2.09 .24 .24 .32 2006 37.5% .10 .20 .21 .30 .15 .18 .97 .78 1.07 .47 .84 2012 32.0% 6.02 4.75 2.76 .36 1.41 1.92 .74 1.95 3.26 2.77 .55 2008 (30,7%) .60 1.11 1.13 .70 .88 1.52 .65 .67 .59 .52 1.02 .62 1.22 .86 .31 2004 (29.7%) .35 .66 .23 .25 .76 .41 38 1995 27.7% .85 1.13 .98 .21 .10 1.07 .67 .28 1.09 1.08 .99 1998 (22,9%) .51 .91 .58 .11 .62 .39 1.45 1.60 .15 .27 3.62 1992 (21.7%) .22 .40 .17 1.05 3.25 .42 1.54 .31 2.23 1.59 .90 1994 (19,5%) .07 .19 .09 .58 .22 1.05 .50 .59 .05 2.03 .35 1999 (18,5%) .43 .80 .32 .15 .23 1.23 .70 3.58 .49 .32 .63 2005 (16.8%) 1.13 .33 .31 .19 .71 .29 .55 .32 1.40 .20 .37 2001 (16.7%) .27 .17 .67 .77 1.40 .54 .22 .80 .36 1.44 1.46 2000 (16.1%) .27 .35 .35 .57 .35 .88 .49 1.20 1.31 .70 .16 1993 14.2% .58 .47 4.96 8.27 .77 1.12 2.17 1.46 1.43 1.89 .82 1996 (13.1%) .49 1.07 .24 .17 .86 1.81 .16 .44 .36 .31 1.94 2007 (5.9%) .10 .30 .15 .53 .77 .31 .51 .57 .21 .16 .13 2011 5.2% .42 .57 .24 .40 .32 .56 2.61 3.91 1.70 .36 3.15 2002 4.7% .86 1.65 .20 .11 .56 3.85 .72 .65 3.46 2.33 1.50 2009 .29 .30 .22 .14 .50 .11 1.62 .93 .19 .22 1.55 (3.5%) 2003 (2.1%) .29 .67 .18 .25 .30 .76 .84 1.29 1.79 .75 1.11 1997 1.2% .86 .09 .13 .28 .47 .31 .23 .23 .30 .48 .26

40 Year Historical Corn & Soybean 75% Revenue Protection Prices (March 15 Sales Closing)

CME	Decen	iber Co	rn					CME	Novei	nber S	oybeans				
			Percent				Percent				Percent				Percent
	Base	Harv.	Price		Base	Harv.	Price		Base	Harv.	Price		Base	Harv.	Price
Year	Price ¹	Price ²	Change ⁵	Year	Price ¹	Price ²	Change ⁵	Year	Price ¹	Price ²	Change ⁵	Year	Price ¹	Price ²	Change ⁵
2012	5.68	7.50	32.0%	1992	2.70	2.09	(22.7%)	2012	12.55	15.39	22.6%	1992	6.06	5.37	(11.4%)
2011	6.01	6.32	5.2%	1991	2.59	2.51	(3.1%)	2011	13.49	12.14	(10.0%)	1991	6.15	5.60	(8.9%)
2010	3.99	5.46	36.8%	1990	2.47	2.30	(7.1%)	2010	9.23	11.63	26.0%	1990	5.95	6.12	2.8%
2009	4.04	3.72	(7.9%)	1989	2.71	2.39	(11.7%)	2009	8.80	9.66	9.8%	1989	7.24	5.62	(22.4%)
2008	5.40	4.13	(23.5%)	1988	2.17	2.89	33.3%	2008	13.36	9.22	(<u>31.0%</u>)	1988	6.43	7.93	23.3%
2007	4.06	3.58	(11.8%)	1987	1.69	1.83	8.3%	2007	8.09	9.75	20.5%	1987	4.71	5.38	14.2%
2006	2.59	3.03	17.0%	1986	2.11	1.69	(19.5%)	2006	6.18	5.93	(4.0%)	1986	5.15	4.82	(6.6%)
2005	2.32	2.02	(12.9%)	1985	2.66	2.23	(16.1%)	2005	5.53	5.75	4.0%	1985	6.06	5.05	(16.7%)
2004	2.83	2.05	(27.6%)	1984	2.86	2.78	(2.6%)	2004	6.72	5.26	(21.7%)	1984	7.11	6.14	(13.6%)
2003	2.42	2.26	(6.6%)	1983	2.88	3.48	20.6%	2003	5.26	7.32	39.2%	1983	6.33	8.43	33.1%
2002	2.32	2.52	8.6%	1982	3.00	2.20	(26.8%)	2002	4.50	5.45	21.1%	1982	6.76	5.32	(21.2%)
2001	2.46	2.08	(15.3%)	1981	3.77	2.91	(22.8%)	2001	4.67	4.37	(6.4%)	1981	8.26	6.56	(20.6%)
2000	2.51	2.04	(18.7%)	1980	3.12	3.61	15.6%	2000	5.32	4.72	(11.2%)	1980	7.29	8.57	17.6%
1999	2.40	2.01	(16.1%)	1979	2.59	2.78	7.4%	1999	5.11	4.85	(5.1%)	1979	6.97	6.70	(4.0%)
1998	2.84	2.19	(23.0%)	1978	2.27	2.31	1.6%	1998	6.64	5.46	(17.7%)	1978	5.76	6.84	18.7%
1997	2.73	2.81	3.1%	1977	2.73	2.09	(23.7%)	1997	6.97	6.82	(2.1%)	1977	6.96	5.31	(23.8%)
1996	3.08	2.84	(7.9%)	1976	2.72	2.65	(2.4%)	1996	7.23	7.07	(2.2%)	1976	5.08	6.41	26.2%
1995	2.57	3.23	25.7%	1975	2.72	2.91	7.0%	1995	5.85	6.56	12.2%	1975	5.79	5.25	(9.4%)
1994	2.68	2.16	(19.5%)	1974	2.89	3.80	31.5%	1994	6.48	5.41	(16.5%)	1974	6.30	8.59	36.4%
1993	2.40	2.49	3.7%	1973	1.38	2.46	77.7%	1993	5.86	6.15	4.9%	1973	3.95	5.85	48.2%
^l Tho r	nonthly	vovoro	a price o	fnow	crop fu	turoe e	ate tha PP	and VI	COVO	2000					
² Thom	nonthi	avela	ge price o	с ше w	crop in	umes s	cis me Ki	and 11	COVEL	ages.	.			-	

