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# ***Economic Impacts of the Safety Net Provisions in the 2012 Senate and House Farm Bills on AFPC's Representative Crop Farms***

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**Working Paper 12-2  
July 2012**



## **Agricultural and Food Policy Center**

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# **Economic Impacts of the Safety Net Provisions in the 2012 Senate and House Farm Bills on AFPC's Representative Crop Farms**

## **Executive Summary**

The safety net provisions in the Senate (S. 3240) and the Federal Agriculture Reform and Risk Management (FARRM) Act of 2012 released by the House July 5, 2012 are analyzed with respect to their economic impacts on 64 representative crop farms maintained by the Agricultural and Food Policy Center (AFPC) at Texas A&M University. The Congressional Budget Office has estimated that reforms to Titles 1 and 11 in both the House and Senate farm bills will result in net deficit reduction between \$14 billion and \$15 billion over the next 10 years.<sup>1</sup> This analysis incorporates both historical price and production risk for the farms to evaluate and compare the “safety net” aspects of these bills. Macroeconomic and commodity data projections are from the January 2012 Food and Agricultural Policy Research Institute (FAPRI) baseline. The farm’s preference for one policy alternative over another was based on the alternative with the highest average net cash farm income (NCFI) over the life of the farm bill.

This report considered the combined support of Title I programs (ARC, PLC, and RLC) with the SCO and STAX choices in Title XI. In addition, both AGI and individual payment limits were taken into consideration.

Under current Baseline price projections, more of the representative farms would prefer the county-based ARC program over the individual-based ARC program in the Senate. A large number of the representative farms would prefer to opt out of the ARC program in favor of an SCO option with a wider payment band. The representative farms would prefer the House PLC option over the RLC option primarily due to the RLC not having the SCO option. Under baseline prices, all of the representative farms would prefer the House PLC option over any Senate option.

The results were very similar for the declining price scenario except that more farms would choose individual-based ARC over county-based ARC. There was a dramatic reduction in the number of farms opting out of ARC for SCO because SCO benefits are projected to decline substantially when prices fall over time. The

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<sup>1</sup> Senate: <http://www.cbo.gov/sites/default/files/cbofiles/attachments/s3240Passed.pdf>. House: <http://www.cbo.gov/sites/default/files/cbofiles/attachments/LettertoLucasDraftLegis.pdf>.

substantial increase in PLC benefits offset the decline in SCO benefits and results in all farms preferring the House PLC option over any Senate option under the declining price scenario.

The following conclusions can be drawn from the analysis:

- All of the Title I options provide some safety net support under current price forecasts. The House SCO alternative that has a wider payment band than the Senate SCO option (for producers in Senate ARC) provides significant support under current price forecasts much like the shallow loss plans.
- The Senate Individual and County based ARC options and the House RLC option are very similar except for two big considerations:
  - Reference prices are included in the House which provide downside protection when prices decline.
  - The lower payment limit in the Senate reduces the effectiveness of these Senate options when prices decline.

All of these revenue plans suffer from the inability to provide adequate safety net protection during declining prices. Only the House PLC option provides support at meaningful levels when prices decline.

- SCO provides significantly less safety net support when prices are declining due to the reliance on current futures market prices in setting the benchmark.
- STAX with a reference price provides significantly more protection than without.
- Senate payment and AGI limits would be binding regularly enough to make the Senate options provide substantially less safety net benefits to one-fourth of the representative farms.

## **Economic Impacts of the Safety Net Provisions in the 2012 Senate and House Farm Bills on AFPC's Representative Crop Farms**

### **Introduction**

This report analyzes the economic impacts of the safety net provisions in the Agriculture Reform, Food and Jobs Act of 2012 (S. 3240) as passed by the Senate Committee on Agriculture, Nutrition and Forestry and the Federal Agriculture Reform and Risk Management (FARRM) Act of 2012 as released by the House Committee on Agriculture on Thursday, July 5, 2012, on the Agricultural and Food Policy Center's (AFPC's) 64 representative crop farms. Amendments to the Committee passed Senate bill were not included. This analysis includes the commodity program provisions contained in Title I of each package as well as the Stacked Income Protection Plan for producers of upland cotton (STAX) and the Supplemental Coverage Option (SCO) provisions contained in Title XI.

### **Description of Senate and House Farm Bill Provisions**

Both the Senate and House farm bill packages cover the 2013 to 2017 time period and are similar in a number of respects. However, there are a few significant differences worth noting. Table 1 contains selected provisions of the Senate and House farm bill packages.

The primary safety net provisions in the Senate bill are a shallow loss revenue protection plan called Agriculture Risk Coverage (ARC), an area-wide supplemental crop insurance option referred to as the Supplemental Coverage Option (SCO), and the Stacked Income Protection Plan for producers of upland cotton (STAX).

The Senate ARC alternative allows producers to choose between coverage at the county level or individual producer level. This is described as a one-time irrevocable decision with the county option paying on more acres than the individual level coverage option. Both county and individual coverage ARC options are eligible for SCO coverage (from 79% down to their individual insurance coverage level). In addition, the Senate farm bill package allows producers to opt out of ARC completely. If they choose this option, producers would only have SCO coverage but with a wider SCO coverage band (from 90% percent down to their individual insurance coverage level).

The House Title I provisions offer producers a choice of price or revenue-based risk protection on a crop-by-crop and farm-by-farm basis. With this election, producers have a one-time irrevocable choice of a revenue protection plan called revenue loss

coverage (RLC) or a price loss coverage (PLC) option similar to the counter-cyclical payment (CCP) program in the 2002 and 2008 Farm Bills (Table 2). RLC is similar to the county ARC option in the Senate farm bill with the most notable differences being ARC only has reference prices for rice and peanuts where RLC has reference prices for all program crops, and RLC lowers the trigger point by 4%, requiring producers to incur a 15% loss before receiving assistance.

The most important difference between PLC and the current CCP program is that the PLC option pays on planted acres with a whole farm base limitation rather than being paid on base acres. Producers choosing PLC have an option to update their payment yields to 90% of the average yield per planted acre for the 2008-2012 crop years.

The Title XI provisions in the House bill are similar to the Senate in that SCO and STAX are offered but at significantly different coverage levels for SCO and with a reference price in STAX in the House bill (Table 3). Also, producers choosing the House RLC option would not be eligible for SCO coverage. Both the Senate and House allow cotton producers the choice between STAX and SCO coverage.

Another significant difference between the two bills is the payment limitation provisions. The Senate bill has a \$50,000 payment limitation on ARC benefits while the House farm bill package has a \$125,000 limitation on combined PLC and RLC payments. Both the Senate and House combine non-farm and farm sources of adjusted gross income (AGI) to form one overall AGI limitation with the Senate at \$750,000 and the House at \$950,000.

**Table 1. Selected Shallow Loss Safety Net Provisions of the Senate and House Farm Bills.**

| <b>Provisions</b>                                                                      | <b>Senate Agriculture Risk Coverage (ARC) Provisions</b>                                                                                                                                                                                                         | <b>House Revenue Loss Coverage (RLC) Provisions</b>                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Revenue guarantee</b>                                                               | Starts at 89% of previous 5-year moving Olympic average revenue for the crop                                                                                                                                                                                     | Starts at 85% of previous 5-year moving Olympic average revenue for the crop                                                                                                                                                                          |
| <b>County Level or Individual Level Coverage</b>                                       | One time irrevocable producer selection of either county level or individual level                                                                                                                                                                               | One time irrevocable producer selection of county-level RLC over PLC                                                                                                                                                                                  |
| <b>Payment acres</b>                                                                   | 65% of planted acres not to exceed the average total acres planted or prevented from being planted to covered commodities and upland cotton on the farm for the 2009 – 2012 crop years if individual level coverage is selected or 80% for county level coverage | 85% of planted acres and 30% of prevented planted acres not to exceed base acres on the farm (upland cotton base acres are included in total farm base acres) (payment factor of 85% is applied to planted acres before checking whole farm base cap) |
| <b>Payment band or range</b>                                                           | 10% (89% to 79%)                                                                                                                                                                                                                                                 | 10% (85% to 75%)                                                                                                                                                                                                                                      |
| <b>Actual revenue</b>                                                                  | Calculated using the average price during the first 5 months of the marketing year and actual yields                                                                                                                                                             | Calculated using the average price during the first 5 months of the marketing year and actual yields                                                                                                                                                  |
| <b>Mandatory or Optional</b>                                                           | Producer has the option to opt out of ARC and select SCO with a wider coverage level                                                                                                                                                                             | Producer has the option to select RLC or price loss coverage (PLC) with SCO                                                                                                                                                                           |
| <b>Transitional Yields Used to Replace Low Yields in Calculating Revenue Guarantee</b> | Can replace low yields with 60% of transitional yields in 2012 or prior years and 70% in 2013 or any subsequent years                                                                                                                                            | Can replace any low yield in revenue calculations with 70% of the transitional yield                                                                                                                                                                  |

**Table 1. Continued.**

| <b>Provisions</b>                                                                   | <b>Senate Agriculture Risk Coverage (ARC) Provisions</b>                                                                        | <b>House Revenue Loss Coverage (RLC) Provisions</b>                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reference Prices Used to Replace Low Prices in Calculating Revenue Guarantee</b> | Only applicable for rice and peanuts<br>Long Grain Rice - \$13.00/cwt<br>Medium Grain Rice - \$13.00/cwt<br>Peanuts - \$530/ton | Wheat - \$5.50/bu<br>Corn - \$3.70/bu<br>Grain Sorghum - \$3.95/bu<br>Barley - \$4.95/bu<br>Oats - \$2.40/bu<br>Long Grain Rice - \$14.00/cwt<br>Medium Grain Rice - \$14.00/cwt<br>Soybeans - \$8.40/cwt<br>Other Oilseeds - \$20.15/cwt<br>Peanuts - \$535/ton<br>Dry Peas - \$11.00/cwt<br>Lentils - \$19.97/cwt<br>Small Chickpeas - \$19.04/cwt<br>Large Chickpeas - \$21.54/cwt |
| <b>Payment Limit</b>                                                                | \$50,000, peanuts with a separate limit                                                                                         | \$125,000, peanuts with a separate limit                                                                                                                                                                                                                                                                                                                                              |
| <b>AGI Limitation</b>                                                               | \$750,000                                                                                                                       | \$950,000                                                                                                                                                                                                                                                                                                                                                                             |



**Table 2. Selected Price Loss Coverage (PLC) Safety Net Provisions of the House Farm Bill.**

| <b>Provisions</b>       | <b>House Price Loss Coverage (PLC) Program</b>                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Payment Acres</b>    | 85% of planted acres and 30% of prevented planted acres not to exceed base acres on the farm (upland cotton base acres are included in total farm base acres) (payment factor of 85% is applied to planted acres before checking whole farm base cap)                                                                                                                                |
| <b>Reference Prices</b> | Wheat - \$5.50/bu<br>Corn - \$3.70/bu<br>Grain Sorghum - \$3.95/bu<br>Barley - \$4.95/bu<br>Oats - \$2.40/bu<br>Long Grain Rice - \$14.00/cwt<br>Medium Grain Rice - \$14.00/cwt<br>Soybeans - \$8.40/bu<br>Other Oilseeds - \$20.15/cwt<br>Peanuts - \$535/ton<br>Dry Peas - \$11.00/cwt<br>Lentils - \$19.97/cwt<br>Small Chickpeas - \$19.04/cwt<br>Large Chickpeas - \$21.54/cwt |
| <b>Price Trigger</b>    | If the average price during the first 5 months of the marketing year falls below the reference price for the commodity                                                                                                                                                                                                                                                               |
| <b>Payment Yields</b>   | CCP yields from the 2008 Farm Bill. Producer option to update payment yields to 90% of the average yield per planted acre for the crop from 2008 to 2012, excluding any crop year in which the acreage planted was zero. May substitute a plug of 75% of the county average yield.                                                                                                   |
| <b>Payment Limit</b>    | \$125,000, peanuts with a separate limit                                                                                                                                                                                                                                                                                                                                             |
| <b>AGI Limitation</b>   | \$950,000                                                                                                                                                                                                                                                                                                                                                                            |

**Table 3. SCO and STAX Provisions of the Senate and House Farm Bills.**

| <b>Provisions</b>           | <b>Senate SCO and STAX</b>                                                                                                                                                               | <b>House SCO and STAX</b>                                                                                                 |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>SCO Coverage</b>         | Producer has the option of purchasing an area-wide policy to cover a portion of the individual crop insurance deductible.                                                                | Producer has the option of purchasing an area-wide policy to cover a portion of the individual crop insurance deductible. |
| <b>SCO Coverage Band</b>    | If an ARC participant, coverage from individual producer insurance coverage level up to 79%. If producer opts out of ARC, then from individual producer insurance coverage level to 90%. | If in PLC, from individual producer insurance coverage level up to 90%. Not available if in RLC.                          |
| <b>SCO Premium Subsidy</b>  | 70%                                                                                                                                                                                      | 70%                                                                                                                       |
| <b>STAX Coverage Band</b>   | 20% of expected county revenue subject to a 10% deductible.                                                                                                                              | 20% of expected county revenue subject to a 10% deductible.                                                               |
| <b>STAX Reference Price</b> | None                                                                                                                                                                                     | \$0.6861/lb                                                                                                               |
| <b>STAX Premium Subsidy</b> | 80%                                                                                                                                                                                      | 80%                                                                                                                       |

## **Methodology**

The simulation analysis was conducted over the 2009-2017 planning horizon using FLIPSIM, AFPC's whole farm simulation model. The FLIPSIM model incorporates the historical risk faced by farmers for prices and production so the safety net aspects of the bills can be compared. Several years of historical data (2009-2012) are included in the analysis to ensure the results are tracking the financial outcomes experienced in the recent past.

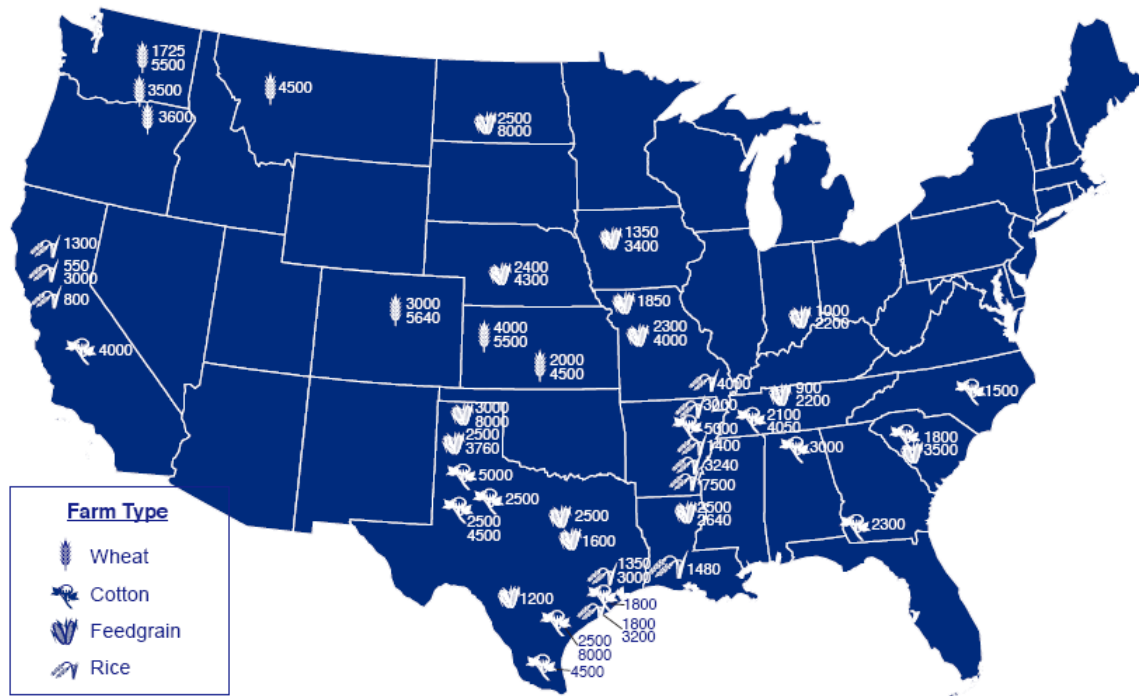
Data to simulate farming operations in the nation's major production regions came from two sources:

- Producer panel cooperation to develop economic information to describe and simulate representative crop farms located in major production regions across the United States (Figure 1). The representative farms are categorized by their primary source of receipts, i.e., feedgrains, cotton, rice and wheat. Information to describe and simulate these farms comes from a panel of farmers in each local area. The farm panels are reconvened frequently to update their farm's data.

The representative farm database has been used for policy analysis for nearly 30 years. Tables summarizing the physical and financial characteristics of each farm are included in Appendix A. The current crop mix, receipts, acreage, and assets for the farms are presented in the tables. Appendix B provides the names of producers, land grant faculty, and industry leaders who cooperated in the panel interview process to develop the representative farms. Additional information about the representative farms can be found in Richardson, et al, 2012.

- Projected prices, policy variables, and input inflation rates from the Food and Agricultural Policy Research Institute (FAPRI) January 2012 Baseline (Tables 4 and 5). For most farm policy analyses, FAPRI will develop new sector level estimates when the policy change is substantial enough to cause concern that relative prices among commodities may change. FAPRI conducted preliminary analyses for House Agriculture Committee staff and found relatively small price impacts would occur when considering the changes in this report in their sector models. Therefore, we did not utilize different sector results for each policy change.
- Risk on both prices and yields are included in the analysis to add the variability or risk that farmers are likely to encounter in the future. Given the January 2012 Baseline price levels and historical price risk, the PLC does not trigger very often.

*The numbers and icons represent the location, type, and acreage of the various AFPC representative crop farms.*



**Figure 1. Location and Size of AFPC Representative Farms and Classification.**

### Key Assumptions

- All farms classified as moderate scale are the size (acres) considered to be representative of a majority of full-time commercial farming operations in the study area. In many regions, a second farm two to three times larger than the moderate scale farm is developed as an indicator of size economies.
- Historical crop yields and prices (2009-2011) were based on actual values obtained from the producers. Crop yields for 2012-2017 were simulated stochastically based on the average yields provided by the producers and the historical yield variability for the farm. FAPRI's January 2012 Baseline prices were localized for the farms and used as the average prices for 2012-2017 to simulate stochastic crop prices.
- The representative crop farms were simulated with the 2008 Farm Bill provisions in place for 2009-2012. From 2013 to 2017, each of the 64 farms was analyzed assuming the provisions of the Senate or House packages. The 2008 Farm Bill payment limit provisions were in place for 2009-2012. Starting in 2013, all farms are subject to the applicable payment limits from the Senate and House farm bills.

**Table 4. FAPRI January 2012 Baseline Projections of Crop Prices, 2013-2017.**

|                       | 2013   | 2014   | 2015   | 2016   | 2017   |
|-----------------------|--------|--------|--------|--------|--------|
| Corn (\$/bu.)         | 4.71   | 4.77   | 4.86   | 4.84   | 4.8    |
| Wheat (\$/bu.)        | 5.6    | 5.8    | 6.03   | 6.15   | 6.15   |
| Cotton (\$/lb.)       | 0.7788 | 0.7969 | 0.8123 | 0.8234 | 0.8242 |
| Sorghum (\$/bu)       | 4.54   | 4.6    | 4.71   | 4.71   | 4.69   |
| Soybeans (\$/bu.)     | 11.25  | 11.18  | 11.28  | 11.42  | 11.43  |
| Barley (\$/bu.)       | 4.88   | 4.93   | 5.02   | 5.01   | 5      |
| Oats (\$/bu.)         | 2.95   | 2.94   | 2.97   | 2.97   | 2.97   |
| Rice (\$/cwt.)        | 12.74  | 13.08  | 13.44  | 13.75  | 13.79  |
| Soybean Meal (\$/ton) | 262.37 | 269.16 | 278.66 | 284.35 | 286.27 |
| All Hay (\$/ton)      | 137.85 | 135.88 | 139.49 | 143.45 | 146.25 |
| Peanuts (\$/ton)      | 520.99 | 515.48 | 520.25 | 520.04 | 515.72 |

Source: Food and Agricultural Policy Research Institute (FAPRI) at the University of Missouri - Columbia.

**Table 5. FAPRI January 2012 Baseline Assumed Rates of Change in Input Prices and Annual Change in Land Values 2013-2017.**

|                                                    | 2013 | 2014 | 2015 | 2016  | 2017  |
|----------------------------------------------------|------|------|------|-------|-------|
| <b>Annual Rate of Change for Input Prices Paid</b> |      |      |      |       |       |
| Seed Prices (%)                                    | 4.07 | 0.6  | 0.37 | 1.19  | 0.92  |
| Fertilizer Prices (%)                              | 3.84 | 1.53 | 1.91 | 1.45  | 0.9   |
| Herbicides Prices (%)                              | 4.39 | 3.4  | 1.89 | 1.36  | 0.68  |
| Insecticide Prices (%)                             | 3.9  | 3.18 | 1.9  | 1.39  | 0.77  |
| Fuel and Lube Prices (%)                           | 4.4  | 0.23 | 0.04 | -0.32 | -2.74 |
| Machinery Prices (%)                               | 3.04 | 2.81 | 2.44 | 2.41  | 2.3   |
| Wages (%)                                          | 2.24 | 2.69 | 2.9  | 3.1   | 3.17  |
| Supplies (%)                                       | 3.29 | 2.68 | 1.72 | 1.29  | 0.8   |
| Repairs (%)                                        | 2.39 | 2.67 | 2.47 | 2.37  | 2.25  |
| Services (%)                                       | 3.33 | 3.05 | 2.25 | 2.1   | 1.8   |
| Taxes (%)                                          | 5.47 | 5.21 | 3.27 | 3.17  | 3.05  |
| PPI Items (%)                                      | 0.38 | 1.29 | 1.08 | 1.12  | 0.74  |
| PPI Total (%)                                      | 0.88 | 1.8  | 1.67 | 1.46  | 1.03  |
| Annual Change in Consumer Price Index (%)          | 1.83 | 2.01 | 2.01 | 1.9   | 1.78  |
| Annual Rate of Change for U.S. Land Prices (%)     | 3.09 | 2.01 | 1.9  | 0.53  | 0.51  |

Source: Food and Agricultural Policy Research Institute (FAPRI) at the University of Missouri - Columbia.

- No off-farm income, including family employment, was included in the analyses. Therefore, the farm reflects only the ability of the farm to provide for family living and capital replacement.
- Each farm was assumed to start the analysis with 20% debt.
- All crop farms are assumed to carry crop insurance with products and coverage levels common to their area.
- All farms were assumed to be eligible for 2 individual payment limits.

### **Scenarios Analyzed**

Both the Senate and House Farm Bill packages discussed previously were analyzed using the representative farms. Detailed results for each of the 64 crop farms are contained in Appendix C for the following scenarios:

- Senate Farm Bill assuming individual level coverage selected in the ARC program along with SCO analyzed with FAPRI baseline prices;
- Senate Farm Bill assuming county level coverage selected in the ARC program along with SCO analyzed with FAPRI baseline prices;
- House Farm Bill assuming revenue loss coverage (RLC) selected and analyzed with FAPRI baseline prices;
- House Farm Bill assuming price loss coverage (PLC) along with SCO and analyzed with FAPRI baseline prices.

The House Farm Bill PLC scenario also included updated payment yields if applicable. The partial yield update allows producers to update their current CCP yield to 90% of the average yield per planted acre from 2008 to 2012. The historical yields for each of the representative farms were analyzed to determine whether it would be beneficial to do the partial yield update.

Table 6 provides information regarding the degree to which farms around the country would choose to update yields. There were 162 eligible crops on the 64 representative farms that were considered for updating. More than one-half of the eligible crops would have either updated (73) or developed new program yields for crops that didn't previously have one (22).

**Table 6. Summary of Crop Yield Update Analysis.**

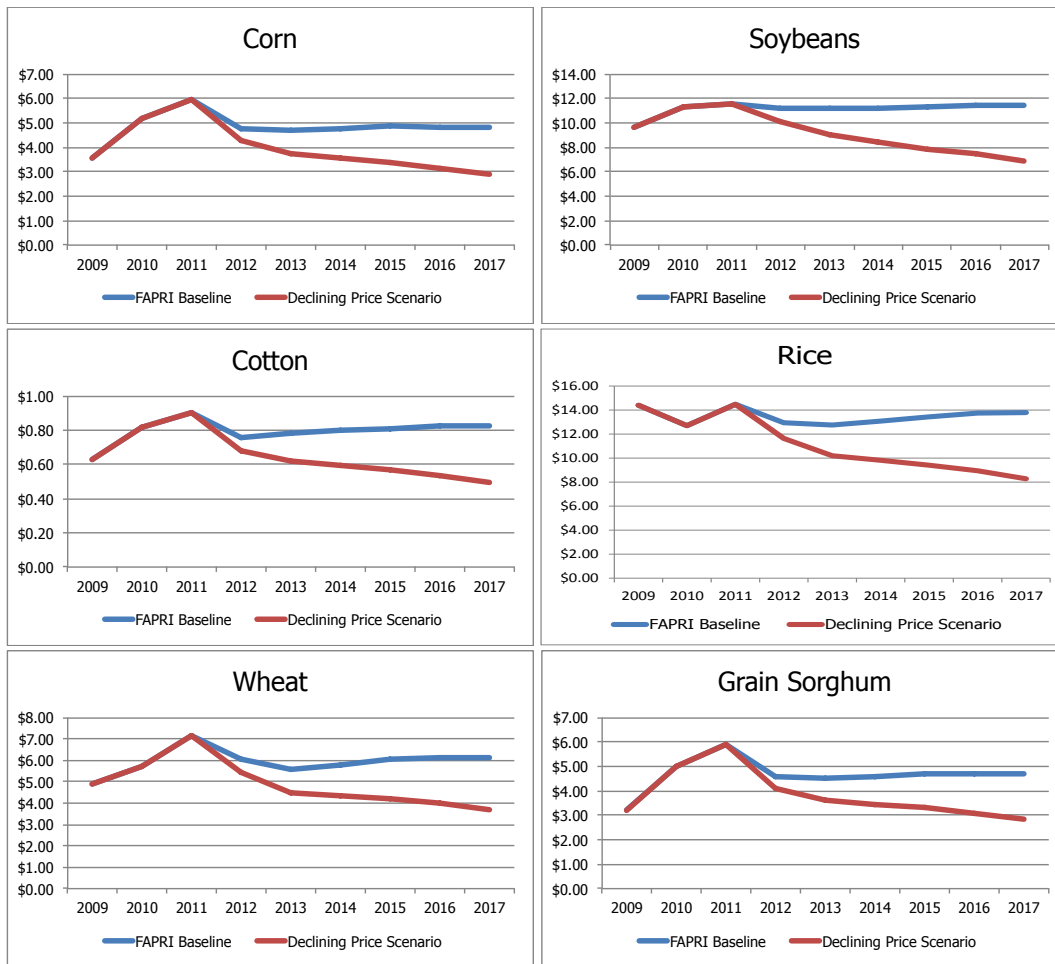
| <b>Category</b>                                                             | <b>Number of Individual Crop Yields</b> |
|-----------------------------------------------------------------------------|-----------------------------------------|
| <b>Total Number of Yields for Crops That Could Have Been Updated</b>        | 162                                     |
| <b>Number of Yields for Crops That Choose Not to Update</b>                 | 67                                      |
| <b>Number of Crops that Did Not Have a Program Yield that Developed One</b> | 22                                      |
| <b>Number of Yields for Crops That Choose to Update</b>                     | 73                                      |

The average yield before and after the update for selected commodities is contained in Table 7. Note this analysis does not include cotton because neither STAX nor SCO trigger off of individual farm yields.

**Table 7. Summary of Old Crop Yields and Updated Yields.**

| <b>Crop</b>          | <b>Old Yield</b> | <b>Updated Yield</b> | <b>Change</b> | <b>% Change</b> |
|----------------------|------------------|----------------------|---------------|-----------------|
| <b>Barley</b>        | 55 bu.           | 60 bu.               | 5 bu.         | 9.0             |
| <b>Corn</b>          | 97 bu.           | 122 bu.              | 25 bu.        | 25.7            |
| <b>Grain Sorghum</b> | 67 bu.           | 72 bu.               | 5 bu.         | 7.6             |
| <b>Rice</b>          | 58 cwt.          | 63 cwt.              | 5 cwt.        | 8.6             |
| <b>Soybeans</b>      | 34 bu.           | 40 bu.               | 6 bu.         | 17.6            |
| <b>Wheat</b>         | 41 bu.           | 43 bu.               | 2 bu.         | 4.8             |

Each of these scenarios was also analyzed assuming a declining price scenario illustrated in Figure 2. Commodity prices were reduced by the same percentage each year beginning in 2012. The declining price scenario was constructed to analyze whether the safety net protection provided by a proposed policy tool would be different between analyses with relatively high prices that are currently projected to occur over the farm bill period with prices that decline throughout the period.



**Figure 2. Comparison of FAPRI Baseline Prices and Prices Used in the Declining Price Scenario.**



## **Definitions of Variables in Appendix C Individual Farm Summary Tables**

- **Loan Deficiency Payments** -- 2013-2017 average annual marketing loan gains/LDP payments.
- **ARC or PLC or RLC Payments** -- 2013-2017 average annual Agriculture Risk Coverage, Price Loss Coverage, and Revenue Loss Coverage payments.
- **Government Payments** -- 2013-2017 average annual ARC, PLC, RLC, and marketing loan gains/LDPs for the alternatives.
- **STAX Net Payments** -- 2013-2017 average annual Stacked Income Protection Plan net payments for upland cotton equal STAX insurance indemnities minus STAX premiums.
- **SCO Net Payments** -- 2013-2017 average annual Supplemental Coverage Option (SCO) net payments equal SCO insurance indemnities minus SCO premiums.
- **Net Cash Farm Income (NCFI)** -- 2013-2017 average net cash farm income equals average total receipts minus average total cash expenses.
- **Real Net Worth 2017** -- total assets including land minus total debt from all sources adjusted for inflation is reported at the end of 2017.
- **AGI 3 Year Moving Average** -- 2013-2017 annual average of a three year moving average of Adjusted Gross Income (AGI).
- **Probability of Exceeding AGI Limit** -- The probability that the farm's AGI exceeds the AGI limit for receiving government payment over the 2013-2017 period.

## Results Assuming FAPRI Baseline Prices

The individual farm results from Appendix C are summarized for all 64 representative farms and by commodity grouping (feedgrain/oilseed, wheat, cotton, and rice). The summary tables were developed assuming the operators would choose the alternative with the higher average net cash farm income (NCFI) over the life of the farm bill as opposed to a lower net cash farm income (note that NCFI would generally be higher under current law). Summary tables were developed to consider the specific choices producers could make in both the Senate and House Farm bills. Finally, a comparison is made regarding the most preferred Senate option and the most preferred House option. In preliminary analyses, 25 out of 27 representative farms with cotton chose STAX over SCO. Therefore, the assumption was made throughout this report that cotton on each farm would be in STAX.

### Senate Farm Bill

Tables 8 – 11 contain summary results of the Senate Farm Bill package. The Senate Farm bill has two different choices that were analyzed. First, producers can choose between individual-level versus county-level ARC coverage. Table 8 indicates that of the 62 representative farms, 22 would prefer individual-level ARC coverage and 40 would prefer county-level ARC coverage, (two farms [TXSP2500 and ARNC5000] are 100% cotton so they are in STAX only for the entire farm). The cotton farms that would choose individual versus county coverage (8 to 6) would be choosing individual level coverage on all of their crops other than cotton. The 62 representative farms that had a preference for ARC based on individual versus county yields are presented in Figure 3. In general farms in the West and along the Mississippi river appear to favor county-based ARC over using their individual yields. The numbers represent the average amount that the NCFI for the farm is higher for the option the farm chose (the color) over the other option. On all maps, the top number in a cluster of two represents the results for the moderate size farm for the area and the bottom number is for a farm that is representative of large farms in the area.

The differences in NCFI regardless of the choice between individual level coverage and county level ARC coverage are relatively small. Table 9 illustrates that for the 22 farms that chose individual level ARC coverage the average difference in NCFI compared to county level coverage is \$2,100 per year. The county level choice results in slightly larger differences across commodities, but the differences are still relatively small.

