### **GUY CARPENTER**

### **CARe - Crop Insurance Panel Discussion**

Beth Collins Philadelphia, PA June 6-7, 2011

www.guycarp.com

### **Agenda**

- US Crop Insurance Classes of Business
- Multi-Peril Crop Insurance Historical Perspective
- Government Subsidized Program
  - Standard Reinsurance Agreement
  - Comparison of 2005 vs 2011
  - Proportional vs Non-Proportional Reinsurance
  - Assigned Risk Fund
  - Commercial Fund
- Crop Hail
- Private Reinsurance
  - Quota Shares
  - Excess of Loss/Aggregate Covers
  - Industry Loss Warranty (ILW)
  - Price Cover
- Why Crop Insurance?

### U.S. Crop Insurance

Three Classes of Business

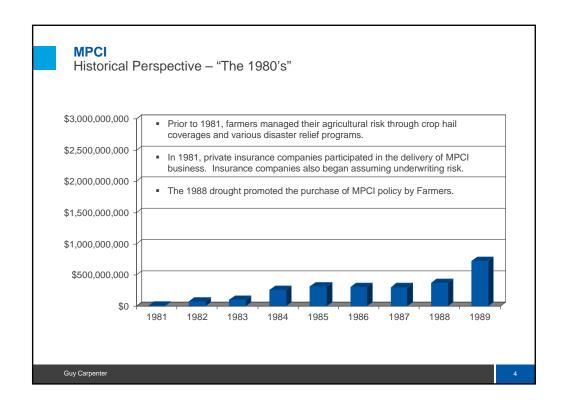
### **Government Sponsored**

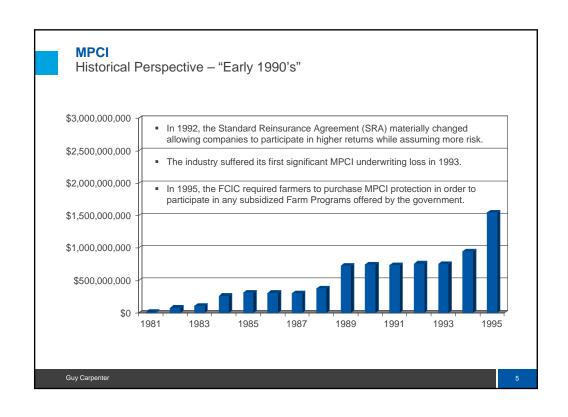
- MPCI (Multiple Peril Crop Insurance)
  - Government supported program.
  - Rates, policy forms, underwriting guidelines and loss adjusting procedures are all established by the Federal Crop Insurance Corporation (FCIC), part of the USDA's Risk Management Agency.
  - FCIC offers attractive inuring reinsurance protections.
  - The policy is "Yield" or "Revenue" based covering "All Perils."

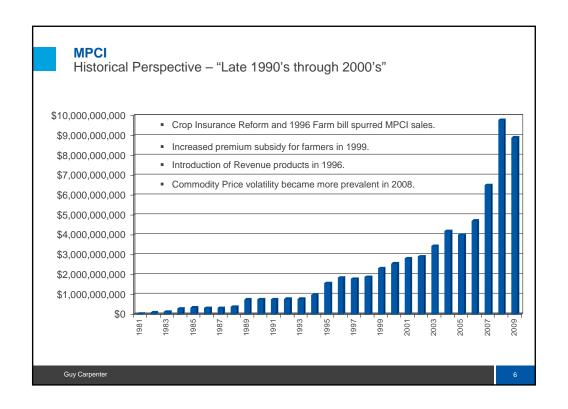
### **Private Market**

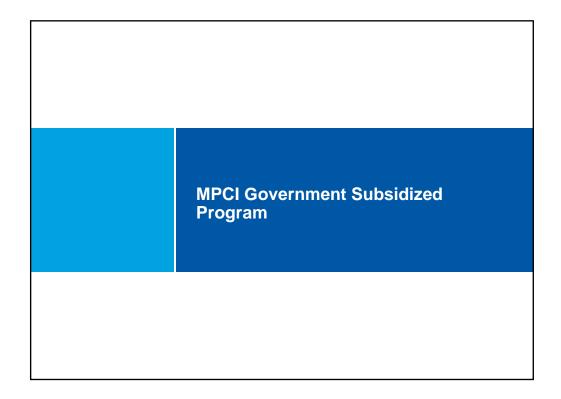
- Crop Hail
  - Traditional crop insurance that has been around since the early 1900's.
  - Policy covers only Hail and Allied Coverages.
  - Policy structured as a "percentage of insured value" basis.
- Named Peril
  - Single peril coverage on specific crops or MPCI Add On / Deductible Protection.