³Percent price change is based on Revenue Protection strike and settlement prices.

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Volatility Effects on RP Premiums

CME December Corn

					Precent
	CCIP	CCIP			Price
	Plant	Harv.	Vola-	\$ Cha-	Cha-
Year	Price ¹	Price ²	tility ³	nge ⁴	nge ⁵
2013	5.65		0.20		
2012	5.68	7.50	0.22	1.82	32.0%
2011	6.01	6.32	0.29	0.31	5.2%
2010	3.99	5.46	0.28	1.47	36.8%
2009	4.04	3.72	0.37	(0.32)	(7.9%)
2008	5.40	4.13	0.30	(1.27)	(23.5%)
2007	4.06	3.58	0.26	(0.48)	(11.8%)
2006	2.59	3.03	0.23	0.44	17.0%
2005	2.32	2.02	0.21	(0.30)	(12.9%)
2004	2.83	2.05	0.21	(0.78)	(27.6%)
2003	2.42	2.26	0.20	(0.16)	(6.6%)
2002	2.32	2.52	0.18	0.20	8.6%
2001	2.46	2.08	0.20	(0.38)	(15.3%)
2000	2.51	2.04	0.21	(0.47)	(18.7%)

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Selling Out of the Money Options Covered with **Revenue Protection**

- RP's major advantage is at a minimum it replaces loss 1. production at current market value. This allows farmers to maintain a hedged position selling up to 2 years ahead of harvest.
- 2. Recent RP premiums have significantly increased because of higher commodity prices and volatility, but are expected to be lower in 2014.
- Because of higher CME option premiums, farmers can sell off part of their RP coverage by selling out of the money puts, a "bear spread" and lower their costs.
- Only Farmers who have "lost money trading options" should consider selling out of the money puts covered with RP.

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Were 2012 Crop Insurance Losses Higher than Expected?

- 1. Even with about \$17 billion in 2012 claims the long run national loss ratio will remain below 1.0, the targeted loss ratio
- 2. During the past 19 years, only 2 underwriting losses over 5%, 2002 & 2012,
- 3. Government accounting does not recognize RMA underwriting gains (under spent subsidy), but does include underwriting losses.
- 4. Net RMA cost including net gains have averaged about \$4 billion per year. Including A&O total under \$5.2B average.

RP Yield Adjusted "Options" vs. Exchange Traded Options

Revenue Protection

CME Traded Option

- Higher prices cause negative "put" values in RP-HPE. RP will prevent negative values.
- No time Value
- No Exercise Rights
- Settle on monthly average price = Settle on a spot price
- Single Strike Price
- Price limit on "call" (harvest Price)
- Payment adjusted for yield

- No negative Option values
- Zero time value @ Expiration
- Right to Exercise
- Multiple Strike prices
- No limit on price
- No yield adjustment, 5,000 bu. Fixed.

