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Economic Impact of Higher Crop and Input Prices on AFPC’s Representative Crop Farms
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Joe L. Outlaw
Bart L. Fischer
Henry L. Bryant
J. Marc Raulston
George M. Knapek
Brian K. Herbst

Agricultural & Food Policy Center
Department of Agricultural Economics
Texas A&M AgriLife Research
Texas A&M AgriLife Extension Service
Texas A&M University

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College Station, Texas 77843-2124
Telephone: 979.845.5913
Fax: 979.845.3140
Web site: http://www.afpc.tamu.edu/
Twitter: @AFPCTAMU
Introduction

This report is a follow-up to AFPC Briefing Paper 22-01\(^1\) that analyzed the impact of higher fertilizer prices on the Agricultural and Food Policy Center's (AFPC's) representative farms at the request of U.S. Representative Julia Letlow. The current report analyzes the economic impacts of higher crop and major input prices on AFPC's 64 representative crop farms. The analysis was requested by Senator John Boozman, Ranking Member, Senate Committee on Agriculture, Nutrition, and Forestry.

Background

Input suppliers around the world are having a tough time meeting demand for most of the major crop inputs. While there are likely many causes, the most cited revolve around the pandemic and the resulting supply chain and distribution problems that have persisted. Some inputs such as fertilizer have these issues but have also been hit with import duties on imported phosphorus and urea ammonium nitrate solutions by the U.S. International Trade Commission. These factors, along with the Russian invasion of Ukraine (both major fertilizer exporters), have further limited the availability of fertilizer and led to even higher prices.

AFPC, in collaboration with the Food and Agricultural Policy Research Institute (FAPRI), released an updated outlook for our 94 representative crop and livestock farms in March 2022.\(^2\) The Russian invasion has also greatly reduced corn and wheat exports from Ukraine which has led to higher crop prices around the world.

Data and Methods

Model

For over 30 years, AFPC has maintained a farm-level policy simulation model (FLIPSIM) developed by Richardson and Nixon (1986) for analyzing the impact of proposed policy changes on U.S. farms and ranches. AFPC currently uses a next generation simulation model – Farm Economics and Solvency Projector (FarmESP) – developed by Dr. Henry Bryant, that moves to the Python platform and includes all of the previous generation’s policy and tax capabilities with a significant upgrade in terms of crop insurance capabilities.

Data

The data to simulate farming operations in FarmESP comes primarily from AFPC’s database of representative farms. Information to describe and simulate these farms comes from panels of farmers (typically 4-6 producers per location) located in major production regions in 21 states across the United States. The farm panels are re-

\(^{1}\) https://www.afpc.tamu.edu/research/publications/files/711/BP-22-01-Fertilizer.pdf
convened frequently to update the representative farm data. The representative farms are categorized by their primary source of receipts – for example, feedgrain, wheat, cotton and rice. The representative farm database has been used for evaluating the impacts of proposed policies in the past seven farm bills. As noted above, this report focuses on AFPC’s 64 representative crop farms (Figure 1). Appendix A contains additional descriptions of the 64 representative crop farms while 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.

While producers are unquestionably facing higher prices for inputs, it is less clear how high input prices are translating into increases in the cost of production. For example, some producers locked in input prices last year before the significant run-up in prices, and we expect that most producers will reduce input use in response to higher prices. Consequently, for this analysis, we sent each of the 489 representative farm panel members an email to solicit the amount spent per acre on inputs for last year (2021 crop year) and the amount they expect to spend this year. The percentage change for each category was calculated for each respondent. An average across the 83 respondents representing crop farms is presented in Table 1.

### Table 1: Average Percentage Change in Representative Farm Input Cost/Acre from 2021 to 2022.

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage Change 2021 to 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seed</td>
<td>16.58%</td>
</tr>
<tr>
<td>Nitrogen Fertilizer</td>
<td>133.62%</td>
</tr>
<tr>
<td>Phosphorus &amp; Potassium Fertilizer</td>
<td>92.75%</td>
</tr>
<tr>
<td>Herbicide</td>
<td>64.23%</td>
</tr>
<tr>
<td>Insecticide</td>
<td>40.23%</td>
</tr>
<tr>
<td>Fungicide</td>
<td>36.02%</td>
</tr>
<tr>
<td>Fuel &amp; Lube</td>
<td>86.63%</td>
</tr>
</tbody>
</table>

Figure 1: Location of AFPC Representative Crop Farms by Type.
Table 2: Projected Commodity Prices in FAPRI April 2022 Update Marketing Years 2021/22 and 2022/23.

<table>
<thead>
<tr>
<th>Commodity</th>
<th>2021/22</th>
<th>2022/23</th>
<th>Percentage Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corn ($/bu)</td>
<td>$5.78</td>
<td>$6.06</td>
<td>4.84%</td>
</tr>
<tr>
<td>Wheat ($/bu)</td>
<td>$7.60</td>
<td>$8.08</td>
<td>6.32%</td>
</tr>
<tr>
<td>Soybean ($/bu)</td>
<td>$13.27</td>
<td>$14.22</td>
<td>7.16%</td>
</tr>
<tr>
<td>Grain Sorghum ($/bu)</td>
<td>$5.87</td>
<td>$6.14</td>
<td>4.60%</td>
</tr>
<tr>
<td>Barley ($/bu)</td>
<td>$5.27</td>
<td>$5.60</td>
<td>6.26%</td>
</tr>
<tr>
<td>Oats ($/bu)</td>
<td>$4.30</td>
<td>$4.00</td>
<td>-6.98%</td>
</tr>
<tr>
<td>Upland Cotton ($/lb)</td>
<td>$0.91</td>
<td>$0.871</td>
<td>-4.29%</td>
</tr>
<tr>
<td>Seed Cotton ($/lb)</td>
<td>$0.464</td>
<td>$0.443</td>
<td>-4.53%</td>
</tr>
<tr>
<td>Peanuts ($/lb)</td>
<td>$0.238</td>
<td>$0.24</td>
<td>0.84%</td>
</tr>
<tr>
<td>Sunflower Seed ($/lb)</td>
<td>$0.318</td>
<td>$0.324</td>
<td>1.89%</td>
</tr>
<tr>
<td>Canola ($/lb)</td>
<td>$0.318</td>
<td>$0.295</td>
<td>-7.23%</td>
</tr>
<tr>
<td>All Rice</td>
<td>$15.80</td>
<td>$15.84</td>
<td>0.25%</td>
</tr>
<tr>
<td>Long Grain Rice ($/cwt)</td>
<td>$13.75</td>
<td>$14.03</td>
<td>2.04%</td>
</tr>
</tbody>
</table>

C contains histograms that show while there were outliers at either extreme, in most cases the responses were very similar. Also, note that relative to the modest increases for most commodity prices, input costs have increased significantly more. In addition, 78% of the respondents indicated they were cutting application rates or adjusting management practices to mitigate rising input costs this growing season.

