



**U.S. SENATE AG COMMITTEE VERSION OF NEW FARM BILL** (April 26, 2010)  
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**Overview:** On April 26, 2012; the U.S. Senate Committee on Agriculture, Nutrition, and Forestry reported the *Agriculture Reform, Food, and Jobs Act of 2012* (2012 Farm Bill) to the full Senate for its consideration. This article summarizes provisions that concern the safety net for U.S. crops: The provisions are in Title I, Commodity Programs; Title XI, Crop Insurance; and Title XII, Miscellaneous.

**2012 Farm Bill Crop Safety Net for 2013-2017 Crop Years**

- (1) Crop Insurance with new Supplemental Coverage Option (SCO)
- (2) Agriculture Risk Coverage (ARC) multiple-year, shallow loss program to complement crop insurance
- (3) Marketing Loans with loan rates at 2012 crop year levels, except cotton's loan rate can be lowered

**Brief Description of Selected Crop Insurance Related Provisions**

- ▶ SCO allows individual insurance to be supplemented with county insurance to cover all or part of the individual insurance deductible
  - type of loss covered by SCO is determined by individual insurance: SCO covers yield if farm elects individual yield insurance; and revenue with and without harvest price option (HPO) if farm elects individual revenue insurance with or without HPO
  - SCO coverage varies with participation in ARC: if not in ARC and if a loss of at least 10% occurs, covers losses between 0% and farm's individual insurance deductible; if in ARC, covers losses between 21% and farm's individual insurance deductible
- ▶ makes permanent the 2008 Farm Bill pilot program for enterprise crop insurance
- ▶ irrigated and non-irrigated enterprise insurance is to be made available in counties
- ▶ APH insurance yield will be calculated using 70%, in place of 60%, of the insurance transitional yield
- ▶ creates separate county insurance program for cotton, called STAX (Stacked Income Protection Plan)
  - premium subsidy is 80%, multiplier capped at 120% (not 150%), minimum deductible is 10%, maximum loss covered is 30%, and no cap exists on number of acres
- ▶ premium can be charged for catastrophic risk protection
  - premium reduced by percentage equal to difference between crop's average loss ratio and 100 percent, plus a reasonable reserve
- ▶ creates an additional coverage option under NAP (Noninsured Crop Assistance Program)
  - coverage does not exceed 65% with a premium fee of 5.25%
- ▶ peanut revenue insurance is to be offered beginning with 2013 crop
- ▶ premium subsidy and transitional yield is reduced for ground that has never been tilled
- ▶ premium subsidy is increased by 10 percentage points for beginning farmers
- ▶ allows margin insurance to be developed for crops
- ▶ creates pilot test program for index-based weather insurance for underserved crops and livestock (including specialty crops)
- ▶ authorizes studies for whole farm insurance, catastrophic insurance for swine, and margin insurance for catfish
- ▶ future Standard Reinsurance Agreements should be budget neutral