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USA Crop Insurance Performance, All Contracts

	Pol								Prem-	Farm-er
	Earn			Total				Loss	ium Paid	Loss
	Prem	Net Acres	Liabilities	Premium	Subsidy	Indemnity	Loss/Gain	Ratio	by Farm-	Ratio
Year	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	ers	(000)
1988 ²	333	45,475	4,423,961	294,957	74,723	797,178	(502,221)	2.70	74.7%	3.62
1989	949	101,632	13,535,807	814,302	204,965	1,212,235	(397,933)	1.49	74.8%	1.99
1990	895	101,361	12,828,368	836,468	215,308	973,032	(136,563)	1.16	74.3%	1.57
1991	707	82,357	11,215,994	737,049	190,066	955,289	(218,240)	1.30	74.2%	1.75
1992	663	83,107	11,334,059	758,789	196,721	918,215	(159,426)	1.21	74.1%	1.63
1993	679	83,725	11,353,421	755,739	200,009	1,655,479	(899,740)	2.19	73.5%	2.98
1994	801	99,640	13,608,387	949,396	254,876	601,146	348,250	0.63	73.2%	0.87
1995	2,034	220,511	23,728,454	1,543,350	889,372	1,567,732	(24,382)	1.02	42.4%	2.40
1996	1,615	204,864	26,876,813	1,838,559	982,063	1,492,663	345,896	0.81	46.6%	1.74
1997	1,320	182,189	25,458,851	1,775,368	902,794	993,551	781,817	0.56	49.1%	1.14
1998	1,243	181,835	27,921,436	1,875,927	946,312	1,677,542	198,385	0.89	49.6%	1.80
1999	1,289	196,918	30,939,450	2,310,133	954,872	2,434,715	(124,582)	1.05	58.7%	1.80
2000	1,323	206,467	34,443,753	2,540,164	951,192	2,594,834	(54,671)	1.02	62.6%	1.63
2001	1,298	211,329	36,728,587	2,961,848	1,771,322	2,960,125	1,723	1.00	40.2%	2.49
2002	1,259	214,865	37,299,303	2,915,944	1,741,028	4,066,732	(1,150,788)	1.39	40.3%	3.46
2003	1,241	217,409	40,620,507	3,431,359	2,041,658	3,260,806	170,553	0.95	40.5%	2.35
2004	1,229	221,020	46,602,280	4,186,133	2,472,282	3,209,723	976,409	0.77	40.9%	1.87
2005	1,191	245,856	44,258,915	3,949,230	2,337,101	2,367,323	1,581,907	0.60	40.8%	1.47
2006	1,148	242,082	49,919,480	4,579,539	2,682,006	3,503,536	1,076,003	0.77	41.4%	1.85
2007	1,138	271,634	67,339,911	6,562,118	3,823,353	3,547,569	3,014,549	0.54	41.7%	1.30
2008	1,149	272,250	89,892,360	9,850,879	5,690,668	8,677,910	1,172,969	0.88	42.2%	2.09
2009	1,172	264,776	79,575,187	8,950,746	5,426,886	5,228,924	3,721,822	0.58	39.4%	1.48
2010	1,141	256,268	78,104,325	7,594,397	4,711,271	4,251,436	3,342,960	0.56	38.0%	1.47
2011	1,152	265,609	114,112,377	11,955,219	7,452,814	10,826,308	1,128,911	0.91	37.7%	2.40
2012°	1,173	282,503	116,938,299	11,087,372	6,960,499	17,316,100	(6,228,728)	1.56	37.2%	4.20
1988 to 2	2011	4,473,177	932,121,987	83,967,611	47,113,662	69,774,003	14,193,608	0.83	43.9%	1.89
Est 2012 +	History	4,755,680	1,049,060,285	95,054,983	54,074,162	87,090,103	7,964,880	0.92	43.1%	2.13



12 Yr Avg Cost of Crop Insurance Post 2000 ARPA Act

	1401	00111											
	Acres	Srike	\$ Cov-	Gross	farmer	Indem	rati	Underwri	ting Gain	s/Losses		Net	
Year	(000)	Price	erage	Prem	paid	nity	o	Gross	AIP	RMA	Subsidy	RMA	A&O ¹
2001	211	\$2.46	36,729	2,978	1,206	2,965	1.00	12	346	(334)	1,772	2,106	636
2002	215	\$2.32	37,299	2,909	1,168	4,058	1.39	(1,149)	(48)	(1,101)	1,741	2,842	626
2003	217	\$2.42	40,621	3,434	1,392	3,259	0.95	176	377	(201)	2,042	2,243	734
2004	221	\$2.83	46,602	4,186	1,709	3,291	0.79	895	691	203	2,477	2,274	888
2005	246	\$2.32	44,259	3,945	1,601	2,341	0.59	1,604	915	689	2,344	1,655	829
2006	242	\$2.59	49,919	4,709	2,027	3,551	0.75	1,158	822	336	2,682	2,346	959
2007	272	\$4.06	67,340	6,547	2,724	3,465	0.53	3,082	1,572	1,510	3,823	2,313	1,333
2008	272	\$5.40	89,892	9,832	4,141	8,719	0.89	1,113	1,095	18	5,691	5,673	2,009
2009	265	\$4.04	79,575	8,949	3,522	5,216	0.58	3,733	2,298	1,435	5,427	3,992	1,619
2010	256	\$3.99	78,104	7,592	2,882	4,235	0.56	3,357	1,919	1,438	4,710	3,272	1,368
2011	266	\$6.01	114,112	11,959	4,506	10,807	0.90	1,152	1,666	(514)	7,453	7,967	1,330
2012 ²	282	\$5.68	116,880	11,080	4,124	17,256	1.56	(6,175)	(1,302)	(4,873)	6,956	11,829	1,316
Avera	ge Net	Governi	ment Cos	t for Cr	op Insur	ance ove	er 12	Years				4,043	1,137
Avg. F	armer (Cost for	Crop Ins	urance	2,584								
Averag	ge Insura	ance Co	mapanie	s (AIPs)	Gains				863				
Averag	je Inden	nnity Pa	yments			5,764							
Averag	ge A&O	Cost fo	r Crop Ins	surance.									1,137