**Table 8. Number of Representative Farms That Would Prefer Individual versus County Level Coverage Based on NCFI in the Senate ARC Farm Bill Package Assuming Baseline Prices.**

|                                        | <b>Individual Coverage</b> | <b>County Coverage</b> |
|----------------------------------------|----------------------------|------------------------|
| <b>Total by Preference<sup>1</sup></b> | 22                         | 40                     |
| <b>Feedgrain/Oilseed</b>               | 7                          | 16                     |
| <b>Wheat</b>                           | 3                          | 8                      |
| <b>Cotton</b>                          | 8                          | 6                      |
| <b>Rice</b>                            | 4                          | 10                     |

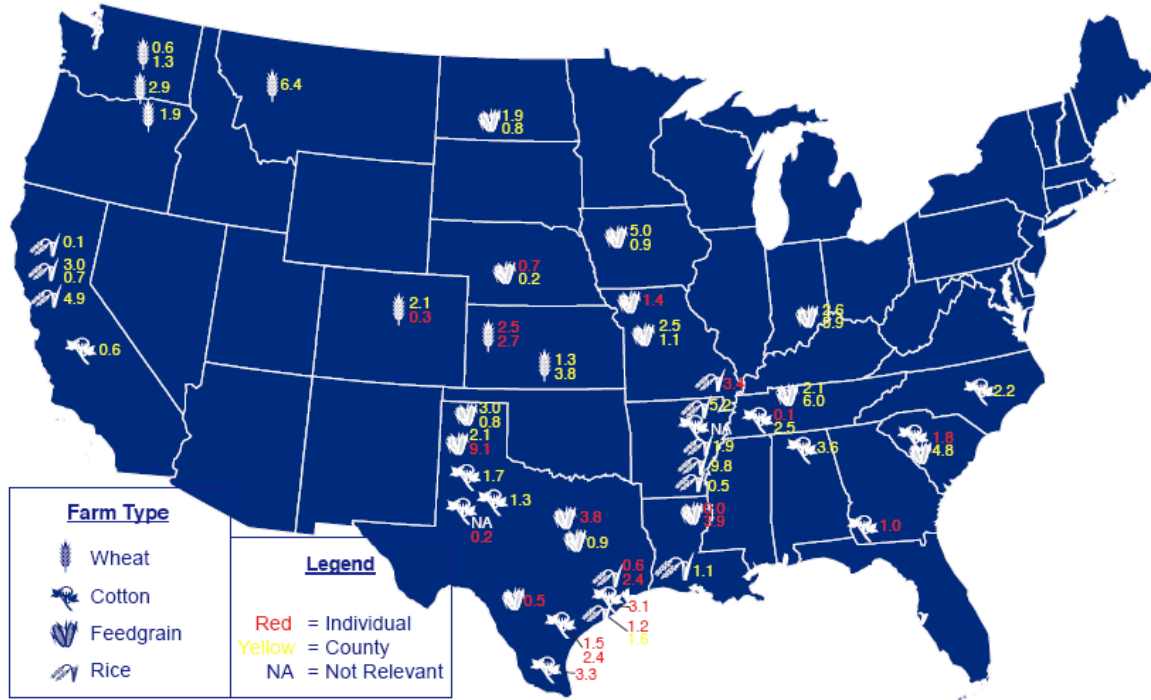
<sup>1</sup> Two farms, the small Texas southern plains cotton farm TXSP2500 and the Arkansas cotton farm ARNC5000 are 100% cotton and would only be enrolled in STAX. Therefore, there would be no difference between the alternatives.

**Table 9. Average Annual Increase in Net Cash Farm Income from 2013-2017 in \$1,000s for a Representative Farm That Chose Individual or County Level Coverage in the Senate Package Assuming Baseline Prices.**

|                            | <b>Individual Coverage<br/>\$1,000</b> | <b>County Coverage<br/>\$1,000</b> |
|----------------------------|----------------------------------------|------------------------------------|
| <b>Total by Preference</b> | 2.1                                    | 2.5                                |
| <b>Feedgrain/Oilseed</b>   | 2.8                                    | 2.5                                |
| <b>Wheat</b>               | 1.8                                    | 2.5                                |
| <b>Cotton</b>              | 1.7                                    | 2.0                                |
| <b>Rice</b>                | 1.9                                    | 2.9                                |

The Senate Farm Bill package gives producers a second choice that allows producers to “opt out” of ARC coverage in exchange for a larger payment band on SCO coverage. This summary compared the highest NCFI among Senate ARC options (individual or county) versus the SCO payment associated with the PLC option in the House Farm Bill. The SCO option associated with the PLC House Farm Bill option has the same payment band as the “opt out” option in the Senate Farm Bill. Table 10 indicates that 46 out of 62 farms would have a higher NCFI, on average, if they opted out of the Senate ARC program in favor of the larger payment band on SCO coverage.

The numbers represent the benefit in terms of average 2013-2017 annual NCFI in (\$1,000) from choosing the option indicated by the color over the other option.



**Figure 3. Results Indicating the Representative Farm’s Preference for Individual or County Based ARC.**

Table 11 provides an indication of the amount of difference the ARC SCO would make. If a farm chose one of the ARC options, on average its NCFI would be \$6,400 higher than the “opt out” NCFI. However, of the 46 farms that would choose to “opt out” of ARC, their average NCFI would be \$21,600 more than either of the ARC options. Figure 4 provides a geographic representation of each farm’s choice along with the average difference that the choice would make in the farm’s NCFI.

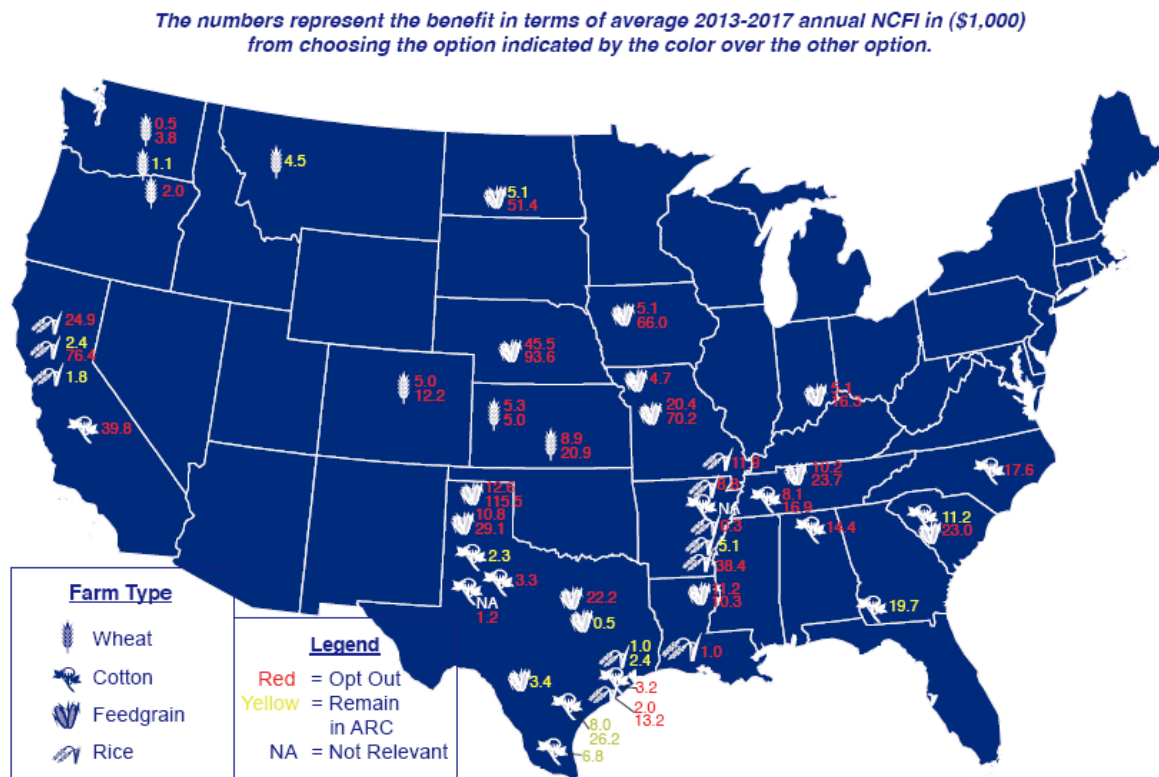
**Table 10. Number of Representative Farms that Would Prefer the ARC Plan versus Opting Out of ARC for More SCO Coverage in the Senate Farm Bill Package Assuming Baseline Prices.**

|                                        | Senate ARC | “Opt Out” of ARC for More SCO Coverage |
|----------------------------------------|------------|----------------------------------------|
| <b>Total by Preference<sup>1</sup></b> | 16         | 46                                     |
| <b>Feedgrain/Oilseed</b>               | 3          | 20                                     |
| <b>Wheat</b>                           | 2          | 9                                      |
| <b>Cotton</b>                          | 6          | 8                                      |
| <b>Rice</b>                            | 5          | 9                                      |

<sup>1</sup> Two farms, the small Texas southern plains cotton farm TXSP2500 and the Arkansas cotton farm ARNC5000 are 100% cotton and would only be enrolled in STAX. Therefore, there would be no difference between the alternatives.

**Table 11. Average Difference in Net Cash Farm Income for Representative Farms that Would Prefer the ARC Plan or Opting Out of ARC for More SCO Coverage in the Senate Farm Bill Package Assuming Baseline Prices (\$1000s).**

|                            | Senate ARC | “Opt Out” of ARC for More SCO Coverage |
|----------------------------|------------|----------------------------------------|
| <b>Total by Preference</b> | 6.4        | 21.6                                   |
| <b>Feedgrain/Oilseed</b>   | 3.0        | 32.3                                   |
| <b>Wheat</b>               | 2.8        | 7.0                                    |
| <b>Cotton</b>              | 12.4       | 13.1                                   |
| <b>Rice</b>                | 2.5        | 19.7                                   |



**Figure 4. Results Indicating the Representative Farm's Preference for Opting Out of ARC for a Larger SCO Payment Band or Remaining in ARC.**

## House Farm Bill

Tables 12 and 13 contain summary results of the House Farm Bill package. The House Farm bill allows producers to choose between revenue loss coverage (RLC) and price loss coverage (PLC). Table 12 indicates that of the 62 representative farms used in the analysis, all would choose PLC over RLC. Both RLC and PLC are expected to average small positive payments over the life of the farm bill. However, RLC is not eligible for SCO coverage. The SCO net benefit makes a significant difference in a farm's average NCFI over the life of the farm bill (see Appendix C for individual farm results or Appendix D for a summary by farm type).

**Table 12. Number of Representative Farms That Would Prefer the Revenue Loss Coverage (RLC) versus Price Loss Coverage (PLC) Programs Based on Net Cash Farm Income in the House Farm Bill Package Assuming Baseline Prices.**

|                                        | RLC | PLC |
|----------------------------------------|-----|-----|
| <b>Total by Preference<sup>1</sup></b> | 0   | 62  |
| <b>Feedgrain/Oilseed</b>               | 0   | 23  |
| <b>Wheat</b>                           | 0   | 11  |
| <b>Cotton</b>                          | 0   | 14  |
| <b>Rice</b>                            | 0   | 14  |

<sup>1</sup> Two farms, the small Texas southern plains cotton farm TXSP2500 and the Arkansas cotton farm ARNC5000 are 100% cotton and would only be enrolled in STAX. Therefore, there would be no difference between the alternatives.

Table 13 provides the average difference in NCFI for the PLC option versus RLC. Across the 62 farms analyzed, the average difference in NCFI between the two options was \$81,400 per year with the difference for the rice farms being the largest at just over \$112,000 per year.

**Table 13. Average Annual Increase in Net Cash Farm Income from 2013-2017 in \$1,000s if a Representative Farm Had Chosen PLC Over RLC in the House Farm Bill Package Assuming Baseline Prices.**

|                            | Average NCFI for PLC<br>Minus NCFI for RLC<br>\$1,000 |
|----------------------------|-------------------------------------------------------|
| <b>Total by Preference</b> | 81.4                                                  |
| <b>Feedgrain/Oilseed</b>   | 75.5                                                  |
| <b>Wheat</b>               | 64.5                                                  |
| <b>Cotton</b>              | 73.3                                                  |
| <b>Rice</b>                | 112.6                                                 |

### Overall Preference – Senate versus House

The final set of tables compares the most preferred Senate Farm Bill option (e.g., individual level or county level ARC or “opt out” of ARC for larger payment band on SCO coverage) with the most preferred House Farm Bill option – PLC (based on 100% of the farms preferring PLC to RLC in Table 12). As indicated in Table 14 and Figure 5, all 64 farms (this number includes the two 100% cotton farms that prefer the House version of STAX) would prefer the House PLC option over the most preferred Senate option.

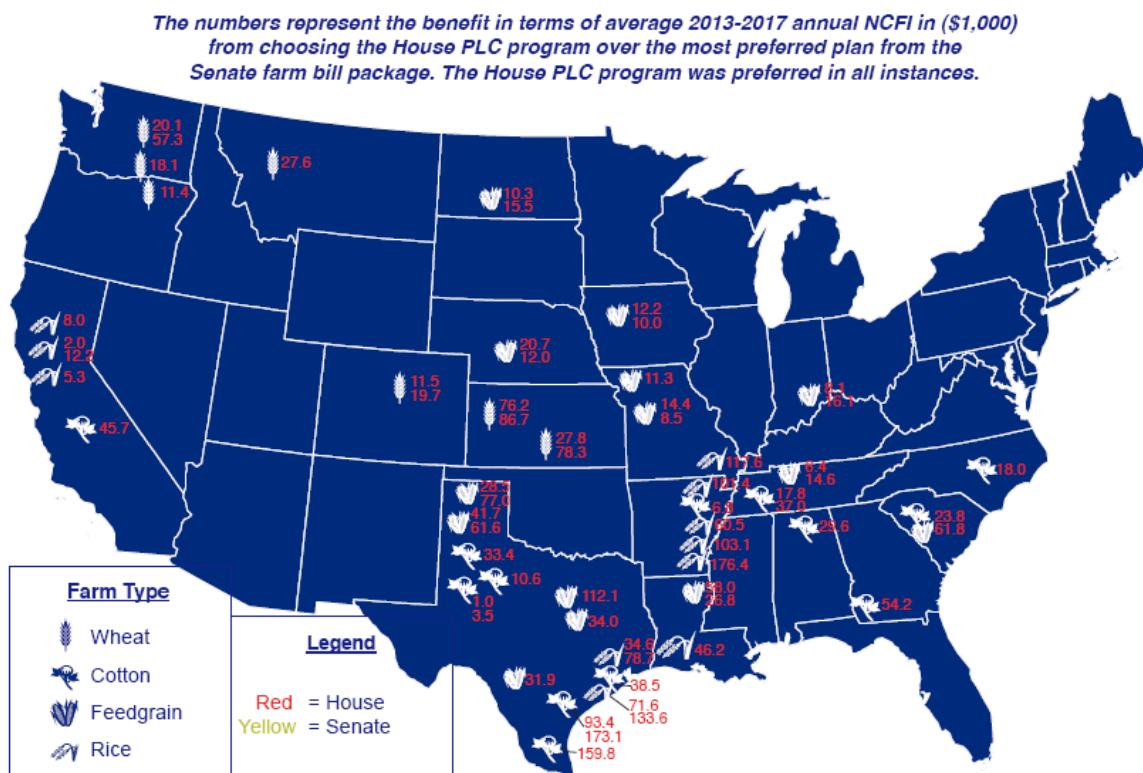
Table 15 shows that the difference in NCFI between the most preferred House option (PLC) and the most preferred Senate option is \$44,200 per year.

**Table 14. The Number of Representative Farms That Would Choose the Best Option in the Senate Farm Bill Package or the Best Option from the House Farm Bill Package Based on Net Cash Farm Income Assuming Baseline Prices.**

|                          | <b>Best Senate Option</b> | <b>Best House Option</b> |
|--------------------------|---------------------------|--------------------------|
| <b>All 64 Farms</b>      | 0                         | 64                       |
| <b>Feedgrain/Oilseed</b> | 0                         | 23                       |
| <b>Wheat</b>             | 0                         | 11                       |
| <b>Cotton</b>            | 0                         | 16                       |
| <b>Rice</b>              | 0                         | 14                       |

**Table 15. The Average Difference in Net Cash Farm Income for the Best Option in the House Farm Bill Package Over the Best Option from the Senate Farm Bill Package Based Assuming Baseline Prices (\$1,000s).**

|                          | <b>House Best Option<br/>Minus Senate Best<br/>Option<br/>\$1,000</b> |
|--------------------------|-----------------------------------------------------------------------|
| <b>All 64 Farms</b>      | 44.2                                                                  |
| <b>Feedgrain/Oilseed</b> | 30.2                                                                  |
| <b>Wheat</b>             | 39.5                                                                  |
| <b>Cotton</b>            | 46.6                                                                  |
| <b>Rice</b>              | 67.9                                                                  |



**Figure 5. Results Indicating the Representative Farm's Preference for the House Over the Senate Safety Net Package.**

## Declining Price Scenario

As in the FAPRI Baseline Price scenario, the individual farm results for the Declining Price Scenario are contained in Appendix C. This scenario provides an indication of whether the alternative Senate and House Farm Bill options provide an adequate producer safety net when prices decline. And further, what part of the safety net provides the most significant protection when prices decline. Again, the summary tables were developed assuming the operators would choose the alternative with the higher net cash farm income (NCFI) as opposed to a lower net cash farm income. Summary tables were developed to consider the specific choices producers could make in both the Senate and House Farm bills. Finally, a comparison is made regarding the most preferred Senate option and the most preferred House option under declining prices.



## Senate Farm Bill

Tables 16 – 18 contain summary results of the Senate Farm Bill package. Table 16 indicates that of the 62 representative farms, 30 would prefer individual level ARC coverage and 32 would prefer county level ARC coverage under the declining price scenario. Eight additional farms would find it advantageous to have individual level ARC coverage than under the Baseline prices (Table 16 compared to Table 8).

The relative differences in NCFI regardless of the choice between individual level coverage and county level coverage are still relatively small. Table 17 illustrates that for the 30 farms that chose individual level ARC coverage the average difference in NCFI compared to county level coverage is \$ 2,900 per year. These results, while slightly larger than for the Baseline price scenario, are still relatively small.

**Table 16. Number of Representative Farms That Would Prefer Individual versus County Level Coverage Based on NCFI in the Senate ARC Farm Bill Package Assuming Declining Price Scenario.**

|                                        | Individual Coverage | County Coverage |
|----------------------------------------|---------------------|-----------------|
| <b>Total by Preference<sup>1</sup></b> | 30                  | 32              |
| <b>Feedgrain/Oilseed</b>               | 11                  | 12              |
| <b>Wheat</b>                           | 7                   | 4               |
| <b>Cotton</b>                          | 10                  | 4               |
| <b>Rice</b>                            | 2                   | 12              |

<sup>1</sup> Two farms, the small Texas southern plains cotton farm TXSP2500 and the Arkansas cotton farm ARNC5000 are 100% cotton and would only be enrolled in STAX. Therefore, there would be no difference between the alternatives.

**Table 17. Average Annual Increase in Net Cash Farm Income from 2013-2017 in \$1,000s for a Representative Farm That Chose Individual or County Level Coverage in the Senate Package Assuming Declining Price Scenario.**

|                            | Individual Coverage<br>\$1,000 | County Coverage<br>\$1,000 |
|----------------------------|--------------------------------|----------------------------|
| <b>Total by Preference</b> | 2.9                            | 3.6                        |
| <b>Feedgrain/Oilseed</b>   | 2.1                            | 3.3                        |
| <b>Wheat</b>               | 4.3                            | 2.2                        |
| <b>Cotton</b>              | 3.0                            | 1.4                        |
| <b>Rice</b>                | 2.7                            | 5.1                        |

Analysis of the second choice in the Senate Farm Bill that allows producers to “opt out” of ARC coverage in exchange for a larger payment band on SCO coverage yielded dramatically different results under the declining price scenario (Table 18) compared to the Baseline scenario (Table 10). Again, this summary compared the highest NCFI among Senate ARC options (individual or county) versus the SCO payment associated with the PLC option in the House Farm Bill. The SCO option in the PLC House Farm Bill option has the same payment band as the “opt out” option in the Senate Farm Bill. As indicated in Table 18, the majority of the representative farms (54) would not “opt out” of ARC under the declining price scenario. Under Baseline prices, only 16 out of 62 farms would have chosen to stay in ARC. These results would suggest that the 5 year moving Olympic average in the ARC plan does provide more downside protection than the SCO insurance option as prices decline. This makes sense as the benchmark revenue guarantee in the ARC plan declines more slowly as prices decline due to dropping the high and low each year, however, the annual futures prices used to calculate the guarantee and actual revenues in the SCO option move down with the market. The downward movement in futures prices creates a situation where the benchmark revenue guarantee (the amount that is being protected) moves down with the declining prices.

Table 19 indicates that the amount of difference the choice would make is still relatively small, but those farms that chose to stay in ARC would have a slightly larger difference in NCFI than those that chose to “opt out.”

**Table 18. Number of Representative Farms that Would Prefer the ARC Plan versus Opting Out of ARC for More SCO Coverage in the Senate Farm Bill Package Assuming Declining Price Scenario.**

|                                        | Senate ARC | “Opt Out” of ARC for More SCO Coverage |
|----------------------------------------|------------|----------------------------------------|
| <b>Total by Preference<sup>1</sup></b> | 54         | 8                                      |
| <b>Feedgrain/Oilseed</b>               | 18         | 5                                      |
| <b>Wheat</b>                           | 10         | 1                                      |
| <b>Cotton</b>                          | 12         | 2                                      |
| <b>Rice</b>                            | 14         | 0                                      |

<sup>1</sup> Two farms, the small Texas southern plains cotton farm TXSP2500 and the Arkansas cotton farm ARNC5000 are 100% cotton and would only be enrolled in STAX. Therefore, there would be no difference between the alternatives.

**Table 19. Average Difference in Net Cash Farm Income for Representative Farms that Would Prefer the ARC Plan or Opting Out of ARC for More SCO Coverage in the Senate Farm Bill Package Assuming Declining Price Scenario (\$1,000).**

|                            | Senate ARC<br>\$1,000 | "Opt Out" of ARC for<br>More SCO Coverage<br>\$1,000 |
|----------------------------|-----------------------|------------------------------------------------------|
| <b>Total by Preference</b> | 23.6                  | 11.3                                                 |
| <b>Feedgrain/Oilseed</b>   | 18.8                  | 12.6                                                 |
| <b>Wheat</b>               | 9.9                   | 0.6                                                  |
| <b>Cotton</b>              | 16.5                  | 13.4                                                 |
| <b>Rice</b>                | 45.6                  | n/a                                                  |

#### House Farm Bill

Tables 20 and 21 contain summary results of the House Farm Bill package under the declining price scenario. The House Farm bill allows producers to choose between revenue loss coverage (RLC) and price loss coverage (PLC). Table 20 indicates that of the 62 representative farms used in the analysis, all would choose PLC over RLC. Both RLC and PLC are expected to average small positive payments over the life of the farm bill. However, RLC is not eligible for SCO coverage. Under the declining price scenario, the SCO net benefit actually declines as prices decline, however, the PLC payment increases and makes a significant difference in a farm's average NCFI over the life of the farm bill (see Appendix C).

Table 21 provides the average difference in NCFI for the PLC option versus RLC. Across the 62 farms analyzed, the average difference in NCFI between the two options was \$117,500 per year -- which was substantially higher than under the Baseline price scenario.

**Table 20. Number of Representative Farms That Would Prefer the Revenue Loss Coverage (RLC) versus Price Loss Coverage (PLC) Programs Based on Net Cash Farm Income in the House Farm Bill Package Assuming Declining Price Scenario.**

|                                        | RLC | PLC |
|----------------------------------------|-----|-----|
| <b>Total by Preference<sup>1</sup></b> | 0   | 62  |
| <b>Feedgrain/Oilseed</b>               | 0   | 23  |
| <b>Wheat</b>                           | 0   | 11  |
| <b>Cotton</b>                          | 0   | 14  |
| <b>Rice</b>                            | 0   | 14  |

<sup>1</sup> Two farms, the small Texas southern plains cotton farm TXSP2500 and the Arkansas cotton farm ARNC5000 are 100% cotton and would only be enrolled in STAX. Therefore, there would be no difference between the alternatives.

**Table 21. Average Annual Increase in Net Cash Farm Income from 2013-2017 in \$1,000s if a Representative Farm Had Chosen PLC Over RLC in the House Farm Bill Package Assuming Declining Price Scenario.**

|                                        | Average NCFI for PLC<br>Minus RLC<br>\$1,000 |
|----------------------------------------|----------------------------------------------|
| <b>Total by Preference<sup>1</sup></b> | 117.5                                        |
| <b>Feedgrain/Oilseed</b>               | 112.2                                        |
| <b>Wheat</b>                           | 109.9                                        |
| <b>Cotton</b>                          | 93.9                                         |
| <b>Rice</b>                            | 155.8                                        |

<sup>1</sup> Two farms, the small Texas southern plains cotton farm TXSP2500 and the Arkansas cotton farm ARNC5000 are 100% cotton and would only be enrolled in STAX. Therefore, there would be no difference between the alternatives.

### Overall Preference – Senate versus House

This final set of tables compares the most preferred Senate Farm Bill option (e.g., individual level or county level ARC or “opt out” of ARC for larger payment band on SCO coverage) with the most preferred House Farm Bill option that again is PLC (based on 100% of the farms preferring PLC to RLC in Table 20), assuming declining prices.

Under the Baseline prices, the most preferred Senate Farm Bill option was the “opt out” option for 46 farms. Under the declining price scenario, the most preferred Senate Farm Bill option across the representative farms was county level ARC followed closely by the individual coverage level ARC.

As indicated in Table 22, all 64 farms would prefer the House PLC option over the most preferred Senate option under the declining price scenario. This result indicates that while the SCO net payment in the House Farm Bill PLC option declines as prices decline, the PLC payment increases to offset the SCO declines.

The average difference in NCFI between the most preferred House option (PLC) and the most preferred Senate option is \$125,800 per year (Table 23). These differences are larger under the declining price scenario relative to the Baseline price scenario.

**Table 22. The Number of Representative Farms That Would Choose the Best Option in the Senate Farm Bill Package or the Best Option from the House Farm Bill Package Based on Net Cash Farm Income Assuming Declining Price Scenario.**

|                          | <b>Best Senate Option</b> | <b>Best House Option</b> |
|--------------------------|---------------------------|--------------------------|
| <b>All 64 Farms</b>      | 0                         | 64                       |
| <b>Feedgrain/Oilseed</b> | 0                         | 23                       |
| <b>Wheat</b>             | 0                         | 11                       |
| <b>Cotton</b>            | 0                         | 16                       |
| <b>Rice</b>              | 0                         | 14                       |

**Table 23. The Average Difference in Net Cash Farm Income for the Best Option in the House Farm Bill Package Over the Best Option from the Senate Farm Bill Package Based Assuming Declining Price Scenario (\$1,000s).**

|                          | <b>House Best Option<br/>Minus Senate Best<br/>Option<br/>\$1,000</b> |
|--------------------------|-----------------------------------------------------------------------|
| <b>All 64 Farms</b>      | 125.8                                                                 |
| <b>Feedgrain/Oilseed</b> | 115.9                                                                 |
| <b>Wheat</b>             | 98.7                                                                  |
| <b>Cotton</b>            | 115.1                                                                 |
| <b>Rice</b>              | 175.5                                                                 |

### **A Closer Look at the Numbers**

Thus far, this analysis has identified which policy proposal would be the most preferred farm bill safety net package (both Title I and Title XI programs) for each of the representative farms based on the highest average net cash farm income (NCFI). In some instances, the difference in NCFI across proposals was very small, while for some farms the difference was much larger. The differences in NCFI between policies can be observed for individual farms in Appendix C. While Appendix D contains a summary table of the expected government payments for the Baseline and declining price scenarios under the Senate and House Farm Bill proposals with each of their choices.

Table 24 provides a summary of the degree to which each of the different policy proposals would fill in the gap for the large decline in crop receipts in the declining price scenario compared to the Baseline price scenario. Across all the farms, the average loss in crop receipts from the two market price assumptions is \$527,200. Most of the farm types are around that loss level except for the wheat farms that would be expected to lose about one-half that amount. Over all the farms, the House RLC and both Senate options appear to provide about the same amount of government payments (15 to 16%) of what was lost due to the low prices. The House PLC plan would replace 43% of the lost income across all farm types with wheat providing a higher percentage but on a much smaller number than the other farm types.

**Table 24. Estimated Average Loss in Crop Receipts Due to the Declining Price Scenario Relative to the Baseline Price Scenario and the Percent of the Loss Made up by Government Payments from Each of the Senate and House Farm Bill Plans.**

| Representative Farm Type | Number of Farms | Estimated Average Annual Loss in Crop Receipts Due to Declining Prices (\$1,000) | Average Annual Percent of Lost Receipts Offset by Government Payments (i.e., ARC, RLC, PLC, STAX, SCO, and LDPs/MLGs) from each of the Farm Bill Options |                   |           |           |
|--------------------------|-----------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------|-----------|
|                          |                 |                                                                                  | Senate ARC Indiv.                                                                                                                                        | Senate ARC County | House RLC | House PLC |
| <b>All 64 Farms</b>      | 64              | 527.2                                                                            | 15%                                                                                                                                                      | 16%               | 16%       | 43%       |
| <b>Feedgrain/Oilseed</b> | 23              | 557.1                                                                            | 14%                                                                                                                                                      | 14%               | 14%       | 37%       |
| <b>Wheat</b>             | 11              | 245.8                                                                            | 16%                                                                                                                                                      | 15%               | 13%       | 59%       |
| <b>Cotton</b>            | 16              | 608.7                                                                            | 16%                                                                                                                                                      | 15%               | 20%       | 35%       |
| <b>Rice</b>              | 14              | 642.9                                                                            | 16%                                                                                                                                                      | 17%               | 18%       | 48%       |

These results call into question whether the combination of Title I and XI producer benefits (with producers paying premiums to gain the SCO portion) that replace 15 to 16% of a major loss is enough of a safety net.<sup>2</sup> The summary in Appendix D shows the difference in safety net spending analyzed in this report between the Baseline price and declining price scenarios. There is little question that the shallow loss programs in both the Senate and House provide about the same benefits across farm types during the current high prices. The PLC option provides more Title I protection than the other alternatives but the big difference is during low price periods. The support from PLC increases significantly while SCO declines due to being tied to current futures market prices.

<sup>2</sup> It should be noted here that the results in this report also account for the declining value of individual crop insurance in NCFI as prices decline.

Throughout this report it is asserted that the House STAX is preferred to the STAX program offered in the Senate Farm Bill. The programs are very similar except that the House version has a reference price that provides additional protection when prices decline below \$0.6861/lb. Table 25 isolates the difference in average annual benefits for the farms with cotton due to the STAX provisions. Clearly, during falling prices, the presence of the reference price in the STAX calculation makes a significant difference. The STAX program represents a significant departure from traditional farm programs for cotton as producers will have to purchase the coverage.