Multiple Peril Crop Insurance (MPCI) Historical Perspective









### **MPCI Government Subsidized Program**

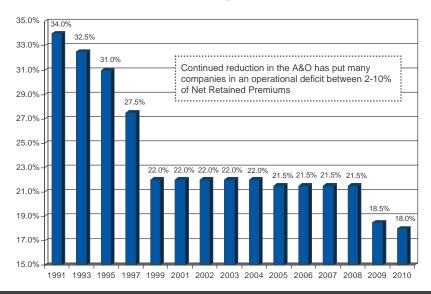
- Standard Reinsurance Agreement (SRA) is a Contract between the Government (FCIC) and the private insurance company, Approved Insurance Provider (AIP).
- Subsidized Primary Insurance Policy
  - 35% to 65% of premium is paid for by FCIC.
- Acquisition Costs (Administrative & Operating Subsidy A&O)
  - The government (FCIC) reimburses the ceding company for expenses related to the production of servicing the MPCI business.
  - The reimbursement varies by coverage type.

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### MPCI Government Subsidized Program

FCIC A&O Reimbursement Summary



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### **MPCI Government Subsidized Program**

- RMA's primary administrative costs
  - Rate & Underwriting development
  - Compliance
  - Ceding Company oversight
  - Claims management procedures
- Reinsurance
  - FCIC offers attractive proportional and non proportional reinsurance protections.
  - This protection allows ceding companies to accept all policies purchased by a farmer; allows companies to retain the profitable business and cede the undesirable business to the government.

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# **2011 Standard Reinsurance Agreement**

### **Goals of RMA**

- Align Administrative and Operating (A&O) subsidy to insurance company's actual delivery costs
- 2. Ensure continued producer access to these important risk management tools
- 3. Provide a reasonable rate of return to insurance companies
- 4. Protect producers from higher costs while equalizing reinsurance performance across states to more effectively reach underserved producers, commodities and areas.
- 5. Simplify provision to make the SRA more understandable and transparent
- 6. Enhance program integrity.

### Implemented changes

- A&O Reduction
- Eliminated Assigned Risk Fund and Establish Residual Fund (National Pool)
- Eliminated Developmental Fund
- Introduced State Groups to encourage participation outside of historically profitable Midwest to underserved states.
- Changed SRA's Profit/Loss Sharing parameters

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### Standard Reinsurance Agreement (SRA)

A&O Subsidy Reductions since 2008

- 2008 (Pre Farm Bill) A&O: 20.50%
- 2009 (Post Farm Bill) A&O: 18.50%
- 2011 SRA A&O: 16.25% (1.3B / 8B)
- Soft Agent Commission Cap of 80% at the state level. Additional contingent commission ("compensation") up to 100% of A&O on by state basis net after reinsurance.
- Starting for the 2011 crop season, the 2008 Farm Bill includes a delayed payout of the A&O and underwriting gain. The A&O payment has been pushed out to the Fall of the same crop season with the settlement of the underwriting gain being extended into October of the following crop season.



Proportional Reinsurance "A"

### 2005 SRA

### Assigned Risk Fund

- Company's less desirable business "Social Fund."
- FCIC sets cession limits by state, based on loss history.
- 75% to 85% of the business is proportionately ceded to FCIC.

### Developmental Fund

- Accommodates business where "uncertainty" exists or where Assigned Risk limits are exceeded.
- Up to 65% of gross premiums can be ceded to FCIC.

### Commercial Fund

- Accommodates a Company's most profitable business.
- Highest profit potential and highest risk potential
- Up to 50% of gross premiums can be ceded to FCIC.

### 2011 SRA

### Assigned Risk Fund

- Maximum assignment per state shall not exceed 75% of the Company's total premium
- Company to retain a fixed 20% subject to the SRA non-proportional reinsurance.
- Calculated on a by state basis.