¹Source: United States Government Accountability Office, "Crop Insurance; Savings Would Result from Program Changes and Greater Use of Data Mining", GAO-12-256, a report to the Ranking Member, Permanent Subcommittee on Investigations, Committee on Homeland Security and Governmental Affairs, U.S. Senate, March 2012. The A&O costs were capped in the 2013 Standard Reinsurance Agreement (SRA) at about \$1.3 billion; mostly paid to agents for commissions. The A&O cap reduced the A&O payment by about a \$800 to \$900 million. There are about \$77-80 million in RMA employee and government operating expenses, in addition to the other costs.

²2012 data is not complete and the reinsurance data lags behind the RMA reported gross indemnity payments. Since 2001, insured acres have increased by 71 million acres and provided \$80 billion more in coverage 8/16/2013 4B Ag Consultants & Kansas State University, Copyright 2012, All Rights Reserved 17

Minnesota Corn Loss Ratio by Year

	Pol									% of	Farmer
	Earn	Net		Total		Farmer			Loss	Premium	Loss
	Prem	Acres	Liabilities	Premium	Subsidy	Paid	Indemnity	Loss/Gain	Ratio	Paid by	Ratio
Year	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	Farmers	(000)
1992	17	2,225	353,439	20,647	5,870	14,776	21,309	(662)	1.03	71.6%	1.44
1993	20	2,471	353,164	20,360	5,828	14,532	170,082	(149,722)	8.35	71.4%	11.70
1994	33	4,313	619,863	38,253	10,920	27,332	3,337	34,916	0.09	71.5%	0.12
1995	50	6,590	802,080	49,890	19,813	30,077	4,842	45,048	0.10	60.3%	0.16
1996	27	4,080	788,733	50,656	20,992	29,663	9,508	41,148	0.19	58.6%	0.32
1997	56	8,433	1,439,022	90,325	41,614	48,711	14,449	75,877	0.16	53.9%	0.30
1998	85	12,968	2,201,598	135,965	64,799	71,166	18,518	117,447	0.14	52.3%	0.26
1999	96	15,104	2,609,267	168,440	74,127	94,314	24,335	144,105	0.14	56.0%	0.26
2000	21	3,338	483,462	30,065	12,528	17,537	3,502	26,564	0.12	58.3%	0.20
2001	38	5,844	864,301	53,717	27,470	26,247	18,688	35,029	0.35	48.9%	0.71
2002	52	7,856	1,162,586	71,865	39,101	32,764	20,382	51,483	0.28	45.6%	0.62
2003	64	9,784	1,479,771	91,079	51,423	39,655	27,679	63,399	0.30	43.5%	0.70
2004	75	11,462	1,788,698	109,267	63,208	46,059	34,166	75,101	0.31	42.2%	0.74
2005	13	2,734	654,707	57,665	31,794	25,871	11,421	46,244	0.20	44.9%	0.44
2006	12	2,728	748,085	64,587	35,468	29,119	19,904	44,682	0.31	45.1%	0.68
2007	14	3,595	1,615,085	157,734	85,629	72,105	78,693	79,041	0.50	45.7%	1.09
2008	14	3,302	1,982,257	192,617	106,195	86,422	131,315	61,302	0.68	44.9%	1.52
2009	16	3,641	1,690,139	164,838	102,670	62,169	22,257	142,582	0.14	37.7%	0.36
2010	16	3,565	1,669,288	128,818	81,252	47,565	10,081	118,737	0.08	36.9%	0.21
2011	2	353	231,312	13,460	8,273	5,188	5,410	8,050	0.40	38.5%	1.04
2012	32	7,473	5,416,868	402,579	259,859	142,720	136,957	265,622	0.34	35.5%	0.96
21 Yr ⁻	Total	121,860	28,953,724	2,112,825	1,148,833	963,992	786,831	1,325,994	0.37	45.6%	0.82
			One Year St	ress Loss Eq	ual to 1.00 lo	ss Ratio =	2,112,825		5.25		
Aggree	gate Lo	ss Ratio V	Vith a 2013 C	atastrophic	Loss Year				1.00		