**Table 25. Benefit in Terms of Higher Average Annual STAX Benefits From Including a Reference Price in the STAX Program Calculation Under the Declining Price Scenario.**

|                                                | Senate STAX | House STAX | Difference (House Minus Senate) |
|------------------------------------------------|-------------|------------|---------------------------------|
| <b>Average for all 27 farms growing cotton</b> | 39.4        | 73.7       | 34.3                            |
| <b>Feedgrain/Oilseed</b>                       | 18.7        | 35.1       | 16.4                            |
| <b>Wheat</b>                                   | n/a         | n/a        | n/a                             |
| <b>Cotton</b>                                  | 56.1        | 103.4      | 47.3                            |
| <b>Rice</b>                                    | 39.9        | 92.8       | 52.9                            |

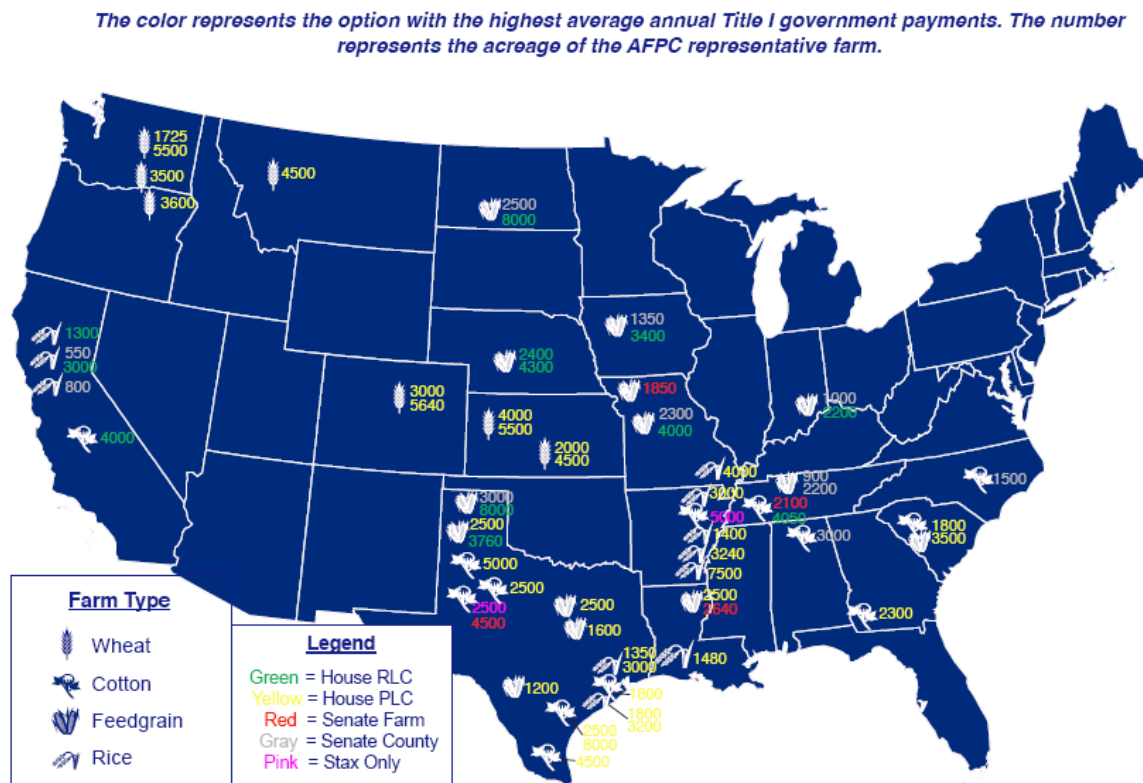
In this report, the producer safety net provided by either the Senate or House Farm Bill packages are viewed as the combination of Title I and Title XI programs – including payment limits. The results in this report are dependent on looking at the total package. If the producer safety net from the Senate or House is viewed in isolation (only Title I or only Title XI) the result will only provide part of the story.

As an example, the Title I benefits from the producer choices in the Senate and House Farm Bills were compared and summary results are presented in Figure 6. Based on higher NCFI over the life of the farm bill, forty-nine of the representative farms would choose either the House PLC (35), RLC (12) or STAX (2) option with 15 selecting the Senate Individual ARC (4) or County based ARC (11). Recall that the House PLC option that has SCO with the widest payment band was the consensus option across all of the farms when total government support is considered.

One of the interesting considerations in these results is that the Senate AGI and payment limit restrictions were the direct cause of 11 farms choosing one of the House Farm Bill options. Looking at the map, it is clear that in North Dakota, Iowa, Indiana and Missouri, the small farm in an area chooses the Senate ARC plan and the



large farm in the area picks the House RLC option. A closer inspection of the results uncovers the cause as the tighter payment limits in the Senate Farm Bill. Refer to Appendix C for more information regarding the probability of hitting the AGI limitation.



**Figure 6. All 64 Representative Farm's Preferred Title I Safety Net Option of the Senate Individual and County ARC and the House RLC and PLC Alternatives.**

## Summary and Conclusions

AFPC's 64 representative crop farms were used to analyze the Title I and XI safety net provisions of the Senate and House Farm Bill packages under Baseline price and declining price scenarios over the 2013-2017 life of the bill. The farm's preference for one policy alternative over another was based on the alternative with the highest average net cash farm income (NCFI) over the life of the farm bill. This report considered the combined government support of Title I programs (ARC, PLC, and

RLC) with the SCO and STAX choices in Title XI. In addition, both AGI and individual payment limits were taken into consideration.

Under current Baseline prices, more of the representative farms would prefer the county-based ARC program over the individual yield-based ARC program in the Senate. A large number of the representative farms would prefer to “opt out” of either ARC program in favor of an SCO option with the wider payment band. The representative farms would prefer the House PLC option over the RLC option primarily due to RLC not having the SCO option. Under baseline prices all of the representative farms would prefer the House PLC option over any Senate option.

The results were very similar for the declining price scenario except that more farms would choose individual yield based ARC over county based ARC. There was a dramatic reduction in the number of farms “opting out” of ARC for SCO because SCO benefits are projected to decline substantially when prices fall over time. The substantial increase in PLC benefits offset the decline in SCO benefits which results in all farms preferring the House PLC option over any Senate option under the declining price scenario.

The following conclusions can be drawn from the analysis:

- Accounting for downside price risk, all of the Title I options provide some safety net support under current price forecasts. The House SCO alternative (along with the Senate ARC opt out) that has a wider payment band than the Senate SCO option (when combined with Senate ARC) provides significant support under current price forecasts much like the shallow loss plans.
- The Senate Individual and County based ARC option and the House RLC option are very similar except for two big considerations:
  - Reference prices are included in the House which provide downside protection when prices decline.
  - The lower payment limit in the Senate reduces the effectiveness of these Senate options when prices decline.

All of these revenue plans suffer from the inability to provide adequate safety net protection during declining prices. Only the House PLC option provides support at meaningful levels when prices decline.

- SCO provides significantly less safety net support when prices are declining due to the reliance on current futures market prices in setting the benchmark.
- STAX with a reference price provides significantly more protection than without, but growers must purchase the coverage, representing a significant departure from current law.
- Senate payment and AGI limits would be binding regularly enough to make the Senate options provide substantially less safety net benefits to one-fourth of the representative farms.

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# **APPENDIX A:**

## **CHARACTERISTICS OF REPRESENTATIVE FARMS**

## 2011 CHARACTERISTICS OF PANEL FARMS PRODUCING FEED GRAINS AND OILSEEDS

- IAG1350** IAG1350 is a 1,350-acre northwestern Iowa (Webster County) grain farm. The farm is moderate-sized for the region and plants 880 acres of corn and 470 acres of soybeans annually. Seventy-seven percent of this farm's 2011 receipts come from corn production.
- IAG3400** This 3,400-acre large-sized grain farm is located in northwestern Iowa (Webster County). It plants 2,040 acres of corn and 1,360 acres of soybeans each year, realizing 74 percent of receipts from corn production.
- NEG2400** South central Nebraska (Dawson County) is home to this 2,400-acre grain farm. This farm plants seventy-five percent of cultivated acres to corn and twenty-five percent to soybeans. The farm splits its corn acres evenly between yellow and white food-grade corn. Eighty-three percent of gross receipts are derived from corn sales.
- NEG4300** This is a 4,300-acre grain farm located in south central Nebraska (Dawson County). This operation plants 2,580 acres of corn and 1,290 acres of soybeans each year. Remaining acres are planted to alfalfa. A portion (25 percent) of the corn acreage is food-grade corn. In 2011, 73 percent of total receipts were generated from corn production.
- NDG2500** NDG2500 is a 2,500-acre, moderate-sized, south central North Dakota (Barnes County) grain farm that plants 500 acres of wheat, 500 acres of corn, and 1,500 acres of soybeans. One hundred acres are enrolled in the Conservation Reserve Program. The farm generated 48 percent of 2011 receipts from soybean sales.
- NDG8000** This is an 8,000-acre, large-sized grain farm in south central North Dakota (Barnes County) that grows 4,000 acres of soybeans, 2,450 acres of corn, 1,000 acres of wheat, and 300 acres of sunflowers annually. The remaining acreage is enrolled in the Conservation Reserve Program. Soybean and corn sales accounted for 84 percent of 2011 receipts.
- ING1000** Shelby County, Indiana, is home to this 1,000-acre moderate-sized feedgrain farm. This farm annually plants corn and soybeans in a 50/50 rotation. Due to this farm's proximity to Indianapolis, land development pressures will likely constrain further expansion of this farm's operations. Sixty-four percent of 2011 receipts came from corn sales.
- ING2200** ING2200 is a large-sized grain farm located in east central Indiana (Shelby County). This farm plants 1,100 acres to corn and 1,100 acres to soybeans each year. In 2011, 62 percent of gross receipts were generated by corn sales.

Appendix Table A. Characteristics of Panel Farms Producing Feed Grains.

|                                | IAG1350  | IAG3400  | NEG2400  | NEG4300   | NDG2500  | NDG8000   | ING1000  | ING2200  |
|--------------------------------|----------|----------|----------|-----------|----------|-----------|----------|----------|
| County                         | Webster  | Webster  | Dawson   | Dawson    | Barnes   | Barnes    | Shelby   | Shelby   |
| Total Cropland                 | 1,350.00 | 3,400.00 | 2,400.00 | 4,300.00  | 2,500.00 | 8,000.00  | 1,000.00 | 2,200.00 |
| Acres Owned                    | 340.00   | 850.00   | 600.00   | 1,075.00  | 600.00   | 3,500.00  | 300.00   | 770.00   |
| Acres Leased                   | 1,010.00 | 2,550.00 | 1,800.00 | 3,225.00  | 1,900.00 | 4,500.00  | 700.00   | 1,430.00 |
| Assets (\$1000)                |          |          |          |           |          |           |          |          |
| Total                          | 3,455.00 | 9,000.00 | 5,270.00 | 10,183.00 | 2,367.00 | 12,680.00 | 3,336.00 | 7,656.00 |
| Real Estate                    | 2,416.00 | 5,899.00 | 2,517.00 | 4,995.00  | 1,529.00 | 7,593.00  | 2,308.00 | 5,850.00 |
| Machinery                      | 484.00   | 1,728.00 | 1,409.00 | 3,125.00  | 415.00   | 3,408.00  | 389.00   | 638.00   |
| Other & Livestock              | 555.00   | 1,373.00 | 1,344.00 | 2,062.00  | 423.00   | 1,679.00  | 639.00   | 1,167.00 |
| Debt/Asset Ratios              |          |          |          |           |          |           |          |          |
| Total                          | 0.15     | 0.15     | 0.12     | 0.16      | 0.11     | 0.18      | 0.10     | 0.10     |
| Intermediate                   | 0.38     | 0.31     | 0.20     | 0.28      | 0.02     | 0.31      | 0.17     | 0.03     |
| Long Run                       | 0.14     | 0.14     | 0.14     | 0.14      | 0.16     | 0.15      | 0.10     | 0.11     |
| 2011 Gross Receipts (\$1,000)* |          |          |          |           |          |           |          |          |
| Total                          | 1,261.80 | 2,891.30 | 2,781.70 | 4,435.10  | 1,193.40 | 4,226.30  | 812.60   | 1,821.20 |
| Corn                           | 966.50   | 2,133.70 | 2,314.30 | 3,216.50  | 402.10   | 1,901.10  | 518.00   | 1,132.90 |
|                                | 0.77     | 0.74     | 0.83     | 0.73      | 0.34     | 0.45      | 0.64     | 0.62     |
| Wheat                          | 0.00     | 0.00     | 0.00     | 0.00      | 211.00   | 467.20    | 1.00     | 0.00     |
|                                | 0.00     | 0.00     | 0.00     | 0.00      | 0.18     | 0.11      | 0.00     | 0.00     |
| Soybeans                       | 295.20   | 757.60   | 467.40   | 932.30    | 576.90   | 1,650.50  | 293.60   | 688.30   |
|                                | 0.23     | 0.26     | 0.17     | 0.21      | 0.48     | 0.39      | 0.36     | 0.38     |
| Hay                            | 0.00     | 0.00     | 0.00     | 286.30    | 0.00     | 0.00      | 0.00     | 0.00     |
|                                | 0.00     | 0.00     | 0.00     | 0.07      | 0.00     | 0.00      | 0.00     | 0.00     |
| Other Receipts                 | 0.00     | 0.00     | 0.00     | 0.00      | 0.00     | 10.00     | 0.00     | 0.00     |
|                                | 0.00     | 0.00     | 0.00     | 0.00      | 0.00     | 0.00      | 0.00     | 0.00     |
| 2011 Planted Acres**           |          |          |          |           |          |           |          |          |
| Total                          | 1,350.00 | 3,400.00 | 2,400.00 | 4,300.00  | 2,600.00 | 8,000.00  | 1,000.00 | 2,200.00 |
| Corn                           | 880.00   | 2,040.00 | 1,800.00 | 2,580.00  | 500.00   | 2,450.00  | 500.00   | 1,100.00 |
|                                | 0.65     | 0.60     | 0.75     | 0.60      | 0.19     | 0.31      | 0.50     | 0.50     |
| Wheat                          | 0.00     | 0.00     | 0.00     | 0.00      | 500.00   | 1,000.00  | 0.00     | 0.00     |
|                                | 0.00     | 0.00     | 0.00     | 0.00      | 0.19     | 0.13      | 0.00     | 0.00     |
| Soybeans                       | 470.00   | 1,360.00 | 600.00   | 1,290.00  | 1,500.00 | 4,000.00  | 500.00   | 1,100.00 |
|                                | 0.35     | 0.40     | 0.25     | 0.30      | 0.58     | 0.50      | 0.50     | 0.50     |
| Hay                            | 0.00     | 0.00     | 0.00     | 430.00    | 0.00     | 0.00      | 0.00     | 0.00     |
|                                | 0.00     | 0.00     | 0.00     | 0.10      | 0.00     | 0.00      | 0.00     | 0.00     |
| CRP                            | 0.00     | 0.00     | 0.00     | 0.00      | 100.00   | 250.00    | 0.00     | 0.00     |
|                                | 0.00     | 0.00     | 0.00     | 0.00      | 0.04     | 0.03      | 0.00     | 0.00     |

\*Receipts for 2011 are included to indicate the relative importance of each enterprise to the farm. Percents indicate the percentage of the total receipts accounted for by the livestock categories and the crops.

\*\*Acreages for 2011 are included to indicate the relative importance of each enterprise to the farm. Total planted acreage may exceed total cropland available due to double cropping. Percents indicate the percentage of total planted acreage accounted for by the crop.

## 2011 PANEL FARMS PRODUCING FEED GRAINS AND OILSEEDS

- MOCG2300** MOCG2300 is a 2,300-acre grain farm located in central Missouri (Carroll County) and plants 1,150 acres of corn and 1,150 acres of soybeans annually. This farm is located in the Missouri River bottom, an area with a large concentration of livestock production. This farm generated 61 percent of its total revenue from corn and 39 percent from soybeans during 2011.
- MOCG4000** This is a 4,000-acre central Missouri (Carroll County) grain farm with 2,000 acres of corn and 2,000 acres of soybeans. This farm is located in the Missouri River bottom, an area with a large concentration of livestock production. Corn sales accounted for 58 percent of farm receipts and soybeans accounted for 42 percent in 2011.
- MONG1850** MONG1850 is a 1,850-acre diversified northwest Missouri grain farm centered in Nodaway County. MONG1850 plants 900 acres of corn, 900 acres of soybeans, and 200 acres of hay annually. The farm also has a 200-head cow-calf herd. Proximity to the Missouri River increases marketing options for area grain farmers due to easily accessible river grain terminals. In 2011, 52 percent of the farm's total receipts were from corn, 33 percent from soybeans, and 13 percent from cattle sales.
- LAG2640** This is a 2,640-acre diversified farm located in north Louisiana (Morehouse Parish). LAC2640 plants 264 acres of cotton and wheat, 1,056 acres of corn, and 1,188 acres of soybeans each year. During 2011, 79 percent of farm receipts were generated from corn and soybean sales.
- LANG2500** This is a 2,500-acre, large-sized northeast Louisiana (Madison Parish) diversified grain farm. This farm harvests 500 acres of rice, 800 acres of soybeans, 250 acres of cotton, and 950 acres of corn. For 2011, 57 percent of farm receipts came from corn and soybean sales.
- TNG900** This is a 900-acre, moderate-sized grain farm in West Tennessee (Henry County). Annually, this farm plants 500 acres of corn, 400 acres of soybeans, and 100 acres of wheat (planted before soybeans) in a region of Tennessee recognized for the high level of implementation of conservation practices by farmers. Sixty-five percent of 2011 farm receipts were from sales of corn.
- TNG2200** West Tennessee (Henry County) is home to this 2,200-acre, large-sized grain farm. Farmers in this part of Tennessee are known for their early and continued adoption of conservation practices, including widespread implementation of no-till farming. TNG2200 plants 1,100 acres of corn, 300 acres of wheat, and 1,100 acres of soybeans (300 of which are double-cropped after wheat). The farm generated 58 percent of its 2011 gross receipts from sales of corn and 33 percent from soybeans.
- SCG3500** A 3,500-acre, large-sized South Carolina (Clarendon County) grain farm with 1,400 acres of corn, 875 acres of cotton, 1,225 acres of wheat, and 1,225 acres of soybeans double-cropped after wheat. The farm generated 34 percent of 2011 receipts from corn sales and 16 percent from soybean sales.

Appendix Table A. Characteristics of Panel Farms Producing Feed Grains.

|                                | MOCG2300  | MOCG4000  | MONG1850 | LAG2640   | LANG2500 | TNG900   | TNG2200  | SCG3500   |
|--------------------------------|-----------|-----------|----------|-----------|----------|----------|----------|-----------|
| County                         | Carroll   | Carroll   | Nodaway  | Morehouse | Madison  | Henry    | Henry    | Clarendon |
| Total Cropland                 | 2,300.00  | 4,000.00  | 1,850.00 | 2,640.00  | 2,500.00 | 900.00   | 2,200.00 | 3,500.00  |
| Acres Owned                    | 1,380.00  | 2,000.00  | 950.00   | 0.00      | 1,250.00 | 150.00   | 550.00   | 1,400.00  |
| Acres Leased                   | 920.00    | 2,000.00  | 900.00   | 2,640.00  | 1,250.00 | 750.00   | 1,650.00 | 2,100.00  |
| Pastureland                    |           |           |          |           |          |          |          |           |
| Acres Owned                    | 0.00      | 0.00      | 600.00   | 0.00      | 0.00     | 0.00     | 0.00     | 1,400.00  |
| Acres Leased                   | 0.00      | 0.00      | 400.00   | 0.00      | 0.00     | 0.00     | 0.00     | 0.00      |
| Assets (\$1000)                |           |           |          |           |          |          |          |           |
| Total                          | 12,091.00 | 19,824.00 | 8,024.00 | 1,676.00  | 7,108.00 | 1,948.00 | 4,306.00 | 10,038.00 |
| Real Estate                    | 9,885.00  | 16,350.00 | 6,554.00 | 600.00    | 4,654.00 | 1,055.00 | 2,375.00 | 7,570.00  |
| Machinery                      | 948.00    | 986.00    | 627.00   | 855.00    | 1,518.00 | 460.00   | 1,261.00 | 1,015.00  |
| Other & Livestock              | 1,258.00  | 2,487.00  | 843.00   | 221.00    | 936.00   | 434.00   | 670.00   | 1,453.00  |
| Debt/Asset Ratios              |           |           |          |           |          |          |          |           |
| Total                          | 0.11      | 0.11      | 0.11     | 0.23      | 0.15     | 0.12     | 0.11     | 0.14      |
| Intermediate                   | 0.16      | 0.18      | 0.11     | 0.33      | 0.33     | 0.13     | 0.10     | 0.22      |
| Long Run                       | 0.11      | 0.11      | 0.12     | 0.15      | 0.12     | 0.15     | 0.13     | 0.16      |
| Number of Livestock            |           |           |          |           |          |          |          |           |
| Beef Cows                      | 0.00      | 0.00      | 200.00   | 0.00      | 0.00     | 0.00     | 0.00     | 0.00      |
| 2011 Gross Receipts (\$1,000)* |           |           |          |           |          |          |          |           |
| Total                          | 1,686.90  | 2,442.20  | 1,361.30 | 2,262.20  | 2,433.70 | 630.60   | 1,324.50 | 3,167.90  |
| Cattle                         | 0.00      | 0.00      | 171.00   | 0.00      | 0.00     | 0.00     | 0.00     | 0.00      |
|                                | 0.00      | 0.00      | 0.13     | 0.00      | 0.00     | 0.00     | 0.00     | 0.00      |
| Corn                           | 1,025.00  | 1,407.40  | 706.00   | 1,076.80  | 1,011.20 | 408.90   | 770.30   | 1,076.80  |
|                                | 0.61      | 0.58      | 0.52     | 0.48      | 0.42     | 0.65     | 0.58     | 0.34      |
| Wheat                          | 0.70      | 1.50      | 0.00     | 110.50    | 0.00     | 38.80    | 111.60   | 654.80    |
|                                | 0.00      | 0.00      | 0.00     | 0.05      | 0.00     | 0.06     | 0.08     | 0.21      |
| Soybeans                       | 661.20    | 1,033.40  | 447.90   | 704.10    | 375.80   | 180.30   | 442.60   | 519.90    |
|                                | 0.39      | 0.42      | 0.33     | 0.31      | 0.15     | 0.29     | 0.33     | 0.16      |
| Cotton                         | 0.00      | 0.00      | 0.00     | 337.30    | 292.60   | 0.00     | 0.00     | 916.40    |
|                                | 0.00      | 0.00      | 0.00     | 0.15      | 0.12     | 0.00     | 0.00     | 0.29      |
| Hay                            | 0.00      | 0.00      | 26.70    | 0.00      | 0.00     | 0.00     | 0.00     | 0.00      |
|                                | 0.00      | 0.00      | 0.02     | 0.00      | 0.00     | 0.00     | 0.00     | 0.00      |
| Other Receipts                 | 0.00      | 0.00      | 9.80     | 0.00      | 0.00     | 2.50     | 0.00     | 0.00      |
|                                | 0.00      | 0.00      | 0.01     | 0.00      | 0.00     | 0.00     | 0.00     | 0.00      |
| 2011 Planted Acres**           |           |           |          |           |          |          |          |           |
| Total                          | 2,300.00  | 4,000.00  | 2,850.00 | 2,772.00  | 2,500.00 | 1,000.00 | 2,500.00 | 4,725.00  |
| Corn                           | 1,150.00  | 2,000.00  | 900.00   | 1,056.00  | 950.00   | 500.00   | 1,100.00 | 1,400.00  |
|                                | 0.50      | 0.50      | 0.32     | 0.38      | 0.38     | 0.50     | 0.44     | 0.30      |
| Wheat                          | 0.00      | 0.00      | 0.00     | 264.00    | 0.00     | 100.00   | 300.00   | 1,225.00  |
|                                | 0.00      | 0.00      | 0.00     | 0.10      | 0.00     | 0.10     | 0.12     | 0.26      |
| Soybeans                       | 1,150.00  | 2,000.00  | 900.00   | 1,188.00  | 800.00   | 400.00   | 1,100.00 | 1,225.00  |
|                                | 0.50      | 0.50      | 0.32     | 0.43      | 0.32     | 0.40     | 0.44     | 0.26      |
| Cotton                         | 0.00      | 0.00      | 0.00     | 264.00    | 250.00   | 0.00     | 0.00     | 875.00    |
|                                | 0.00      | 0.00      | 0.00     | 0.10      | 0.10     | 0.00     | 0.00     | 0.19      |
| Hay                            | 0.00      | 0.00      | 200.00   | 0.00      | 0.00     | 0.00     | 0.00     | 0.00      |
|                                | 0.00      | 0.00      | 0.07     | 0.00      | 0.00     | 0.00     | 0.00     | 0.00      |
| CRP                            | 0.00      | 0.00      | 50.00    | 0.00      | 0.00     | 0.00     | 0.00     | 0.00      |
|                                | 0.00      | 0.00      | 0.02     | 0.00      | 0.00     | 0.00     | 0.00     | 0.00      |
| Improved Pasture               | 0.00      | 0.00      | 800.00   | 0.00      | 0.00     | 0.00     | 0.00     | 0.00      |
|                                | 0.00      | 0.00      | 0.28     | 0.00      | 0.00     | 0.00     | 0.00     | 0.00      |

\*Receipts for 2011 are included to indicate the relative importance of each enterprise to the farm. Percents indicate the percentage of the total receipts accounted for by the livestock categories and the crops.

\*\*Acreages for 2011 are included to indicate the relative importance of each enterprise to the farm. Total planted acreage may exceed total cropland available due to double cropping. Percents indicate the percentage of total planted acreage accounted for by the crop.



## **2011 PANEL FARMS PRODUCING FEED GRAINS AND OILSEEDS**

- TXNP3000** This is a 3,000-acre diversified grain farm located on the northern High Plains of Texas (Moore County). This farm plants 630 acres of cotton, 960 acres of irrigated corn, 240 acres of irrigated sorghum for seed production, and 870 acres of irrigated wheat annually. Fifty percent of total receipts are generated from corn sales.
- TXNP8000** TXNP8000 is a large-sized diversified grain farm located in the northern Texas Panhandle (Moore County). This farm annually plants 1,872 acres of irrigated cotton, 3,120 acres of irrigated corn, 867 acres of sorghum (587 acres of dryland and 280 acres of irrigated production for seed), and 1,555 acres of winter wheat (968 acres irrigated and 587 acres dryland). Fifty-seven percent of 2011 cash receipts were derived from corn sales.
- TXPC2500** The Texas Panhandle is home to this 2,500-acre farm (Deaf Smith County). Annually, wheat is planted on 1,242 acres (875 irrigated and 327 dryland), 875 acres planted to irrigated corn, 200 irrigated acres are planted to cotton, and grain sorghum is planted on 183 dryland acres. Sixty-four percent of 2011 cash receipts were generated by corn sales.
- TXPG3760** TXPG3760 is a predominately irrigated farm located in the Texas Panhandle (Castro County). Annually, 1,878 acres are planted to corn and 564 acres are planted to cotton. In 2011, 63 percent of cash receipts were generated from corn sales.
- TXHG2500** This 2,500-acre grain farm is located on the Blackland Prairie of Texas (Hill County). On this farm, 800 acres of corn, 900 acres of sorghum, 300 acres of cotton, and 500 acres of wheat are planted annually. Grain sales accounted for 67 percent of 2011 receipts with cotton accounting for 10 percent of sales. Forty beef cows live on 300 acres of improved pasture and contribute approximately three percent of total receipts. Due to the extreme drought in Texas in 2011, the farm received 20 percent of revenue from crop insurance indemnities.
- TXWG1600** This 1,600-acre farm is located on the Blackland Prairie of Texas (Williamson County). TXWG1600 plants 750 acres of corn, 300 acres of sorghum, 400 acres of cotton, and 150 acres of winter wheat annually. Additionally, this farm has a 40-head beef cow herd that is pastured on rented ground that cannot be farmed. Feedgrain sales accounted for 22 percent of 2011 receipts with cotton accounting for 40 percent of sales. Due to the extreme drought in Texas in 2011, the farm received 34 percent of revenue from crop insurance indemnities.
- TXUG1200** TXUG1200 is a grain farm located in Uvalde County, Texas. This farm plants 500 acres of corn, 300 acres of cotton, 250 acres of grain sorghum, and 150 acres of wheat each year. All crops except wheat are grown under irrigation. In 2011, feed grain sales accounted for 55 percent of farm receipts.

Appendix Table A. Characteristics of Panel Farms Producing Feed Grains.

|                                | TXNP3000 | TXNP8000 | TXPG2500   | TXPG3760 | TXHG2500 | TXWG1600   | TXUG1200 |
|--------------------------------|----------|----------|------------|----------|----------|------------|----------|
| County                         | Moore    | Moore    | Deaf Smith | Castro   | Hill     | Williamson | Uvalde   |
| Total Cropland                 | 3,000.00 | 8,000.00 | 2,500.00   | 3,760.00 | 2,500.00 | 1,600.00   | 1,200.00 |
| Acres Owned                    | 450.00   | 1,300.00 | 1,875.00   | 1,311.00 | 400.00   | 150.00     | 0.00     |
| Acres Leased                   | 2,550.00 | 6,700.00 | 625.00     | 2,449.00 | 2,100.00 | 1,450.00   | 1,200.00 |
| Pastureland                    |          |          |            |          |          |            |          |
| Acres Owned                    | 0.00     | 0.00     | 0.00       | 0.00     | 60.00    | 30.00      | 0.00     |
| Acres Leased                   | 0.00     | 0.00     | 0.00       | 0.00     | 240.00   | 170.00     | 0.00     |
| Assets (\$1000)                |          |          |            |          |          |            |          |
| Total                          | 2,235.00 | 7,001.00 | 4,392.00   | 5,358.00 | 2,098.00 | 1,257.00   | 307.00   |
| Real Estate                    | 975.00   | 2,694.00 | 2,458.00   | 3,834.00 | 1,150.00 | 752.00     | 0.00     |
| Machinery                      | 680.00   | 2,214.00 | 1,493.00   | 1,248.00 | 895.00   | 396.00     | 217.00   |
| Other & Livestock              | 580.00   | 2,093.00 | 440.00     | 275.00   | 53.00    | 109.00     | 90.00    |
| Debt/Asset Ratios              |          |          |            |          |          |            |          |
| Total                          | 0.13     | 0.11     | 0.18       | 0.17     | 0.25     | 0.10       | 0.09     |
| Intermediate                   | 0.26     | 0.19     | 0.27       | 0.25     | 0.23     | 0.00       | 0.12     |
| Long Run                       | 0.13     | 0.12     | 0.16       | 0.16     | 0.16     | 0.16       | 0.00     |
| Number of Livestock            |          |          |            |          |          |            |          |
| Beef Cows                      | 0.00     | 0.00     | 0.00       | 0.00     | 40.00    | 40.00      | 0.00     |
| 2011 Gross Receipts (\$1,000)* |          |          |            |          |          |            |          |
| Total                          | 2,102.70 | 5,970.70 | 1,966.30   | 4,377.90 | 781.40   | 619.70     | 1,139.30 |
| Cattle                         | 0.00     | 0.00     | 0.00       | 0.00     | 26.60    | 21.50      | 0.00     |
|                                | 0.00     | 0.00     | 0.00       | 0.00     | 0.03     | 0.04       | 0.00     |
| Corn                           | 1,044.70 | 3,416.30 | 1,253.90   | 2,743.80 | 172.10   | 72.80      | 480.70   |
|                                | 0.50     | 0.57     | 0.64       | 0.63     | 0.22     | 0.12       | 0.42     |
| Grain Sorghum                  | 240.90   | 378.50   | 30.40      | 0.00     | 191.00   | 31.70      | 152.70   |
|                                | 0.12     | 0.06     | 0.02       | 0.00     | 0.24     | 0.05       | 0.13     |
| Wheat                          | 297.50   | 451.50   | 398.60     | 0.00     | 164.90   | 33.80      | 27.10    |
|                                | 0.14     | 0.08     | 0.20       | 0.00     | 0.21     | 0.05       | 0.02     |
| Cotton                         | 519.60   | 1,724.50 | 234.20     | 720.90   | 75.70    | 250.50     | 478.80   |
|                                | 0.25     | 0.29     | 0.12       | 0.17     | 0.10     | 0.40       | 0.42     |
| Other Receipts                 | 0.00     | 0.00     | 49.20      | 88.60    | 0.00     | 0.00       | 0.00     |
|                                | 0.00     | 0.00     | 0.03       | 0.02     | 0.00     | 0.00       | 0.00     |
| 2011 Planted Acres**           |          |          |            |          |          |            |          |
| Total                          | 2,700.00 | 7,414.00 | 2,500.00   | 3,194.00 | 2,800.00 | 1,600.00   | 1,200.00 |
| Corn                           | 960.00   | 3,120.00 | 875.00     | 1,878.00 | 800.00   | 750.00     | 500.00   |
|                                | 0.36     | 0.42     | 0.35       | 0.59     | 0.29     | 0.47       | 0.42     |
| Grain Sorghum                  | 240.00   | 867.00   | 183.00     | 0.00     | 900.00   | 300.00     | 250.00   |
|                                | 0.09     | 0.12     | 0.07       | 0.00     | 0.32     | 0.19       | 0.21     |
| Wheat                          | 870.00   | 1,555.00 | 1,242.00   | 0.00     | 500.00   | 150.00     | 150.00   |
|                                | 0.32     | 0.21     | 0.50       | 0.00     | 0.18     | 0.09       | 0.13     |
| Cotton                         | 630.00   | 1,872.00 | 200.00     | 564.00   | 300.00   | 400.00     | 300.00   |
|                                | 0.23     | 0.25     | 0.08       | 0.18     | 0.11     | 0.25       | 0.25     |
| CRP                            | 0.00     | 0.00     | 0.00       | 188.00   | 0.00     | 0.00       | 0.00     |
|                                | 0.00     | 0.00     | 0.00       | 0.06     | 0.00     | 0.00       | 0.00     |
| Improved Pasture               | 0.00     | 0.00     | 0.00       | 0.00     | 300.00   | 0.00       | 0.00     |
|                                | 0.00     | 0.00     | 0.00       | 0.00     | 0.11     | 0.00       | 0.00     |

\*Receipts for 2011 are included to indicate the relative importance of each enterprise to the farm. Percents indicate the percentage of the total receipts accounted for by the livestock categories and the crops.