### Developmental Fund

Eliminated

### Commercial Fund

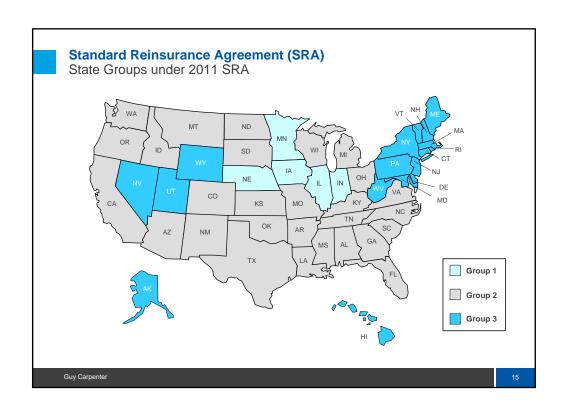
- States designated into (3) groups:
  - Group 1 = Most Profitable
  - Group 2 = All Other
  - Group 3 = Underserved

### Other Changes

 Elimination of Buy Up, Catastrophe and Revenue Funds by State within the Commercial and Developmental Funds.

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Non Proportional Reinsurance - Gain / Loss Sharing Parameters

2005 SRA - Maximum Possible Underwriting Loss (MPUL): 197.09% (2009 Industry Premium)

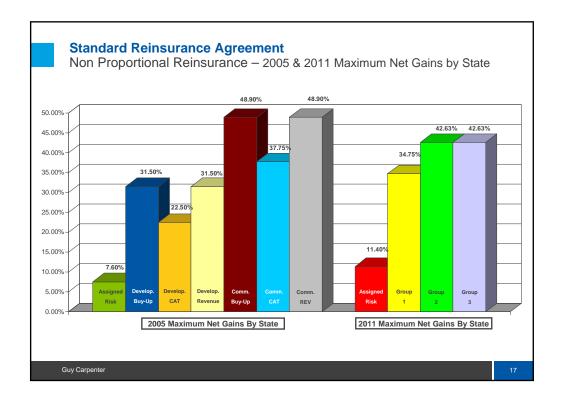
| Individual       | Assigned | Dev    | Developmental Fund |         |        | mmercial Fu | ınd     |
|------------------|----------|--------|--------------------|---------|--------|-------------|---------|
| State Loss Ratio | Risk     | Buy Up | Cat                | Revenue | Buy Up | Cat         | Revenue |
| 0.00%            | 2.00%    | 6.00%  | 4.00%              | 6.00%   | 11.00% | 8.00%       | 11.00%  |
| 50.00%           | 9.00%    | 50.00% | 30.00%             | 50.00%  | 70.00% | 50.00%      | 70.00%  |
| 65.00%           | 15.00%   | 60.00% | 45.00%             | 60.00%  | 94.00% | 75.00%      | 94.00%  |
| 100.00%          | 5.00%    | 25.00% | 25.00%             | 30.00%  | 50.00% | 50.00%      | 57.00%  |
| 160.00%          | 4.00%    | 20.00% | 20.00%             | 22.50%  | 40.00% | 40.00%      | 43.00%  |
| 220.00%          | 2.00%    | 11.00% | 11.00%             | 11.00%  | 17.00% | 17.00%      | 17.00%  |
| 500.00%          | 0.00%    | 0.00%  | 0.00%              | 0.00%   | 0.00%  | 0.00%       | 0.00%   |

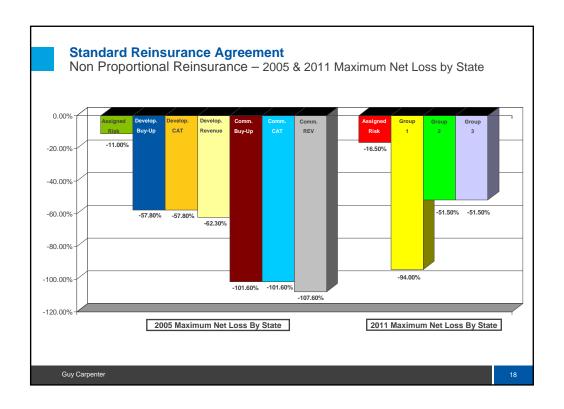
2011 SRA - Maximum Possible Underwriting Loss (MPUL): 166.36% (2009 Industry Premium)