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Illinois Corn Crop Insurance History

	Pol									% of	Farmer
	Earn	Net		Total					Loss	Premium	Loss
	Prem	Acres	Liabilities	Premium	Subsidy	Farmer	Indemnity	Loss/Gain	Ratio	Paid by	Ratio
Year	(000)	(000)	(000)	(000)	(000)	Paid (000)	(000)	(000)	(000)	Farmers	(000)
1992	33	3,548	677,302	29,782	6,158	23,624	6,476	23,306	0.22	79.3%	0.27
1993	32	3,247	635,423	27,596	5,703	21,893	15,956	11,640	0.58	79.3%	0.73
1994	32	3,672	737,609	36,000	7,607	28,393	2,657	33,343	0.07	78.9%	0.09
1995	92	8,727	1,152,122	48,050	24,345	23,705	41,031	7,019	0.85	49.3%	1.73
1996	66	7,370	1,253,366	58,458	26,772	31,687	28,425	30,034	0.49	54.2%	0.90
1997	57	6,483	1,111,147	53,838	22,693	31,145	14,117	39,721	0.26	57.8%	0.45
1998	55	6,318	1,227,417	61,084	24,026	37,059	31,249	29,835	0.51	60.7%	0.84
1999	57	6,934	1,302,777	79,773	21,650	58,123	33,931	45,842	0.43	72.9%	0.58
2000	61	7,526	1,628,708	103,782	20,564	83,219	28,274	75,508	0.27	80.2%	0.34
2001	57	7,343	1,653,373	113,188	60,311	52,877	30,015	83,173	0.27	46.7%	0.57
2002	55	7,539	1,749,769	115,409	60,482	54,927	99,762	15,647	0.86	47.6%	1.82
2003	55	7,826	1,960,088	136,961	71,642	65,318	40,242	96,719	0.29	47.7%	0.62
2004	53	8,118	2,431,995	173,049	92,456	80,594	60,542	112,508	0.35	46.6%	0.75
2005	53	8,616	2,375,234	168,968	89,933	79,036	191,314	(22,346)	1.13	46.8%	2.42
2006	55	8,940	3,535,050	277,198	147,847	129,350	26,412	250,786	0.10	46.7%	0.20
2007	55	10,233	5,960,600	487,173	258,310	228,863	47,362	439,811	0.10	47.0%	0.21
2008	52	9,416	6,717,206	547,433	274,457	272,976	325,840	221,593	0.60	49.9%	1.19
2009	53	9,681	5,350,848	465,003	249,958	215,045	135,268	329,735	0.29	46.2%	0.63
2010	53	9,915	5,496,266	376,807	207,384	169,423	239,412	137,395	0.64	45.0%	1.41
2011	54	10,164	8,567,572	629,172	346,410	282,762	263,399	365,773	0.42	44.9%	0.93
2012	55	10,316	8,401,865	522,118	293,346	228,772	3,194,521	(2,672,403)	6.12	43.8%	13.96
<u>1992 t</u>	o 2011	151,618	55,523,875	3,988,726	2,018,708	1,970,018	1,661,686	2,327,040	0.42	49.4%	0.84
21 Yr	Total	161,933	63,925,740	4,510,844	2,312,054	2,198,790	4,856,207	(345,364)	1.08	48.7%	2.21
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¹Source: Risk Management Agency Website link, http://www.rma.usda.gov/data/sob.html

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Kansas Corn Loss Ratio by Year