### **Brief Description of County and Individual Agricultural Risk Coverage Program (ARC)**

- ▶ Producer makes a 1-time, irrevocable decision to elect a county ARC if the county has sufficient data or an individual ARC
- ▶ Crops covered: wheat, corn, sorghum, barley, oats, long grain and medium grain rice, pulse crops, soybeans, other oilseeds, peanuts
  - Upland cotton is not a covered crop
  - Popcorn may be designated a covered crop if the Secretary of Agriculture approves after conducting a feasibility study
- ▶ Payments made on an individual crop basis
- ▶ Farm makes a 1-time, irrevocable decision to elect a county ARC if county has sufficient data or an individual farm ARC
  - Election applies to all acres under operational control of the farmer, including acres added to arm after the ARC election decision
  - Acres that change farms are subject to the election decision of the new farmer
  - Election decision is not on an individual FSA farm basis
  - Eligible acres adjusted for acres in summer fallow and crops to enrich the soil, as well as changes in Conservation Reserve acres
- ▶ For a covered crop, eligible acres are all acres planted or prevented from being planted to the crop on a farm during a crop year
  - A farm's total eligible acres cannot exceed its average acres planted to covered crops plus upland cotton for 2009-2012 crop years
  - Eligible acres do not include a 2<sup>nd</sup> crop on the same acre unless Secretary of Agriculture has approved double cropping in an area
- ▶ Coverage is for losses between 11% and 21% of the ARC benchmark value
  - Benchmark revenue for the county or individual farm is calculated using an Olympic average (removes low and high values) for the 5 most recent crop years of (1) U.S. price for the crop marketing year and (2) either yield per planted acre for the county or yield per planted acre for the farm in a county
    - Benchmark values for yield are calculated, if practicable, for irrigated and non-irrigated acres
    - In calculating the Olympic average price for peanuts and rice, establishes a minimum price for any crop marketing year of not less than \$530/ton for peanuts and \$13.00/hundredweight for rice
    - National average price is differentiated by type of sunflower seed, malting and other barley, and class of wheat
  - Actual county or individual farm revenue is calculated using (1) the U.S. average price for the first 5 months of the crop marketing year and (2) yield per planted acre in the county or yield per planted acre on all the farm's acres planted to the crop in the county
- ▶ Payment can vary by county for both the county and individual ARC programs (since individual farm yields are calculated by county)
- ▶ Farmer can use production reported for crop insurance purposes to establish yields
  - If a farmer cannot prove yields, the yield for a representative farm is used
  - Minimum yield is 60% of the applicable insurance transitional yield for years prior to 2013 and 70% of the applicable insurance transitional yield for the year 2013 and latter years
- ▶ Limit on payment per payment entity per year is \$50,000 for peanuts and \$50,000 for all other covered crops
  - Spouses can be a payment entity
- ▶ No payments can be received if a payment entity's average adjusted gross income over the 3 preceding taxable years exceeds \$750,000 (Adjusted Gross Income Limitation)
- ▶ Conservation compliance and wetland protection must be met to be eligible for ARC payments

Calculations for the ARC Program and Notes on the Calculations (differences in calculation are highlighted in red)

| County ARC   | Individual ARC   | Calculation Notes   |
|--|--|---|
| <p><b>Payment made if</b><br/>actual <b>county</b> revenue<br/>is less than<br/>89% of benchmark <b>county</b> revenue</p>   | <p><b>Payment made if</b><br/>actual <b>farm revenue in county</b><br/>is less than<br/>89% of benchmark <b>farm revenue in county</b></p>   | <ul style="list-style-type: none"> <li>▶ crops covered: wheat, corn, oats, sorghum, barley, long &amp; medium grain rice, pulse crops, soybeans, other oilseeds, peanuts</li> <li>▶ upland cotton is not a covered crop</li> <li>▶ payment made on individual crop basis</li> </ul>   |
| <p><b>Benchmark Revenue</b><br/>Olympic average <b>county</b> yield for 5 prior crop years (low &amp; high yield removed) times<br/>Olympic average U.S. price for 5 prior crop years (low &amp; high price removed)</p> | <p><b>Benchmark Revenue</b><br/>Olympic average <b>farm yield in county</b> for 5 prior crop years (low &amp; high yield removed) times<br/>Olympic average U.S. price for 5 prior crop years (low &amp; high price removed)</p> | <ul style="list-style-type: none"> <li>▶ individual farm yield is calculated by county</li> <li>▶ benchmark values calculated for irrigated and non-irrigated acres, if practicable</li> <li>▶ U.S. average price differentiated by malting and other barley, sunflower seed type, &amp; wheat class</li> <li>▶ price used to calculate the Olympic average price cannot be less than \$530/ton for peanuts &amp; \$13.00/hundredweight for rice in any crop year (establishes a floor on rice and peanut benchmark price and revenue, assuming yields do not decline)</li> </ul> |
| <p><b>Actual Revenue</b><br/><b>(yield for county)</b><br/>times<br/>(average U.S. price for first 5 months of the crop's marketing year)</p>  | <p><b>Actual Revenue</b><br/><b>(yield for farm's acres in a county)</b><br/>times<br/>(average U.S. price for first 5 months of the crop's marketing year)</p>  | <ul style="list-style-type: none"> <li>▶ yield based on planted acres</li> <li>▶ individual farm yield is calculated by county</li> <li>▶ price is referred to as the midseason price</li> </ul>  |
| <p><b>Per Acre Payment</b><br/>Smaller of [(89% of <b>county</b> benchmark revenue minus actual <b>county</b> revenue) or (10% of <b>county</b> benchmark revenue)]</p>  | <p><b>Per Acre Payment</b><br/>Smaller of [(89% of <b>farm</b> benchmark revenue minus actual <b>farm</b> revenue) or (10% of <b>farm</b> benchmark revenue)]</p>  | <ul style="list-style-type: none"> <li>▶ maximum loss covered is 10% of benchmark value</li> <li>▶ covers losses that occur between 79% and 89% of the benchmark revenue</li> </ul>   |
| <p><b>Total Payment</b><br/><b>80%</b> of eligible planted acres times <b>county</b> per acre payment plus<br/>45% of eligible prevent planted acres times <b>county</b> per acre payment</p>                            | <p><b>Total Payment</b><br/><b>65%</b> of eligible planted acres times <b>farm</b> per acre payment plus<br/>45% of eligible prevent planted acres times <b>farm</b> per acre payment</p>  | <ul style="list-style-type: none"> <li>▶ payment can vary by county for both county and individual ACR</li> <li>▶ payment limit per payment entity per year is \$50,000 for peanuts and \$50,000 for all other covered crops</li> <li>▶ Adjusted Gross Income Limit: \$750,000</li> <li>▶ conservation compliance &amp; wetland protection apply</li> </ul>   |