| Individual       | Assigned | Commercial Fund |        |        |  |  |
|------------------|----------|-----------------|--------|--------|--|--|
| State Loss Ratio | Risk     | SG 1            | SG 2   | SG 3   |  |  |
| 0.00%            | 3.00%    | 5.00%           | 5.00%  | 5.00%  |  |  |
| 50.00%           | 13.50%   | 40.00%          | 40.00% | 40.00% |  |  |
| 65.00%           | 22.50%   | 75.00%          | 97.50% | 97.50% |  |  |
| 100.00%          | 7.50%    | 65.00%          | 42.50% | 42.50% |  |  |
| 160.00%          | 6.00%    | 45.00%          | 20.00% | 20.00% |  |  |
| 220.00%          | 3.00%    | 10.00%          | 5.00%  | 5.00%  |  |  |
| 500.00%          | 0.00%    | 0.00%           | 0.00%  | 0.00%  |  |  |

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# **Standard Reinsurance Agreement (SRA)**Restated Results

### 2005 SRA vs. 2011 SRA

|               | 2009 Industry Premium       |                             |                             |                             |   |                                      |  |  |  |
|---------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---|--------------------------------------|--|--|--|
|               | 2005                        | SRA                         | 2011                        | SRA                         | 2011 Draft less 2005 Draft                |                                      |  |  |  |
| Year          | Gain/(Loss)<br>based on NWP | Gain/(Loss)<br>based on GWP | Gain/(Loss)<br>based on NWP | Gain/(Loss)<br>based on GWP | % Change on<br>UW Gain<br>based on<br>GWP | \$ Change on UW<br>Gain based on GWP |  |  |  |
| 1999          | 15.04%                      | 12.08%                      | 13.91%                      | 11.43%                      | -5.39%                                    | (\$58,247,258)                       |  |  |  |
| 2000          | 16.29%                      | 13.09%                      | 13.58%                      | 11.16%                      | -14.72%                                   | (\$172,325,395)                      |  |  |  |
| 2001          | 14.05%                      | 11.29%                      | 12.53%                      | 10.30%                      | -8.77%                                    | (\$88,548,324)                       |  |  |  |
| 2002          | -8.33%                      | -6.69%                      | -5.49%                      | -4.51%                      | 32.58%                                    | \$195,014,899                        |  |  |  |
| 2003          | 15.96%                      | 12.82%                      | 15.40%                      | 12.66%                      | -1.29%                                    | (\$14,830,484)                       |  |  |  |
| 2004          | 23.38%                      | 18.79%                      | 21.19%                      | 17.42%                      | -7.29%                                    | (\$122,403,740)                      |  |  |  |
| 2005          | 34.23%                      | 27.50%                      | 30.98%                      | 25.46%                      | -7.42%                                    | (\$182,418,836)                      |  |  |  |
| 2006          | 24.31%                      | 19.53%                      | 19.99%                      | 16.43%                      | -15.88%                                   | (\$277,438,544)                      |  |  |  |
| 2007          | 30.95%                      | 24.87%                      | 27.11%                      | 22.28%                      | -10.40%                                   | (\$231,199,636)                      |  |  |  |
| 2008          | 15.00%                      | 12.05%                      | 14.96%                      | 12.30%                      | 2.02%                                     | \$21,809,041                         |  |  |  |
| 2004-2008 Avg | 25.57%                      | 20.55%                      | 22.85%                      | 18.78%                      | -8.62%                                    | (\$158,330,343)                      |  |  |  |
| 1999-2008 Avg | 18.09%                      | 14.53%                      | 16.42%                      | 13.49%                      | -7.16%                                    | (\$93,058,828)                       |  |  |  |
| 1988-2008 Avg | 12.39%                      | 9.96%                       | 11.80%                      | 9.70%                       | -2.61%                                    | (\$23,202,118)                       |  |  |  |
| 1981-2008 Avg | 11.39%                      | 9.15%                       | 11.06%                      | 9.09%                       | -0.63%                                    | (\$5,181,350)                        |  |  |  |

Proportional Reinsurance "B"

### 2005 SRA

- FCIC assumed a 5% Quota Share of the total gain or loss of a Company's book of business.
- Provision first introduced for the 2005 crop season.
- Due to the profitable nature of the business, this provision is the Government's way of reducing their cost to service and manage the MPCI program.