\*\*Acreages for 2011 are included to indicate the relative importance of each enterprise to the farm. Total planted acreage may exceed total cropland available due to double cropping. Percents indicate the percentage of total planted acreage accounted for by the crop.

## 2011 CHARACTERISTICS OF PANEL FARMS PRODUCING WHEAT

|                 |                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WAW1725</b>  | This is a 1,725-acre moderate-sized grain farm in the Palouse of southeastern Washington (Whitman County). It plants 1,147 acres of wheat, 120 acres of barley, and 458 acres of dry peas. Disease concerns dictate rotating a minimum acreage of barley and peas to maintain wheat yields. This farm generated 81 percent of 2011 receipts from wheat.                            |
| <b>WAW5500</b>  | A 5,500-acre, large-sized grain farm in the Palouse of southeastern Washington (Whitman County). Annually, this farm allocates 3,055 acres to wheat, 611 acres to barley, and 1,204 acres to dry peas. Diseases that inhibit wheat yield dictate the rotation of a minimum acreage of barley and peas. Wheat sales accounted for 77 percent of 2011 receipts.                      |
| <b>WAAW3500</b> | South central Washington (Adams County) is home to this 3,500-acre, large-sized grain farm. Annually, this farm plants 1,500 acres of wheat in a wheat-fallow rotation. Additionally, 500 acres are enrolled in CRP. In 2011, 96 percent of the farm's income came from wheat.                                                                                                     |
| <b>ORW3600</b>  | ORW3600 is a 3,600-acre large-sized grain farm located in northeastern Oregon (Morrow County). This farm plants 1,600 acres annually in a wheat-fallow rotation, with 400 additional acres enrolled in a CRP contract. Ninety-six percent of this farm's 2011 total receipts came from wheat sales.                                                                                |
| <b>MTW4500</b>  | North-central Montana (Chouteau County) is home to this 4,500 acre farm on which 2,330 acres of wheat (1,711 acres of winter wheat, 619 acres of spring wheat) are planted each year. MTW4500 uses no-till production practices. In 2011, 99 percent of cash income came from wheat.                                                                                               |
| <b>COW3000</b>  | A 3,000-acre northeast Colorado (Washington County), moderate-sized farm that plants 970 acres of winter wheat, 905 acres of millet, and 500 acres of corn each year. COW3000 has adopted minimum tillage practices on most of its acres. This farm generated 36 percent of its receipts from wheat, 34 percent from millet, and 29 percent from corn.                             |
| <b>COW5640</b>  | A 5,640-acre, large-sized northeast Colorado (Washington County) wheat farm. It plants 1,900 acres of wheat, 890 acres of millet, and 890 acres of corn. During 2011, 55 percent of gross receipts came from wheat sales and 26 percent came from corn sales.                                                                                                                      |
| <b>KSCW2000</b> | South central Kansas (Sumner County) is home to this 2,000-acre, moderate-sized grain farm. KSCW2000 plants 1,200 acres of winter wheat, 400 acres of soybeans, 200 acres of sorghum, and 200 acres of corn each year. For 2011, 55 percent of gross receipts came from wheat.                                                                                                     |
| <b>KSCW4500</b> | A 4,500-acre, large-sized grain farm in south central Kansas (Sumner County) that plants 2,700 acres of winter wheat, 675 acres of corn, 675 acres of soybeans, and 450 acres of sorghum. Fifty-five percent of this farm's 2011 total receipts were generated from sales of winter wheat.                                                                                         |
| <b>KSNW4000</b> | This is a 4,000-acre, moderate-sized northwest Kansas (Thomas County) grain farm. This farm plants 1,500 acres of winter wheat (wheat-fallow rotation), 1,000 acres of corn, and 500 acres of sorghum. KSNW4000 also owns 80 head of beef cows. This farm generated 38 percent of 2011 receipts from wheat, 57 percent of its receipts from feedgrains, and 5 percent from cattle. |
| <b>KSNW5500</b> | KSNW5500 is a 5,500-acre, large-sized northwest Kansas (Thomas County) grain farm that annually plants 1,820 acres of winter wheat, 2,050 acres of corn, 500 acres of sorghum, and 130 acres of soybeans. This farm also runs 100 head of beef cows. The farm generated 25 percent of receipts from wheat and 71 percent from feedgrainse during 2011.                             |

Appendix Table A. Characteristics of Panel Farms Producing Wheat.

|                                | WAW1725  | WAW5500  | WAAW3500 | ORW3600  | MTW4500  | COW3000    | COW5640    | KSCW2000 | KSCW4500 | KSNW4000 | KSNW5500 |
|--------------------------------|----------|----------|----------|----------|----------|------------|------------|----------|----------|----------|----------|
| County                         | Whitman  | Whitman  | Adams    | Morrow   | Chouteau | Washington | Washington | Sumner   | Sumner   | Thomas   | Thomas   |
| Total Cropland                 | 1,725.00 | 5,500.00 | 3,500.00 | 3,600.00 | 4,500.00 | 3,000.00   | 5,640.00   | 2,000.00 | 4,500.00 | 4,000.00 | 5,500.00 |
| Acres Owned                    | 518.00   | 2,250.00 | 1,400.00 | 1,600.00 | 2,700.00 | 1,500.00   | 1,880.00   | 700.00   | 1,000.00 | 1,170.00 | 1,800.00 |
| Acres Leased                   | 1,207.00 | 3,250.00 | 2,100.00 | 2,000.00 | 1,800.00 | 1,500.00   | 3,760.00   | 1,300.00 | 3,500.00 | 2,830.00 | 3,700.00 |
| Pastureland                    |          |          |          |          |          |            |            |          |          |          |          |
| Acres Owned                    | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 200.00     | 0.00       | 0.00     | 0.00     | 400.00   | 500.00   |
| Acres Leased                   | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00       | 0.00       | 0.00     | 0.00     | 400.00   | 500.00   |
| Assets (\$1000)                |          |          |          |          |          |            |            |          |          |          |          |
| Total                          | 2,044.00 | 8,413.00 | 1,670.00 | 1,592.00 | 3,421.00 | 2,130.00   | 3,389.00   | 2,162.00 | 3,795.00 | 2,847.00 | 4,842.00 |
| Real Estate                    | 1,081.00 | 5,250.00 | 1,273.00 | 860.00   | 2,924.00 | 1,625.00   | 2,122.00   | 1,570.00 | 1,928.00 | 1,686.00 | 3,217.00 |
| Machinery                      | 437.00   | 2,037.00 | 362.00   | 399.00   | 361.00   | 226.00     | 700.00     | 371.00   | 1,209.00 | 684.00   | 910.00   |
| Other & Livestock              | 525.00   | 1,126.00 | 34.00    | 333.00   | 136.00   | 279.00     | 567.00     | 220.00   | 658.00   | 478.00   | 715.00   |
| Debt/Asset Ratios              |          |          |          |          |          |            |            |          |          |          |          |
| Total                          | 0.09     | 0.11     | 0.18     | 0.14     | 0.13     | 0.12       | 0.12       | 0.11     | 0.14     | 0.16     | 0.15     |
| Intermediate                   | 0.06     | 0.12     | 0.30     | 0.23     | 0.11     | 0.06       | 0.16       | 0.07     | 0.23     | 0.27     | 0.27     |
| Long Run                       | 0.14     | 0.12     | 0.16     | 0.15     | 0.14     | 0.15       | 0.13       | 0.14     | 0.14     | 0.14     | 0.14     |
| Number of Livestock            |          |          |          |          |          |            |            |          |          |          |          |
| Beef Cows                      | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00       | 0.00       | 0.00     | 0.00     | 80.00    | 100.00   |
| 2011 Gross Receipts (\$1,000)* |          |          |          |          |          |            |            |          |          |          |          |
| Total                          | 795.50   | 2,383.30 | 454.60   | 562.20   | 672.50   | 539.20     | 978.40     | 638.80   | 1,376.10 | 1,128.10 | 1,913.60 |
| Cattle                         | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00       | 0.00       | 0.00     | 0.00     | 59.70    | 85.40    |
|                                | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00       | 0.00       | 0.00     | 0.00     | 0.05     | 0.05     |
| Wheat                          | 647.80   | 1,840.80 | 436.80   | 539.20   | 663.30   | 194.40     | 539.30     | 347.90   | 749.90   | 425.50   | 470.20   |
|                                | 0.81     | 0.77     | 0.96     | 0.96     | 0.99     | 0.36       | 0.55       | 0.55     | 0.55     | 0.38     | 0.25     |
| Grain Sorghum                  | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00       | 0.00       | 75.50    | 174.70   | 195.50   | 197.70   |
|                                | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00       | 0.00       | 0.12     | 0.13     | 0.17     | 0.10     |
| Barley                         | 40.60    | 225.00   | 1.00     | 0.00     | 9.20     | 0.00       | 0.00       | 0.00     | 0.00     | 0.00     | 0.00     |
|                                | 0.05     | 0.09     | 0.00     | 0.00     | 0.01     | 0.00       | 0.00       | 0.00     | 0.00     | 0.00     | 0.00     |
| Corn                           | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 153.50     | 251.00     | 99.00    | 325.90   | 447.30   | 1,068.10 |
|                                | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.29       | 0.26       | 0.16     | 0.24     | 0.40     | 0.56     |
| Soybeans                       | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00       | 0.00       | 116.40   | 125.60   | 0.00     | 92.10    |
|                                | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00       | 0.00       | 0.18     | 0.09     | 0.00     | 0.05     |
| Dry Peas                       | 107.00   | 291.60   | 0.00     | 0.00     | 0.00     | 0.00       | 0.00       | 0.00     | 0.00     | 0.00     | 0.00     |
|                                | 0.14     | 0.12     | 0.00     | 0.00     | 0.00     | 0.00       | 0.00       | 0.00     | 0.00     | 0.00     | 0.00     |
| Millet                         | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 181.70     | 179.10     | 0.00     | 0.00     | 0.00     | 0.00     |
|                                | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.34       | 0.18       | 0.00     | 0.00     | 0.00     | 0.00     |
| Other Receipts                 | 0.00     | 25.90    | 16.80    | 23.00    | 0.00     | 9.60       | 9.00       | 0.00     | 0.00     | 0.00     | 0.00     |
|                                | 0.00     | 0.01     | 0.04     | 0.04     | 0.00     | 0.02       | 0.01       | 0.00     | 0.00     | 0.00     | 0.00     |
| 2011 Planted Acres**           |          |          |          |          |          |            |            |          |          |          |          |
| Total                          | 1,725.00 | 5,230.00 | 2,000.00 | 2,000.00 | 2,330.00 | 2,675.00   | 3,930.00   | 2,000.00 | 4,500.00 | 3,000.00 | 4,500.00 |
| Wheat                          | 1,147.00 | 3,055.00 | 1,500.00 | 1,600.00 | 2,330.00 | 970.00     | 1,900.00   | 1,200.00 | 2,700.00 | 1,500.00 | 1,820.00 |
|                                | 0.67     | 0.58     | 0.75     | 0.80     | 1.00     | 0.36       | 0.48       | 0.60     | 0.60     | 0.50     | 0.40     |
| Grain Sorghum                  | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00       | 0.00       | 200.00   | 450.00   | 500.00   | 500.00   |
|                                | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00       | 0.00       | 0.10     | 0.10     | 0.17     | 0.11     |
| Barley                         | 120.00   | 611.00   | 0.00     | 0.00     | 0.00     | 0.00       | 0.00       | 0.00     | 0.00     | 0.00     | 0.00     |
|                                | 0.07     | 0.12     | 0.00     | 0.00     | 0.00     | 0.00       | 0.00       | 0.00     | 0.00     | 0.00     | 0.00     |
| Corn                           | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 500.00     | 890.00     | 200.00   | 675.00   | 1,000.00 | 2,050.00 |
|                                | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.19       | 0.23       | 0.10     | 0.15     | 0.33     | 0.46     |
| Soybeans                       | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00       | 0.00       | 400.00   | 675.00   | 0.00     | 130.00   |
|                                | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00       | 0.00       | 0.20     | 0.15     | 0.00     | 0.03     |
| Dry Peas                       | 458.00   | 1,204.00 | 0.00     | 0.00     | 0.00     | 0.00       | 0.00       | 0.00     | 0.00     | 0.00     | 0.00     |
|                                | 0.27     | 0.23     | 0.00     | 0.00     | 0.00     | 0.00       | 0.00       | 0.00     | 0.00     | 0.00     | 0.00     |
| Millet                         | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 905.00     | 890.00     | 0.00     | 0.00     | 0.00     | 0.00     |
|                                | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.34       | 0.23       | 0.00     | 0.00     | 0.00     | 0.00     |
| CRP                            | 0.00     | 360.00   | 500.00   | 400.00   | 0.00     | 300.00     | 250.00     | 0.00     | 0.00     | 0.00     | 0.00     |
|                                | 0.00     | 0.07     | 0.25     | 0.20     | 0.00     | 0.11       | 0.06       | 0.00     | 0.00     | 0.00     | 0.00     |

\*Receipts for 2011 are included to indicate the relative importance of each enterprise to the farm. Percents indicate the percentage of the total receipts accounted for by the livestock categories and the crops.

\*\*Acreages for 2011 are included to indicate the relative importance of each enterprise to the farm. Total planted acreage may exceed total cropland available due to double cropping. Percents indicate the percentage of total planted acreage accounted for by the crop.

## 2011 CHARACTERISTICS OF PANEL FARMS PRODUCING COTTON

- TXSP2500** A 2,500-acre Texas South Plains (Dawson County) cotton farm that is moderate-sized for the area. TXSP2500 plants 2,275 acres of cotton (1,800 dryland, 475 irrigated). For 2011, 60 percent of receipts came from cotton. Due to the extreme drought in Texas in 2011, the farm received 40 percent of revenue from crop insurance indemnities.
- TXSP4500** The Texas South Plains (Dawson County) is home to this 4,500-acre, large-sized cotton farm that grows 4,047 acres of cotton (2,667 dryland, 1,380 irrigated) and 120 acres of wheat. Cotton sales comprised 78 percent of 2011 receipts. Due to the extreme drought in Texas in 2011, the farm received 19 percent of revenue from crop insurance indemnities.
- TXEC5000** This 5,000-acre farm is located on the Eastern Caprock of the Texas South Plains (Crosby County). Annually, 3,650 acres are planted to cotton (2,650 irrigated and 1,000 dryland), 550 acres of sorghum (250 irrigated and 300 dryland), and 300 acres of dryland wheat. In 2011, cotton sales accounted for 94 percent of gross receipts.
- TXRP2500** TXRP2500 is a 2,500-acre cotton farm located in the Rolling Plains of Texas (Jones County). This farm plants 1,000 acres of cotton and 1,000 acres of winter wheat each year. The area is limited by rainfall, and the farm uses a conservative level of inputs. Four percent of 2011 farm receipts came from cotton sales. Twenty-five head of beef cows generated nine percent of farm receipts. Due to the extreme drought in Texas in 2011, the farm received 63 percent of revenue from crop insurance indemnities.
- TXMC1800** This 1,800-acre cotton farm is located on the Coastal Plain of southeast Texas (Wharton County). TXMC1800 farms 300 acres of sorghum, 900 acres of cotton, and 600 acres of corn. In 2011, cotton sales comprised 57 percent of total cash receipts on this operation.
- TXCB2250** A 2,250-acre cotton farm located on the Texas Coastal Bend (San Patricio County) that farms 1,250 acres of cotton, 1,125 acres of sorghum, and 125 acres of corn annually. Sixty-four percent of 2011 cash receipts were generated by cotton.
- TXCB8000** Nueces County, Texas is home to this 8,000-acre farm. Annually, 4,000 acres are planted to cotton and 4,000 acres to sorghum. Cotton sales accounted for 66 percent of 2011 receipts.
- TXVC4500** This 4,500-acre farm is located in the lower Rio Grande Valley of Texas (Willacy County) and plants 1,495 acres to cotton (500 irrigated and 995 acres dryland), 2,780 acres to sorghum, and 225 acres of sugarcane. In 2011, 43 percent of TXVC4500's cash receipts were generated by cotton sales.

Appendix Table A. Characteristics of Panel Farms Producing Cotton.

|                                | TXSP2500 | TXSP4500 | TXEC5000 | TXRP2500 | TXMC1800 | TXCB2500     | TXCB8000 | TXVC4500 |
|--------------------------------|----------|----------|----------|----------|----------|--------------|----------|----------|
| County                         | Dawson   | Dawson   | Crosby   | Jones    | Wharton  | San Patricio | Nueces   | Willacy  |
| Total Cropland                 | 2,500.00 | 4,500.00 | 5,000.00 | 2,500.00 | 1,800.00 | 2,500.00     | 8,000.00 | 4,500.00 |
| Acres Owned                    | 500.00   | 900.00   | 640.00   | 400.00   | 180.00   | 500.00       | 320.00   | 900.00   |
| Acres Leased                   | 2,000.00 | 3,600.00 | 4,360.00 | 2,100.00 | 1,620.00 | 2,000.00     | 7,680.00 | 3,600.00 |
| Pastureland                    |          |          |          |          |          |              |          |          |
| Acres Leased                   | 0.00     | 0.00     | 0.00     | 500.00   | 0.00     | 0.00         | 0.00     | 0.00     |
| Assets (\$1000)                |          |          |          |          |          |              |          |          |
| Total                          | 1,383.00 | 3,215.00 | 2,670.00 | 625.00   | 1,121.00 | 1,695.00     | 4,459.00 | 4,392.00 |
| Real Estate                    | 674.00   | 900.00   | 592.00   | 328.00   | 431.00   | 975.00       | 662.00   | 1,927.00 |
| Machinery                      | 642.00   | 1,392.00 | 1,195.00 | 242.00   | 690.00   | 559.00       | 2,439.00 | 1,556.00 |
| Other & Livestock              | 67.00    | 923.00   | 882.00   | 55.00    | 0.00     | 162.00       | 1,358.00 | 909.00   |
| Debt/Asset Ratios              |          |          |          |          |          |              |          |          |
| Total                          | 0.12     | 0.12     | 0.14     | 0.08     | 0.38     | 0.19         | 0.30     | 0.19     |
| Intermediate                   | 0.12     | 0.20     | 0.23     | 0.00     | 0.20     | 0.33         | 0.50     | 0.35     |
| Long Run                       | 0.14     | 0.14     | 0.14     | 0.16     | 0.16     | 0.14         | 0.16     | 0.16     |
| Number of Livestock            |          |          |          |          |          |              |          |          |
| Beef Cows                      | 0.00     | 0.00     | 0.00     | 25.00    | 0.00     | 0.00         | 0.00     | 0.00     |
| 2011 Gross Receipts (\$1,000)* |          |          |          |          |          |              |          |          |
| Total                          | 804.30   | 2,148.70 | 2,725.30 | 461.30   | 845.00   | 1,190.10     | 4,341.10 | 2,345.40 |
| Cattle                         | 0.00     | 0.00     | 0.00     | 15.50    | 0.00     | 0.00         | 0.00     | 0.00     |
|                                | 0.00     | 0.00     | 0.00     | 0.03     | 0.00     | 0.00         | 0.00     | 0.00     |
| Cotton                         | 484.00   | 1,675.00 | 2,549.90 | 19.30    | 478.50   | 760.10       | 2,878.80 | 999.50   |
|                                | 0.60     | 0.78     | 0.94     | 0.04     | 0.57     | 0.64         | 0.66     | 0.43     |
| Grain Sorghum                  | 0.00     | 0.00     | 151.10   | 0.00     | 113.40   | 393.00       | 1,462.30 | 1,007.30 |
|                                | 0.00     | 0.00     | 0.06     | 0.00     | 0.13     | 0.33         | 0.34     | 0.43     |
| Wheat                          | 0.00     | 54.80    | 24.30    | 139.70   | 0.00     | 0.00         | 0.00     | 0.00     |
|                                | 0.00     | 0.03     | 0.01     | 0.30     | 0.00     | 0.00         | 0.00     | 0.00     |
| Corn                           | 0.00     | 0.00     | 0.00     | 0.00     | 131.60   | 37.00        | 0.00     | 0.00     |
|                                | 0.00     | 0.00     | 0.00     | 0.00     | 0.16     | 0.03         | 0.00     | 0.00     |
| Rice                           | 0.00     | 0.00     | 0.00     | 0.00     | 8.80     | 0.00         | 0.00     | 0.00     |
|                                | 0.00     | 0.00     | 0.00     | 0.00     | 0.01     | 0.00         | 0.00     | 0.00     |
| 2011 Planted Acres**           |          |          |          |          |          |              |          |          |
| Total                          | 2,275.00 | 4,167.00 | 4,500.00 | 2,000.00 | 1,800.00 | 2,500.00     | 8,000.00 | 4,500.00 |
| Cotton                         | 2,275.00 | 4,047.00 | 3,650.00 | 1,000.00 | 900.00   | 1,250.00     | 4,000.00 | 1,495.00 |
|                                | 1.00     | 0.97     | 0.81     | 0.50     | 0.50     | 0.50         | 0.50     | 0.33     |
| Grain Sorghum                  | 0.00     | 0.00     | 550.00   | 0.00     | 300.00   | 1,125.00     | 4,000.00 | 2,780.00 |
|                                | 0.00     | 0.00     | 0.12     | 0.00     | 0.17     | 0.45         | 0.50     | 0.62     |
| Wheat                          | 0.00     | 120.00   | 300.00   | 1,000.00 | 0.00     | 0.00         | 0.00     | 0.00     |
|                                | 0.00     | 0.03     | 0.07     | 0.50     | 0.00     | 0.00         | 0.00     | 0.00     |
| Corn                           | 0.00     | 0.00     | 0.00     | 0.00     | 600.00   | 125.00       | 0.00     | 0.00     |
|                                | 0.00     | 0.00     | 0.00     | 0.00     | 0.33     | 0.05         | 0.00     | 0.00     |

\*Receipts for 2011 are included to indicate the relative importance of each enterprise to the farm. Percents indicate the percentage of the total receipts accounted for by the livestock categories and the crops.

\*\*Acreages for 2011 are included to indicate the relative importance of each enterprise to the farm. Total planted acreage may exceed total cropland available due to double cropping. Percents indicate the percentage of total planted acreage accounted for by the crop.

## 2011 CHARACTERISTICS OF PANEL FARMS PRODUCING COTTON

- CAC4000** A 4,000-acre cotton farm located in Kings County, California, CAC4000 plants 1,333 acres to cotton, 267 acres to hay, 2666 acres of silage, and harvests 400 acres of almonds. Thirty-three percent of 2011 receipts came from cotton sales.
- ARNC5000** Far northeast Arkansas (Mississippi County) is home to this 5,000-acre cotton farm. ARNC5000 plants all its acres to cotton annually, generating 100 percent of its receipts from cotton.
- TNC2100** A 2,100-acre, moderate-sized West Tennessee (Fayette County) cotton farm. TNC2100 consists of 525 acres of cotton, 1,020 acres of soybeans, 525 acres of corn, and 30 acres enrolled in CRP. Cotton accounted for 40 percent of 2011 gross receipts, with corn and soybeans contributing 28 percent and 33 percent, respectively.
- TNC4050** TNC4050 is a 4,050-acre, large-sized West Tennessee (Haywood County) cotton farm. This farm plants 2,025 acres of cotton, 1,425 acres of soybeans, 600 acres of corn, and 475 acres of wheat each year. During 2011, cotton sales generated 63 percent of gross receipts.
- ALC3000** A 3,000-acre cotton farm located in northern Alabama (Lawrence County) that plants 1,050 acres to cotton, 1,350 acres to corn, 600 acres of soybeans and 450 acres to wheat annually. This farm was early to adopt no-till cropping practices. Cotton sales accounted for 43 percent of total farm receipts during 2011.
- GAC2300** Southwest Georgia (Decatur County) is home to a 2,300-acre cotton farm that plants 1,200 acres to cotton, 550 acres to peanuts, and 550 acres to corn. In 2011, farm receipts were comprised of cotton sales (45 percent), corn (25 percent), and peanut sales (28 percent).
- SCC1800** SCC1800 is a moderate-sized, 1,800-acre grain farm in South Carolina (Barnwell County) consisting of 540 acres of corn, 720 acres of cotton, 360 acres of peanuts, 180 acres of soybeans (double cropped behind wheat), and 180 acres of wheat. Fifty-two percent of the farm's receipts were from cotton sales during 2011.
- NCC1500** This is a 1,500-acre cotton farm located on the upper coastal plain of North Carolina (Wayne County). NCC1500 plants 225 acres of cotton, 255 acres of wheat, 850 acres of soybeans, and 275 acres of corn annually. Cotton accounted for 20 percent of this farm's 2011 receipts.

Appendix Table A. Characteristics of Panel Farms Producing Cotton.

|                                | CAC4000   | ARNC5000    | TNC2100  | TNC4050  | ALC3000  | GAC2300  | SCC1800  | NCC1500  |
|--------------------------------|-----------|-------------|----------|----------|----------|----------|----------|----------|
| County                         | Kings     | Mississippi | Fayette  | Haywood  | Lawrence | Decatur  | Calhoun  | Wayne    |
| Total Cropland                 | 4,000.00  | 5,000.00    | 2,100.00 | 4,050.00 | 3,000.00 | 2,300.00 | 1,800.00 | 1,500.00 |
| Acres Owned                    | 2,000.00  | 1,000.00    | 225.00   | 1,000.00 | 0.00     | 1,150.00 | 450.00   | 225.00   |
| Acres Leased                   | 2,000.00  | 4,000.00    | 1,875.00 | 3,050.00 | 3,000.00 | 1,150.00 | 1,350.00 | 1,275.00 |
| Pastureland                    |           |             |          |          |          |          |          |          |
| Acres Owned                    | 0.00      | 0.00        | 0.00     | 0.00     | 0.00     | 100.00   | 200.00   | 0.00     |
| Acres Leased                   | 0.00      | 0.00        | 0.00     | 0.00     | 0.00     | 100.00   | 0.00     | 0.00     |
| Assets (\$1000)                |           |             |          |          |          |          |          |          |
| Total                          | 22,230.00 | 7,753.00    | 3,305.00 | 6,159.00 | 2,524.00 | 7,560.00 | 3,652.00 | 2,800.00 |
| Real Estate                    | 18,900.00 | 3,100.00    | 1,337.00 | 3,629.00 | 392.00   | 5,145.00 | 2,165.00 | 1,190.00 |
| Machinery                      | 985.00    | 3,932.00    | 525.00   | 851.00   | 1,572.00 | 1,066.00 | 705.00   | 1,108.00 |
| Other & Livestock              | 2,345.00  | 720.00      | 1,443.00 | 1,679.00 | 560.00   | 1,349.00 | 782.00   | 503.00   |
| Debt/Asset Ratios              |           |             |          |          |          |          |          |          |
| Total                          | 0.13      | 0.21        | 0.07     | 0.11     | 0.25     | 0.16     | 0.12     | 0.21     |
| Intermediate                   | 0.20      | 0.29        | 0.07     | 0.11     | 0.35     | 0.32     | 0.11     | 0.36     |
| Long Run                       | 0.14      | 0.15        | 0.09     | 0.14     | 0.16     | 0.15     | 0.17     | 0.15     |
| Number of Livestock            |           |             |          |          |          |          |          |          |
| Beef Cows                      | 0.00      | 0.00        | 0.00     | 0.00     | 0.00     | 125.00   | 0.00     | 0.00     |
| 2011 Gross Receipts (\$1,000)* |           |             |          |          |          |          |          |          |
| Total                          | 8,588.70  | 5,206.40    | 1,595.60 | 3,184.10 | 2,153.80 | 3,320.30 | 1,758.30 | 1,169.40 |
| Cattle                         | 0.00      | 0.00        | 0.00     | 0.00     | 0.00     | 85.30    | 0.00     | 0.00     |
|                                | 0.00      | 0.00        | 0.00     | 0.00     | 0.00     | 0.03     | 0.00     | 0.00     |
| Cotton                         | 2,795.40  | 5,206.40    | 629.80   | 2,000.50 | 923.10   | 1,491.40 | 908.40   | 236.40   |
|                                | 0.33      | 1.00        | 0.40     | 0.63     | 0.43     | 0.45     | 0.52     | 0.20     |
| Wheat                          | 502.60    | 0.00        | 0.00     | 212.20   | 187.60   | 0.00     | 60.20    | 90.90    |
|                                | 0.06      | 0.00        | 0.00     | 0.07     | 0.09     | 0.00     | 0.03     | 0.08     |
| Soybeans                       | 0.00      | 0.00        | 521.10   | 549.70   | 62.60    | 0.00     | 71.20    | 382.90   |
|                                | 0.00      | 0.00        | 0.33     | 0.17     | 0.03     | 0.00     | 0.04     | 0.33     |
| Corn                           | 0.00      | 0.00        | 442.90   | 417.70   | 980.50   | 818.00   | 265.10   | 212.40   |
|                                | 0.00      | 0.00        | 0.28     | 0.13     | 0.46     | 0.25     | 0.15     | 0.18     |
| Hay                            | 381.60    | 0.00        | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |
|                                | 0.04      | 0.00        | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |
| Peanuts                        | 0.00      | 0.00        | 0.00     | 0.00     | 0.00     | 925.70   | 453.30   | 0.00     |
|                                | 0.00      | 0.00        | 0.00     | 0.00     | 0.00     | 0.28     | 0.26     | 0.00     |
| Silage                         | 2,933.00  | 0.00        | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |
|                                | 0.34      | 0.00        | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |
| Other Receipts                 | 1,976.10  | 0.00        | 1.80     | 4.00     | 0.00     | 0.00     | 0.00     | 246.80   |
|                                | 0.23      | 0.00        | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.21     |
| 2011 Planted Acres**           |           |             |          |          |          |          |          |          |
| Total                          | 5,333.00  | 5,000.00    | 2,100.00 | 4,525.00 | 3,000.00 | 2,500.00 | 1,980.00 | 1,605.00 |
| Cotton                         | 1,333.00  | 5,000.00    | 525.00   | 2,025.00 | 1,050.00 | 1,200.00 | 900.00   | 225.00   |
|                                | 0.25      | 1.00        | 0.25     | 0.45     | 0.35     | 0.48     | 0.46     | 0.14     |
| Wheat                          | 667.00    | 0.00        | 0.00     | 475.00   | 450.00   | 0.00     | 180.00   | 255.00   |
|                                | 0.13      | 0.00        | 0.00     | 0.11     | 0.15     | 0.00     | 0.09     | 0.16     |
| Soybeans                       | 0.00      | 0.00        | 1,020.00 | 1,425.00 | 150.00   | 0.00     | 180.00   | 850.00   |
|                                | 0.00      | 0.00        | 0.49     | 0.32     | 0.05     | 0.00     | 0.09     | 0.53     |
| Corn                           | 0.00      | 0.00        | 525.00   | 600.00   | 1,350.00 | 550.00   | 360.00   | 275.00   |
|                                | 0.00      | 0.00        | 0.25     | 0.13     | 0.45     | 0.22     | 0.18     | 0.17     |
| Hay                            | 267.00    | 0.00        | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |
|                                | 0.05      | 0.00        | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |
| Peanuts                        | 0.00      | 0.00        | 0.00     | 0.00     | 0.00     | 550.00   | 360.00   | 0.00     |
|                                | 0.00      | 0.00        | 0.00     | 0.00     | 0.00     | 0.22     | 0.18     | 0.00     |
| CRP                            | 0.00      | 0.00        | 30.00    | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |
|                                | 0.00      | 0.00        | 0.01     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |
| Almonds                        | 400.00    | 0.00        | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |
|                                | 0.08      | 0.00        | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |
| Silage                         | 2,666.00  | 0.00        | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |
|                                | 0.50      | 0.00        | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     |

\*Receipts for 2011 are included to indicate the relative importance of each enterprise to the farm. Percents indicate the percentage of the total receipts accounted for by the livestock categories and the crops.