	Pol									% of	Farmer
	Earn	Net		Total					Loss	Premium	Loss
	Prem	Acres	Liabilities	Premium	Subsidy	Farmer	Indemnity	Loss/Gain	Ratio	Paid by	Ratio
Year	(000)	(000)	(000)	(000)	(000)	Paid (000)	(000)	(000)	(000)	Farmers	(000)
1992	6	557	83,554	4,513	1,280	3,233	10,045	(5,532)	2.23	71.6%	3.11
1993	6	578	89,121	4,638	1,341	3,297	6,637	(1,999)	1.43	71.1%	2.01
1994	7	731	109,933	6,664	1,930	4,734	3,357	3,307	0.50	71.0%	0.71
1995	20	2,018	224,196	11,080	6,433	4,648	12,077	(996)	1.09	41.9%	2.60
1996	18	2,010	309,138	16,148	8,434	7,714	5,756	10,392	0.36	47.8%	0.75
1997	16	1,939	313,273	17,782	7,768	10,014	4,097	13,686	0.23	56.3%	0.41
1998	16	2,120	380,243	21,257	9,237	12,020	3,083	18,175	0.15	56.5%	0.26
1999	17	2,355	370,621	23,691	8,489	15,202	11,567	12,124	0.49	64.2%	0.76
2000	18	2,591	427,891	28,511	8,484	20,026	34,227	(5,717)	1.20	70.2%	1.71
2001	20	2,746	499,593	40,953	23,606	17,347	32,570	8,383	0.80	42.4%	1.88
2002	19	2,644	506,919	39,683	22,505	17,178	137,345	(97,661)	3.46	43.3%	8.00
2003	18	2,359	493,548	43,265	24,384	18,881	77,585	(34,320)	1.79	43.6%	4.11
2004	19	2,613	612,645	66,230	37,382	28,849	50,509	15,722	0.76	43.6%	1.75
2005	21	3,089	580,844	68,427	39,131	29,296	37,786	30,641	0.55	42.8%	1.29
2006	20	2,889	606,543	78,245	44,617	33,629	83,478	(5,233)	1.07	43.0%	2.48
2007	21	3,367	1,114,354	150,746	86,920	63,826	32,042	118,704	0.21	42.3%	0.50
2008	21	3,313	1,471,007	208,899	121,319	87,581	122,655	86,245	0.59	41.9%	1.40
2009	22	3,593	1,247,319	193,492	117,076	76,416	37,317	156,175	0.19	39.5%	0.49
2010	25	4,253	1,385,155	176,322	107,648	68,674	41,984	134,338	0.24	38.9%	0.61
2011	25	4,261	2,164,914	262,850	161,851	100,999	447,917	(185,067)	1.70	38.4%	4.43
2012	25	4,232	2,128,384	223,751	137,212	86,538	732,527	(508,776)	3.27	38.7%	8.46
1992 t	o 2011	50,025	12,990,810	1,463,396	839,834	623,562	1,192,032	271,364	0.81	42.6%	1.91
21 Yr	Total	54,257	15,119,195	1,687,147	977,047	710,101	1,924,559	(237,412)	1.14	42.1%	2.71
¹ Source	: Risk Ma	nagement	Agency Website	link, http://ww	w.rma.usda.go	ov/data/sob.htm	nl				

VICNEILINIAMNKSTXMIOKMSOH20122.324.533.392.233.001.701.311.108.34.11.2520113.544.545.802.95.91.515.061.311.008.34.11.2520113.544.585.905.951.515.061.331.004.13.004.120093.445.805.971.554.561.271.016.651.241.820086.616.661.171.208.201.201.801.801.802.161.7620071.92.113.771.554.569.003.86.21.806.63.520064.441.001.811.662.771.201.553.805.643.601.7620071.995.415.459.015.831.555.85 </th <th> Many Assumptions Must Hold for a Farmers' Crop Insurance Indemnities to Exceed "Expected Revenue" Farmers are better off with a crop insurance check than a crop due to harvest price?????? Assumes no livestock that requires producers to replace their feed supply at higher prices. Assumes a single enterprise corn farm. For example, wheat may have produced less than the "expected" revenue, so total farm revenue is below "expected". Assumes APH equals expected yield. Assumes quality loss adjustments equals market discounts. </th>	 Many Assumptions Must Hold for a Farmers' Crop Insurance Indemnities to Exceed "Expected Revenue" Farmers are better off with a crop insurance check than a crop due to harvest price?????? Assumes no livestock that requires producers to replace their feed supply at higher prices. Assumes a single enterprise corn farm. For example, wheat may have produced less than the "expected" revenue, so total farm revenue is below "expected". Assumes APH equals expected yield. Assumes quality loss adjustments equals market discounts.
Avg .78 .64 .74 .70 .81 1.02 1.28 .80 1.37 .96 .80 8/16/2013 4B Ag Consultants & Kansas State University, Copyright 2012, All Rights Reserved 21	4B Ag Consultants & Kansas State University, Copyright 2012, All Rights Reserved 22
Many Assumptions Must Hold for a Farmers' Crop Insurance Indemnities to Exceed "Expected Revenue" 6. Assumes zero basis.	Consequences of Proposed Reduction of Subsidy on Harvest Price, or Elimination of Harvest Price 1. Without the Harvest Price, many Illinois, Iowa and
7. Assumes no hedging or forward contracts.	Indiana corn farmers would have received no or reduced 2012 indemnity payments.
All marketing plans assume production and the harvest price replaces bushels at current harvest market price.	2. A 35% yield loss would have generated no payment for many farmers with coverage at 80% and 85%.
9. Harvest price eliminates the negative price in the RP "put".	3. Would policy makers have provided an ad hoc disaster program for the 2012 Corn Belt drought, if those farmers had not been collecting crop insurance payments?
10. Farmers with a normal crop will generate about 30% more revenue with a crop than indemnity payments. Farmers are better off with a crop.	