### 2011 SRA

- FCIC Quota Share increased to 6.5%.
- The Companies can recapture 1.5% of this gain based on their market share in the underserved states (Group 3).

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### **Standard Reinsurance Agreement (SRA)**

Assigned Risk Fund

- Accommodates company's least desirable business.
- FCIC sets forth allocation limitations by state, based on previous loss history.
- Crop contracts must be designated to Assigned Risk within 30 days of sales closing date (i.e., commitment to purchase deadline).
- If Assigned Risk designations exceed allocated state capacity (75% of total in state), the excess rolls proportionately to the Commercial Fund.
- 80% of designated premium and claims thereon are ceded proportionately to FCIC.
- Has the most extensive State Stop Loss protection. Maximum loss exposure is 116.5% (16.5 point underwriting loss) per state on the retained premium.

Commercial Fund Example

- Structured for a company's most profitable business.
- Profit/Loss Parameters vary between state groupings.
- Unlimited capacity per state.
- Company must retain at least 35% per state. We see 100% retention in most states.
- Up to 50% of designated premium can be ceded proportionately to FCIC.
- State Stop Loss limits company's exposure by product to 194% for Group 1 states and 151.5% for Groups 2 & 3 states. (94% and 51.5% point underwriting loss) per state on retained premium.
- Has most extensive profit potential of all funds.

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### **Standard Reinsurance Agreement (SRA)**

Examples

|  |               | Group 1 States |               | Group 2 & 3 States |               |               |  |
|--|---------------|----------------|---------------|--------------------|---------------|---------------|--|
|  | Assigned Risk | Commercial     | Total         | Assigned Risk      | Commercial    | Total         |  |
| Gross Premium                                      | 5,000,000     | 650,000,000    | 655,000,000   | 295,000,000        | 1,350,000,000 | 1,645,000,000 |  |
| Retained %   | 20%           | 100%           |               | 20%                | 100%          |               |  |
| Net Retained Premium<br>Net Retained Premium after | 1,000,000     | 650,000,000    | 651,000,000   | 59,000,000         | 1,350,000,000 | 1,409,000,000 |  |
| FCIC Cession                                       | 935,000       | 607,750,000    | 608,685,000   | 55,165,000         | 1,262,250,000 | 1,317,415,000 |  |
| Max Possible U/W Gain - %                          | 11.40%        | 34.75%         |               | 11.40%             | 42.63%        |               |  |
| Max Possible U/W Gain - \$                         | 106,590       | 211,193,125    | 211,299,715   | 6,288,810          | 538,097,175   | 544,385,985   |  |
| Max Possible Loss Ratio - %                        | 116.50%       | 194.00%        |               | 116.50%            | 51.50%        |               |  |
| Max Possible U/W Loss - \$                         | 1,089,275     | 1,179,035,000  | 1,180,124,275 | 64,267,225         | 650,058,750   | 714,325,975   |  |



# Standard Reinsurance Agreement (SRA) Examples

|       |         |             |       |         | GROSS    |       |         |         |       |
|-------|---------|-------------|-------|---------|----------|-------|---------|---------|-------|
|       | As      | ssigned Ris | sk    | C       | ommercia |       |         | Total   |       |
|       | Gross   | Gross       |       | Gross   | Gross    |       | Gross   | Gross   |       |
|       | Premium | Loss        | Gross | Premium | Loss     | Gross | Premium | Loss    | Gross |
| State | (000's) | (000's)     | LR    | (000's) | (000's)  | LR    | (000's) | (000's) | LR    |
| IA    | 100     | 100         | 100%  | 4,900   | 3,185    | 65%   | 5,000   | 3,285   | 66%   |
| MN    | 400     | 500         | 125%  | 4,600   | 2,300    | 50%   | 5,000   | 2,800   | 56%   |
| CA    | 1,000   | 1,000       | 100%  | 3,000   | 2,400    | 80%   | 4,000   | 3,400   | 85%   |
| TX    | 4,000   | 10,000      | 250%  | 1,000   | 950      | 95%   | 5,000   | 10,950  | 219%  |
| PA    | 250     | 500         | 200%  | 250     | 250      | 100%  | 500     | 750     | 150%  |
| Total | 5,750   | 12,100      | 210%  | 13,750  | 9,085    | 66%   | 19,500  | 21,185  | 109%  |