Updated commodity prices for the 2021/22 and 2022/23 marketing years and policy variables were obtained from the FAPRI-MU Bulletin #01-22 entitled U.S. Agricultural Market Snapshot, April 2022. Importantly, for many crops, the 2021/22 marketing year is still underway – as a result, prices for crops harvested in 2021 were updated as well. It is also worth noting that we are still months away from the start of the 2022/23 marketing year for most crops, so the commodity prices used in this report are very preliminary. Across all commodities, soybeans are expected to see the largest increase in marketing year average prices over the two years (7.16 percent) followed by barley and wheat at just over six percent each.

Each representative farm was simulated using the FarmESP model assuming the annual inflation rates from Table 1 and projected prices from Table 2. AFPC’s representative farms are all assumed to be full-time, commercial-scale family operations.

**Results**

This analysis focuses on the change in net cash farm income for 2022 (relative to 2021) to determine whether expected commodity price increases are likely to offset input cost increases as reported by the representative farm panelists. The ending cash balance on hand at the end of 2022 is also reported to provide an indication of

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Table 3. Representative Feed Grain and Oilseed Farm Results.

<table>
<thead>
<tr>
<th>Name</th>
<th>Planted Area</th>
<th>NCFI 2021</th>
<th>NCFI 2022</th>
<th>NCFI Difference 2022 minus 2021</th>
<th>NCFI Difference 2022 minus 2021</th>
<th>Ending Cash 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>IAG1350</td>
<td>1,350</td>
<td>446</td>
<td>242</td>
<td>-204</td>
<td>-151.01</td>
<td>177</td>
</tr>
<tr>
<td>IAG3400</td>
<td>3,400</td>
<td>1,349</td>
<td>968</td>
<td>-381</td>
<td>-112.11</td>
<td>1,014</td>
</tr>
<tr>
<td>NEG2400</td>
<td>2,400</td>
<td>1,344</td>
<td>897</td>
<td>-466</td>
<td>-185.96</td>
<td>1,698</td>
</tr>
<tr>
<td>NEG4500</td>
<td>4,500</td>
<td>2,009</td>
<td>1,259</td>
<td>-749</td>
<td>-166.46</td>
<td>1,856</td>
</tr>
<tr>
<td>NDG3000</td>
<td>3,000</td>
<td>770</td>
<td>505</td>
<td>-265</td>
<td>-88.41</td>
<td>850</td>
</tr>
<tr>
<td>NDG9000</td>
<td>8,750</td>
<td>2,730</td>
<td>2,041</td>
<td>-689</td>
<td>-78.77</td>
<td>3,711</td>
</tr>
<tr>
<td>ING1000</td>
<td>1,050</td>
<td>446</td>
<td>338</td>
<td>-108</td>
<td>-102.73</td>
<td>394</td>
</tr>
<tr>
<td>ING3500</td>
<td>3,500</td>
<td>1,381</td>
<td>919</td>
<td>-462</td>
<td>-132.13</td>
<td>1,440</td>
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<tr>
<td>OHG700</td>
<td>700</td>
<td>301</td>
<td>50</td>
<td>-251</td>
<td>-358.49</td>
<td>160</td>
</tr>
<tr>
<td>OHG1500</td>
<td>1,500</td>
<td>780</td>
<td>94</td>
<td>-687</td>
<td>-457.81</td>
<td>678</td>
</tr>
<tr>
<td>MOCG2300</td>
<td>2,300</td>
<td>1,034</td>
<td>889</td>
<td>-145</td>
<td>-63.13</td>
<td>1,260</td>
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<tr>
<td>MOCG4200</td>
<td>4,200</td>
<td>1,962</td>
<td>1,673</td>
<td>-289</td>
<td>-68.85</td>
<td>2,786</td>
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<tr>
<td>MQNG2300</td>
<td>2,300</td>
<td>1,090</td>
<td>886</td>
<td>-205</td>
<td>-88.91</td>
<td>718</td>
</tr>
<tr>
<td>LANG2500</td>
<td>2,500</td>
<td>772</td>
<td>126</td>
<td>-646</td>
<td>-258.28</td>
<td>588</td>
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<tr>
<td>TNG2500</td>
<td>2,875</td>
<td>806</td>
<td>386</td>
<td>-420</td>
<td>-145.99</td>
<td>660</td>
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<tr>
<td>TNG3000</td>
<td>5,500</td>
<td>1,928</td>
<td>1,025</td>
<td>-903</td>
<td>-164.16</td>
<td>2,051</td>
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<tr>
<td>NCSP2000</td>
<td>2,000</td>
<td>623</td>
<td>147</td>
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<td>-237.96</td>
<td>273</td>
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<tr>
<td>NCC2030</td>
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<td>-264.45</td>
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<td>SCG3500</td>
<td>3,500</td>
<td>1,394</td>
<td>342</td>
<td>-1,052</td>
<td>-300.65</td>
<td>1,363</td>
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<tr>
<td>TXNP3450</td>
<td>3,192</td>
<td>1,589</td>
<td>791</td>
<td>-799</td>
<td>-250.20</td>
<td>1,797</td>
</tr>
<tr>
<td>TXNP10880</td>
<td>10,180</td>
<td>4,694</td>
<td>2,202</td>
<td>-2,492</td>
<td>-244.79</td>
<td>6,394</td>
</tr>
<tr>
<td>TXPG3000</td>
<td>2,470</td>
<td>667</td>
<td>247</td>
<td>-419</td>
<td>-169.74</td>
<td>-118</td>
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<tr>
<td>TXHG3000</td>
<td>3,000</td>
<td>570</td>
<td>211</td>
<td>-359</td>
<td>-119.66</td>
<td>556</td>
</tr>
<tr>
<td>TXWG1600</td>
<td>1,600</td>
<td>294</td>
<td>109</td>
<td>-185</td>
<td>-115.82</td>
<td>61</td>
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<tr>
<td><strong>Average</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>-534</strong></td>
<td><strong>-176.64</strong></td>
<td></td>
</tr>
</tbody>
</table>

whether net farm income is high enough in 2022 to pay all other obligations such as principal payments, family living expenses, and taxes. Projections beyond this crop year for input costs were not possible due to the extreme volatility in input prices.