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Excluding Harvest Price from RP Insured Iowa Corn Farmers would have Reduced Payments by over 50%; Assuming a 50% Yield Loss

					\$	%
			Ave-	Avg.	Reduc-	Reduc-
% of	Cov	Liab-	rage	Indem-	tion in	tion in
Acres	Lvl	ilities	APH	nity	Claim,	Claim,
_						
2.4%	65	653.55	177.02	190.39	190.39	(100.0%)
10.2%	70	701.92	176.54	264.81	224.50	(84.8%)
28.6%	75	773.29	181.52	340.36	248.12	(72.9%)
33.4%	80	841.99	185.30	416.92	270.83	(65.0%)
15.1%	85	907.75	188.02	493.55	285.52	(57.9%)
89.7%	Total					

Increased HP Premium for Illinois by Coverage level

		Ave-	Ave-	% incr-		%	
%		rage	rage	ease HP	Loss	Change	% of Ac.
Cov	Policy	APH	Rate	prem	Ratio	HP L/R	Ins.
85	YP	182	4.22%		5.48		0.52%
85	RPHPE	184	3.43%		3.17		3.47%
85	RP	184	6.53%	54.66%	4.01	(26.75%)	30.81%
80	YP	178	3.97%		5.25		0.78%
80	RPHPE	177	3.55%		3.89		2.59%
80	RP	177	6.26%	57.95%	4.41	(15.95%)	32.05%
75	YP	173	3.72%		5.53		1.18%
75	RPHPE	172	3.47%		4.63		1.44%
75	RP	167	6.66%	78.98%	4.86	(12.26%)	16.46%
70	YP	166	4.25%		5.29		0.68%
70	RPHPE	163	4.58%		4.85		0.83%
70	RP	156	8.28%	95.%	5.16	(2.43%)	6.73%
65	ΥP	162	3.28%		6.23		0.63%
65	RPHPE	159	3.35%		7.64		0.28%
65	RP	158	6.77%	106.24%	5.19	(16.78%)	1.54%

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Deductible Disappears for 75% RP Coverage

- 1. When harvest price is 25% lower than base price.
- 2. When harvest price increases by 33.4% and yield equals zero or sales with a zero basis on production plus indemnity. The yield deductible remains, only the dollar deductible is eliminated.
- 3. After farmer paid premiums are deducted it would require a larger price change than reported to eliminate the deductible.

Price Price Coverage Increase Decrease

75%	33.4%	25.0%
65%	54.0%	35.0%
80%	25.1%	20.0%
85%	17.6%	15.0%

Comparisons of Coverage and Premiums for Iowa vs. Kansas (all crops & coverages for 2012)

		Net Acres	Liabil- ities	Total Prem- ium	\$ Cov- erage per Ac	Avg % Cover- age	Avg Rate	Prem Ceded	Farm er Avg Rate
		(000 000)	(000 000)	(000 000)					
]	ΓΑ	21.7	14,939	902.3	\$688	77	6%	1.2%	2.6%
ł	s	18.3	5,663	808.0	\$310	64	14%	19.8%	5.6%

Require CAT Buyers to Pay a Share of Their Premium	Require CAT Buyers to Pay a Share of Their Premium
 Current Farm Bill will require RMA to reduce CAT premiums by the percentage equal to the difference between the average loss ratio for the crop and 100 percent, plus a reasonable reserve. What is a "reasonable reserve" This will make CAT premiums lower than 50/100 YP buyup that generate the same indemnity bushels, unless RMA does a similar rate cut on buyup. 	 Require CAT buyers to pay a share of the premium, at the minimum buyup share rate of 33%. This policy would reduce the CAT subsidy from 100% to 67%. Or as a part of an cross-the-board 5 point increase in farmer paid premium share including CAT, would likely cause some of the large policyholders to drop CAT coverage. This policy would reduce the CAT subsidy from 100% to 95%.
8/16/2013 4B Ag Consultants & Kansas State University, Copyright 2012, All Rights Reserved 29 Require CAT buyers to pay a share of the premium	4B Ag Consultants & Kansas State University, Copyright 2012, All Rights Reserved 30 California Counties with Average CAT Premium Subsidy greater than \$30,000
 5. Many CAT buyers are not small farmers. 6. In 2011 the average buyup policy had \$432 of coverage vs. \$391 of coverage for the average CAT policy. 	Premium-ExpectedCalifornia# Pol-TotalSubsidy/Liability/Revenue/Countiesicies acresPolicyPolicyPolicyTulare (107)30124,85715,256,10255,476,736
7. Senate proposed means testing would have no effect on CAT buyers because farmers pay no premium. Above the means tested farmers would pay an additional 15 point share of the buyup premium.	Kern (029)4063,1817,856,65428,569,649Stanislaus (099)3045,6145,450,02419,818,270San Joaquin (077)2042,8935,413,85719,686,751Riverside (065)6039,7594,597,29916,717,451
8. If means testing were Law, it would pay an over the means limit formen to change to CAT from 50/100	Solano (095) 2 0 33,100 4,076,436 14,823,404 San Mateo (081) 1 0 33,300 3,779,463 13,743,502

means limit farmer to change to CAT from 50/100 buyup. One would pay 48% of 50/100 buyup vs. free 50/55 CAT, i.e. a 45% co-pay.