|       | After Proportional Reinsurance |             |       |         |             |      |         |         |      |  |
|-------|--------------------------------|-------------|-------|---------|-------------|------|---------|---------|------|--|
|       | Assi                           | gned Risk · | - 20% | Com     | mercial - 1 | 00%  | Total   |         |      |  |
|       | Net Ret                        | Net Ret     |       | Net Ret | Net Ret     |      | Net Ret | Net Ret |      |  |
|       | Premium                        | Loss        | Net   | Premium | Loss        | Net  | Premium | Loss    | Net  |  |
| State | (000's)                        | (000's)     | LR    | (000's) | (000's)     | LR   | (000's) | (000's) | LR   |  |
| IA    | 20                             | 20          | 100%  | 4,900   | 3,185       | 65%  | 4,920   | 3,205   | 65%  |  |
| MN    | 80                             | 100         | 125%  | 4,600   | 2,300       | 50%  | 4,680   | 2,400   | 51%  |  |
| CA    | 200                            | 200         | 100%  | 3,000   | 2,400       | 80%  | 3,200   | 2,600   | 81%  |  |
| TX    | 800                            | 2,000       | 250%  | 1,000   | 950         | 95%  | 1,800   | 2,950   | 164% |  |
| PA    | 50                             | 100         | 200%  | 250     | 250         | 100% | 300     | 350     | 117% |  |
| Total | 1,150                          | 2,420       | 210%  | 13,750  | 9,085       | 66%  | 14,900  | 11,505  | 77%  |  |

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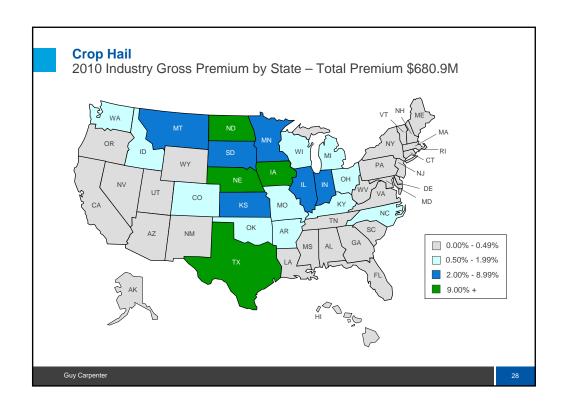
# **Standard Reinsurance Agreement (SRA)** Examples

|       |         | After Non-Proportional Reinsurance |        |         |            |        |         |           |        |  |  |
|-------|---------|------------------------------------|--------|---------|------------|--------|---------|-----------|--------|--|--|
|       | Α       | ssigned Ris                        | k      | (       | Commercial |        | Total   |           |        |  |  |
|       | Net Ret | U/W                                |        | Net Ret | U/W        |        | Net Ret | U/W       |        |  |  |
|       | Premium | Gain/Loss                          | Net    | Premium | Gain/Loss  | Net    | Premium | Gain/Loss | Net    |  |  |
| State | (000's) | (000's)                            | LR     | (000's) | (000's)    | LR     | (000's) | (000's)   | LR     |  |  |
| IA    | 20      | 0                                  | 100.0% | 4,900   | 1,286      | 73.8%  | 4,920   | 1,286     | 73.9%  |  |  |
| MN    | 80      | (1.5)                              | 101.9% | 4,600   | 1,484      | 67.8%  | 4,680   | 1,482     | 68.3%  |  |  |
| CA    | 200     | 0                                  | 100.0% | 3,000   | 585        | 80.5%  | 3,200   | 585       | 81.7%  |  |  |
| TX    | 800     | (72)                               | 109.0% | 1,000   | 49         | 95.1%  | 1,800   | (23)      | 101.3% |  |  |
| PA    | 50      | (3.5)                              | 106.9% | 250     | 0          | 100.0% | 300     | (3)       | 101.2% |  |  |
| Total | 1,150   | (77)                               | 106.7% | 13,750  | 3,404      | 75.2%  | 14,900  | 3,327     | 77.7%  |  |  |

When companies utilize the SRA effectively and cede business properly between the two Funds, they have the capability to adversely select against the FCIC by retaining high quality business and ceding marginal business to the Government. Reinsurers participate in the quality business retained by the companies and are essentially participating in a capped reinsurance program due to the inuring reinsurance protection offered by the FCIC.