In the results that follow, the first two letters of a farm name reflect the state abbreviation followed by letters (in many cases) describing geographic location and type of farm (e.g., G for feedgrain, W for wheat, etc.). Some locations have both a moderate- and large-sized farm, while others have only one farm size of that type in the region. The number in a farm’s name indicates the total acres on the farm. Additional information about the
Tables 3-6 contain the simulation results for each of the representative crop farms. The primary economic variables evaluated are net cash farm income in 2021 versus 2022 (along with the difference between the two) and ending cash balances at the end of 2022. Net cash farm income is a traditional measure of profitability while the ending cash balance provides an indication of the farm’s cash flow situation after paying for principal payments, family living withdrawals, and federal income taxes.

Net Cash Farm Income

Net cash farm income on the representative feed grain and oilseed farms is projected to decline by an average of $534,000 from 2021 to 2022 across the 25 feed grain and oilseed farms (Table 3). On a per-acre basis, this translates into an average reduction of $177 per acre. The size of the operation does not appear to be a major factor as the two largest farms in this category – NDG9000 and TXNP10880 – experience declines of $79 per acre (2nd lowest) and $245 per acre (7th highest).

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The wheat farms are facing an average reduction in net cash farm income of $399,000 across the 11 farms from 2021 to 2022. This results in an average decline in net cash farm income of $83 per acre. The moderate-size Colorado wheat farm (COW3000) faces the smallest reduction per acre ($31) while the moderate-size Washington wheat farm (WAW2800) faces the largest reduction per acre ($160).

The 13 representative cotton farms are facing an average reduction in net cash farm income of $716,000 from 2021 to 2022. On a per-acre basis, this equates to a $175 per-acre reduction across the farms. The second smallest cotton farm (GAC2500) had the largest per-acre reduction at $387, and the reduction on the largest cotton farm (TXCB10000) was slightly less than the average across all farms at $151 per acre.

The 15 representative rice farms face the largest reduction in net cash farm income per farm ($880,000) and per acre ($442) relative to the other farm types. The California rice farms are expected to face the largest decline in net cash farm income relative to 2021 at around $700,000 per farm. In addition, while all the farm types mentioned above are facing significant reductions in expected net cash farm income in 2022 (relative to 2021), all of the farms (other than rice) are still expected to at least break even if price and yield projections...
Table 6. Representative Rice Farm Results.

<table>
<thead>
<tr>
<th>Name</th>
<th>Planted Area --Acres--</th>
<th>Planted NCFI --$1,000--</th>
<th>NCFI 2021 --$1,000--</th>
<th>NCFI 2022 --$1,000--</th>
<th>NCFI Difference 2022 minus 2021 --$1,000--</th>
<th>NCFI Difference --$/Acre--</th>
<th>Ending Cash Balances in 2022 --$1,000--</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAR1200</td>
<td>1,200</td>
<td>584</td>
<td>-189</td>
<td>-772</td>
<td>-643.68</td>
<td>257</td>
<td></td>
</tr>
<tr>
<td>CAR3000</td>
<td>3,000</td>
<td>901</td>
<td>-1,449</td>
<td>-2,350</td>
<td>-783.24</td>
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<tr>
<td>CABR800</td>
<td>800</td>
<td>416</td>
<td>-183</td>
<td>-598</td>
<td>-748.01</td>
<td>-161</td>
<td></td>
</tr>
<tr>
<td>CACR800</td>
<td>800</td>
<td>117</td>
<td>-539</td>
<td>-656</td>
<td>-819.43</td>
<td>-728</td>
<td></td>
</tr>
<tr>
<td>TXR1500</td>
<td>600</td>
<td>66</td>
<td>-166</td>
<td>-232</td>
<td>-387.02</td>
<td>-557</td>
<td></td>
</tr>
<tr>
<td>TXR3000</td>
<td>1,500</td>
<td>239</td>
<td>-563</td>
<td>-802</td>
<td>-534.56</td>
<td>-785</td>
<td></td>
</tr>
<tr>
<td>TXBR1800</td>
<td>900</td>
<td>209</td>
<td>-212</td>
<td>-421</td>
<td>-467.46</td>
<td>-281</td>
<td></td>
</tr>
<tr>
<td>TXER2500</td>
<td>2,500</td>
<td>871</td>
<td>-146</td>
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<td>677</td>
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</tr>
<tr>
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<td>-224</td>
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</tr>
<tr>
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<td>2,444</td>
<td>944</td>
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<td></td>
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<tr>
<td>ARSR3240</td>
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<td>52</td>
<td>-931</td>
<td>-287.31</td>
<td>661</td>
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<tr>
<td>ARWR2500</td>
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<td>154</td>
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<td></td>
</tr>
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<td>ARHR4000</td>
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</tr>
<tr>
<td>MSDR5000</td>
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<td>1,969</td>
<td>1,249</td>
<td>-720</td>
<td>-143.95</td>
<td>2,010</td>
<td></td>
</tr>
<tr>
<td>MOBR4000</td>
<td>4,000</td>
<td>970</td>
<td>58</td>
<td>-912</td>
<td>-228.05</td>
<td>429</td>
<td></td>
</tr>
<tr>
<td>Average</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-880</td>
<td>-442.44</td>
<td></td>
</tr>
</tbody>
</table>

Hold. That is not the case with the representative rice farms – on average, 10 of the 15 rice farms are expected to face negative net cash farm income in 2022.