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San Luis Obispo

0 30,247 3,140,891 11,421,420



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Reduce Margins going to AIPs & Agents	Consequences from Reducing Margins Going to AIPs & Agents
 A&O cut from \$2 billion high in 2008 to \$1.3 billion in 2010 and capped it. 	1. Crop insurance industry will argue they have already taken a cut in margins.
 Capped A&O cut agent commissions to about 9% of unloaded premium. Additional commissions up to full amount of the A&O can be paid if the ATP has a national underwriting gain 	 Without an agent, would most farmers be willing to make an appointment with FSA to purchase crop insurance? FSA loss adjustment would likely cause additional delays in payment.
4. Change loss/gain in SRA cuts AIPs' margins.	3. Unlikely sales and service will be moved to FSA.
5. Move sales and service to FSA and eliminate A&O, but increase FSA administrative costs.	 Most of the A&O is paid to agents, so any additional cuts to A&O will be absorbed mostly by agents.
	 5. Current A&O rules prevent A&O dollars from crossing state lines.
8/16/2013 4B Ag Consultants & Kansas State University, Copyright 2012, All Rights Reserved 37	8/16/2013 4B Ag Consultants & Kansas State University, Copyright 2012, All Rights Reserved 38
Consequences from Reducing Margins Going to AIPs & Agents	Reduce RMA and FSA administrative costs
6. A&O is capped so agent commissions have been prorated; about 9% of the unloaded premium (does not include any return from gain). Some Corn Belt agents	1. FSA administrative costs \$1.516 billion.
were over 20%.	2. RMA administrative costs \$2.238 billion.
7. Agent commission cap does not apply to GRP and GRIP.	3. \$1.3B of the \$2.238B in RMA's administrate budget is paid to the AIPs to cover (some of) the AIPs
 Agent commission cap does not apply to GRP and GRIP. Agents selling non-revenue products (fruit & vegetables) argue the current A&O system is to their 	 \$1.3B of the \$2.238B in RMA's administrate budget is paid to the AIPs to cover (some of) the AIPs administrative costs and agent commissions.
 Agent commission cap does not apply to GRP and GRIP. Agents selling non-revenue products (fruit & vegetables) argue the current A&O system is to their disadvantage. 	 \$1.3B of the \$2.238B in RMA's administrate budget is paid to the AIPs to cover (some of) the AIPs administrative costs and agent commissions. RMA's administrative budget also covers consultants and university based research, analysis and education programs.

Consequences from Reduced RMA and FSA Administrative funding	Improved Underwriting and Rating of the Assigned Risk Pool
 Fewer RMA employees to provide audits to prevent fraud in crop insurance. Slower development of new products and re-rating of current contracts. Longer wait time for FSA programs and greater distance between offices. 	 In 2011, about 82% of the national crop insurance premium was placed in the Commercial Fund. In 2011, about 18% of the national crop insurance premium was placed in the Assigned Risk Fund. Companies are required to retain 20% of the premium/risk in the Assigned Risk Fund. The 2011 Commercial Fund generated a \$2.239B gain but Assigned Risk Fund suffered a -\$1.121B loss, for a net gain of \$1.117B gain.
8/16/2013 4B Ag Consultants & Kansas State University, Copyright 2012, All Rights Reserved 41	8/16/2013 4B Ag Consultants & Kansas State University, Copyright 2012, All Rights Reserved 42
Improved Underwriting and Rating of the Assigned Risk Pool	SRA Affects AIPs' Losses
 Historically most of the underwriting losses are in the Assigned Risk Fund. Last Commercial Fund loss was in 2002 (expected loss in 2012). 	 8.27 MN Corn loss ratio; Average loss ratio for all crops was 6.10 in 1993 for MN.
5. Fix the rates and underwriting rules for policies in the Assigned Risk Fund and lower taxpayer cost.	 90% of the losses over 2.20 belong to RMA in the commercial pool in Group 1 States. RMA has all losses above 5.00.
6. Effectively the Assigned Risk Fund is the social part of the crop insurance program. In a private market many of these farmers would be uninsurable.	 The SRA triggered loss ratio is all crops by company by State by Commercial pool. RMA has a quota share in addition to the above stop losses. About 5% of the Minnesota 2011 premium was placed
	in assigned risk and balance in commercial.

Crop Insurance Policy

- 1. FSA employees have lobbied to take over sales, loss adjusting, and production records for crop insurance.
- 2. FSA will have a program and employment will be maintained. But there appears to be little support for FSA to take over crop insurance.
- 3. CAT will remain "free" and no payment limit. Premium rates will be cut and counted as budget savings.
- Means testing & subsidy limits will continue to be argued. 4.
- Disaster aid/free crop insurance will remain on the agenda 5. serviced by FSA.



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MAST & RAM

- 1. For More Information check out MAST and RAM
- 2. MAST participants will be comp'd to RAM and given priority on enrollment.

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The Farm Bill and Crop Insurance



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