### Comparison of Parameters for Individual and County ARC and Insurance Supplemental Coverage Option (SCO)

KEY: APH = crop insurance average production history yield; cwt. = hundredweight; MAX = higher of 2 values; Olympic average removes high and low values

| Program Parameter                       | County Agriculture Risk Coverage (County ARC)  | Individual Agriculture Risk Coverage (Individual ARC)  | Insurance Supplemental Coverage Option (SCO)   |
|---|--|--|--|
| <b>Unit Covered</b>                     | individual crop by county  | individual crop on farm operation in county  | individual crop by county  |
| <b>Losses Covered</b>                   | losses between 11% and 21% of benchmark revenue  | losses between 11% and 21% of benchmark revenue  | if not in ARC and loss of at least 10% of yield or revenue occurs, loss between 0% and farm's individual yield or revenue insurance deductible<br>if in ARC, loss between 21% of county yield or revenue and farm's individual yield or revenue insurance deductible |
| <b><u>Benchmark Value</u></b>           |  |  |  |
| <b>Revenue</b>                          | yield times price  | yield times price  | yield times price  |
| <b>Yield</b>                            | Olympic average county yield for 5 most recent crop years  | Olympic average farm yield <sup>A</sup> for 5 most recent crop years   | county expected yield  |
| <b>Price</b>                            | Olympic average U.S. price for 5 most recent crop years, but minimum of \$13.00/cwt. for rice & 530/ton for peanuts in any crop year | Olympic average U.S. price for 5 most recent crop years, but minimum of \$13.00/cwt. for rice & \$530/ton for peanuts in any crop year | current method for setting plant (expected) insurance futures price <sup>B</sup>   |
| <b><u>Realized Value</u></b>            |  |  |  |
| <b>Revenue</b>                          | yield times price  | yield times price  | yield times price  |
| <b>Yield</b>                            | county crop yield  | farm operation crop yield in county  | county crop yield  |
| <b>Price</b>                            | MAX[U.S. price for 1 <sup>st</sup> 5 months of crop year or U.S. loan rate]  | MAX[U.S. price for 1 <sup>st</sup> 5 months of crop year or U.S. loan rate]  | current method for setting harvest insurance futures price <sup>B</sup>  |
| <b>Payment Acres</b>                    | 80% of eligible planted acres of crop<br>45% of eligible prevent plant acres of crop   | 65% of eligible planted acres of crop<br>45% of eligible prevent plant acres of crop   | 100% of planted acres  |
| <b>Premium Subsidy</b>                  | not applicable   | not applicable   | 70%  |
| <b>Payment Limit for Payment Entity</b> | \$50,000 for peanuts<br>\$50,000 for all other covered crops   | \$50,000 for peanuts<br>\$50,000 for all other covered crops   | None   |