\*\*Acreages for 2011 are included to indicate the relative importance of each enterprise to the farm. Total planted acreage may exceed total cropland available due to double cropping. Percents indicate the percentage of total planted acreage accounted for by the crop.



## 2011 CHARACTERISTICS OF PANEL FARMS PRODUCING RICE

- CAR550** CAR550 is a 550-acre moderate-sized rice farm in the Sacramento Valley of California (Sutter and Yuba Counties) that plants 500 acres of rice annually. This farm generated 100 percent of 2011 gross receipts from rice sales.
- CAR3000** This is a 3,000-acre rice farm located in the Sacramento Valley of California (Sutter and Yuba Counties) that is large-sized for the region. CAR3000 plants 3,000 acres of rice annually. One hundred percent of 2011 total receipts were generated from rice sales.
- CABR1300** The Sacramento Valley (Butte County) is home to CABR1300, a 1,300-acre rice farm. CABR1300 harvests 1,200 acres of rice annually, generating 100 percent of 2011 farm receipts from rice sales.
- CACR800** CACR800 is a 800-acre rice farm located in the Sacramento Valley of California (Colusa County). This farm harvests 800 acres of rice each year. During 2011, 100 percent of farm receipts were realized from rice sales.
- TXR1350** This 1,350-acre rice farm located west of Houston, Texas (Colorado County) is moderate-sized for the region. TXR1350 harvests 450 acres of first-crop rice and 360 acres of ratoon rice. The farm generated 98 percent of its receipts from rice during 2011.
- TXR3000** TXR3000 is a 3,000-acre, large-sized rice farm located west of Houston, Texas (Colorado County). This farm harvests 1,200 acres of first-crop rice and 1,080 acres of ratoon rice annually. TXR3000 realized 100 percent of 2011 gross receipts from rice sales.
- TXBR1800** The Texas Gulf Coast (Matagorda County) is home to this 1,800-acre rice farm. TXBR1800 plants a third of its acres to rice annually and fallows the remainder. In 2011, TXBR1800 realized 100 percent farm receipts from rice sales.
- TXER3200** This 3,200-acre rice farm is located in the Texas Gulf Coast (Wharton County). TXER3200 harvests 1,067 acres of first-crop rice and 960 acres of ratoon rice each year. The farm also grows 427 acres of soybeans and 640 acres of grain sorghum annually. Seventy-seven percent of 2011 receipts came from rice sales.

Appendix Table A. Characteristics of Panel Farms Producing Rice.

|                                | CAR550   | CAR3000  | CABR1300 | CACR800  | TXR1350  | TXR3000  | TXBR1800  | TXER3200 |
|--------------------------------|----------|----------|----------|----------|----------|----------|-----------|----------|
| County                         | Sutter   | Sutter   | Butte    | Colusa   | Colorado | Colorado | Matagorda | Wharton  |
| Total Cropland                 | 550.00   | 3,000.00 | 1,300.00 | 800.00   | 1,350.00 | 3,000.00 | 1,800.00  | 3,200.00 |
| Acres Owned                    | 275.00   | 769.00   | 520.00   | 320.00   | 405.00   | 0.00     | 0.00      | 320.00   |
| Acres Leased                   | 275.00   | 2,231.00 | 780.00   | 480.00   | 945.00   | 3,000.00 | 1,800.00  | 2,880.00 |
| Assets (\$1000)                |          |          |          |          |          |          |           |          |
| Total                          | 2,464.00 | 9,823.00 | 6,885.00 | 4,257.00 | 1,585.00 | 1,193.00 | 763.00    | 1,386.00 |
| Real Estate                    | 1,913.00 | 6,326.00 | 4,422.00 | 2,667.00 | 885.00   | 69.00    | 0.00      | 714.00   |
| Machinery                      | 478.00   | 2,330.00 | 1,257.00 | 392.00   | 543.00   | 671.00   | 763.00    | 606.00   |
| Other & Livestock              | 73.00    | 1,168.00 | 1,205.00 | 1,197.00 | 157.00   | 453.00   | 0.00      | 66.00    |
| Debt/Asset Ratios              |          |          |          |          |          |          |           |          |
| Total                          | 0.12     | 0.16     | 0.15     | 0.11     | 0.22     | 0.11     | 0.74      | 0.13     |
| Intermediate                   | 0.04     | 0.29     | 0.33     | 0.25     | 0.30     | 0.17     | 0.34      | 0.11     |
| Long Run                       | 0.14     | 0.14     | 0.15     | 0.12     | 0.13     | 0.12     | 0.00      | 0.16     |
| 2011 Gross Receipts (\$1,000)* |          |          |          |          |          |          |           |          |
| Total                          | 866.00   | 4,828.50 | 2,182.60 | 1,442.10 | 566.60   | 1,388.90 | 987.20    | 1,718.60 |
| Rice                           | 866.00   | 4,828.50 | 2,182.60 | 1,442.10 | 566.60   | 1,383.90 | 987.20    | 1,314.10 |
|                                | 1.00     | 1.00     | 1.00     | 1.00     | 0.98     | 1.00     | 1.00      | 0.77     |
| Soybeans                       | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 132.60   |
|                                | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 0.08     |
| Grain Sorghum                  | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 271.90   |
|                                | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 0.16     |
| Other Receipts                 | 0.00     | 0.00     | 0.00     | 0.00     | 10.00    | 5.00     | 0.00      | 0.00     |
|                                | 0.00     | 0.00     | 0.00     | 0.00     | 0.02     | 0.00     | 0.00      | 0.00     |
| 2011 Planted Acres**           |          |          |          |          |          |          |           |          |
| Total                          | 500.00   | 3,000.00 | 1,200.00 | 800.00   | 450.00   | 1,200.00 | 600.00    | 2,134.00 |
| Rice                           | 500.00   | 3,000.00 | 1,200.00 | 800.00   | 450.00   | 1,200.00 | 600.00    | 1,067.00 |
|                                | 1.00     | 1.00     | 1.00     | 1.00     | 1.00     | 1.00     | 1.00      | 0.50     |
| Soybeans                       | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 427.00   |
|                                | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 0.20     |
| Grain Sorghum                  | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 640.00   |
|                                | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      | 0.30     |

\*Receipts for 2011 are included to indicate the relative importance of each enterprise to the farm. Percents indicate the percentage of the total receipts accounted for by the livestock categories and the crops.

\*\*Acreages for 2011 are included to indicate the relative importance of each enterprise to the farm. Total planted acreage may exceed total cropland available due to double cropping. Percents indicate the percentage of total planted acreage accounted for by the crop.

## 2011 CHARACTERISTICS OF PANEL FARMS PRODUCING RICE

- LASR1480** A 1,480-acre southwest Louisiana (Acadia, Jeff Davis, and Vermilion parishes) rice farm, LASR1480 is moderate-sized for the area. This farm harvests 800 acres of rice and 530 acres of soybeans. During 2011, 76 percent of gross receipts were generated from rice sales.
- ARMR7500** ARMR7500 is a 7,500-acre diversified rice farm in southeast Arkansas (Desha County) that plants 1,875 acres of rice, 2,375 acres of soybeans (750 double cropped behind wheat), 1,500 acres of cotton, 1,500 acres of corn, and 1,000 acres of wheat. For 2011, 28 percent of gross receipts came from rice sales, 30 percent from cotton sales, 21 percent from corn sales, and 16 percent from soybean sales.
- ARSR3240** ARSR3240 is a 3,240-acre, large-sized Arkansas (Arkansas County) rice farm that harvests 1,620 acres of rice, 1,620 acres of soybeans, and 324 acres of wheat (planted before soybeans) each year. Sixty-seven percent of this farm's 2011 receipts came from rice sales.
- ARWR1400** East central Arkansas (Cross County) is home to this 1,400-acre rice farm. Moderate-sized for the region, ARWR1400 annually plants 700 acres each to rice and soybeans. During 2011, rice sales generated 68 percent of gross receipts.
- ARHR3000** ARHR3000 is a 3,000-acre large-sized northeast Arkansas (Lawrence County) rice farm that annually harvests 1,450 acres of rice, 1,250 acres of soybeans, and 300 acres of corn. Rice sales accounted for 63 percent of 2011 farm receipts.
- MOWR4000** A 4,000-acre rice farm located in southeast Missouri (Butler County), MOWR4000 is large-sized for the region. Annually, this farm plants 2,000 acres of rice and 2,000 acres of soybeans. Sixty-six percent of receipts for this farm came from rice sales in 2011.

Appendix Table A. Characteristics of Panel Farms Producing Rice.

|                                | LASR1480 | ARMR7500 | ARSR3240 | ARWR1400 | ARHR3000 | MOWR4000  |
|--------------------------------|----------|----------|----------|----------|----------|-----------|
| County                         | Acadia   | Desha    | Arkansas | Cross    | Lawrence | Butler    |
| Total Cropland                 | 1,480.00 | 7,500.00 | 3,240.00 | 1,400.00 | 3,000.00 | 4,000.00  |
| Acres Owned                    | 150.00   | 1,200.00 | 648.00   | 420.00   | 1,000.00 | 2,000.00  |
| Acres Leased                   | 1,330.00 | 6,300.00 | 2,592.00 | 980.00   | 2,000.00 | 2,000.00  |
| Assets (\$1000)                |          |          |          |          |          |           |
| Total                          | 1,390.00 | 9,503.00 | 4,738.00 | 3,132.00 | 5,166.00 | 14,196.00 |
| Real Estate                    | 952.00   | 3,253.00 | 2,039.00 | 1,788.00 | 2,487.00 | 9,490.00  |
| Machinery                      | 438.00   | 4,877.00 | 2,422.00 | 1,311.00 | 2,656.00 | 3,444.00  |
| Other & Livestock              | 0.00     | 1,373.00 | 277.00   | 33.00    | 22.00    | 1,262.00  |
| Debt/Asset Ratios              |          |          |          |          |          |           |
| Total                          | 0.11     | 0.16     | 0.26     | 0.19     | 0.25     | 0.14      |
| Intermediate                   | 0.17     | 0.21     | 0.39     | 0.21     | 0.28     | 0.24      |
| Long Run                       | 0.07     | 0.15     | 0.14     | 0.14     | 0.15     | 0.12      |
| 2011 Gross Receipts (\$1,000)* |          |          |          |          |          |           |
| Total                          | 1,011.40 | 6,334.30 | 2,112.50 | 1,058.70 | 2,269.10 | 3,069.30  |
| Rice                           | 768.90   | 1,767.30 | 1,408.10 | 715.20   | 1,435.00 | 2,017.30  |
|                                | 0.76     | 0.28     | 0.67     | 0.68     | 0.63     | 0.66      |
| Soybeans                       | 188.20   | 1,022.40 | 582.70   | 343.60   | 572.50   | 1,052.00  |
|                                | 0.19     | 0.16     | 0.28     | 0.32     | 0.25     | 0.34      |
| Corn                           | 0.00     | 1,305.20 | 0.00     | 0.00     | 261.60   | 0.00      |
|                                | 0.00     | 0.21     | 0.00     | 0.00     | 0.12     | 0.00      |
| Wheat                          | 0.00     | 346.30   | 121.70   | 0.00     | 0.00     | 0.00      |
|                                | 0.00     | 0.06     | 0.06     | 0.00     | 0.00     | 0.00      |
| Cotton                         | 0.00     | 1,893.10 | 0.00     | 0.00     | 0.00     | 0.00      |
|                                | 0.00     | 0.30     | 0.00     | 0.00     | 0.00     | 0.00      |
| Other Receipts                 | 54.40    | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      |
|                                | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00      |
| 2011 Planted Acres**           |          |          |          |          |          |           |
| Total                          | 1,330.00 | 8,250.00 | 3,564.00 | 1,400.00 | 3,000.00 | 4,000.00  |
| Rice                           | 800.00   | 1,875.00 | 1,620.00 | 700.00   | 1,450.00 | 2,000.00  |
|                                | 0.60     | 0.23     | 0.46     | 0.50     | 0.48     | 0.50      |
| Soybeans                       | 530.00   | 2,375.00 | 1,620.00 | 700.00   | 1,250.00 | 2,000.00  |
|                                | 0.40     | 0.29     | 0.46     | 0.50     | 0.42     | 0.50      |
| Corn                           | 0.00     | 1,500.00 | 0.00     | 0.00     | 300.00   | 0.00      |
|                                | 0.00     | 0.18     | 0.00     | 0.00     | 0.10     | 0.00      |
| Wheat                          | 0.00     | 1,000.00 | 324.00   | 0.00     | 0.00     | 0.00      |
|                                | 0.00     | 0.12     | 0.09     | 0.00     | 0.00     | 0.00      |
| Cotton                         | 0.00     | 1,500.00 | 0.00     | 0.00     | 0.00     | 0.00      |
|                                | 0.00     | 0.18     | 0.00     | 0.00     | 0.00     | 0.00      |

\*Receipts for 2011 are included to indicate the relative importance of each enterprise to the farm. Percents indicate the percentage of the total receipts accounted for by the livestock categories and the crops.

\*\*Acreages for 2011 are included to indicate the relative importance of each enterprise to the farm. Total planted acreage may exceed total cropland available due to double cropping. Percents indicate the percentage of total planted acreage accounted for by the crop.

**APPENDIX B:**  
LIST OF PANEL FARM  
COOPERATORS

## FEED GRAIN FARMS

### Indiana

#### *Facilitators*

Mr. Scott Gabbard - Extension Educator, Shelby County, Purdue Cooperative Extension

#### *Panel Participants*

Mr. David Brown  
Mr. Jerry Drake  
Mr. Richard Fix  
Mr. Mark Nigh  
Mr. Ken Simpson  
Mr. Keith Theobald

Mr. Kevin Carson  
Mr. Gary Everhart  
Mr. Darrell Linville  
Mr. Gary Robards  
Mr. Doug Theobald  
Mr. Jeremy Weaver

### Iowa

#### *Facilitators*

Mr. Jim Patton - County Extension Director, Webster County

#### *Panel Participants*

Mr. Robert Anderson  
Mr. Perry Black  
Mr. Jason Carver  
Mr. Kevin Carver  
Todd Lundgren  
Mr. William Secor  
Mr. Jason Stanek

Mr. Dean Black  
Mr. A.J. Blair  
Mr. and Mrs. Jim Carver  
Mr. Larry Lane  
Mr. Robert Lynch  
Mr. Doug Stanek  
Mr. Loren Wuebker

### Louisiana

#### *Facilitators*

Mr. Kurt Guidry - Professor, LSU Ag Center

#### *Panel Participants*

Mr. R. Berry Barham  
Mr. John Carroll  
Mr. Buddy Page

Mr. Jess Barr  
Mr. Randy Miller

### Louisiana - Northeast

#### *Facilitators*

Mr. Kurt Guidry - Professor, LSU Ag Center

#### *Panel Participants*

Mr. Damian Bollich  
Mr. Fred Franklin  
Mr. Lindy Lingo

Mr. Mark Brown  
Mr. Ed Greer  
Mr. Ed Patrick

### Missouri - Central

#### *Facilitators*

Mr. Parman Green - Farm Management Specialist, University of Missouri-Columbia

#### *Panel Participants*

Mr. Joe Brockmeier  
Mr. Kyle Durham  
Mr. Ron Gibson  
Mr. Dale Griffith  
Mr. Mike Hisle  
Mr. Glenn Kaiser  
Mr. Robert Kipping  
Mr. Rob Korff  
Mr. Ron Linneman  
Mr. Mike Ritchhart

Mr. Mark Casner  
Mr. Dennis Germann  
Mr. Todd Gibson  
Mr. Jack Harriman  
Mr. Preston Hisle  
Mr. David Kipping  
Mr. Gerald Kitchen  
Mr. Craig Linneman  
Mr. Terry Reimer  
Mr. James Wheeler

## FEED GRAIN FARMS (CONTINUED)

### Missouri - Northwest

#### *Panel Participants*

Mr. Jack Baldwin  
Mr. Kevin Rosenbohm

Mr. Gary Ecker  
Mr. Roger Vest

### Nebraska - Central

#### *Facilitators*

Mr. Bruce Treffer - Extension Educator, Dawson County

#### *Panel Participants*

Mr. Jim Aden  
Mr. Jeremy Geiger  
Mr. Pat Luther  
Mr. Scott McPheeters  
Mr. Paul Stieb

Mr. Rob Anderson  
Mr. Greg Hueftle  
Mr. Tim Maline  
Mr. Dave Rowe  
Mr. Dan Strauss

### North Dakota

#### *Facilitators*

Dr. Dwight Aakre - Extension Associate-Farm Management, North Dakota State University  
Mr. Randy Grueneich - County Extension Agent, North Dakota State University

#### *Panel Participants*

Mr. Jim Broten  
Mr. Mike Clemens  
Mr. Leland Guscette  
Mr. Greg Shanenko  
Mr. Arvid Winkler

Mr. Wade Bruns  
Mr. Jack Formo  
Mr. Raymond Haugen  
Mr. Anthony Thilmony

### South Carolina

#### *Facilitators*

Dr. Todd Davis - Assistant Professor/Extension Economist, Clemson University  
Mr. Scott Mickey

#### *Panel Participants*

Mr. Troy Allen  
Mr. Cag Brunson  
Mr. Harry DuRant  
Mr. Jason Gamble  
Mr. Barry Hutto  
Mr. Joe McKeower

Ms. Vikki Brogdon  
Mr. Chris Cogdill  
Mr. Sam DuRant  
Mr. Steven Gamble  
Mr. Tommy Lee  
Mr. John Michael Parimuha

### Tennessee

#### *Facilitators*

Mr. Ranson Goodman - Extension Agent & County Director, Henry County  
Mr. Jeff Lannom - Extension Agent & County Director, Weakley County  
Mr. Tim Smith - County Extension Agent, Obion County

#### *Panel Participants*

Mr. Jason Crabtree  
Mr. John Erwin  
Mr. David Grant  
Mr. Bob Grooms  
Mr. Doug Schoolfield  
Mr. Gilbert Workman, Jr.

Mr. James S. Davis  
Mr. Mike Freeman  
Mr. Wayne Grant  
Mr. Donald Parker  
Mr. Jamie Tuck

## FEED GRAIN FARMS (CONTINUED)

### Texas - Northern Blackland Prairie

#### *Facilitators*

Mr. Ryan Collett - County Extension Agent, Hill County  
Mr. Marty Jungman - County Extension Agent, Hill County

#### *Panel Participants*

|                   |                    |
|-------------------|--------------------|
| Mr. Justin Kaska  | Mr. Kenneth Machac |
| Mr. Chad Radke    | Mr. John Sawyer    |
| Mr. Aaron Walters |                    |

### Texas - Northern High Plains

#### *Facilitators*

Dr. Steve Amosson - Extension Economist - Management, Texas A&M University  
Mr. Marcel Fischbacher - County Extension Agent, Moore County

#### *Panel Participants*

|                      |                     |
|----------------------|---------------------|
| Mr. Kerry Cartrite   | Mr. Brent Clark     |
| Mr. Kelly Hays       | Mr. Casey Kimbrell  |
| Mr. Rick May         | Mr. Tom Moore       |
| Mr. H.D. Morton      | Mr. Wesley Spurlock |
| Mr. Darren Stallwitz | Mr. Dee Vaughan     |
| Mr. Willie Wieck     | Ms. Linda Williams  |

### Texas - Panhandle

#### *Facilitators*

Mr. Steve Young - County Extension Agent, Castro County

#### *Panel Participants*

|                     |                    |
|---------------------|--------------------|
| Mr. Donny Carpenter | Mr. Coby Gilbreath |
| Ms. Rosie Kleman    | Mr. Lance Loudder  |
| Mr. Greg Sides      | Mr. Andy Williams  |

### Texas - Panhandle

#### *Facilitators*

Mr. Rick Auckerman - County Extension Agent, Texas Cooperative Extension  
Mr. Michael Clayman - Regional Vice President, First Ag Credit

#### *Panel Participants*

|                     |                   |
|---------------------|-------------------|
| Mr. Michael Carlson | Mr. Roy Carlson   |
| Mr. Greg Chavez     | Mr. Steve Hoffman |
| Mr. Bob Meyer       | Mr. Harold Sides  |

### Texas - Southern Blackland Prairie

#### *Facilitators*

Mr. Dustin Coufal - County Extension Agent, Williamson County

#### *Panel Participants*

|                   |                   |
|-------------------|-------------------|
| Mr. Terry Pekar   | Mr. Herbert Raesz |
| Mr. Doug Schernik | Mr. Ken Seggern   |
| Mr. Donald Stolte |                   |

### Texas - Southwest

#### *Facilitators*

Mr. Bryson Dalrymple - County Extension Agent, Uvalde County

#### *Panel Participants*

|                  |                  |
|------------------|------------------|
| Mr. Jimmy Carnes | Mr. Mark Landry  |
| Mr. Danny Parker | Mr. James Parker |



## WHEAT FARMS

### Colorado

#### *Facilitators*

Mr. John Deering - Ag Business Agent, Colorado State University

Mr. Dennis Kaan - Director, Golden Plains Area Extension, Colorado State University

#### *Panel Participants*

Mr. Rollie Deering

Mr. David Foy

Ms. Gisele Jefferson

Mr. Dave Lillich

Ms. Sara Olsen

Mr. Craig Saxton

Mr. Harlan Schaffert

Mr. John Wright

Mr. Ward Deering

Mr. William Harman

Mr. Terry Kuntz

Mr. Max Olsen

Mr. Ken Remington

Mr. Calvin Schaffert

Mr. Dave Wagers

### Kansas - Northwest

#### *Facilitators*

Dr. Dan O'Brien - Area Extension Director, Kansas State University

Mr. Mark Wood - Extension Agricultural Economist, Kansas Farm Mgmt. Association

#### *Panel Participants*

Mr. Vernon Akers

Rich Calliham

Mr. Sam Crouse

Mr. Lyman Goetsch

Mr. Brian Laufer

Mr. Harold Mizell

Mr. Steve Busse

Mr. Richard Calliham

Mr. Dennis Franklin

Mr. Lee Juenemann

Mr. Lance Leebrick

Mr. Steve Schertz

### Kansas - South Central

#### *Facilitators*

Mr. Gary Cramer - County Extension Agent, Sedgwick County

Mr. Johnny Roberts - County Extension Agent, Sumner County

#### *Panel Participants*

Mr. Dennis Gruenbacher

Mr. Kent Ott

Mr. Nick Steffen

Mr. Jim Stuhlsatz

Mr. Robert White

Mr. Doug Hisken

Mr. David Reichenberger

Troy & Julia Strnad

Mr. Tim Turek

### Montana - North Central

#### *Facilitators*

Mr. Lochiel Edwards

#### *Panel Participants*

Mr. Darin Arganbright

Mr. Duane Beirwagen

Mr. Dan Works

Mr. Steve Bahnmler

Mr. Will Roehm

### Oregon - North Central

#### *Facilitators*

Jon Farquharson - BMCC Farm Management

#### *Panel Participants*

Mr. Dana Heideman

Mr. Joe McElligott

Mrs. Shannon Rust

Mr. Bill Jepsen

Mr. Craig Miles

Mr. Tim Rust

## **WHEAT FARMS (CONTINUED)**

### **Washington**

#### *Facilitators*

Mr. Aaron Esser - County Director, WSU Extension

#### *Panel Participants*

Mr. Dan Hille

Mr. Mike Miller

Mr. Steve Taylor

Mr. Alan Koch

Mr. Tim Smith

### **Washington - Palouse**

#### *Facilitators*

Dr. Janet Schmidt - Extension Faculty, Washington State University

Mr. Steve Van Vleet - Extension Agronomist, Washington State University

#### *Panel Participants*

Mr. Eric Appel

Mr. Asa Clark

Mr. Tom Cocking

Mr. Brian Largent

Mr. Michael Largent

Mr. Bruce Nelson

Mr. David Swannack

Mr. Steve Teade

Mr. Ben Barstow

Mr. Gavin Clark

Mr. David Harlow

Mr. Gary Largent

Mr. Clark Miller

Mr. Randy Suess

Mr. Del Teade

Mr. Jon Whitman

## COTTON FARMS

### Alabama

#### *Panel Participants*

Mr. James Blythe  
Dr. Steve Ford  
Ms. Larkin Martin

Mr. Paul Clark  
Mr. William Lee  
Mr. Ron Terry

### Arkansas - Adams Land Co. Gin

#### *Facilitators*

Mr. Dave Freeze - CEA Mississippi County, U of Arkansas Cooperative Extension  
Mr. Ronnie Kennett  
Mr. Blake McClelland  
Ms. Jenny Stacks  
Dr. Brad Watkins - Research Assistant Professor, U. of Arkansas Cooperative Extension

#### *Panel Participants*

Mr. Chad Costner  
Mr. Todd Edwards  
Mr. Justin Hawkins  
Mr. David Wildy

Mr. Heath Donner  
Mr. Cole Hawkins  
Mr. Randy Jackson

### California - Hanford

#### *Facilitators*

Mr. Steve Wright - Cooperative Extension County Offices, Tulare County

#### *Panel Participants*

Mr. Bo Champlin  
Mr. Matt Gilkey  
Mr. Bill Stone  
Mr. Mark Watte

Mr. Kirk Gilkey  
Mr. Ted Sheely  
Mr. Bill Tos

### Georgia - Southwest

#### *Facilitators*

Mr. Rome Ethredge - County Extension Coordinator, Seminole County  
Mr. Mitchell May - County Extension Coordinator, Decatur County  
Dr. Don Shurley - Professor/Economist - Cotton, University of Georgia  
Dr. Nathan Smith - Assistant Professor, Extension Economist, University of Georgia

#### *Panel Participants*

Mr. Andy Bell  
Mr. Willard Mims

Mr. Jerry Jones  
Mr. Raymond Thompson

### North Carolina

#### *Facilitators*

Mr. Kevin Johnson - County Extension Agent, Wayne County

#### *Panel Participants*

Mr. Landis Brantham, Jr.  
Mr. David B. Mitchell, Sr.  
Mr. Craig West

Mr. Willie Howell  
Mr. Danny C. Pierce  
Mr. Bryant Worley

## COTTON FARMS (CONTINUED)

### South Carolina

#### *Facilitators*

Dr. Todd Davis - Assistant Professor/Extension Economist, Clemson University  
Mr. Scott Mickey

#### *Panel Participants*

|                            |                            |
|----------------------------|----------------------------|
| Mr. Corrin F. "Bud" Bowers | Mr. James Bookhart         |
| Mr. Jimmie Griner          | Mr. Johnny & Debbie Crider |
| Mr. Bates Houck            | Mr. Henry Herndon          |
| Mr. Doug Jarrell           | Mr. Dean & Richard Hutto   |
| Mr. Jeff Sandifer          | Mr. J. O. Patterson        |
|                            | Mr. Stephen Still          |

### Tennessee

#### *Facilitators*

Mr. Jim Castellaw - Extension Area Specialist, Farm Management  
Dr. Chism Craig - University of Tennessee  
Mr. Chuck Danehower - Extension Area Specialist, Farm Management  
Mr. Chris Main - Cotton Specialist  
Ms. Tracey Sullivan - County Extension Agent, Haywood County  
Mr. Jeff Via - County Extension Director, Fayette County

#### *Panel Participants*

|                            |                       |
|----------------------------|-----------------------|
| Mr. Harris Armour, III     | Mr. Chuck Dacus       |
| Mr. R. Morris English, Jr. | Mr. Lee Graves        |
| Mr. Dewayne Hendrix        | Mr. Tom Karcher       |
| Mr. Allen King             | Mr. John King         |
| Mr. Travis Lonon           | Mr. William E. Powers |
| Mr. Ronald Woods           |                       |

### Texas - Coastal Bend

#### *Facilitators*

Mr. Duane Campion - County Extension Agent, San Patricio County and Aransas County  
Dr. Larry Falconer - Extension Economist - Management, Texas A&M University  
Mr. Mark Miller - Chief Operations Officer, Texas AgFinance  
Mr. Jeff Nunley - Executive Director, South Texas Cotton & Grain Association  
Mr. John Parker - Vice President, Texas AgFinance  
Mr. Jeff Stapper - County Extension Agent, Nueces County  
Mr. Mac Young - Extension Specialist-Risk Management, Texas AgriLife Extension

#### *Panel Participants*

|                    |                       |
|--------------------|-----------------------|
| Mr. Travis Adams   | Mr. Marvin Beyer, Jr. |
| Mr. Brad Bickham   | Mr. Jimmy Dodson      |
| Mr. Jon Gwynn      | Mr. Darrell Lawhon    |
| Mr. Larry McNair   | Mr. Andrew Miller     |
| Mr. Toby Robertson | Mr. Darby Salge       |
| Mr. David Weaver   | Mr. Jon Whatley       |

### Texas - Eastern Caprock

#### *Facilitators*

Mr. Clay Miller - Vice President, Ag Texas Farm Credit Services

#### *Panel Participants*

|                  |                    |
|------------------|--------------------|
| Mr. Lloyd Arthur | Mr. Brooks Ellison |
| Mr. Edwin Moore  | Mr. Marvin Schoepf |

## **COTTON FARMS (CONTINUED)**

### **Texas - Mid Coast**

#### *Facilitators*

Dr. Larry Falconer - Extension Economist - Management, Texas A&M University  
Mr. Jeff Nunley - Executive Director, South Texas Cotton & Grain Association  
Mr. Jimmy Roppolo - General Manager, Farmers Co-op of El Campo  
Mr. Jimmy Schulz - Sales Coordinator, Farmers Co-op of El Campo

#### *Panel Participants*

|                       |                  |
|-----------------------|------------------|
| Mr. Jimmy Barosh      | Mr. Keith Bram   |
| Mr. Brent Cerny       | Mr. Glenn Emshof |
| Mr. Daniel Gavranovic | Mr. Rob Kainer   |
| Mr. Cedric Popp       | Mr. Michael Popp |

### **Texas - Rio Grande Valley**

#### *Facilitators*

Mr. Reagan Florence - Exec. VP - Chief Lending Officer, Ag Credit of South Texas  
Mr. Luis Ribera - District Economist, Texas Cooperative Extension  
Mr. Terry Wolfe - Loan Officer, Ag Credit of South Texas

#### *Panel Participants*

|                       |                      |
|-----------------------|----------------------|
| Mr. Gary Busse        | Mr. Derrick Swanberg |
| Mr. Marshall Swanberg | Mr. Mark Willis      |

### **Texas - Rolling Plains**

#### *Facilitators*

Mr. Steven Estes - County Extension Agent, Texas AgriLife Extension

#### *Panel Participants*

|                      |                     |
|----------------------|---------------------|
| Mr. Rex Ford         | Mr. Kelly Head      |
| Mr. Michael McLellan | Mr. Brian Sandbothe |
| Mr. Mike Sloan       | Mr. Dale Spurgin    |
| Mr. Ferdie Walker    | Mr. Terry White     |