Ending Cash Balances in 2022

All but one (TXPG3000) of the feed grain farms, one of the wheat farms (COW6000), and one of the cotton farms (NCNP1600) are expected to end 2022 with a positive ending cash balance. By contrast, only six (CAR1200, TXER2500, ARMR6500, ARSR3240, MSDR5000 and MOBR4000) of the 15 representative rice farms are expected to end 2022 with a positive ending cash balance. Four of the six rice farms that have positive cash flow have a significant amount of other crops on the operation such as (corn, soybeans and cotton). As most commodity prices have risen to profitable levels over the past four years, rice prices have remained relatively flat which means that very little (if any) cash has been accumulated to help weather economic storms such as higher input costs.
Summary and Conclusions

As the nation struggles to recover from the COVID-19 pandemic, a number of supply chain disruptions continue to wreak havoc on agricultural input markets, both in terms of availability and prices. The purpose of this report was to analyze the impact that increased input prices are having on AFPC’s 64 representative crop farms. To carry out that work, we reached out to our 489 representative farm panel members to obtain estimates of the amount they spent on inputs last year and the amount they expect to spend this year. Following are the key highlights of the analysis:

• A major point of reference for this report – net cash farm income in 2021 – included a significant amount of ad hoc assistance. Absent another infusion of assistance in 2022, we estimate that significant increases in input prices will result in a huge decline in net cash farm income in 2022 (compared to 2021).

• Despite the significant reduction from 2021, high commodity prices will likely still result in positive net cash farm income for most of AFPC’s representative farms. The noticeable outlier is rice – two-thirds of the rice farms are facing losses in 2022.

• Finally, much of our analysis hinges on producers being able to lock in high commodity prices at average yields. With drought ravaging half of the country (and many other areas facing excess moisture), this assumption may be overly optimistic. This is perhaps the most important point to note because producers are beginning to plant a crop that will require them to put an enormous – indeed historic – amount of capital at risk.
References


Appendix A

Representative Farm Characteristics
2021 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 810 acres of corn and 540 acres of soybeans annually. Seventy percent of this farm’s 2021 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 70 percent of receipts from corn production.

NEG2400  South-central Nebraska (Dawson County) is home to this 2,400-acre grain farm. This farm plants 1,600 acres to corn and 800 acres to soybeans. The farm splits its corn acres evenly between yellow and white food-grade corn. Seventy-three percent of gross receipts are derived from corn sales.

NEG4500  This is a 4,500-acre grain farm located in south-central Nebraska (Dawson County). This operation plants 3,000 acres of corn and 1,000 acres of soybeans each year. Remaining acres are planted to alfalfa. A portion (25 percent) of the corn acreage is food-grade corn. In 2021, 76 percent of total receipts were generated from corn production.

NDG3000  NDG3000 is a 3,000-acre, moderate-sized, south central North Dakota (Barnes County) grain farm that plants 500 acres of wheat, 1,000 acres of corn, and 1,500 acres of soybeans. One hundred acres are enrolled in the Conservation Reserve Program. The farm generated 40 percent of 2021 receipts from soybean sales and 47 percent from corn sales.

NDG9000  This is an 9,000-acre, large-sized grain farm in south central North Dakota (Barnes County) that grows 4,500 acres of soybeans, 2,500 acres of corn, 1,250 acres of wheat, and 500 acres of barley annually. The remaining acreage is enrolled in the Conservation Reserve Program. Soybean and corn sales accounted for 82 percent of 2021 receipts.

ING1000  Shelby County, Indiana, is home to this 1,000-acre moderate-sized feedgrain farm. This farm annually plants 475 acres of corn, 525 acres of soybeans, and 50 acres of wheat that is double cropped with soybeans. Due to this farm’s proximity to Indianapolis, land development pressures will likely constrain further expansion of this operation. Fifty-five percent of 2021 receipts came from corn sales.

ING3500  ING3500 is a large-sized grain farm located in east central Indiana (Shelby County). This farm plants 1,750 acres to corn and 1,750 acres to soybeans each year. In 2021, 59 percent of gross receipts were generated by corn sales.

OHG700  This is a 700 acre, moderate sized grain farm in north western Ohio (Henry County). This farm planted 350 acres of corn and 350 acres of soybeans in 2021. Fifty-six percent of 2021 receipts were generated by corn sales.

OHG1500  This is a 1,500 acre, large-sized grain farm in north western Ohio (Henry County). This farm planted 675 acres of corn, 675 acres of soybeans, and 150 acres of wheat in 2021. Fifty-six percent of 2021 receipts were generated by corn sales.
## Appendix Table A1. Characteristics of Panel Farms Producing Feed Grains.

<table>
<thead>
<tr>
<th>County</th>
<th>IAG1350</th>
<th>IAG3400</th>
<th>NEG2400</th>
<th>NEG4500</th>
<th>NDG3000</th>
<th>NDG9000</th>
<th>ING1000</th>
<th>ING3500</th>
<th>OHG700</th>
<th>OHG1500</th>
</tr>
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<tbody>
<tr>
<td>Total Cropland</td>
<td>1,350.00</td>
<td>3,400.00</td>
<td>2,400.00</td>
<td>4,500.00</td>
<td>3,000.00</td>
<td>9,000.00</td>
<td>1,000.00</td>
<td>3,500.00</td>
<td>700.00</td>
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<tr>
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<td>850.00</td>
<td>600.00</td>
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<td>720.00</td>
<td>4,000.00</td>
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<td>350.00</td>
<td>375.00</td>
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<td>2,280.00</td>
<td>5,000.00</td>
<td>650.00</td>
<td>2,275.00</td>
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<td>23,144.00</td>
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<td>543.00</td>
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<td>Other &amp; Livestock</td>
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<td>0.17</td>
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### 2021 Gross Receipts ($1,000)*

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<th>NEG2400</th>
<th>NEG4500</th>
<th>NDG3000</th>
<th>NDG9000</th>
<th>ING1000</th>
<th>ING3500</th>
<th>OHG700</th>
<th>OHG1500</th>
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<td>0.00</td>
<td>0.00</td>
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<tr>
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### 2021 Planted Acres**