NOTES: (A) Farmer can use production reported for crop insurance to establish yields. If a farmer cannot prove yields, yield for a representative farm is used. Minimum yield is 60% of the applicable insurance transitional yield for years prior to 2013 and 70% of the applicable insurance transitional yield for 2013 and latter years. (B) The Bill does not mention these program parameters, which leads me to assume the current methods will be used. This assumption may be incorrect.

## Thoughts on the Farm Safety Net

**This farm bill draft clearly moves the U.S. farm safety net in the direction of risk management.** The elimination of direct payments, creation of ARC, and enhancements to crop insurance all support this observation.

**Individual farm crop insurance emerges as the foundation for the farm safety net.** However, the search for a complement program remains on-going. This bill proposes 3 alternatives: (1) a county multiple-year shallow loss program (i.e., county ARC), (2) a farm multiple-year, shallow loss program (i.e., farm ARC), and (3) a supplemental county insurance coverage option (SCO). While many desire a single complement program, it is important to remember that risk varies notably across the U.S. and by crop. This variation makes creation of a single program to complement insurance difficult. Thus, the optimal policy might be multiple programs to complement insurance.

## Thoughts on Farm Safety Net Decisions

Should the proposed safety net come into existence, farmers will have to decide their preferred safety net combination. The possible combinations include:

- ▶ individual insurance plus marketing loans
- ▶ individual insurance plus SCO and marketing loans
- ▶ individual insurance plus county ARC and marketing loans
- ▶ individual insurance plus individual ARC and marketing loans
- ▶ individual insurance plus county ARC, SCO, and marketing loans
- ▶ individual insurance plus individual ARC, SCO, and marketing loans

**Because the decision involves the management of risk and because risk varies by crop, region, farm, and farmer; the discussion needs to begin with a recognition that no universal recommendation exists. The appropriate combination will vary.** However, consideration of the following factors will nudge the decision toward one of the options. Future farmdoc articles will look at this decision in more detail, as well as how expected payments will vary by crop and region.

**The first factor is what value the farmer places on multiple-year risk protection.** Crop insurance guarantees are reset each year based on the futures prices during the discovery period for the expected planting price. In contrast, the ARC guarantee is set using an Olympic average of prices and yields over the 5 previous crop years. If prices decline substantially, the ARC guarantee will decline more slowly than the crop insurance guarantee. In fact, it likely will not decline in the first year of a substantial price decline because the Olympic average removes the low value. The marketing loan also provides multiple year protection, but loan rates will be well below the ARC price for the 2013 and 2014 crop years. Thus, the more a farmer is concerned about multiple year risk, the more likely ARC will be chosen.

**A second factor is whether the farm's greatest risk is (1) low yield on their farm or (2) low market price.** The individual ARC and SCO are more attractive the more variable is the yield of the farm and county. In contrast, if low prices are the more important risk, the county ARC is more attractive due to its greater payment rate for planted acres (80% vs. 65% for the individual farm ARC).

**A third factor is the farm's yield relative to the yield of the county in which the farm is located.** The individual ARC is more attractive the higher a farm's yield is relative to the county yield while the county ARC is more attractive if a farm's yield is less than the county yield. A simple calculation suggests that the individual ARC is especially more attractive if a farm's average yield is more than 25% above the average county yield.

**A fourth factor is that SCO covers all of the county loss once the 10% loss target is met and if the farmer is not in ARC.** In other words, the deductible disappears. This is an important consideration because it substantially enhances the loss that is covered by SCO, especially at low loss levels. A simple analysis suggests that the deductible on county yield will disappear if the county yield loss is between 10% and 15%. This disappearing deductible is an important feature that farmers will want to carefully examine.