### **Texas - Southern High Plains**

#### *Facilitators*

Dr. Jackie Smith - Extension Economist - Management, Texas A&M University  
Mr. Jeff Wyatt - County Extension Agent, Dawson County

#### *Panel Participants*

|                     |                   |
|---------------------|-------------------|
| Mr. Steven Archer   | Mr. Brad Boyd     |
| Mr. Andy Bratcher   | Mr. Terry Coleman |
| Mr. Will Cozart     | Mr. Kirk Tidwell  |
| Mr. Johnny Ray Todd | Mr. Donald Vogler |
| Mr. David Warren    |                   |

## RICE FARMS

### Arkansas

#### *Facilitators*

Mr. Chuck Capps  
Mr. Steve Kelley - County Agent, U. of Arkansas Cooperative Extension  
Dr. Brad Watkins - Research Assistant Professor, U. of Arkansas Cooperative Extension

#### *Panel Participants*

|                  |                  |
|------------------|------------------|
| Mr. Jeff Keeter  | Mr. Joe Mencer   |
| Mr. Matt Miles   | Mr. Jim Whitaker |
| Mr. Sam Whitaker |                  |

### Arkansas - East Central-Arkansas County

#### *Facilitators*

Mr. Bill Free - Riceland Foods, Inc.  
Dr. Brad Watkins - Research Assistant Professor, U. of Arkansas Cooperative Extension

#### *Panel Participants*

|                   |                   |
|-------------------|-------------------|
| Mr. Derek Bohanan | Mr. Monty Bohanan |
| Mr. Jerry Burkett | Mr. Dusty Hoskyn  |
| Mr. David Jessup  |                   |

### Arkansas - East Central-Cross County

#### *Facilitators*

Dr. Brad Watkins - Research Assistant Professor, U. of Arkansas Cooperative Extension  
Mr. Rick Wimberley - County Extension Agent - Staff Chair, U. of Arkansas Cooperative Extension

#### *Panel Participants*

|                       |                   |
|-----------------------|-------------------|
| Mr. Corbin Brown      | Mr. John Cooper   |
| Mr. Byron Holmes, Jr. | Mr. Keith Lockley |
| Mr. Bryan Moery       | Mr. Roger Pohlner |

### Arkansas - Northeast-Lawrence County

#### *Facilitators*

Mr. Herb Ginn  
Dr. Brad Watkins - Research Assistant Professor, U. of Arkansas Cooperative Extension

#### *Panel Participants*

|                |                      |
|----------------|----------------------|
| Mr. Greg Baltz | Mr. Jeremy Baltz     |
| Mr. Kyle Baltz | Mr. Michael Cureton  |
| Mr. Terry Gray | Mr. Marvin Hare, Jr. |
| Mr. Tori Hicks | Mr. Dwain Morris     |
| Mr. Ray Stone  |                      |

### California - Butte County

#### *Facilitators*

Dr. Cass Mutters - Farm Advisor, University of California

#### *Panel Participants*

|                   |                    |
|-------------------|--------------------|
| Mr. Ken Anderson  | Mr. Mike Boeger    |
| Mr. Lee Carrico   | Mr. Tom Coleman    |
| Mr. Eric Larrabee | Mr. Brad Mattson   |
| Mr. Steve Rystrom | Mr. Josh Sheppard  |
| Mr. Lance Tennis  | Mr. Eric Waterbury |

## **RICE FARMS (CONTINUED)**

### **California - Colusa County**

#### *Facilitators*

Dr. Cass Mutters - Farm Advisor, University of California

#### *Panel Participants*

Mr. Don Bransford  
Mr. Charles Marsh  
Mr. Robert Sutton

Mr. Mike Lux  
Mr. Joe Struckmeyer

### **California - Sutter County**

#### *Facilitators*

Dr. Chris Greer - Farm Advisor, University of California

#### *Panel Participants*

Mr. Paul Baggett  
Mr. Jack DeWitt  
Mr. Ned Lemenager  
Mr. Walt Trevethan  
Mr. Bob Van Dyke

Mr. Steve Butler  
Mr. Scott Leathers  
Mr. Paul Lowery  
Mr. Scott Tucker  
Mr. Wayne Vineyard

### **Louisiana - Southwest-Acadiana**

#### *Facilitators*

Mr. Barrett Courville - County Extension Agent, Acadia Parish  
Mr. Stuart Gauthier - County Extension Agent, Vermilion Parish  
Mr. Kurt Guidry - Professor, LSU Ag Center  
Mr. Allen Hogan - County Extension Agent, Jeff Davis Parish

#### *Panel Participants*

Mr. Tommy Faulk  
Mr. Jackie Loewer  
Mr. Brian Wild

Mr. David Lacour  
Mr. Christian Richard  
Mr. Fred Zaunbrecher

### **Missouri - Bootheel West**

#### *Panel Participants*

Mr. Rodney Eaker  
Mr. John French  
Mr. Frank Smody  
Mr. Brian Yarbro

Mr. Rusty Eaker  
Mr. Eric Patterson  
Mr. Mike Smody

### **Texas - Bay City-Matagorda County**

#### *Facilitators*

Mr. Brent Batchelor - County Extension Agent, Matagorda County

#### *Panel Participants*

Mr. Donnie Bulanek  
Mr. Barrett Franz  
Mr. Curt Mowery  
Mr. Paul Sliva

Mr. Mike Burnside  
Mr. Billy Mann  
Mr. Joey Sliva

### **Texas - Eagle Lake-Colorado County**

#### *Panel Participants*

Mr. Andy Anderson  
Mr. Kenneth Danklefs  
Mr. Jason Hlavinka  
Mr. John Waligura

Mr. Steve Balas  
Mr. W.A. "Billy" Hefner, III  
Mr. Patrick Pavlu  
Mr. Jim Wiese

## **RICE FARMS (CONTINUED)**

### **Texas - El Campo-Wharton County**

#### *Panel Participants*

Mr. L.G. Raun  
Mr. Glen Rod

Mr. Layton Raun  
Mr. Robert Shoemate



## **APPENDIX C:**

### **INDIVIDUAL FARM RESULTS**

**IAG1350**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.01                     | 0.01       | 0.01     | 0.01     |
| ARC or RLC or PLC Payments             | 22.64                         | 27.63      | 25.13    | 12.19    | 40.69                    | 48.56      | 51.10    | 95.30    |
| Government Payments                    | 22.64                         | 27.63      | 25.13    | 12.19    | 40.71                    | 48.57      | 51.11    | 95.31    |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 13.46                         | 13.46      | 0.00     | 46.16    | 9.46                     | 9.46       | 0.00     | 32.43    |
| Net Cash Farm Income                   | 424.81                        | 429.80     | 413.83   | 447.09   | 121.63                   | 129.65     | 122.66   | 200.32   |
| Real Net Worth 2017                    | 4,220.83                      | 4,236.58   | 4,186.71 | 4,291.24 | 3,141.66                 | 3,174.06   | 3,155.64 | 3,451.03 |
| AGI 3 Year Moving Average              | 404.72                        | 406.80     | 397.20   | 418.79   | 233.82                   | 237.85     | 232.01   | 268.13   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

**IAG3400**

|                                        | FAPRI Baseline Price Scenario |            |           |           | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|-----------|-----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House     |           | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC       | PLC       | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |           |           |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00      | 0.00      | 0.03                     | 0.03       | 0.03     | 0.03     |
| ARC or RLC or PLC Payments             | 7.77                          | 8.70       | 23.84     | 10.04     | 49.45                    | 52.11      | 94.21    | 131.35   |
| Government Payments                    | 7.77                          | 8.70       | 23.84     | 10.04     | 49.48                    | 52.15      | 94.25    | 131.38   |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00      | 0.00      | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 30.58                         | 30.58      | 0.00      | 105.25    | 21.50                    | 21.50      | 0.00     | 73.92    |
| Net Cash Farm Income                   | 1,094.06                      | 1,094.99   | 1,079.61  | 1,171.09  | 393.07                   | 395.76     | 418.36   | 531.32   |
| Real Net Worth 2017                    | 11,060.21                     | 11,063.07  | 11,053.84 | 11,340.05 | 8,585.01                 | 8,594.32   | 8,742.74 | 9,136.15 |
| AGI 3 Year Moving Average              | 939.29                        | 939.48     | 938.35    | 997.25    | 535.71                   | 536.29     | 557.23   | 614.78   |
| Probability of Exceeding AGI Limit (%) | 75                            | 75         | 49        | 57        | 33                       | 33         | 21       | 22       |

**NEG2400**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.02                     | 0.02       | 0.02     | 0.02     |
| ARC or RLC or PLC Payments             | 23.11                         | 22.38      | 40.29    | 20.67    | 65.06                    | 64.42      | 100.85   | 149.61   |
| Government Payments                    | 23.11                         | 22.38      | 40.29    | 20.67    | 65.08                    | 64.44      | 100.87   | 149.64   |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 27.32                         | 27.32      | 0.00     | 95.89    | 19.27                    | 19.27      | 0.00     | 67.45    |
| Net Cash Farm Income                   | 699.47                        | 698.73     | 689.35   | 765.80   | 77.19                    | 76.50      | 94.73    | 214.52   |
| Real Net Worth 2017                    | 6,555.46                      | 6,553.05   | 6,531.84 | 6,773.48 | 4,202.54                 | 4,199.74   | 4,302.81 | 4,794.02 |
| AGI 3 Year Moving Average              | 650.61                        | 650.02     | 643.93   | 693.74   | 297.09                   | 296.22     | 305.87   | 367.51   |
| Probability of Exceeding AGI Limit (%) | 37                            | 37         | 9        | 13       | 13                       | 13         | 1        | 1        |

**NEG4300**

|                                        | FAPRI Baseline Price Scenario |            |           |           | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|-----------|-----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House     |           | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC       | PLC       | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |           |           |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00      | 0.00      | 0.04                     | 0.04       | 0.04     | 0.04     |
| ARC or RLC or PLC Payments             | 7.99                          | 8.15       | 24.99     | 11.95     | 54.74                    | 54.49      | 127.47   | 144.79   |
| Government Payments                    | 7.99                          | 8.15       | 24.99     | 11.95     | 54.78                    | 54.53      | 127.51   | 144.84   |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00      | 0.00      | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 40.49                         | 40.49      | 0.00      | 142.25    | 28.55                    | 28.55      | 0.00     | 99.96    |
| Net Cash Farm Income                   | 1,202.62                      | 1,202.77   | 1,179.19  | 1,308.67  | 123.15                   | 122.86     | 169.91   | 291.86   |
| Real Net Worth 2017                    | 11,927.03                     | 11,927.50  | 11,859.33 | 12,273.81 | 7,690.11                 | 7,688.29   | 7,936.82 | 8,428.74 |
| AGI 3 Year Moving Average              | 999.49                        | 999.56     | 982.20    | 1,064.75  | 377.56                   | 377.22     | 396.61   | 464.55   |
| Probability of Exceeding AGI Limit (%) | 75                            | 75         | 54        | 63        | 30                       | 30         | 20       | 21       |

**MOCG2300**

|                                        | FAPRI Baseline Price Scenario |            |           |           | Declining Price Scenario |            |           |           |
|----------------------------------------|-------------------------------|------------|-----------|-----------|--------------------------|------------|-----------|-----------|
|                                        | Senate                        |            | House     |           | Senate                   |            | House     |           |
|                                        | ARC Indiv.                    | ARC County | RLC       | PLC       | ARC Indiv.               | ARC County | RLC       | PLC       |
|                                        |                               | \$1,000s   |           |           |                          | \$1,000s   |           |           |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00      | 0.00      | 0.02                     | 0.02       | 0.02      | 0.02      |
| ARC or RLC or PLC Payments             | 25.76                         | 28.23      | 22.14     | 14.43     | 50.79                    | 51.28      | 46.86     | 110.25    |
| Government Payments                    | 25.76                         | 28.23      | 22.14     | 14.43     | 50.81                    | 51.31      | 46.89     | 110.28    |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00      | 0.00      | 0.00                     | 0.00       | 0.00      | 0.00      |
| SCO Net Payments                       | 23.71                         | 23.71      | 0.00      | 72.29     | 16.60                    | 16.60      | 0.00      | 50.65     |
| Net Cash Farm Income                   | 651.19                        | 653.66     | 623.78    | 688.50    | 252.80                   | 253.25     | 231.70    | 348.02    |
| Real Net Worth 2017                    | 13,184.49                     | 13,192.20  | 13,096.49 | 13,304.66 | 11,754.32                | 11,753.97  | 11,682.68 | 12,120.71 |
| AGI 3 Year Moving Average              | 537.81                        | 539.04     | 519.87    | 561.43    | 314.63                   | 314.52     | 298.23    | 357.79    |
| Probability of Exceeding AGI Limit (%) | 8                             | 8          | 1         | 2         | 1                        | 1          | 1         | 1         |

**MOCG4000**

|                                        | FAPRI Baseline Price Scenario |            |           |           | Declining Price Scenario |            |           |           |
|----------------------------------------|-------------------------------|------------|-----------|-----------|--------------------------|------------|-----------|-----------|
|                                        | Senate                        |            | House     |           | Senate                   |            | House     |           |
|                                        | ARC Indiv.                    | ARC County | RLC       | PLC       | ARC Indiv.               | ARC County | RLC       | PLC       |
|                                        |                               | \$1,000s   |           |           |                          | \$1,000s   |           |           |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00      | 0.00      | 0.04                     | 0.04       | 0.04      | 0.04      |
| ARC or RLC or PLC Payments             | 4.69                          | 5.76       | 14.01     | 8.49      | 45.28                    | 47.27      | 66.39     | 128.25    |
| Government Payments                    | 4.69                          | 5.76       | 14.01     | 8.49      | 45.31                    | 47.31      | 66.42     | 128.29    |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00      | 0.00      | 0.00                     | 0.00       | 0.00      | 0.00      |
| SCO Net Payments                       | 37.09                         | 37.09      | 0.00      | 113.03    | 25.97                    | 25.97      | 0.00      | 79.19     |
| Net Cash Farm Income                   | 1,091.32                      | 1,092.39   | 1,063.58  | 1,171.08  | 494.46                   | 496.46     | 489.94    | 631.51    |
| Real Net Worth 2017                    | 22,195.93                     | 22,199.34  | 22,201.79 | 22,545.67 | 20,147.59                | 20,153.49  | 20,232.89 | 20,691.44 |
| AGI 3 Year Moving Average              | 965.61                        | 966.16     | 965.88    | 1,032.66  | 621.55                   | 622.32     | 635.34    | 710.74    |
| Probability of Exceeding AGI Limit (%) | 83                            | 83         | 53        | 62        | 34                       | 34         | 14        | 17        |

**MONG1850**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.02                     | 0.02       | 0.02     | 0.02     |
| ARC or RLC or PLC Payments             | 24.03                         | 22.80      | 20.28    | 11.29    | 37.55                    | 41.12      | 42.76    | 86.09    |
| Government Payments                    | 24.03                         | 22.80      | 20.28    | 11.29    | 37.57                    | 41.14      | 42.78    | 86.11    |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 12.73                         | 12.73      | 0.00     | 41.44    | 8.91                     | 8.91       | 0.00     | 28.98    |
| Net Cash Farm Income                   | 392.50                        | 391.10     | 375.40   | 408.95   | 6.06                     | 9.76       | 1.59     | 81.56    |
| Real Net Worth 2017                    | 8,763.62                      | 8,756.22   | 8,704.84 | 8,813.70 | 7,075.58                 | 7,089.48   | 7,059.25 | 7,415.09 |
| AGI 3 Year Moving Average              | 322.80                        | 321.42     | 312.42   | 333.59   | 103.66                   | 105.04     | 99.14    | 135.61   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

**ING1000**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.01                     | 0.01       | 0.01     | 0.01     |
| ARC or RLC or PLC Payments             | 14.33                         | 16.89      | 15.19    | 8.10     | 26.01                    | 28.93      | 30.36    | 61.58    |
| Government Payments                    | 14.33                         | 16.89      | 15.19    | 8.10     | 26.02                    | 28.94      | 30.37    | 61.59    |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 10.35                         | 10.35      | 0.00     | 32.33    | 7.23                     | 7.23       | 0.00     | 22.59    |
| Net Cash Farm Income                   | 220.67                        | 223.25     | 211.12   | 236.55   | 18.92                    | 22.00      | 15.88    | 72.37    |
| Real Net Worth 2017                    | 3,679.89                      | 3,688.55   | 3,648.40 | 3,734.16 | 2,877.20                 | 2,890.48   | 2,868.20 | 3,119.02 |
| AGI 3 Year Moving Average              | 195.34                        | 196.64     | 189.56   | 205.35   | 82.37                    | 83.83      | 79.35    | 105.52   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

**ING2200**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.03                     | 0.03       | 0.03     | 0.03     |
| ARC or RLC or PLC Payments             | 27.84                         | 33.74      | 33.77    | 16.10    | 54.22                    | 61.08      | 64.91    | 113.71   |
| Government Payments                    | 27.84                         | 33.74      | 33.77    | 16.10    | 54.25                    | 61.11      | 64.94    | 113.74   |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 25.43                         | 25.43      | 0.00     | 75.50    | 17.74                    | 17.74      | 0.00     | 52.73    |
| Net Cash Farm Income                   | 548.86                        | 554.78     | 529.32   | 587.28   | 124.54                   | 131.55     | 117.40   | 220.67   |
| Real Net Worth 2017                    | 8,967.59                      | 8,987.38   | 8,902.38 | 9,100.18 | 7,286.80                 | 7,316.46   | 7,265.84 | 7,712.78 |
| AGI 3 Year Moving Average              | 465.81                        | 469.06     | 454.23   | 490.01   | 225.71                   | 229.42     | 219.19   | 269.59   |
| Probability of Exceeding AGI Limit (%) | 4                             | 4          | 1        | 1        | 1                        | 1          | 1        | 1        |

| NDG2500                                | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.02                     | 0.02       | 0.02     | 0.02     |
| ARC or RLC or PLC Payments             | 21.34                         | 23.28      | 20.27    | 15.22    | 40.16                    | 42.31      | 44.86    | 91.40    |
| Government Payments                    | 21.34                         | 23.28      | 20.27    | 15.22    | 40.18                    | 42.33      | 44.88    | 91.43    |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 4.90                          | 4.90       | 0.00     | 23.12    | 3.39                     | 3.39       | 0.00     | 16.06    |
| Net Cash Farm Income                   | 327.97                        | 329.91     | 321.94   | 340.19   | 18.77                    | 20.96      | 20.05    | 85.37    |
| Real Net Worth 2017                    | 3,205.27                      | 3,212.04   | 3,186.16 | 3,247.61 | 1,938.72                 | 1,949.84   | 1,951.01 | 2,252.65 |
| AGI 3 Year Moving Average              | 296.90                        | 297.20     | 292.61   | 304.64   | 123.88                   | 124.00     | 121.49   | 151.48   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

| NDG8000                                | FAPRI Baseline Price Scenario |            |           |           | Declining Price Scenario |            |           |           |
|----------------------------------------|-------------------------------|------------|-----------|-----------|--------------------------|------------|-----------|-----------|
|                                        | Senate                        |            | House     |           | Senate                   |            | House     |           |
|                                        | ARC Indiv.                    | ARC County | RLC       | PLC       | ARC Indiv.               | ARC County | RLC       | PLC       |
|                                        |                               | \$1,000s   |           |           |                          | \$1,000s   |           |           |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00      | 0.00      | 0.14                     | 0.14       | 0.14      | 0.14      |
| ARC or RLC or PLC Payments             | 7.54                          | 8.36       | 20.40     | 15.47     | 57.35                    | 58.05      | 128.60    | 156.74    |
| Government Payments                    | 7.54                          | 8.36       | 20.40     | 15.47     | 57.49                    | 58.19      | 128.74    | 156.88    |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00      | 0.00      | 0.00                     | 0.00       | 0.00      | 0.00      |
| SCO Net Payments                       | 16.36                         | 16.36      | 0.00      | 76.10     | 11.43                    | 11.43      | 0.00      | 52.87     |
| Net Cash Farm Income                   | 1,343.48                      | 1,344.30   | 1,340.42  | 1,411.66  | 246.35                   | 247.04     | 309.78    | 392.51    |
| Real Net Worth 2017                    | 15,888.49                     | 15,891.11  | 15,951.77 | 16,183.30 | 11,657.12                | 11,659.26  | 12,038.62 | 12,340.80 |
| AGI 3 Year Moving Average              | 1,061.57                      | 1,061.92   | 1,079.53  | 1,121.57  | 429.92                   | 429.81     | 479.05    | 522.45    |
| Probability of Exceeding AGI Limit (%) | 80                            | 80         | 64        | 66        | 30                       | 30         | 20        | 21        |

| TNG900                                 | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.01                     | 0.01       | 0.01     | 0.01     |
| ARC or RLC or PLC Payments             | 11.10                         | 13.16      | 12.50    | 6.41     | 19.91                    | 18.75      | 20.15    | 44.59    |
| Government Payments                    | 11.10                         | 13.16      | 12.50    | 6.41     | 19.92                    | 18.76      | 20.16    | 44.59    |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 18.84                         | 18.84      | 0.00     | 42.21    | 13.05                    | 13.05      | 0.00     | 29.25    |
| Net Cash Farm Income                   | 217.01                        | 219.07     | 199.26   | 235.96   | 50.05                    | 48.72      | 35.97    | 93.98    |
| Real Net Worth 2017                    | 2,383.32                      | 2,389.18   | 2,319.54 | 2,449.41 | 1,654.85                 | 1,646.83   | 1,589.98 | 1,861.34 |
| AGI 3 Year Moving Average              | 113.20                        | 114.51     | 103.50   | 124.19   | 21.55                    | 21.03      | 13.33    | 41.04    |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

| TNG2200                                | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.02                     | 0.02       | 0.02     | 0.02     |
| ARC or RLC or PLC Payments             | 23.60                         | 29.51      | 28.52    | 14.59    | 42.67                    | 40.59      | 43.89    | 98.78    |
| Government Payments                    | 23.60                         | 29.51      | 28.52    | 14.59    | 42.68                    | 40.60      | 43.91    | 98.80    |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 46.51                         | 46.51      | 0.00     | 99.73    | 32.19                    | 32.19      | 0.00     | 69.06    |
| Net Cash Farm Income                   | 392.84                        | 398.79     | 350.52   | 437.66   | 37.68                    | 35.31      | 4.25     | 136.22   |
| Real Net Worth 2017                    | 4,979.47                      | 4,997.70   | 4,828.92 | 5,134.71 | 3,456.72                 | 3,441.11   | 3,304.72 | 3,915.26 |
| AGI 3 Year Moving Average              | 232.34                        | 235.96     | 209.18   | 258.22   | 36.52                    | 35.55      | 16.71    | 80.96    |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

| SCG3500                                | FAPRI Baseline Price Scenario |            |           |           | Declining Price Scenario |            |           |           |
|----------------------------------------|-------------------------------|------------|-----------|-----------|--------------------------|------------|-----------|-----------|
|                                        | Senate                        |            | House     |           | Senate                   |            | House     |           |
|                                        | ARC Indiv.                    | ARC County | RLC       | PLC       | ARC Indiv.               | ARC County | RLC       | PLC       |
|                                        |                               | \$1,000s   |           |           |                          | \$1,000s   |           |           |
| Loan Deficiency Payments               | 38.22                         | 38.22      | 38.22     | 38.22     | 163.40                   | 163.40     | 163.40    | 163.40    |
| ARC or RLC or PLC Payments             | 19.19                         | 23.98      | 35.50     | 36.82     | 59.29                    | 58.87      | 75.01     | 177.31    |
| Government Payments                    | 57.41                         | 62.20      | 73.72     | 75.04     | 222.69                   | 222.27     | 238.41    | 340.72    |
| STAX Net Payments                      | 47.15                         | 47.15      | 48.03     | 48.03     | 32.75                    | 32.75      | 58.56     | 58.56     |
| SCO Net Payments                       | 35.17                         | 35.17      | 0.00      | 82.18     | 24.42                    | 24.42      | 0.00      | 56.96     |
| Net Cash Farm Income                   | 738.94                        | 743.71     | 721.37    | 805.54    | 92.95                    | 92.31      | 112.04    | 277.63    |
| Real Net Worth 2017                    | 12,437.14                     | 12,452.10  | 12,435.42 | 12,717.34 | 9,895.91                 | 9,891.19   | 10,051.13 | 10,736.05 |
| AGI 3 Year Moving Average              | 670.09                        | 671.70     | 675.92    | 726.98    | 302.81                   | 301.04     | 322.27    | 409.88    |
| Probability of Exceeding AGI Limit (%) | 38                            | 39         | 12        | 16        | 10                       | 10         | 1         | 1         |

| TXNP3000                               | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 16.59                         | 16.59      | 16.59    | 16.59    | 71.02                    | 71.02      | 71.02    | 71.02    |
| ARC or RLC or PLC Payments             | 20.88                         | 23.74      | 22.60    | 14.21    | 35.04                    | 41.27      | 46.62    | 73.44    |
| Government Payments                    | 37.46                         | 40.33      | 39.19    | 30.80    | 106.06                   | 112.29     | 117.63   | 144.46   |
| STAX Net Payments                      | 20.77                         | 20.77      | 21.26    | 21.26    | 14.48                    | 14.48      | 29.76    | 29.76    |
| SCO Net Payments                       | 14.91                         | 14.91      | 0.00     | 51.26    | 10.31                    | 10.31      | 0.00     | 35.39    |
| Net Cash Farm Income                   | 360.94                        | 363.95     | 347.88   | 392.43   | -73.08                   | -66.01     | -54.96   | 12.72    |
| Real Net Worth 2017                    | 3,126.37                      | 3,137.87   | 3,082.28 | 3,237.73 | 1,291.59                 | 1,325.42   | 1,381.86 | 1,694.16 |
| AGI 3 Year Moving Average              | 317.11                        | 318.96     | 310.65   | 335.64   | 73.84                    | 78.23      | 80.33    | 112.99   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

| TXNP8000                               | FAPRI Baseline Price Scenario |            |          |           | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|-----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |           | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC       | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |           |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 50.14                         | 50.14      | 50.14    | 50.14     | 212.71                   | 212.71     | 212.71   | 212.71   |
| ARC or RLC or PLC Payments             | 12.23                         | 13.02      | 31.62    | 26.87     | 53.25                    | 53.03      | 118.12   | 156.55   |
| Government Payments                    | 62.37                         | 63.16      | 81.76    | 77.01     | 265.96                   | 265.74     | 330.83   | 369.26   |
| STAX Net Payments                      | 81.06                         | 81.06      | 82.77    | 82.77     | 56.52                    | 56.52      | 105.73   | 105.73   |
| SCO Net Payments                       | 28.87                         | 28.87      | 0.00     | 157.37    | 20.11                    | 20.11      | 0.00     | 110.00   |
| Net Cash Farm Income                   | 950.98                        | 951.76     | 943.29   | 1,101.42  | -249.33                  | -249.70    | -147.08  | 13.18    |
| Real Net Worth 2017                    | 9,691.56                      | 9,693.67   | 9,674.83 | 10,230.29 | 4,558.96                 | 4,556.53   | 5,064.38 | 5,770.12 |
| AGI 3 Year Moving Average              | 908.35                        | 908.40     | 902.15   | 997.94    | 224.73                   | 223.99     | 268.99   | 355.54   |
| Probability of Exceeding AGI Limit (%) | 65                            | 65         | 48       | 57        | 27                       | 27         | 17       | 18       |

| TXHG2500                               | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |         |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|---------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House   |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC     | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |         |          |
| Loan Deficiency Payments               | 5.31                          | 5.31       | 5.31     | 5.31     | 22.74                    | 22.74      | 22.74   | 22.74    |
| ARC or RLC or PLC Payments             | 23.19                         | 20.04      | 21.79    | 106.75   | 27.69                    | 19.61      | 22.84   | 143.89   |
| Government Payments                    | 28.50                         | 25.35      | 27.10    | 112.06   | 50.43                    | 42.35      | 45.58   | 166.63   |
| STAX Net Payments                      | 10.74                         | 10.74      | 10.88    | 10.88    | 7.45                     | 7.45       | 12.07   | 12.07    |
| SCO Net Payments                       | 55.97                         | 55.97      | 0.00     | 101.32   | 38.51                    | 38.51      | 0.00    | 69.82    |
| Net Cash Farm Income                   | 102.45                        | 98.65      | 38.73    | 243.97   | -154.44                  | -163.95    | -199.21 | 18.00    |
| Real Net Worth 2017                    | 1,584.43                      | 1,565.34   | 1,310.59 | 2,133.10 | 311.24                   | 264.47     | 92.59   | 1,144.07 |
| AGI 3 Year Moving Average              | 11.08                         | 8.32       | -21.98   | 90.05    | -125.81                  | -131.89    | -151.97 | -35.63   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1       | 1        |

| TXPG2500                               | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 9.57                          | 9.57       | 9.57     | 9.57     | 41.06                    | 41.06      | 41.06    | 41.06    |
| ARC or RLC or PLC Payments             | 27.52                         | 29.59      | 28.32    | 32.15    | 37.32                    | 37.22      | 38.07    | 106.97   |
| Government Payments                    | 37.10                         | 39.16      | 37.90    | 41.72    | 78.38                    | 78.28      | 79.13    | 148.03   |
| STAX Net Payments                      | 7.54                          | 7.54       | 7.73     | 7.73     | 5.25                     | 5.25       | 11.80    | 11.80    |
| SCO Net Payments                       | 24.37                         | 24.37      | 0.00     | 64.73    | 17.07                    | 17.07      | 0.00     | 45.32    |
| Net Cash Farm Income                   | 194.48                        | 196.53     | 169.65   | 242.62   | -208.62                  | -208.97    | -220.60  | -91.17   |
| Real Net Worth 2017                    | 3,970.88                      | 3,978.53   | 3,871.58 | 4,159.93 | 2,047.12                 | 2,045.05   | 1,990.12 | 2,616.98 |
| AGI 3 Year Moving Average              | 116.82                        | 117.33     | 102.07   | 146.63   | -99.71                   | -100.44    | -109.29  | -44.36   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

| TXPG3760                               | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |         |         |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|---------|---------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House   |         |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC     | PLC     |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |         |         |
| Loan Deficiency Payments               | 27.88                         | 27.88      | 27.88    | 27.88    | 119.40                   | 119.40     | 119.40  | 119.40  |
| ARC or RLC or PLC Payments             | 47.85                         | 40.33      | 50.08    | 33.70    | 75.46                    | 71.72      | 98.89   | 168.20  |
| Government Payments                    | 75.72                         | 68.21      | 77.96    | 61.57    | 194.85                   | 191.12     | 218.28  | 287.60  |
| STAX Net Payments                      | 25.28                         | 25.28      | 25.82    | 25.82    | 17.52                    | 17.52      | 36.38   | 36.38   |
| SCO Net Payments                       | 31.69                         | 31.69      | 0.00     | 108.66   | 22.30                    | 22.30      | 0.00    | 76.41   |
| Net Cash Farm Income                   | -97.59                        | -106.72    | -132.40  | -22.63   | -952.30                  | -957.02    | -931.04 | -753.35 |
| Real Net Worth 2017                    | 3,545.25                      | 3,504.68   | 3,398.99 | 3,857.89 | -674.46                  | -697.50    | -569.07 | 297.21  |
| AGI 3 Year Moving Average              | -16.67                        | -21.97     | -37.56   | 27.29    | -467.66                  | -470.41    | -463.74 | -374.63 |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1       | 1       |

| TXWG1600                               | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |        |        |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|--------|--------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House  |        |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC    | PLC    |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |        |        |
| Loan Deficiency Payments               | 6.69                          | 6.69       | 6.69     | 6.69     | 28.62                    | 28.62      | 28.62  | 28.62  |
| ARC or RLC or PLC Payments             | 11.14                         | 11.93      | 11.24    | 32.28    | 14.71                    | 14.73      | 15.14  | 57.83  |
| Government Payments                    | 17.83                         | 18.62      | 17.93    | 38.96    | 43.33                    | 43.34      | 43.76  | 86.45  |
| STAX Net Payments                      | 15.15                         | 15.15      | 15.39    | 15.39    | 10.53                    | 10.53      | 16.82  | 16.82  |
| SCO Net Payments                       | 8.31                          | 8.31       | 0.00     | 19.73    | 5.78                     | 5.78       | 0.00   | 13.73  |
| Net Cash Farm Income                   | 113.86                        | 114.76     | 105.45   | 148.77   | -47.67                   | -47.55     | -46.82 | 16.54  |
| Real Net Worth 2017                    | 1,404.97                      | 1,407.25   | 1,373.99 | 1,532.37 | 664.57                   | 664.00     | 670.48 | 962.30 |
| AGI 3 Year Moving Average              | 103.28                        | 104.25     | 98.88    | 123.88   | 14.48                    | 15.03      | 13.54  | 45.87  |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1      | 1      |

| TXUG1200                               | FAPRI Baseline Price Scenario |            |        |        | Declining Price Scenario |            |         |         |
|----------------------------------------|-------------------------------|------------|--------|--------|--------------------------|------------|---------|---------|
|                                        | Senate                        |            | House  |        | Senate                   |            | House   |         |
|                                        | ARC Indiv.                    | ARC County | RLC    | PLC    | ARC Indiv.               | ARC County | RLC     | PLC     |
|                                        |                               | \$1,000s   |        |        |                          | \$1,000s   |         |         |
| Loan Deficiency Payments               | 18.04                         | 18.04      | 18.04  | 18.04  | 77.16                    | 77.16      | 77.16   | 77.16   |
| ARC or RLC or PLC Payments             | 15.93                         | 15.51      | 15.38  | 33.49  | 20.12                    | 19.88      | 21.71   | 56.32   |
| Government Payments                    | 33.96                         | 33.55      | 33.41  | 51.53  | 97.28                    | 97.04      | 98.88   | 133.48  |
| STAX Net Payments                      | 20.44                         | 20.44      | 20.91  | 20.91  | 14.28                    | 14.28      | 27.38   | 27.38   |
| SCO Net Payments                       | 7.24                          | 7.24       | 0.00   | 19.76  | 5.03                     | 5.03       | 0.00    | 13.74   |
| Net Cash Farm Income                   | 101.19                        | 100.74     | 93.61  | 133.10 | -110.96                  | -111.24    | -100.66 | -46.60  |
| Real Net Worth 2017                    | 270.86                        | 269.05     | 243.09 | 388.41 | -679.86                  | -681.31    | -628.91 | -373.83 |
| AGI 3 Year Moving Average              | 124.31                        | 124.06     | 120.27 | 143.24 | 6.10                     | 5.91       | 8.76    | 36.53   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1      | 1      | 1                        | 1          | 1       | 1       |