<table>
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<th>NEG2400</th>
<th>NEG4500</th>
<th>NDG3000</th>
<th>NDG9000</th>
<th>ING1000</th>
<th>ING3500</th>
<th>OHG700</th>
<th>OHG1500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>1,350.00</td>
<td>3,400.00</td>
<td>2,400.00</td>
<td>4,300.00</td>
<td>3,100.00</td>
<td>9,000.00</td>
<td>1,050.00</td>
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<td>475.00</td>
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<td>250.00</td>
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<td>1,250.00</td>
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<td>0.00</td>
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<td>1,750.00</td>
<td>350.00</td>
<td>675.00</td>
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<td>0.00</td>
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<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
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</tr>
</tbody>
</table>

*Receipts for 2021 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 2021 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.
### 2021 PANEL FARMS PRODUCING FEED GRAINS AND OILSEEDS

<table>
<thead>
<tr>
<th>Farm Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOCG2300</td>
<td>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 60 percent of its total revenue from corn and 40 percent from soybeans during 2021.</td>
</tr>
<tr>
<td>MOCG4200</td>
<td>This is a 4,200-acre central Missouri (Carroll County) grain farm with 2,310 acres of corn and 1,890 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 68 percent of farm receipts and soybeans accounted for 32 percent in 2021.</td>
</tr>
<tr>
<td>MONG2300</td>
<td>MONG2300 is a 2,300-acre diversified northwest Missouri grain farm centered in Nodaway County. MONG2300 plants 1,125 acres of corn, 1,125 acres of soybeans, and 50 acres of hay annually. The farm also has a 300-head cow-calf herd. Proximity to the Missouri River increases marketing options for area grain farmers due to easily accessible river grain terminals. In 2021, 54 percent of the farm’s total receipts were from corn, 44 percent from soybeans, and 1 percent from cattle sales.</td>
</tr>
<tr>
<td>LANG2500</td>
<td>This is a 2,500-acre northeast Louisiana (Madison Parish) diversified grain farm. This farm harvests 500 acres of rice, 875 acres of soybeans, 375 acres of cotton, and 750 acres of corn. For 2021, 57 percent of farm receipts came from corn and soybean sales.</td>
</tr>
<tr>
<td>TNG2500</td>
<td>This is a 2,500-acre, moderate-sized grain farm in West Tennessee (Gibson County). Annually, this farm plants 1,025 acres of corn, 1,475 acres of soybeans, and 375 acres of wheat (planted before soybeans) in a region of Tennessee recognized for the high level of implementation of conservation practices by farmers. For 2021, 46 percent of farm receipts were from sales of corn and 45 percent from soybeans.</td>
</tr>
<tr>
<td>TNG5000</td>
<td>West Tennessee (Gibson County) is home to this 5,000-acre, large-sized grain farm. Farmers in this part of Tennessee are known for their early and continued adoption of conservation practices, including no-till farming. TNG5000 plants 2,500 acres of corn, 500 acres of wheat, 2,500 acres of soybeans (500 of which are double-cropped after wheat). The farm generated 58 percent of its 2021 gross receipts from sales of corn and 36 percent from soybeans.</td>
</tr>
<tr>
<td>NCSP2000</td>
<td>A 2,000-acre diversified farm located in southern North Carolina (Bladen County). NCSP2000 plants 400 acres of peanuts, 1,100 acres of corn, and 500 acres of soybeans. Seventy percent of receipts for this farm came from corn and soybean sales in 2021; thirty percent of receipts came from peanut sales.</td>
</tr>
<tr>
<td>NCC2030</td>
<td>This is a 2,000-acre grain farm located on the upper coastal plain of North Carolina (Wayne County). NCC2030 plants 400 acres of corn, 200 acres of wheat, and 1,000 acres of soybeans annually. Corn accounted for 29 percent of this farm’s 2021 receipts, while soybeans accounted for 40 percent.</td>
</tr>
<tr>
<td>SCC2000</td>
<td>SCC2000 is a moderate-sized, 2,000-acre grain farm in South Carolina (Orangeburg County) consisting of 800 acres of corn, 550 acres of cotton, 250 acres of peanuts, and 400 acres of soybeans. Forty-six percent of the farm’s receipts were from corn sales during 2021.</td>
</tr>
<tr>
<td>SCG3500</td>
<td>A 3,500-acre, large-sized South Carolina (Clarendon County) grain farm with 1,800 acres of corn, 750 acres of cotton, 600 acres of peanuts, and 350 acres of soybeans. The farm generated 53 percent of 2021 receipts from corn sales and 5 percent from soybean sales.</td>
</tr>
</tbody>
</table>
### Appendix Table A2. Characteristics of Panel Farms Producing Feed Grains.

<table>
<thead>
<tr>
<th>County</th>
<th>MOCG2300</th>
<th>MOCG4200</th>
<th>MONG2300</th>
<th>LANG2500</th>
<th>TNG2500</th>
<th>TNG5000</th>
<th>NCSP2000</th>
<th>GCC2030</th>
<th>SCC2000</th>
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<tbody>
<tr>
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<td>2,300.00</td>
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<td>2,000.00</td>
<td>2,000.00</td>
<td>2,000.00</td>
<td>3,500.00</td>
</tr>
<tr>
<td>Acres Owned</td>
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<td>1,610.00</td>
<td>500.00</td>
<td>625.00</td>
<td>1,375.00</td>
<td>700.00</td>
<td>225.00</td>
<td>550.00</td>
<td>1,400.00</td>
</tr>
<tr>
<td>Acres Leased</td>
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<tr>
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<tr>
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<td>9,100.00</td>
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<tr>
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<td>2,875.00</td>
<td>5,500.00</td>
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*Receipts for 2021 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 2021 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.
2021 PANEL FARMS PRODUCING FEED GRAINS AND OILSEEDS

TXNP3450 This is a 3,450-acre diversified grain farm located on the northern High Plains of Texas (Moore County). This farm plants 1,206 acres of cotton, 1,294 acres of irrigated corn, 260 acres of irrigated sorghum for seed production, and 432 acres of irrigated wheat annually. Fifty-two percent of total receipts are generated from corn sales.