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# Crop Hail



# **Crop Hail** 2010 Industry Premium by State

| State         | Premium      | % of<br>Total | State          | Premium       | % of<br>Total |
|---------------|--------------|---------------|----------------|---------------|---------------|
| Alabama       | \$508,499    | 0.07%         | Montana        | \$22,357,508  | 3.28%         |
| Alaska        |              | 0.00%         | Nebraska       | \$103,598,768 | 15.22%        |
| Arizona       | \$2,254,621  | 0.33%         | Nevada         | \$17,395      | 0.00%         |
| Arkansas      | \$7,488,321  | 1.10%         | New Hampshire  |               | 0.00%         |
| California    | \$1,274,024  | 0.19%         | New Jersey     | \$53,884      | 0.01%         |
| Colorado      | \$11,063,750 | 1.62%         | New Mexico     | \$1,894,596   | 0.28%         |
| Connecticut   |              | 0.00%         | New York       | \$97,829      | 0.01%         |
| Delaware      | \$15,219     | 0.00%         | North Carolina | \$9,056,280   | 1.33%         |
| Florida       | \$329,803    | 0.05%         | North Dakota   | \$73,710,906  | 10.83%        |
| Georgia       | \$1,247,190  | 0.18%         | Ohio           | \$7,030,135   | 1.03%         |
| Hawaii        |              | 0.00%         | Oklahoma       | \$9,944,341   | 1.46%         |
| Idaho         | \$10,555,585 | 1.55%         | Oregon         | \$2,481,328   | 0.36%         |
| Illinois      | \$55,141,722 | 8.10%         | Pennsylvania   | \$98,422      | 0.01%         |
| Indiana       | \$13,988,068 | 2.05%         | Rhode Island   |               | 0.00%         |
| lowa          | \$79,363,761 | 11.66%        | South Carolina | \$293,279     | 0.04%         |
| Kansas        | \$58,851,020 | 8.64%         | South Dakota   | \$37,763,955  | 5.55%         |
| Kentucky      | \$3,435,458  | 0.50%         | Tennessee      | \$1,425,943   | 0.21%         |
| Louisiana     | \$89,991     | 0.01%         | Texas          | \$63,338,124  | 9.30%         |
| Maine         |              | 0.00%         | Utah           | \$53,674      | 0.01%         |
| Maryland      | \$8,252      | 0.00%         | Vermont        |               | 0.00%         |
| Massachusetts | \$1,260      | 0.00%         | Virginia       | \$1,699,628   | 0.25%         |
| Michigan      | \$5,345,169  | 0.79%         | Washington     | \$9,976,171   | 1.47%         |
| Minnesota     | \$59,562,304 | 8.75%         | West Virginia  | 48            | 0.00%         |
| Mississippi   | \$536,974    | 0.08%         | Wisconsin      | \$11,392,860  | 1.67%         |
| Missouri      | \$11,812,882 | 1.73%         | Wyoming        | \$1,723,167   | 0.25%         |
|               |              |               | Total          | \$680,882,114 |               |

Data as of May 2011 per NCIS database

### **Crop Hail**

Historical Industry Premium and Loss Ratios

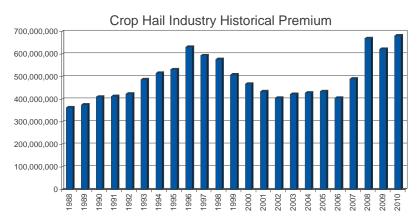
| Year | Premium       | Loss Ratio<br>(%) | Year | Premium       | Loss Ratio<br>(%) |
|------|---------------|-------------------|------|---------------|-------------------|
| 1988 | \$362,842,000 | 36.00%            | 1999 | \$508,108,000 | 76.00%            |
| 1989 | \$374,948,000 | 55.00%            | 2000 | \$468,108,000 | 68.00%            |
| 1990 | \$410,681,000 | 77.00%            | 2001 | \$433,742,000 | 69.00%            |
| 1991 | \$412,480,000 | 61.00%            | 2002 | \$404,995,000 | 70.00%            |
| 1992 | \$423,054,000 | 110.00%           | 2003 | \$422,137,000 | 56.00%            |
| 1993 | \$486,958,000 | 81.00%            | 2004 | \$427,567,000 | 58.00%            |
| 1994 | \$515,819,000 | 87.00%            | 2005 | \$434,771,000 | 44.00%            |
| 1995 | \$531,409,000 | 58.00%            | 2006 | \$405,254,000 | 50.00%            |
| 1996 | \$630,965,000 | 72.00%            | 2007 | \$489,649,000 | 48.00%            |
| 1997 | \$594,026,000 | 57.00%            | 2008 | \$669,436,000 | 83.00%            |
| 1998 | \$576,464,000 | 83.00%            | 2009 | \$621,840,000 | 84.00%            |
|      |               |                   | 2010 | \$680,882,000 | 67.00%            |