**LAG2640**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |         |         |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|---------|---------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House   |         |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC     | PLC     |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |         |         |
| Loan Deficiency Payments               | 9.79                          | 9.79       | 9.79     | 9.79     | 42.25                    | 42.25      | 42.25   | 42.25   |
| ARC or RLC or PLC Payments             | 36.25                         | 32.66      | 29.10    | 17.04    | 59.01                    | 61.69      | 62.35   | 113.19  |
| Government Payments                    | 46.04                         | 42.45      | 38.89    | 26.83    | 101.26                   | 103.94     | 104.60  | 155.44  |
| STAX Net Payments                      | 13.13                         | 13.13      | 13.43    | 13.43    | 9.18                     | 9.18       | 17.02   | 17.02   |
| SCO Net Payments                       | 21.31                         | 21.31      | 0.00     | 67.86    | 14.93                    | 14.93      | 0.00    | 47.57   |
| Net Cash Farm Income                   | 345.42                        | 341.54     | 315.61   | 374.10   | -232.91                  | -229.86    | -238.59 | -126.77 |
| Real Net Worth 2017                    | 1,952.04                      | 1,933.96   | 1,844.88 | 2,041.42 | -598.14                  | -585.11    | -619.02 | -95.60  |
| AGI 3 Year Moving Average              | 225.83                        | 223.60     | 207.42   | 243.76   | -86.34                   | -84.68     | -94.75  | -41.45  |
| Probability of Exceeding AGI Limit (%) | 2                             | 2          | 1        | 1        | 1                        | 1          | 1       | 1       |

**LANG2500**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 10.64                         | 10.64      | 10.64    | 10.64    | 45.81                    | 45.81      | 45.81    | 45.81    |
| ARC or RLC or PLC Payments             | 35.13                         | 35.12      | 30.76    | 47.34    | 74.61                    | 72.12      | 73.96    | 183.66   |
| Government Payments                    | 45.77                         | 45.76      | 41.40    | 57.98    | 120.42                   | 117.93     | 119.77   | 229.46   |
| STAX Net Payments                      | 12.23                         | 12.23      | 12.49    | 12.49    | 8.50                     | 8.50       | 15.94    | 15.94    |
| SCO Net Payments                       | 23.67                         | 23.67      | 0.00     | 70.03    | 16.56                    | 16.56      | 0.00     | 48.90    |
| Net Cash Farm Income                   | 569.65                        | 569.64     | 541.44   | 629.24   | 72.96                    | 70.32      | 62.59    | 226.87   |
| Real Net Worth 2017                    | 7,904.79                      | 7,904.46   | 7,812.22 | 8,102.71 | 5,937.22                 | 5,923.80   | 5,900.55 | 6,610.05 |
| AGI 3 Year Moving Average              | 468.75                        | 468.67     | 450.54   | 505.17   | 187.07                   | 185.90     | 176.50   | 265.03   |
| Probability of Exceeding AGI Limit (%) | 3                             | 3          | 1        | 1        | 1                        | 1          | 1        | 1        |

**WAW1725**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.35                     | 0.35       | 0.35     | 0.35     |
| ARC or RLC or PLC Payments             | 10.14                         | 10.78      | 11.44    | 20.07    | 12.48                    | 13.00      | 19.91    | 58.39    |
| Government Payments                    | 10.14                         | 10.78      | 11.44    | 20.07    | 12.83                    | 13.34      | 20.25    | 58.74    |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 3.09                          | 3.09       | 0.00     | 14.37    | 2.12                     | 2.12       | 0.00     | 10.00    |
| Net Cash Farm Income                   | 263.12                        | 263.76     | 261.33   | 284.33   | 106.51                   | 107.01     | 111.84   | 160.42   |
| Real Net Worth 2017                    | 2,626.46                      | 2,628.52   | 2,620.58 | 2,699.31 | 2,042.68                 | 2,043.74   | 2,064.03 | 2,239.70 |
| AGI 3 Year Moving Average              | 244.54                        | 244.75     | 244.10   | 258.36   | 156.53                   | 156.75     | 158.90   | 185.20   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

| WAW5500                                | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.97                     | 0.97       | 0.97     | 0.97     |
| ARC or RLC or PLC Payments             | 24.98                         | 26.27      | 30.56    | 57.28    | 31.71                    | 31.54      | 46.46    | 164.56   |
| Government Payments                    | 24.98                         | 26.27      | 30.57    | 57.28    | 32.68                    | 32.51      | 47.43    | 165.53   |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 7.15                          | 7.15       | 0.00     | 37.18    | 4.88                     | 4.88       | 0.00     | 25.87    |
| Net Cash Farm Income                   | 451.27                        | 452.53     | 449.75   | 514.10   | -20.17                   | -20.51     | -9.73    | 138.67   |
| Real Net Worth 2017                    | 8,852.27                      | 8,855.55   | 8,850.38 | 9,090.32 | 6,757.30                 | 6,753.88   | 6,807.23 | 7,479.57 |
| AGI 3 Year Moving Average              | 432.99                        | 433.18     | 433.64   | 473.48   | 168.92                   | 167.98     | 173.98   | 252.42   |
| Probability of Exceeding AGI Limit (%) | 6                             | 6          | 1        | 2        | 1                        | 1          | 1        | 1        |

| WAAW3500                               | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| ARC or RLC or PLC Payments             | 5.45                          | 8.06       | 8.32     | 18.12    | 6.75                     | 9.05       | 14.76    | 52.16    |
| Government Payments                    | 5.45                          | 8.06       | 8.32     | 18.12    | 6.75                     | 9.05       | 14.76    | 52.16    |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 2.96                          | 2.96       | 0.00     | 9.88     | 2.02                     | 2.02       | 0.00     | 6.82     |
| Net Cash Farm Income                   | 82.69                         | 85.57      | 82.91    | 105.87   | -13.44                   | -10.82     | -6.36    | 46.51    |
| Real Net Worth 2017                    | 1,544.44                      | 1,554.54   | 1,547.16 | 1,630.68 | 1,136.07                 | 1,147.56   | 1,171.10 | 1,400.28 |
| AGI 3 Year Moving Average              | 62.22                         | 63.53      | 62.63    | 75.93    | 12.87                    | 14.03      | 15.66    | 42.93    |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

| KSCW2000                               | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| ARC or RLC or PLC Payments             | 13.23                         | 14.55      | 14.73    | 27.82    | 20.92                    | 18.62      | 21.20    | 72.81    |
| Government Payments                    | 13.23                         | 14.55      | 14.73    | 27.82    | 20.92                    | 18.62      | 21.20    | 72.82    |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 15.57                         | 15.57      | 0.00     | 39.01    | 10.59                    | 10.59      | 0.00     | 26.44    |
| Net Cash Farm Income                   | 157.05                        | 158.33     | 142.10   | 197.44   | -4.66                    | -7.45      | -16.51   | 70.51    |
| Real Net Worth 2017                    | 2,134.05                      | 2,137.17   | 2,079.46 | 2,278.57 | 1,426.21                 | 1,412.16   | 1,370.94 | 1,774.53 |
| AGI 3 Year Moving Average              | 125.41                        | 125.50     | 117.75   | 146.72   | 38.89                    | 36.97      | 32.04    | 74.78    |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

**KSCW4500**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.01                     | 0.01       | 0.01     | 0.01     |
| ARC or RLC or PLC Payments             | 28.44                         | 32.25      | 33.18    | 78.29    | 43.65                    | 40.31      | 46.53    | 173.71   |
| Government Payments                    | 28.44                         | 32.25      | 33.18    | 78.29    | 43.66                    | 40.31      | 46.53    | 173.72   |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 40.04                         | 40.04      | 0.00     | 93.15    | 27.34                    | 27.34      | 0.00     | 63.38    |
| Net Cash Farm Income                   | 407.38                        | 411.16     | 371.94   | 510.69   | 104.84                   | 101.18     | 79.37    | 274.95   |
| Real Net Worth 2017                    | 4,245.67                      | 4,256.12   | 4,130.34 | 4,580.66 | 3,106.86                 | 3,087.72   | 2,999.59 | 3,760.46 |
| AGI 3 Year Moving Average              | 298.25                        | 298.53     | 279.08   | 355.98   | 129.11                   | 125.47     | 113.05   | 217.18   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

**KSNW4000**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| ARC or RLC or PLC Payments             | 25.21                         | 22.79      | 23.40    | 76.23    | 35.87                    | 26.98      | 30.84    | 146.83   |
| Government Payments                    | 25.21                         | 22.79      | 23.40    | 76.23    | 35.87                    | 26.98      | 30.84    | 146.83   |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 33.71                         | 33.71      | 0.00     | 64.19    | 23.41                    | 23.41      | 0.00     | 44.47    |
| Net Cash Farm Income                   | 358.57                        | 356.05     | 322.64   | 440.74   | 83.60                    | 73.98      | 53.23    | 220.66   |
| Real Net Worth 2017                    | 3,456.08                      | 3,446.04   | 3,338.54 | 3,721.52 | 2,377.07                 | 2,331.31   | 2,247.59 | 2,914.33 |
| AGI 3 Year Moving Average              | 277.40                        | 275.13     | 256.23   | 326.33   | 121.70                   | 115.10     | 101.76   | 193.40   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

**KSNW5500**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| ARC or RLC or PLC Payments             | 40.50                         | 37.98      | 36.76    | 86.68    | 61.59                    | 56.03      | 60.33    | 185.79   |
| Government Payments                    | 40.50                         | 37.98      | 36.76    | 86.68    | 61.59                    | 56.03      | 60.34    | 185.79   |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 38.38                         | 38.38      | 0.00     | 83.88    | 26.75                    | 26.75      | 0.00     | 58.42    |
| Net Cash Farm Income                   | 358.55                        | 355.84     | 315.28   | 452.37   | -110.15                  | -116.48    | -141.20  | 56.23    |
| Real Net Worth 2017                    | 5,251.39                      | 5,239.28   | 5,104.28 | 5,570.56 | 3,219.58                 | 3,188.34   | 3,078.70 | 3,985.14 |
| AGI 3 Year Moving Average              | 324.72                        | 322.10     | 298.30   | 380.91   | 61.46                    | 56.44      | 39.09    | 146.59   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

**COW3000**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| ARC or RLC or PLC Payments             | 6.45                          | 8.59       | 8.43     | 11.47    | 11.18                    | 10.72      | 12.78    | 51.40    |
| Government Payments                    | 6.45                          | 8.59       | 8.43     | 11.47    | 11.18                    | 10.72      | 12.78    | 51.40    |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 11.15                         | 11.15      | 0.00     | 24.74    | 7.75                     | 7.75       | 0.00     | 17.20    |
| Net Cash Farm Income                   | 190.79                        | 192.93     | 181.45   | 209.86   | 79.29                    | 78.74      | 72.53    | 132.33   |
| Real Net Worth 2017                    | 2,509.46                      | 2,516.27   | 2,478.86 | 2,571.99 | 2,111.44                 | 2,108.91   | 2,087.01 | 2,297.00 |
| AGI 3 Year Moving Average              | 161.39                        | 162.36     | 155.97   | 173.08   | 99.78                    | 99.31      | 95.22    | 125.96   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

**COW5640**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| ARC or RLC or PLC Payments             | 14.20                         | 14.19      | 14.09    | 19.70    | 23.83                    | 18.35      | 21.89    | 84.65    |
| Government Payments                    | 14.20                         | 14.19      | 14.09    | 19.70    | 23.83                    | 18.35      | 21.89    | 84.65    |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 19.55                         | 19.55      | 0.00     | 45.90    | 13.57                    | 13.57      | 0.00     | 31.88    |
| Net Cash Farm Income                   | 237.36                        | 237.08     | 216.62   | 270.86   | 29.66                    | 23.18      | 11.89    | 116.24   |
| Real Net Worth 2017                    | 3,579.69                      | 3,575.46   | 3,506.80 | 3,697.82 | 2,722.58                 | 2,690.87   | 2,642.73 | 3,115.09 |
| AGI 3 Year Moving Average              | 186.11                        | 185.07     | 173.87   | 205.64   | 73.59                    | 69.04      | 61.79    | 115.31   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

**MTW4500**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| ARC or RLC or PLC Payments             | 9.16                          | 15.39      | 16.49    | 29.32    | 18.44                    | 22.01      | 31.01    | 109.48   |
| Government Payments                    | 9.16                          | 15.39      | 16.49    | 29.32    | 18.44                    | 22.01      | 31.01    | 109.48   |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 14.46                         | 14.46      | 0.00     | 25.35    | 9.97                     | 9.97       | 0.00     | 17.41    |
| Net Cash Farm Income                   | 155.28                        | 161.70     | 147.81   | 189.33   | -13.86                   | -9.95      | -11.26   | 99.05    |
| Real Net Worth 2017                    | 3,338.99                      | 3,359.26   | 3,313.47 | 3,466.10 | 2,616.52                 | 2,632.08   | 2,631.63 | 3,115.43 |
| AGI 3 Year Moving Average              | 149.28                        | 152.50     | 145.36   | 170.64   | 58.87                    | 60.62      | 58.10    | 114.74   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

**ORW3600**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| ARC or RLC or PLC Payments             | 5.94                          | 7.82       | 8.01     | 11.41    | 4.51                     | 6.21       | 7.88     | 29.34    |
| Government Payments                    | 5.94                          | 7.82       | 8.01     | 11.41    | 4.51                     | 6.21       | 7.88     | 29.34    |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 12.15                         | 12.15      | 0.00     | 21.94    | 8.47                     | 8.47       | 0.00     | 15.24    |
| Net Cash Farm Income                   | 254.77                        | 256.65     | 244.69   | 270.05   | 146.19                   | 147.87     | 141.04   | 177.92   |
| Real Net Worth 2017                    | 2,084.20                      | 2,089.80   | 2,052.76 | 2,131.82 | 1,724.21                 | 1,728.14   | 1,706.78 | 1,824.36 |
| AGI 3 Year Moving Average              | 209.68                        | 210.84     | 203.98   | 219.42   | 148.54                   | 149.48     | 144.88   | 166.46   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

**CAC4000**

|                                        | FAPRI Baseline Price Scenario |            |           |           | Declining Price Scenario |            |           |           |
|----------------------------------------|-------------------------------|------------|-----------|-----------|--------------------------|------------|-----------|-----------|
|                                        | Senate                        |            | House     |           | Senate                   |            | House     |           |
|                                        | ARC Indiv.                    | ARC County | RLC       | PLC       | ARC Indiv.               | ARC County | RLC       | PLC       |
|                                        |                               | \$1,000s   |           |           |                          | \$1,000s   |           |           |
| Loan Deficiency Payments               | 83.03                         | 83.03      | 83.03     | 83.03     | 356.47                   | 356.47     | 356.47    | 356.47    |
| ARC or RLC or PLC Payments             | 0.27                          | 0.90       | 1.99      | 0.42      | 1.70                     | 2.13       | 4.10      | 4.81      |
| Government Payments                    | 83.30                         | 83.94      | 85.02     | 83.45     | 358.18                   | 358.60     | 360.57    | 361.28    |
| STAX Net Payments                      | 62.42                         | 62.42      | 66.53     | 66.53     | 43.52                    | 43.52      | 130.18    | 130.18    |
| SCO Net Payments                       | 58.48                         | 58.48      | 0.00      | 99.21     | 40.66                    | 40.66      | 0.00      | 69.04     |
| Net Cash Farm Income                   | 1,777.78                      | 1,778.43   | 1,723.59  | 1,824.13  | 1,245.51                 | 1,245.95   | 1,294.80  | 1,367.89  |
| Real Net Worth 2017                    | 26,370.93                     | 26,372.88  | 26,198.21 | 26,517.91 | 24,551.83                | 24,553.17  | 24,707.65 | 24,946.58 |
| AGI 3 Year Moving Average              | 1,834.54                      | 1,834.72   | 1,803.76  | 1,861.77  | 1,522.23                 | 1,522.27   | 1,535.20  | 1,578.99  |
| Probability of Exceeding AGI Limit (%) | 96                            | 96         | 91        | 92        | 87                       | 87         | 80        | 83        |

**TXSP2500**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 37.87                         | 37.87      | 37.87    | 37.87    | 163.50                   | 163.50     | 163.50   | 163.50   |
| ARC or RLC or PLC Payments             | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| Government Payments                    | 37.87                         | 37.87      | 37.87    | 37.87    | 163.50                   | 163.50     | 163.50   | 163.50   |
| STAX Net Payments                      | 75.91                         | 75.91      | 76.77    | 76.77    | 52.58                    | 52.58      | 80.07    | 80.07    |
| SCO Net Payments                       | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| Net Cash Farm Income                   | 273.16                        | 273.16     | 274.12   | 274.12   | 60.30                    | 60.30      | 89.85    | 89.85    |
| Real Net Worth 2017                    | 1,881.84                      | 1,881.84   | 1,885.75 | 1,885.75 | 1,017.53                 | 1,017.53   | 1,136.41 | 1,136.41 |
| AGI 3 Year Moving Average              | 184.24                        | 184.24     | 184.95   | 184.95   | 61.91                    | 61.91      | 73.15    | 73.15    |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

| TXSP4500                               | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 82.47                         | 82.47      | 82.47    | 82.47    | 355.17                   | 355.17     | 355.17   | 355.17   |
| ARC or RLC or PLC Payments             | 0.66                          | 0.44       | 0.66     | 0.38     | 1.41                     | 0.58       | 0.88     | 1.26     |
| Government Payments                    | 83.14                         | 82.91      | 83.13    | 82.85    | 356.59                   | 355.76     | 356.05   | 356.43   |
| STAX Net Payments                      | 129.05                        | 129.05     | 130.81   | 130.81   | 89.51                    | 89.51      | 154.88   | 154.88   |
| SCO Net Payments                       | 2.27                          | 2.27       | 0.00     | 4.17     | 1.57                     | 1.57       | 0.00     | 2.88     |
| Net Cash Farm Income                   | 728.84                        | 728.61     | 728.35   | 732.32   | 294.59                   | 293.71     | 359.87   | 363.29   |
| Real Net Worth 2017                    | 4,846.47                      | 4,845.63   | 4,844.83 | 4,859.07 | 3,163.96                 | 3,160.51   | 3,416.62 | 3,430.68 |
| AGI 3 Year Moving Average              | 580.67                        | 580.51     | 580.72   | 582.88   | 323.62                   | 322.97     | 349.06   | 350.98   |
| Probability of Exceeding AGI Limit (%) | 20                            | 20         | 3        | 3        | 1                        | 1          | 1        | 1        |

| TXRP2500                               | FAPRI Baseline Price Scenario |            |        |        | Declining Price Scenario |            |         |        |
|----------------------------------------|-------------------------------|------------|--------|--------|--------------------------|------------|---------|--------|
|                                        | Senate                        |            | House  |        | Senate                   |            | House   |        |
|                                        | ARC Indiv.                    | ARC County | RLC    | PLC    | ARC Indiv.               | ARC County | RLC     | PLC    |
|                                        |                               | \$1,000s   |        |        |                          | \$1,000s   |         |        |
| Loan Deficiency Payments               | 13.56                         | 13.56      | 13.56  | 13.56  | 58.20                    | 58.20      | 58.20   | 58.20  |
| ARC or RLC or PLC Payments             | 2.91                          | 4.14       | 4.83   | 5.46   | 4.58                     | 4.24       | 5.48    | 21.18  |
| Government Payments                    | 16.47                         | 17.70      | 18.40  | 19.02  | 62.77                    | 62.44      | 63.68   | 79.38  |
| STAX Net Payments                      | 37.38                         | 37.38      | 37.73  | 37.73  | 25.93                    | 25.93      | 35.15   | 35.15  |
| SCO Net Payments                       | 8.68                          | 8.68       | 0.00   | 16.11  | 5.96                     | 5.96       | 0.00    | 11.12  |
| Net Cash Farm Income                   | 27.61                         | 28.95      | 20.52  | 39.54  | -98.77                   | -99.22     | -94.32  | -62.65 |
| Real Net Worth 2017                    | 412.39                        | 417.85     | 383.02 | 463.82 | -215.46                  | -217.69    | -193.37 | -39.30 |
| AGI 3 Year Moving Average              | 20.08                         | 20.68      | 16.72  | 26.97  | -47.88                   | -48.24     | -47.02  | -30.99 |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1      | 1      | 1                        | 1          | 1       | 1      |

| TXCB2500                               | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |        |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|--------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House  |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC    | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |        |          |
| Loan Deficiency Payments               | 27.48                         | 27.48      | 27.48    | 27.48    | 116.94                   | 116.94     | 116.94 | 116.94   |
| ARC or RLC or PLC Payments             | 20.03                         | 18.60      | 19.62    | 95.59    | 17.91                    | 16.83      | 18.62  | 98.46    |
| Government Payments                    | 47.51                         | 46.09      | 47.11    | 123.07   | 134.85                   | 133.77     | 135.56 | 215.41   |
| STAX Net Payments                      | 37.73                         | 37.73      | 38.01    | 38.01    | 26.83                    | 26.83      | 31.10  | 31.10    |
| SCO Net Payments                       | 12.26                         | 12.26      | 0.00     | 24.32    | 8.45                     | 8.45       | 0.00   | 16.71    |
| Net Cash Farm Income                   | 158.30                        | 156.78     | 145.12   | 251.71   | -89.98                   | -91.28     | -93.97 | 15.96    |
| Real Net Worth 2017                    | 1,714.46                      | 1,708.82   | 1,664.38 | 2,068.74 | 603.20                   | 597.29     | 585.09 | 1,093.76 |
| AGI 3 Year Moving Average              | 81.55                         | 80.43      | 74.41    | 134.88   | -57.23                   | -58.25     | -59.74 | 0.84     |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1      | 1        |

| TXCB8000                               | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 92.55                         | 92.55      | 92.55    | 92.55    | 394.09                   | 394.09     | 394.09   | 394.09   |
| ARC or RLC or PLC Payments             | 57.16                         | 54.79      | 69.63    | 193.00   | 65.56                    | 61.56      | 72.62    | 241.60   |
| Government Payments                    | 149.72                        | 147.34     | 162.18   | 285.55   | 459.65                   | 455.65     | 466.70   | 635.69   |
| STAX Net Payments                      | 123.52                        | 123.52     | 124.75   | 124.75   | 85.70                    | 85.70      | 121.25   | 121.25   |
| SCO Net Payments                       | 35.86                         | 35.86      | 0.00     | 66.78    | 24.67                    | 24.67      | 0.00     | 45.64    |
| Net Cash Farm Income                   | 794.70                        | 792.28     | 774.50   | 967.82   | -41.67                   | -45.95     | -17.31   | 209.05   |
| Real Net Worth 2017                    | 4,954.41                      | 4,946.06   | 5,068.49 | 5,769.96 | 1,413.99                 | 1,395.12   | 1,715.56 | 2,705.89 |
| AGI 3 Year Moving Average              | 545.23                        | 543.18     | 575.00   | 687.81   | 64.09                    | 60.83      | 110.50   | 237.80   |
| Probability of Exceeding AGI Limit (%) | 29                            | 29         | 16       | 23       | 7                        | 7          | 3        | 3        |

| TXVC4500                               | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 32.94                         | 32.94      | 32.94    | 32.94    | 141.34                   | 141.34     | 141.34   | 141.34   |
| ARC or RLC or PLC Payments             | 40.89                         | 37.62      | 44.46    | 164.69   | 39.33                    | 33.12      | 37.17    | 180.20   |
| Government Payments                    | 73.83                         | 70.56      | 77.40    | 197.63   | 180.67                   | 174.46     | 178.51   | 321.54   |
| STAX Net Payments                      | 64.02                         | 64.02      | 65.18    | 65.18    | 44.33                    | 44.33      | 68.79    | 68.79    |
| SCO Net Payments                       | 35.01                         | 35.01      | 0.00     | 69.07    | 24.41                    | 24.41      | 0.00     | 48.16    |
| Net Cash Farm Income                   | 692.21                        | 688.91     | 661.78   | 852.01   | 203.40                   | 196.86     | 200.89   | 398.66   |
| Real Net Worth 2017                    | 6,029.22                      | 6,017.83   | 5,926.58 | 6,571.39 | 4,188.52                 | 4,160.56   | 4,187.96 | 4,918.55 |
| AGI 3 Year Moving Average              | 551.11                        | 548.27     | 531.24   | 651.07   | 270.10                   | 265.73     | 261.45   | 379.59   |
| Probability of Exceeding AGI Limit (%) | 13                            | 13         | 2        | 9        | 1                        | 1          | 1        | 1        |

| TXMC1800                               | FAPRI Baseline Price Scenario |            |        |          | Declining Price Scenario |            |        |        |
|----------------------------------------|-------------------------------|------------|--------|----------|--------------------------|------------|--------|--------|
|                                        | Senate                        |            | House  |          | Senate                   |            | House  |        |
|                                        | ARC Indiv.                    | ARC County | RLC    | PLC      | ARC Indiv.               | ARC County | RLC    | PLC    |
|                                        |                               | \$1,000s   |        |          |                          | \$1,000s   |        |        |
| Loan Deficiency Payments               | 23.42                         | 23.42      | 23.42  | 23.42    | 100.61                   | 100.61     | 100.61 | 100.61 |
| ARC or RLC or PLC Payments             | 13.88                         | 11.01      | 10.53  | 30.38    | 16.69                    | 14.62      | 15.40  | 53.89  |
| Government Payments                    | 37.30                         | 34.43      | 33.95  | 53.80    | 117.30                   | 115.22     | 116.00 | 154.49 |
| STAX Net Payments                      | 25.74                         | 25.74      | 26.40  | 26.40    | 18.05                    | 18.05      | 38.58  | 38.58  |
| SCO Net Payments                       | 12.46                         | 12.46      | 0.00   | 29.51    | 8.63                     | 8.63       | 0.00   | 20.46  |
| Net Cash Farm Income                   | 163.51                        | 160.40     | 146.58 | 202.03   | -76.83                   | -79.16     | -65.32 | 3.83   |
| Real Net Worth 2017                    | 941.19                        | 928.35     | 871.24 | 1,090.93 | -152.08                  | -163.63    | -96.95 | 229.79 |
| AGI 3 Year Moving Average              | 74.23                         | 73.07      | 65.96  | 96.21    | -56.49                   | -57.30     | -53.23 | -18.57 |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1      | 1        | 1                        | 1          | 1      | 1      |

| TXEC5000                               | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 77.06                         | 77.06      | 77.06    | 77.06    | 329.88                   | 329.88     | 329.88   | 329.88   |
| ARC or RLC or PLC Payments             | 7.23                          | 8.90       | 9.28     | 33.04    | 6.41                     | 7.83       | 8.63     | 36.19    |
| Government Payments                    | 84.29                         | 85.96      | 86.34    | 110.11   | 336.29                   | 337.71     | 338.51   | 366.07   |
| STAX Net Payments                      | 170.28                        | 170.28     | 172.02   | 172.02   | 117.91                   | 117.91     | 179.70   | 179.70   |
| SCO Net Payments                       | 7.40                          | 7.40       | 0.00     | 13.96    | 5.18                     | 5.18       | 0.00     | 9.76     |
| Net Cash Farm Income                   | 401.38                        | 403.09     | 397.67   | 436.53   | -49.12                   | -47.58     | 12.50    | 52.25    |
| Real Net Worth 2017                    | 3,138.07                      | 3,144.58   | 3,126.64 | 3,267.74 | 1,174.02                 | 1,181.33   | 1,468.39 | 1,646.06 |
| AGI 3 Year Moving Average              | 337.17                        | 337.93     | 334.77   | 358.05   | 75.59                    | 76.37      | 95.75    | 118.94   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

| GAC2300                                | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 60.49                         | 60.49      | 60.49    | 60.49    | 290.01                   | 290.01     | 290.01   | 290.01   |
| ARC or RLC or PLC Payments             | 34.10                         | 33.18      | 22.90    | 69.67    | 66.63                    | 61.27      | 48.23    | 154.80   |
| Government Payments                    | 94.59                         | 93.66      | 83.38    | 130.15   | 356.63                   | 351.28     | 338.24   | 444.81   |
| STAX Net Payments                      | 55.54                         | 55.54      | 57.22    | 57.22    | 38.66                    | 38.66      | 92.25    | 92.25    |
| SCO Net Payments                       | 0.93                          | 0.93       | 0.00     | 15.37    | 0.67                     | 0.67       | 0.00     | 10.79    |
| Net Cash Farm Income                   | 485.99                        | 484.96     | 474.79   | 540.24   | -49.50                   | -55.55     | -13.74   | 114.84   |
| Real Net Worth 2017                    | 8,842.68                      | 8,838.63   | 8,804.25 | 9,024.35 | 6,526.70                 | 6,497.73   | 6,703.45 | 7,293.59 |
| AGI 3 Year Moving Average              | 405.78                        | 404.52     | 396.94   | 437.49   | 94.57                    | 90.65      | 100.30   | 173.30   |
| Probability of Exceeding AGI Limit (%) | 3                             | 3          | 1        | 1        | 1                        | 1          | 1        | 1        |