TXNP10880 TXNP10880 is a large-sized diversified grain farm located in the Texas Panhandle (Moore County). This farm annually plants 4,454 acres of cotton (3,962 irrigated/492 dryland); 3,962 acres of irrigated corn; 1,272 acres of grain sorghum (530 irrigated for seed production/492 dryland/250 irrigated for commercial use); and 492 acres of dryland winter wheat. Forty-five percent of 2021 cash receipts were derived from corn sales.

TXPG3000 The Texas Panhandle is home to this 3,000-acre farm (Deaf Smith County). Annually, wheat is planted on 350 acres, 1,530 acres planted to corn, 240 acres are planted to cotton, and grain sorghum is planted on 350 acres. Eighty-three percent of 2021 cash receipts were generated by corn sales.

TXHG3000 This 3,000-acre grain farm is located on the Blackland Prairie of Texas (Hill County). On this farm, 2,000 acres of corn, 500 acres of cotton, and 500 acres of wheat are planted annually. Grain sales accounted for 74 percent of 2021 receipts with cotton accounting for twenty-three percent of sales. Forty beef cows live on 300 acres of improved pasture and contribute approximately two percent of total receipts.

TXWG1600 This 1,600-acre farm is located on the Blackland Prairie of Texas (Williamson County). TXWG1600 plants 800 acres of corn, 300 acres of sorghum, 400 acres of cotton, and 100 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. Grain sales accounted for 62 percent of 2021 receipts with cotton accounting for 36 percent of sales.
## Appendix Table A3: Characteristics of Panel Farms Producing Feed Grains.

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<tr>
<th>County</th>
<th>Moore</th>
<th>Moore</th>
<th>Deaf Smith</th>
<th>Hill</th>
<th>Williamson</th>
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<td>0.16</td>
<td>0.17</td>
<td>0.18</td>
<td>0.17</td>
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<td><strong>2021 Gross Receipts ($1,000)</strong>*</td>
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<td></td>
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<td><strong>Total</strong></td>
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<td>19.70</td>
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<td><strong>2021 Planted Acres</strong>**</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
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<td>100.00</td>
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<td>300.00</td>
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<td>0.00</td>
<td>0.00</td>
<td>300.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

*Receipts for 2021 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 2021 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.
2021 Characteristics of Panel Farms Producing Wheat

WAW2800 This is a 2,800-acre moderate-sized grain farm in the Palouse of southeastern Washington (Whitman County). It plants 1,840 acres of wheat and 800 acres of dry peas. Disease concerns dictate rotating a minimum acreage of peas to maintain wheat yields. This farm generated 68 percent of 2021 receipts from wheat.

WAW10000 A 10,000-acre, large-sized grain farm in the Palouse of southeastern Washington (Whitman County). Annually, this farm allocates 5,800 acres to wheat and 2,700 acres to dry peas. Diseases that inhibit wheat yield dictate the rotation of a minimum acreage of peas. Wheat sales accounted for 67 percent of 2021 receipts.

WAAW5500 South-central Washington (Adams County) is home to this 5,500-acre, large-sized wheat farm. Annually, this farm plants 2,600 acres of wheat in a wheat-fallow rotation. Additionally, 300 acres are enrolled in CRP. In 2021, 98 percent of the farm's income came from wheat.

ORW4500 ORW4500 is a 4,500-acre large-sized grain farm located in northeastern Oregon (Morrow County). This farm plants 2,250 acres annually in a wheat-fallow rotation. Ninety-four percent of this farm's 2021 total receipts came from wheat sales.

MTW9500 North-central Montana (Chouteau County) is home to this 9,500-acre farm on which 3,534 acres of wheat (1,920 acres of winter wheat, 1,344 acres of spring wheat, and 544 acres of Durham), 589 acres of barley, and 1,178 acres of dry peas are planted each year. MTW9500 uses no-till production practices. In 2021, 55 percent of receipts came from wheat.

KSCW2000 South central Kansas (Sumner County) is home to this 2,000-acre, moderate-sized grain farm. KSCW2000 plants 800 acres of winter wheat, 1,100 acres of soybeans, 200 acres of cotton, and 500 acres of corn each year. For 2021, 22 percent of gross receipts came from wheat.

KSCW5300 A 5,300-acre, large-sized grain farm in south central Kansas (Sumner County) that plants 2,385 acres of winter wheat, 1,590 acres of corn, and 3,352 acres of soybeans. Twenty-seven percent of this farm's 2021 total receipts were generated from sales of winter wheat.

KSNW4000 This is a 4,000-acre, moderate-sized northwest Kansas (Thomas County) grain farm. This farm plants 1,200 acres of winter wheat (wheat-fallow rotation), 1,200 acres of corn, and 600 acres of sorghum. This farm generated 39 percent of 2021 receipts from wheat and 61 percent of its receipts from feed grains.

KSNW8000 KSNW8000 is a 8,000-acre, large-sized northwest Kansas (Thomas County) grain farm that annually plants 1,200 acres of winter wheat, 5,470 acres of corn, 800 acres of sorghum, and 130 acres of soybeans. The farm generated 11 percent of receipts from wheat and 89 percent from feed grains during 2021.

COW3000 A 3,000-acre northeast Colorado (Washington County), moderate-sized farm that plants 1,012 acres of winter wheat and 675 acres of corn each year. COW3000 has adopted minimum tillage practices on most of its acres. This farm generated 63 percent of its receipts from wheat and 35 percent from corn.