**A fifth factor is the relationship between the variability of yield or revenue on the farm and yield or revenue in the county.** The closer the match between farm and county variability, the more likely the farm's risk can be covered by the county's risk. Everything else the same, larger farms scattered across the county will more likely match the county's variability. Farms that more closely match the county will likely tilt toward choosing the county ARC because of its higher coverage level or to forego ARC for SCO because of SCO's disappearing deductible at low loss levels.

**A sixth factor is the \$50,000 limit on ARC payments.** Risk management programs will make large payments when a sizable loss occurs. However, occurrence of such a loss is not known until after the crop is planted. To limit payments when they are most needed undermines the program and makes the management of farm risk much more difficult. The ARC payment limit will nudge farmers toward individual insurance and SCO because they have no payment limit.

In summary, when taken as a group, these 5 factors suggest the following decision matrix:

- (1) If multiple year risk protection is a priority, elect ARC.
  - Choice of county or individual ARC will depend upon the farmer's priority regarding individual farm yield risk or price risk, whether the farm's yield is higher or lower than the county yield, and other factors.
  - For farmers in areas with low yield variability and who elect to participate in ARC, consider a lower individual insurance coverage and SCO for losses greater than those covered by ARC. This decision will rest in part upon the premium charged for the SCO associated with ARC.
- (2) If multiple year risk protection is not a priority, take SCO.
  - Choice of high or low individual insurance coverage will in part rest on the farm's yield variability, especially relative to the county.

I also think the decision regarding participation in ACR could be different between small and large farms because of ACR's \$50,000 payment limit and because county variability will generally more closely match a large farm's variability.

Please note that these are initial thoughts and will change as more information becomes available, especially from farm level analyses and discussion with farmers and colleagues. Again, future farmdoc articles will provide analysis for this important risk management decision.

## Thoughts on Other Farm Safety Net Features

The Bill allows the Risk Management Agency and private crop insurance companies to develop margin insurance for crops. Margin insurance refers to the difference between gross revenue and cost of production. Margin insurance will raise difficult public policy issues. An important explanation for the different margins observed across farms, both within a production year and across time, is management performance. A farm's margin also is related notably to farm size, being lower for larger farms. A significant reason for the lower cost on larger farms is the ability of larger farms to buy inputs at a lower cost than smaller farms due to the number of inputs they buy. Hence, setting margin insurance at an average margin for the crop will provide more protection to larger farms than to smaller farms, thus encouraging the growth of larger farms. And, the advantage provided the larger farm may have nothing to do with management performance, but simply with. While it is reasonable to allow private insurance to offer margin insurance to farmers, **it is also reasonable to ask whether the public should subsidize margin insurance when key determinants of the difference in margin across farms is not due to risk.**

A commonly-expressed desire for the 2008 Farm Bill was to reduce overlap in farm programs. This objective is clearly advanced by limiting the ARC program to losses between 11% and 21% compared with the larger range of losses covered by both ACRE and SURE. However, because different prices and yields are used to determine the ARC benchmark values and the insurance plant guarantee values, overlap continues to exist. For the 2012 crop year, the estimated benchmark price for ACR for Illinois corn, soybeans, and wheat is less than the insurance plant (expected) price. **Thus, despite reductions in farm program overlap, ARC and crop insurance can still cover some of the same losses.** The only ways to eliminate all overlap is to integrate insurance and commodity programs or to make ARC effective only if its benchmark revenue exceeds the crop insurance revenue guarantee. At present, neither of these options is likely to be politically acceptable.



**The fixed minimum price for any crop year in the ARC for peanuts and rice is a potentially important policy parameter, especially if prices decline.** Fixing support if prices decline substantially and permanently will shift resources to the crops with fixed support, leading to potential resource misallocations. For a discussion of the issues related to fixed support rates, please see this earlier farmdoc article.

**Caveat:** This is a draft farm bill. The bill must be passed by both the House and Senate and signed by the President. In addition, as part of the agreement to address the Brazilian cotton case with the World Trade Organization (WTO), Brazil will have to decide if it finds the proposed cotton program acceptable and what actions it will take if it finds the cotton program unacceptable. In short, there are lots of steps remaining before the farm bill is finalized. Much discussion will occur and changes will be made.

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