2010 Data as of May 2011 per NCIS database

Assume 25% Expenses

### **Crop Hail**

Industry Growth - Historical Perspective



- Prior to the advent of the Multi-Peril Crop Insurance, Farmers managed their agricultural risk through Crop Hail coverages and various disaster relief programs.
- With the increased popularity of CRC coverages, and higher MPCI subsidies to the Farmer, Crop Hail
- insurance products started to decline as a risk management tool.

  With the profitability of MPCI business, ceding companies targeted growth in the MPCI class by offering agents more competitive hail products.

# Private Reinsurance

### **Private Reinsurance**

- Quota Share
- Stop Loss/Aggregate Excess of Loss
- Industry Loss Warranty (ILW)
- Commodity Price Cover

### **Private Reinsurance**

**Quota Share** 

- Quota Share cessions can range widely in the industry, usually depending on the type of company insuring the business (stock, mutual or MGA/Fronting arrangements).
- Ceding Commissions, like most reinsurance agreements, are determined by viewing insurance company expenses as well as historical results.
- Reinsurance results for crop hail business are fairly well known by November 1, with final accounting during 1<sup>st</sup> quarter following end of treaty year.
- For MPCI business, results are fairly well known by February/March following the calendar year-end. New SRA means FCIC settlement won't occur until October/November the following year (subject to further adjustments).

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Stop Loss/Aggregate Excess

- Typical Crop Hail Stop Loss attachment points in the industry range from 80% to 100% of premium.
- Typical MPCI Stop Loss attachment points in the industry range from 100% to 110% of premium.
- Deposit premiums are typically due on July 1 and October 1 of the contract year.
- As is the case with Quota Share reinsurance, there is little or no tail to Stop Loss reinsurance.

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### **Private Reinsurance**

Industry Loss Warranty Example

Line of Business: Multi-Peril Crop Insurance (MPCI)

Term: January 1 – December 31, 2011

Loss Trigger: A. The Company must sustain a Net Loss: and

B. The Industry FCIC Gross Loss Ratio for 2011 FCIC year is greater than 170% as published by the Risk Management Agency

(RMA) in their Summary of Business Reports

Indemnification Payout: The Reinsurer shall indemnify the Company for an amount equal to

2.00% of \$3M for every 1.00% loss ratio point above 170% FCIC

gross loss ratio up to a 220% gross loss ratio.

Reinsurance Limit: Liability of the Reinsurer shall not exceed the lesser of the

Company's Net Retained Loss or \$3M.

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### **Private Reinsurance**

Commodity Price Cover - Corn Example

Line of Business: Multi-Peril Crop Insurance (MPCI) – Revenue Business for Corn

Term: January 1 – December 31, 2011

Final Corn Base Price: \$6.01 (3/15/11 closing date per RMA database)

Loss Trigger: A. The Company must sustain an increase in Gross Loss Ratio on all

Revenue Corn policies due to a decrease in the October Average Price for December Corn compared to the Final Corn Base Price as

determined by FCIC; and

B. The October Average Price for December Corn, as established by

the FCIC, is less than \$4.51.

Indemnification Payout/ The Reinsurer shall indemnify the Company for the greater of

Reinsurance Limit: \$833,500 or 1.667% part of \$50M for every \$.01 (1cent) that the

October Average Price for December Corn, as established by the

FCIC is less than \$4.51 subject to a floor price of \$3.91.

### Why Crop Insurance?

- Low Frequency of Loss
- Low Severity of Loss
- Controlled Environment Government oversees all aspects (rates, claims, underwriting, etc) of MPCI business
- Short Tail Nearly all claims settled within 90 days following close of the contract year
- Excellent Statistical Base
- Does Not Aggregate with Other Property Lines
- No "Direct Reinsurer" Involvement
- Annual Crop Conference

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