COW6000 A 6,000-acre, large-sized northeast Colorado (Washington County) wheat farm. It plants 2,000 acres of wheat, 1,000 acres of millet, and 1,000 acres of corn. During 2021, 58 percent of gross receipts came from wheat sales and 24 percent came from corn sales.
# Appendix Table A4: Characteristics of Panel Farms Producing Wheat

<table>
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<tr>
<th>County</th>
<th>Whitman</th>
<th>Whitman</th>
<th>Adams</th>
<th>Morrow</th>
<th>Chouteau</th>
<th>Sumner</th>
<th>Sumner</th>
<th>Thomas</th>
<th>Thomas</th>
<th>Washington</th>
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<td>4,500.00</td>
<td>9,500.00</td>
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<td>4,500.00</td>
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<td>592.00</td>
<td>1,895.00</td>
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<td>0.00</td>
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<td>Wheat</td>
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<td>Dry Peas</td>
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</tr>
</tbody>
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*Receipts for 2021 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 2021 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.
### 2021 CHARACTERISTICS OF PANEL FARMS PRODUCING COTTON

**TXSP4500**  
The Texas South Plains (Dawson County) is home to this 4,500-acre, large-sized cotton farm that grows 4,380 acres of cotton (2,880 dryland, 1,500 irrigated), and 120 irrigated acres of peanuts. Cotton sales comprised 93 percent of 2021 receipts.

**TXEC5000**  
This 5,000-acre farm is located on the Eastern Caprock of the Texas South Plains (Crosby County). Annually, 4,700 acres are planted to cotton (2,230 irrigated and 2,470 dryland) and 300 acres to dryland wheat. In 2021, cotton sales accounted for 96 percent of gross receipts.

**TXRP3000**  
TXRP3000 is a 3,000-acre cotton farm located in the Rolling Plains of Texas (Jones County). This farm plants 1,800 acres of cotton and 1,200 acres of winter wheat each year. The area is limited by rainfall, and the farm uses a conservative level of inputs. Seventy-eight percent of 2021 farm receipts came from cotton sales. Fifty head of beef cows generated three percent of farm receipts.

**TXMC3000**  
This 3,000-acre cotton farm is located on the Coastal Plain of southeast Texas (Wharton County). TXMC3000 farms 450 acres of sorghum, 1,500 acres of cotton, and 1,050 acres of corn. In 2021, cotton sales comprised 59 percent of total cash receipts on this operation.

**TXCB4000**  
A 4,000-acre cotton farm located on the Texas Coastal Bend (San Patricio County) that farms 2,000 acres of cotton, 1,600 acres of sorghum, and 400 acres of corn annually. Sixty-nine percent of 2021 cash receipts were generated by cotton.

**TXCB10000**  
Nueces County, Texas is home to this 10,000-acre farm. Annually, 5,000 acres are planted to cotton, 4,500 acres to sorghum, and 500 acres of corn. Cotton sales accounted for 67 percent of 2021 receipts.

**TXVC5500**  
This 5,500-acre farm is located in the lower Rio Grande Valley of Texas (Willacy County) and plants 2,550 acres to cotton (425 irrigated and 2,125 acres dryland), 2,295 acres to sorghum (170 irrigated and 2,125 dryland), and 255 acres of corn. In 2021, 51 percent of TXVC5500's cash receipts were generated by cotton sales.

**ARNC5000**  
This 5,000-acre farm is located in northern Arkansas (Mississippi County) and plants 2,500 acres to cotton, 500 acres to corn, 1,000 acres of soybeans, and 1,000 acres to peanuts. In 2021, 54 percent of ARNC5000's cash receipts were generated by cotton sales.

**TNC3000**  
A 3,000-acre, moderate-sized West Tennessee (Fayette County) cotton farm. TNC3000 consists of 825 acres of cotton, 1,375 acres of soybeans, and 800 acres of corn. Cotton accounted for 36 percent of 2021 gross receipts, with corn and soybeans contributing 31 percent and 31 percent, respectively.

**TNC4000**  
TNC4000 is a 4,000-acre, large-sized West Tennessee (Haywood County) cotton farm. This farm plants 1,000 acres of cotton, 2,000 acres of soybeans, 700 acres of corn, and 400 acres of wheat each year. During 2021, cotton sales generated 31 percent of gross receipts.
### Appendix Table A5. Characteristics of Panel Farms Producing Cotton.

<table>
<thead>
<tr>
<th>County</th>
<th>TXSP4500</th>
<th>TXEC5000</th>
<th>TXRP3000</th>
<th>TXMC2500</th>
<th>TXCB4000</th>
<th>TXCB10000</th>
<th>TXVC5500</th>
<th>ARNC5000</th>
<th>TNC3000</th>
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<td>5,000.00</td>
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<td>875.00</td>
<td>180.00</td>
<td>600.00</td>
<td>1,500.00</td>
<td>1,750.00</td>
<td>1,000.00</td>
<td>300.00</td>
<td>400.00</td>
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<td>Acres Leased</td>
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<td>8,500.00</td>
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<td>746.30</td>
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<td>Debt/Asset Ratios</td>
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<td>0.25</td>
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<td>2021 Gross Receipts ($1,000)*</td>
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<td></td>
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<td>0.00</td>
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<td>2021 Planted Acres**</td>
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<td>2,500.00</td>
<td>825.00</td>
<td>1,000.00</td>
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</tbody>
</table>

*Receipts for 2021 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 2021 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.
2021 CHARACTERISTICS OF PANEL FARMS PRODUCING COTTON

**ALC3500**  A 3,500-acre cotton farm located in northern Alabama (Lawrence County) that plants 1,050 acres to cotton, 1,050 acres to corn, 1,400 acres of soybeans and 875 acres to wheat (double cropped with soybeans) annually. This farm was early to adopt no-till cropping practices. Cotton sales accounted for 31 percent of total farm receipts during 2021.

**GAC2500**  Southwest Georgia (Decatur County) is home to a 2,500-acre cotton farm that plants 1,250 acres to cotton, 800 acres to peanuts, and 450 acres to corn. In 2021, farm receipts were comprised of cotton sales (44 percent), corn (18 percent), and peanut sales (34 percent). The farm also runs a 125-head beef cow herd, generating 3 percent of 2021 receipts.

**NCNP1600**  A 1,600-acre diversified farm located in northern North Carolina (Edgecombe County). NCNP1600 plants 320 acres of peanuts, 240 acres of corn, 640 acres of cotton, and 400 acres of soybeans. Twenty-four percent of receipts for this farm came from peanut sales in 2021, 46 percent from cotton sales and 27 percent came from corn and soybean sales.
## Appendix Table A6. Characteristics of Panel Farms Producing Cotton.