| TNC2100                                | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 21.56                         | 21.56      | 21.56    | 21.56    | 92.75                    | 92.75      | 92.75    | 92.75    |
| ARC or RLC or PLC Payments             | 16.29                         | 16.15      | 14.97    | 9.21     | 31.62                    | 29.60      | 30.82    | 68.62    |
| Government Payments                    | 37.84                         | 37.70      | 36.52    | 30.76    | 124.37                   | 122.35     | 123.57   | 161.37   |
| STAX Net Payments                      | 19.24                         | 19.24      | 19.75    | 19.75    | 13.43                    | 13.43      | 30.92    | 30.92    |
| SCO Net Payments                       | 13.38                         | 13.38      | 0.00     | 37.74    | 9.36                     | 9.36       | 0.00     | 26.33    |
| Net Cash Farm Income                   | 543.26                        | 543.13     | 529.08   | 561.07   | 221.10                   | 219.07     | 228.46   | 292.68   |
| Real Net Worth 2017                    | 5,284.07                      | 5,283.53   | 5,235.82 | 5,344.70 | 4,105.00                 | 4,097.46   | 4,132.06 | 4,353.10 |
| AGI 3 Year Moving Average              | 508.92                        | 508.48     | 500.19   | 519.85   | 322.04                   | 320.19     | 321.32   | 352.48   |
| Probability of Exceeding AGI Limit (%) | 2                             | 2          | 1        | 1        | 1                        | 1          | 1        | 1        |



| TNC4050                                | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 68.65                         | 68.65      | 68.65    | 68.65    | 295.31                   | 295.31     | 295.31   | 295.31   |
| ARC or RLC or PLC Payments             | 13.45                         | 15.93      | 21.69    | 17.40    | 35.52                    | 38.98      | 45.02    | 109.07   |
| Government Payments                    | 82.10                         | 84.58      | 90.34    | 86.05    | 330.83                   | 334.29     | 340.33   | 404.38   |
| STAX Net Payments                      | 77.15                         | 77.15      | 79.25    | 79.25    | 53.70                    | 53.70      | 114.93   | 114.93   |
| SCO Net Payments                       | 22.37                         | 22.37      | 0.00     | 55.25    | 15.63                    | 15.63      | 0.00     | 38.49    |
| Net Cash Farm Income                   | 666.08                        | 668.57     | 653.99   | 705.58   | 93.98                    | 97.50      | 150.34   | 255.83   |
| Real Net Worth 2017                    | 8,306.98                      | 8,315.35   | 8,268.31 | 8,444.37 | 6,089.14                 | 6,104.38   | 6,334.69 | 6,749.06 |
| AGI 3 Year Moving Average              | 648.86                        | 649.48     | 642.73   | 674.59   | 316.20                   | 317.26     | 336.88   | 389.25   |
| Probability of Exceeding AGI Limit (%) | 34                            | 35         | 5        | 8        | 9                        | 9          | 1        | 1        |

| ARNC5000                               | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 171.02                        | 171.02     | 171.02   | 171.02   | 734.96                   | 734.96     | 734.96   | 734.96   |
| ARC or RLC or PLC Payments             | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| Government Payments                    | 171.02                        | 171.02     | 171.02   | 171.02   | 734.96                   | 734.96     | 734.96   | 734.96   |
| STAX Net Payments                      | 250.28                        | 250.28     | 256.69   | 256.69   | 174.39                   | 174.39     | 364.11   | 364.11   |
| SCO Net Payments                       | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| Net Cash Farm Income                   | 974.04                        | 974.04     | 980.81   | 980.81   | 130.99                   | 130.99     | 332.49   | 332.49   |
| Real Net Worth 2017                    | 8,807.48                      | 8,807.48   | 8,831.35 | 8,831.35 | 5,466.19                 | 5,466.19   | 6,290.23 | 6,290.23 |
| AGI 3 Year Moving Average              | 645.90                        | 645.90     | 650.92   | 650.92   | 156.17                   | 156.17     | 237.87   | 237.87   |
| Probability of Exceeding AGI Limit (%) | 39                            | 39         | 21       | 21       | 9                        | 9          | 2        | 2        |

| ALC3000                                | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |         |        |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|---------|--------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House   |        |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC     | PLC    |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |         |        |
| Loan Deficiency Payments               | 33.57                         | 33.57      | 33.57    | 33.57    | 143.61                   | 143.61     | 143.61  | 143.61 |
| ARC or RLC or PLC Payments             | 29.33                         | 32.91      | 26.36    | 13.25    | 45.35                    | 45.57      | 40.00   | 87.33  |
| Government Payments                    | 62.90                         | 66.48      | 59.93    | 46.82    | 188.96                   | 189.18     | 183.60  | 230.94 |
| STAX Net Payments                      | 43.39                         | 43.39      | 44.15    | 44.15    | 30.12                    | 30.12      | 51.28   | 51.28  |
| SCO Net Payments                       | 39.60                         | 39.60      | 0.00     | 86.94    | 27.60                    | 27.60      | 0.00    | 60.54  |
| Net Cash Farm Income                   | 375.64                        | 379.24     | 331.75   | 408.84   | -90.06                   | -89.98     | -104.37 | 13.95  |
| Real Net Worth 2017                    | 2,444.86                      | 2,452.33   | 2,284.89 | 2,553.13 | 390.57                   | 387.72     | 329.72  | 878.44 |
| AGI 3 Year Moving Average              | 220.89                        | 222.48     | 194.89   | 238.91   | -38.48                   | -38.54     | -53.29  | 4.96   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1       | 1      |

**SCC1800**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 36.79                         | 36.79      | 36.79    | 36.79    | 171.80                   | 171.80     | 171.80   | 171.80   |
| ARC or RLC or PLC Payments             | 17.12                         | 15.50      | 9.22     | 33.65    | 24.10                    | 21.82      | 16.76    | 76.14    |
| Government Payments                    | 53.90                         | 52.28      | 46.01    | 70.44    | 195.91                   | 193.63     | 188.56   | 247.94   |
| STAX Net Payments                      | 38.45                         | 38.45      | 39.29    | 39.29    | 26.70                    | 26.70      | 57.60    | 57.60    |
| SCO Net Payments                       | 0.41                          | 0.41       | 0.00     | 6.34     | 0.23                     | 0.23       | 0.00     | 4.31     |
| Net Cash Farm Income                   | 362.96                        | 361.21     | 355.25   | 386.80   | 48.67                    | 46.10      | 72.57    | 139.31   |
| Real Net Worth 2017                    | 4,544.68                      | 4,535.31   | 4,515.27 | 4,624.51 | 3,283.80                 | 3,268.42   | 3,388.09 | 3,669.59 |
| AGI 3 Year Moving Average              | 300.54                        | 298.85     | 295.45   | 314.82   | 114.71                   | 112.59     | 120.47   | 156.71   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

**NCC1500**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 8.82                          | 8.82       | 8.82     | 8.82     | 37.87                    | 37.87      | 37.87    | 37.87    |
| ARC or RLC or PLC Payments             | 13.46                         | 15.67      | 15.30    | 9.16     | 23.23                    | 19.93      | 21.50    | 53.96    |
| Government Payments                    | 22.28                         | 24.49      | 24.12    | 17.98    | 61.10                    | 57.80      | 59.37    | 91.83    |
| STAX Net Payments                      | 9.78                          | 9.78       | 10.05    | 10.05    | 6.78                     | 6.78       | 14.33    | 14.33    |
| SCO Net Payments                       | 32.59                         | 32.59      | 0.00     | 65.88    | 22.35                    | 22.35      | 0.00     | 45.34    |
| Net Cash Farm Income                   | 348.04                        | 350.23     | 317.26   | 377.53   | 140.32                   | 136.89     | 123.32   | 202.71   |
| Real Net Worth 2017                    | 3,166.09                      | 3,171.96   | 3,067.21 | 3,259.32 | 2,407.04                 | 2,390.21   | 2,341.54 | 2,652.36 |
| AGI 3 Year Moving Average              | 238.02                        | 238.72     | 221.44   | 254.59   | 121.03                   | 118.52     | 109.34   | 149.77   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

**CAR550**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| ARC or RLC or PLC Payments             | 13.28                         | 16.20      | 14.36    | 4.53     | 34.04                    | 38.97      | 41.40    | 80.59    |
| Government Payments                    | 13.28                         | 16.20      | 14.36    | 4.53     | 34.04                    | 38.97      | 41.40    | 80.59    |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 11.67                         | 11.67      | 0.00     | 25.51    | 7.53                     | 7.53       | 0.00     | 16.46    |
| Net Cash Farm Income                   | 273.61                        | 276.64     | 262.95   | 278.63   | 16.99                    | 22.69      | 17.19    | 78.14    |
| Real Net Worth 2017                    | 2,649.88                      | 2,660.01   | 2,618.79 | 2,663.03 | 1,657.72                 | 1,682.21   | 1,663.40 | 1,941.72 |
| AGI 3 Year Moving Average              | 195.51                        | 197.58     | 189.98   | 197.75   | 58.15                    | 61.68      | 58.54    | 81.39    |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

| CAR3000                                | FAPRI Baseline Price Scenario |            |           |           | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|-----------|-----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House     |           | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC       | PLC       | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |           |           |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00      | 0.00      | 0.00                     | 0.00       | 0.00     | 0.00     |
| ARC or RLC or PLC Payments             | 6.94                          | 7.62       | 27.05     | 12.24     | 79.89                    | 81.34      | 205.84   | 193.69   |
| Government Payments                    | 6.94                          | 7.62       | 27.05     | 12.24     | 79.89                    | 81.34      | 205.84   | 193.69   |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00      | 0.00      | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 70.86                         | 70.86      | 0.00      | 154.86    | 45.69                    | 45.69      | 0.00     | 99.89    |
| Net Cash Farm Income                   | 1,417.72                      | 1,418.42   | 1,366.99  | 1,507.45  | -70.84                   | -69.39     | 12.10    | 100.55   |
| Real Net Worth 2017                    | 12,807.30                     | 12,809.61  | 12,663.18 | 13,094.23 | 7,229.62                 | 7,234.34   | 7,627.81 | 7,952.20 |
| AGI 3 Year Moving Average              | 995.50                        | 996.09     | 971.85    | 1,049.63  | 157.04                   | 157.65     | 208.87   | 248.54   |
| Probability of Exceeding AGI Limit (%) | 73                            | 73         | 56        | 58        | 8                        | 8          | 1        | 3        |

| CABR1300                               | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| ARC or RLC or PLC Payments             | 6.84                          | 6.98       | 26.63    | 7.95     | 73.68                    | 75.25      | 113.62   | 154.63   |
| Government Payments                    | 6.84                          | 6.98       | 26.63    | 7.95     | 73.68                    | 75.25      | 113.62   | 154.63   |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 27.45                         | 27.45      | 0.00     | 59.30    | 17.67                    | 17.67      | 0.00     | 38.23    |
| Net Cash Farm Income                   | 1,018.47                      | 1,018.61   | 1,010.81 | 1,051.43 | 420.72                   | 422.29     | 443.04   | 522.29   |
| Real Net Worth 2017                    | 9,190.20                      | 9,190.67   | 9,174.14 | 9,296.52 | 7,186.68                 | 7,192.92   | 7,274.38 | 7,528.99 |
| AGI 3 Year Moving Average              | 840.19                        | 840.33     | 840.26   | 859.98   | 503.52                   | 503.32     | 522.10   | 549.22   |
| Probability of Exceeding AGI Limit (%) | 67                            | 68         | 24       | 29       | 7                        | 7          | 1        | 1        |

| CACR800                                | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |          |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|----------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House    |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC      | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |          |          |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| ARC or RLC or PLC Payments             | 21.43                         | 26.28      | 23.95    | 7.20     | 56.63                    | 67.28      | 71.10    | 122.04   |
| Government Payments                    | 21.43                         | 26.28      | 23.95    | 7.20     | 56.63                    | 67.28      | 71.10    | 122.04   |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00     | 0.00     |
| SCO Net Payments                       | 19.13                         | 19.13      | 0.00     | 43.56    | 12.28                    | 12.28      | 0.00     | 28.02    |
| Net Cash Farm Income                   | 494.55                        | 499.42     | 477.90   | 504.72   | 99.61                    | 110.54     | 101.97   | 181.98   |
| Real Net Worth 2017                    | 5,372.41                      | 5,387.62   | 5,321.61 | 5,403.15 | 4,022.81                 | 4,064.33   | 4,039.90 | 4,330.52 |
| AGI 3 Year Moving Average              | 439.37                        | 442.43     | 430.41   | 443.69   | 219.79                   | 226.45     | 221.33   | 251.85   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1        | 1        |

| TXR1350                                | FAPRI Baseline Price Scenario |            |         |         | Declining Price Scenario |            |         |         |
|----------------------------------------|-------------------------------|------------|---------|---------|--------------------------|------------|---------|---------|
|                                        | Senate                        |            | House   |         | Senate                   |            | House   |         |
|                                        | ARC Indiv.                    | ARC County | RLC     | PLC     | ARC Indiv.               | ARC County | RLC     | PLC     |
|                                        |                               | \$1,000s   |         |         |                          | \$1,000s   |         |         |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00    | 0.00    | 0.00                     | 0.00       | 0.00    | 0.00    |
| ARC or RLC or PLC Payments             | 8.58                          | 8.13       | 7.50    | 34.58   | 26.48                    | 29.47      | 32.10   | 111.37  |
| Government Payments                    | 8.58                          | 8.13       | 7.50    | 34.58   | 26.48                    | 29.47      | 32.10   | 111.37  |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00    | 0.00    | 0.00                     | 0.00       | 0.00    | 0.00    |
| SCO Net Payments                       | 6.59                          | 6.59       | 0.00    | 14.20   | 4.59                     | 4.59       | 0.00    | 9.89    |
| Net Cash Farm Income                   | -131.38                       | -131.96    | -140.91 | -89.11  | -275.50                  | -271.90    | -274.71 | -165.46 |
| Real Net Worth 2017                    | 211.58                        | 208.71     | 164.97  | 416.46  | -535.05                  | -517.35    | -531.15 | 5.50    |
| AGI 3 Year Moving Average              | -131.38                       | -131.76    | -136.61 | -107.22 | -205.83                  | -204.08    | -206.39 | -150.48 |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1       | 1       | 1                        | 1          | 1       | 1       |

| TXR3000                                | FAPRI Baseline Price Scenario |            |        |        | Declining Price Scenario |            |           |         |
|----------------------------------------|-------------------------------|------------|--------|--------|--------------------------|------------|-----------|---------|
|                                        | Senate                        |            | House  |        | Senate                   |            | House     |         |
|                                        | ARC Indiv.                    | ARC County | RLC    | PLC    | ARC Indiv.               | ARC County | RLC       | PLC     |
|                                        |                               | \$1,000s   |        |        |                          | \$1,000s   |           |         |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00   | 0.00   | 0.00                     | 0.00       | 0.00      | 0.00    |
| ARC or RLC or PLC Payments             | 20.94                         | 18.90      | 17.44  | 78.74  | 64.61                    | 68.53      | 74.64     | 225.00  |
| Government Payments                    | 20.94                         | 18.90      | 17.44  | 78.74  | 64.61                    | 68.53      | 74.64     | 225.00  |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00   | 0.00   | 0.00                     | 0.00       | 0.00      | 0.00    |
| SCO Net Payments                       | 16.09                         | 16.09      | 0.00   | 34.64  | 11.20                    | 11.20      | 0.00      | 24.13   |
| Net Cash Farm Income                   | -35.89                        | -38.32     | -57.87 | 50.53  | -364.46                  | -360.00    | -366.59   | -162.22 |
| Real Net Worth 2017                    | 237.63                        | 225.60     | 143.70 | 620.26 | -1,415.36                | -1,393.68  | -1,425.58 | -432.93 |
| AGI 3 Year Moving Average              | -7.07                         | -8.63      | -19.67 | 44.34  | -179.55                  | -177.52    | -183.02   | -72.30  |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1      | 1      | 1                        | 1          | 1         | 1       |

| TXBR1800                               | FAPRI Baseline Price Scenario |            |         |         | Declining Price Scenario |            |           |           |
|----------------------------------------|-------------------------------|------------|---------|---------|--------------------------|------------|-----------|-----------|
|                                        | Senate                        |            | House   |         | Senate                   |            | House     |           |
|                                        | ARC Indiv.                    | ARC County | RLC     | PLC     | ARC Indiv.               | ARC County | RLC       | PLC       |
|                                        |                               | \$1,000s   |         |         |                          | \$1,000s   |           |           |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00    | 0.00    | 0.00                     | 0.00       | 0.00      | 0.00      |
| ARC or RLC or PLC Payments             | 13.14                         | 12.18      | 11.19   | 71.57   | 47.86                    | 43.79      | 47.69     | 213.88    |
| Government Payments                    | 13.14                         | 12.18      | 11.19   | 71.57   | 47.86                    | 43.79      | 47.69     | 213.88    |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00    | 0.00    | 0.00                     | 0.00       | 0.00      | 0.00      |
| SCO Net Payments                       | 12.31                         | 12.31      | 0.00    | 27.46   | 8.58                     | 8.58       | 0.00      | 19.14     |
| Net Cash Farm Income                   | -107.98                       | -109.16    | -124.44 | -20.60  | -363.98                  | -368.90    | -374.91   | -156.87   |
| Real Net Worth 2017                    | -777.64                       | -783.41    | -846.12 | -379.31 | -2,092.78                | -2,116.95  | -2,146.34 | -1,083.36 |
| AGI 3 Year Moving Average              | -147.66                       | -148.41    | -156.88 | -96.00  | -282.21                  | -285.14    | -289.79   | -173.17   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1       | 1       | 1                        | 1          | 1         | 1         |

**TXER3200**

|                                        | FAPRI Baseline Price Scenario |            |           |         | Declining Price Scenario |            |           |           |
|----------------------------------------|-------------------------------|------------|-----------|---------|--------------------------|------------|-----------|-----------|
|                                        | Senate                        |            | House     |         | Senate                   |            | House     |           |
|                                        | ARC Indiv.                    | ARC County | RLC       | PLC     | ARC Indiv.               | ARC County | RLC       | PLC       |
|                                        |                               | \$1,000s   |           |         |                          | \$1,000s   |           |           |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00      | 0.00    | 0.00                     | 0.00       | 0.00      | 0.00      |
| ARC or RLC or PLC Payments             | 33.03                         | 34.39      | 33.92     | 133.61  | 77.54                    | 84.95      | 93.21     | 243.70    |
| Government Payments                    | 33.03                         | 34.39      | 33.92     | 133.61  | 77.55                    | 84.96      | 93.21     | 243.70    |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00      | 0.00    | 0.00                     | 0.00       | 0.00      | 0.00      |
| SCO Net Payments                       | 49.00                         | 49.00      | 0.00      | 96.62   | 33.89                    | 33.89      | 0.00      | 67.06     |
| Net Cash Farm Income                   | -363.61                       | -362.01    | -422.46   | -179.35 | -821.57                  | -812.64    | -845.28   | -573.05   |
| Real Net Worth 2017                    | -1,281.09                     | -1,273.12  | -1,567.22 | -397.41 | -3,648.28                | -3,604.43  | -3,764.75 | -2,428.12 |
| AGI 3 Year Moving Average              | -237.91                       | -237.31    | -268.15   | -136.23 | -473.03                  | -468.84    | -487.92   | -339.55   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1         | 1       | 1                        | 1          | 1         | 1         |

**LASR1480**

|                                        | FAPRI Baseline Price Scenario |            |         |        | Declining Price Scenario |            |           |         |
|----------------------------------------|-------------------------------|------------|---------|--------|--------------------------|------------|-----------|---------|
|                                        | Senate                        |            | House   |        | Senate                   |            | House     |         |
|                                        | ARC Indiv.                    | ARC County | RLC     | PLC    | ARC Indiv.               | ARC County | RLC       | PLC     |
|                                        |                               | \$1,000s   |         |        |                          | \$1,000s   |           |         |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00    | 0.00   | 0.01                     | 0.01       | 0.01      | 0.01    |
| ARC or RLC or PLC Payments             | 14.76                         | 15.85      | 14.66   | 46.17  | 46.97                    | 49.97      | 53.88     | 156.14  |
| Government Payments                    | 14.76                         | 15.85      | 14.66   | 46.17  | 46.98                    | 49.97      | 53.89     | 156.15  |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00    | 0.00   | 0.00                     | 0.00       | 0.00      | 0.00    |
| SCO Net Payments                       | 15.15                         | 15.15      | 0.00    | 32.00  | 10.58                    | 10.58      | 0.00      | 22.32   |
| Net Cash Farm Income                   | -129.03                       | -127.93    | -147.73 | -69.84 | -405.03                  | -401.78    | -410.61   | -260.13 |
| Real Net Worth 2017                    | -49.86                        | -44.63     | -138.95 | 229.91 | -1,471.98                | -1,456.01  | -1,499.39 | -760.62 |
| AGI 3 Year Moving Average              | -124.16                       | -124.03    | -134.85 | -90.34 | -267.13                  | -266.23    | -272.60   | -195.37 |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1       | 1      | 1                        | 1          | 1         | 1       |

**ARSR3240**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |         |         |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|---------|---------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House   |         |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC     | PLC     |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |         |         |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.02                     | 0.02       | 0.02    | 0.02    |
| ARC or RLC or PLC Payments             | 31.53                         | 39.58      | 41.24    | 103.09   | 87.69                    | 95.74      | 134.83  | 243.22  |
| Government Payments                    | 31.53                         | 39.58      | 41.24    | 103.09   | 87.71                    | 95.76      | 134.86  | 243.24  |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00    | 0.00    |
| SCO Net Payments                       | 23.22                         | 23.22      | 0.00     | 57.70    | 16.17                    | 16.17      | 0.00    | 40.20   |
| Net Cash Farm Income                   | 73.97                         | 83.72      | 58.57    | 202.10   | -532.61                  | -522.61    | -495.69 | -311.07 |
| Real Net Worth 2017                    | 2,635.95                      | 2,681.67   | 2,576.54 | 3,205.88 | -425.83                  | -376.72    | -244.44 | 659.73  |
| AGI 3 Year Moving Average              | -115.66                       | -110.42    | -124.01  | -41.61   | -430.16                  | -424.68    | -413.11 | -310.26 |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1       | 1       |

**ARWR1400**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |         |         |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|---------|---------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House   |         |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC     | PLC     |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |         |         |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.01                     | 0.01       | 0.01    | 0.01    |
| ARC or RLC or PLC Payments             | 17.37                         | 19.02      | 17.26    | 60.45    | 50.67                    | 55.55      | 59.71   | 197.86  |
| Government Payments                    | 17.37                         | 19.02      | 17.26    | 60.45    | 50.69                    | 55.57      | 59.72   | 197.87  |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00    | 0.00    |
| SCO Net Payments                       | 11.94                         | 11.94      | 0.00     | 31.21    | 8.33                     | 8.33       | 0.00    | 21.80   |
| Net Cash Farm Income                   | -101.10                       | -99.17     | -115.48  | -25.60   | -407.98                  | -402.21    | -407.80 | -218.01 |
| Real Net Worth 2017                    | 1,353.41                      | 1,362.85   | 1,285.21 | 1,713.03 | -237.82                  | -209.48    | -236.93 | 695.27  |
| AGI 3 Year Moving Average              | -181.39                       | -180.47    | -189.47  | -137.19  | -342.80                  | -339.85    | -344.41 | -246.06 |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1       | 1       |

**ARHR3000**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |           |           |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|-----------|-----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House     |           |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC       | PLC       |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |           |           |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00     | 0.00     | 0.02                     | 0.02       | 0.02      | 0.02      |
| ARC or RLC or PLC Payments             | 34.70                         | 38.97      | 37.81    | 101.35   | 91.26                    | 94.25      | 114.71    | 243.06    |
| Government Payments                    | 34.70                         | 38.97      | 37.81    | 101.35   | 91.28                    | 94.27      | 114.73    | 243.09    |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00     | 0.00     | 0.00                     | 0.00       | 0.00      | 0.00      |
| SCO Net Payments                       | 30.28                         | 30.28      | 0.00     | 78.08    | 21.14                    | 21.14      | 0.00      | 54.50     |
| Net Cash Farm Income                   | -298.74                       | -293.51    | -331.53  | -157.96  | -973.41                  | -969.68    | -971.49   | -745.87   |
| Real Net Worth 2017                    | 1,367.99                      | 1,393.36   | 1,217.83 | 2,031.08 | -2,117.16                | -2,098.82  | -2,107.67 | -1,000.79 |
| AGI 3 Year Moving Average              | -376.56                       | -373.72    | -394.62  | -296.53  | -727.63                  | -725.49    | -728.61   | -604.26   |
| Probability of Exceeding AGI Limit (%) | 1                             | 1          | 1        | 1        | 1                        | 1          | 1         | 1         |

**ARMR7500**

|                                        | FAPRI Baseline Price Scenario |            |          |          | Declining Price Scenario |            |         |          |
|----------------------------------------|-------------------------------|------------|----------|----------|--------------------------|------------|---------|----------|
|                                        | Senate                        |            | House    |          | Senate                   |            | House   |          |
|                                        | ARC Indiv.                    | ARC County | RLC      | PLC      | ARC Indiv.               | ARC County | RLC     | PLC      |
|                                        |                               | \$1,000s   |          |          |                          | \$1,000s   |         |          |
| Loan Deficiency Payments               | 62.03                         | 62.03      | 62.03    | 62.03    | 267.03                   | 267.03     | 267.03  | 267.03   |
| ARC or RLC or PLC Payments             | 47.10                         | 47.75      | 71.02    | 115.90   | 96.57                    | 96.33      | 203.64  | 246.81   |
| Government Payments                    | 109.13                        | 109.78     | 133.05   | 177.93   | 363.59                   | 363.35     | 470.66  | 513.84   |
| STAX Net Payments                      | 56.99                         | 56.99      | 58.70    | 58.70    | 39.87                    | 39.87      | 92.75   | 92.75    |
| SCO Net Payments                       | 42.36                         | 42.36      | 0.00     | 128.52   | 29.63                    | 29.63      | 0.00    | 89.93    |
| Net Cash Farm Income                   | 537.53                        | 538.01     | 520.27   | 714.43   | -1,141.41                | -1,141.84  | -987.93 | -822.69  |
| Real Net Worth 2017                    | 8,287.31                      | 8,288.15   | 8,247.87 | 8,983.85 | 174.35                   | 172.25     | 930.08  | 1,731.84 |
| AGI 3 Year Moving Average              | 160.90                        | 160.22     | 150.41   | 266.55   | -729.97                  | -730.52    | -662.78 | -564.70  |
| Probability of Exceeding AGI Limit (%) | 10                            | 10         | 3        | 6        | 1                        | 1          | 1       | 1        |

**MOWR4000**

|                                        | FAPRI Baseline Price Scenario |            |           |           | Declining Price Scenario |            |          |           |
|----------------------------------------|-------------------------------|------------|-----------|-----------|--------------------------|------------|----------|-----------|
|                                        | Senate                        |            | House     |           | Senate                   |            | House    |           |
|                                        | ARC Indiv.                    | ARC County | RLC       | PLC       | ARC Indiv.               | ARC County | RLC      | PLC       |
|                                        |                               | \$1,000s   |           |           |                          | \$1,000s   |          |           |
| Loan Deficiency Payments               | 0.00                          | 0.00       | 0.00      | 0.00      | 0.04                     | 0.04       | 0.04     | 0.04      |
| ARC or RLC or PLC Payments             | 41.55                         | 38.94      | 50.38     | 117.61    | 92.31                    | 94.34      | 180.22   | 247.26    |
| Government Payments                    | 41.55                         | 38.94      | 50.38     | 117.61    | 92.35                    | 94.38      | 180.27   | 247.31    |
| STAX Net Payments                      | 0.00                          | 0.00       | 0.00      | 0.00      | 0.00                     | 0.00       | 0.00     | 0.00      |
| SCO Net Payments                       | 31.33                         | 31.33      | 0.00      | 84.77     | 21.85                    | 21.85      | 0.00     | 59.12     |
| Net Cash Farm Income                   | 485.07                        | 481.65     | 461.78    | 628.16    | -428.64                  | -426.37    | -349.44  | -196.69   |
| Real Net Worth 2017                    | 13,418.25                     | 13,396.86  | 13,359.31 | 13,952.78 | 9,171.23                 | 9,180.86   | 9,569.67 | 10,264.67 |
| AGI 3 Year Moving Average              | 188.41                        | 185.60     | 174.70    | 275.09    | -294.19                  | -293.16    | -258.50  | -166.17   |
| Probability of Exceeding AGI Limit (%) | 2                             | 2          | 1         | 2         | 1                        | 1          | 1        | 1         |

# APPENDIX D: SUMMARY OF SAFETY NET COVERAGE BY FARM TYPE AND PRICE SCENARIO

Appendix D. Summary of Average Annual Government Payments by Representative Farm Type and Overall.

| FAPRI Baseline Price Scenario |                            |      |                  |          |     |                 |      |                  |          |      |                                           |      |                  |          |
|-------------------------------|----------------------------|------|------------------|----------|-----|-----------------|------|------------------|----------|------|-------------------------------------------|------|------------------|----------|
|                               | House Farm Bill            |      | Senate Farm Bill |          |     | House Farm Bill |      | Senate Farm Bill |          |      | House Farm Bill                           |      | Senate Farm Bill |          |
|                               | RLC                        | PLC  | ARC Indiv.       | ARC Cty. |     | RLC             | PLC  | ARC Indiv.       | ARC Cty. |      | RLC                                       | PLC  | ARC Indiv.       | ARC Cty. |
|                               | ARC or PLC or RLC Payments |      |                  |          |     | SCO Net Payment |      |                  |          |      | ARC or PLA or RLA Payments + SCO Payments |      |                  |          |
| Overall                       | 22.6                       | 39.9 | 19.3             | 20.2     | 0.0 | 56.7            | 22.0 | 22.0             |          | 22.6 | 96.5                                      | 41.2 | 42.1             |          |
| FG/Oilseeds                   | 25.1                       | 23.7 | 20.5             | 21.5     | 0.0 | 74.3            | 24.3 | 24.3             |          | 25.1 | 98.0                                      | 44.8 | 45.8             |          |
| Wheat                         | 18.7                       | 39.7 | 16.7             | 18.1     | 0.0 | 41.8            | 18.0 | 18.0             |          | 18.7 | 81.5                                      | 34.7 | 36.1             |          |
| Cotton                        | 17.0                       | 42.2 | 16.7             | 16.6     | 0.0 | 36.9            | 17.6 | 17.6             |          | 17.0 | 79.1                                      | 34.3 | 34.2             |          |
| Rice                          | 28.2                       | 63.9 | 22.2             | 23.6     | 0.0 | 62.0            | 26.2 | 26.2             |          | 28.2 | 126.0                                     | 48.5 | 49.9             |          |

| Declining Price Scenario |                            |       |                  |          |                 |      |                  |          |                                           |       |                  |          |
|--------------------------|----------------------------|-------|------------------|----------|-----------------|------|------------------|----------|-------------------------------------------|-------|------------------|----------|
|                          | House Farm Bill            |       | Senate Farm Bill |          | House Farm Bill |      | Senate Farm Bill |          | House Farm Bill                           |       | Senate Farm Bill |          |
|                          | RLC                        | PLC   | ARC Indiv.       | ARC Cty. | RLC             | PLC  | ARC Indiv.       | ARC Cty. | RLC                                       | PLC   | ARC Indiv.       | ARC Cty. |
|                          | ARC or PLC or RLC Payments |       |                  |          | SCO Net Payment |      |                  |          | ARC or PLA or RLA Payments + SCO Payments |       |                  |          |
| Overall                  | 55.3                       | 119.5 | 40.9             | 41.3     | 0.0             | 39.2 | 15.2             | 15.2     | 55.3                                      | 158.7 | 56.1             | 56.5     |
| FG/Oilseeds              | 62.4                       | 115.2 | 45.2             | 46.0     | 0.0             | 51.9 | 17.0             | 17.0     | 62.4                                      | 167.1 | 62.2             | 63.0     |
| Wheat                    | 28.5                       | 102.6 | 24.6             | 23.0     | 0.0             | 28.8 | 12.4             | 12.4     | 28.5                                      | 131.5 | 37.1             | 35.4     |
| Cotton                   | 22.8                       | 74.2  | 23.8             | 22.4     | 0.0             | 25.6 | 12.2             | 12.2     | 22.8                                      | 99.8  | 36.0             | 34.6     |
| Rice                     | 101.9                      | 191.4 | 66.2             | 69.7     | 0.0             | 42.2 | 17.8             | 17.8     | 101.9                                     | 233.6 | 84.0             | 87.5     |