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<th>GAC2500</th>
<th>NCNP1600</th>
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<td>Decatur</td>
<td>Edgecombe</td>
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<td>1,600.00</td>
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<td>600.00</td>
</tr>
<tr>
<td><strong>Acres Leased</strong></td>
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<tr>
<td><strong>Assets ($1000)</strong></td>
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<td></td>
<td></td>
</tr>
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<td><strong>Total</strong></td>
<td>6,688.00</td>
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<td><strong>Machinery</strong></td>
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<td><strong>Other &amp; Livestock</strong></td>
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<td><strong>Total</strong></td>
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<td>0.16</td>
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<td><strong>Intermediate</strong></td>
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<td><strong>Long Run</strong></td>
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<tr>
<td><strong>2021 Gross Receipts ($1,000)</strong></td>
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<td><strong>Total</strong></td>
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<td><strong>Soybeans</strong></td>
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<td><strong>Other</strong></td>
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<td><strong>Total</strong></td>
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<tr>
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<td><strong>Soybeans</strong></td>
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<td>400.00</td>
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<tr>
<td><strong>Cotton</strong></td>
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<td>640.00</td>
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<tr>
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</tr>
</tbody>
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*Receipts for 2021 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 2021 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.*
2021 CHARACTERISTICS OF PANEL FARMS PRODUCING RICE

**CAR1200** Car1200 is a 1,200-acre moderate-sized rice farm in the Sacramento Valley of California (Sutter and Yuba Counties) that plants 1,200 acres of rice annually. This farm generated 100 percent of 2021 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. In 2021, 100 percent of gross receipts were generated from rice sales.

**CABR800** The Sacramento Valley (Butte County) is home to CABR800, a 800-acre rice farm. CABR800 harvests 800 acres of rice annually, generating 100 percent of 2021 farm receipts from rice sales.

**CACR800** CABR800 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 2021, 100 percent of farm receipts were realized from rice sales.

**TXR1500** This 1,500-acre rice farm located west of Houston, Texas (Colorado County) is moderate-sized for the region. TXR1500 harvests 600 acres of rice. The farm generated 99 percent of its receipts from rice during 2021.

**TXR3000** TXR3000 is a 3,000-acre, large-sized rice farm located west of Houston, Texas (Colorado County). This farm harvests 1,500 acres of rice annually. TXR3000 realized 100 percent of 2021 gross receipts from rice sales.

**TXBR1800** The Texas Gulf Coast (Matagorda County) is home to this 1,800-acre rice farm. TXBR1800 generally plants a third of its acres to rice annually and fallows the remainder. The farm generated 98 percent of its receipts from rice during 2021.

**TXER2500** This 2,500-acre rice farm is located in the Texas Gulf Coast (Wharton County). TXER2500 harvests 1,250 acres of rice each year. The farm also grows 1,250 acres of corn. Seventy-five percent of 2021 receipts came from rice sales.

**LASR2000** A 2,000-acre southwest Louisiana (Acadia, Jeff Davis, and Vermilion parishes) rice farm, LASR2000 is moderate-sized for the area. This farm harvests 1,000 acres of rice and 200 acres of soybeans. During 2021, 63 percent of gross receipts were generated from rice sales.

**ARMR6500** ARMR6500 is a 6,500-acre diversified rice farm in southeast Arkansas (Desha County) that plants 650 acres of rice, 3,900 acres of soybeans, and 1,950 acres of corn. For 2021, 11 percent of gross receipts came from rice sales, 34 percent from corn sales, and 54 percent from soybean sales.
## Appendix Table A7. Characteristics of Panel Farms Producing Rice.

<table>
<thead>
<tr>
<th>County</th>
<th>CAR1200</th>
<th>CAR3000</th>
<th>CABR800</th>
<th>CACR800</th>
<th>TXR1500</th>
<th>TXR3000</th>
<th>TXBR1800</th>
<th>TXER2500</th>
<th>LASR2000</th>
<th>ARMR6500</th>
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<tr>
<td>Total Cropland</td>
<td>1,200.00</td>
<td>3,000.00</td>
<td>800.00</td>
<td>800.00</td>
<td>1,500.00</td>
<td>3,000.00</td>
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<td>2,500.00</td>
<td>2,000.00</td>
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<td>560.00</td>
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<td>1,800.00</td>
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<tr>
<td>Total</td>
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<td>15,677.00</td>
<td>5,838.00</td>
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<td>142.00</td>
<td>96.00</td>
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<td>1,576.00</td>
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<td>1,148.00</td>
<td>1,218.00</td>
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<td>Other &amp; Livestock</td>
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<td>0.00</td>
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<td>Debt/Asset Ratios</td>
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<tr>
<td>Total</td>
<td>0.12</td>
<td>0.18</td>
<td>0.16</td>
<td>0.18</td>
<td>0.20</td>
<td>0.22</td>
<td>0.19</td>
<td>0.11</td>
<td>0.19</td>
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<tr>
<td>Intermediate</td>
<td>0.03</td>
<td>0.20</td>
<td>0.11</td>
<td>0.08</td>
<td>0.21</td>
<td>0.27</td>
<td>0.22</td>
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<td>0.17</td>
<td>0.18</td>
<td>0.18</td>
<td>0.17</td>
<td>0.19</td>
<td>0.20</td>
<td>0.19</td>
<td>0.19</td>
<td>0.15</td>
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### 2021 Gross Receipts ($1,000)*

<table>
<thead>
<tr>
<th>Category</th>
<th>CAR1200</th>
<th>CAR3000</th>
<th>CABR800</th>
<th>CACR800</th>
<th>TXR1500</th>
<th>TXR3000</th>
<th>TXBR1800</th>
<th>TXER2500</th>
<th>LASR2000</th>
<th>ARMR6500</th>
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</thead>
<tbody>
<tr>
<td>Total</td>
<td>2,219.40</td>
<td>5,816.80</td>
<td>1,598.30</td>
<td>1,436.30</td>
<td>930.10</td>
<td>2,092.80</td>
<td>1,162.80</td>
<td>2,760.20</td>
<td>1,539.10</td>
<td>6,169.50</td>
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<tr>
<td>Corn</td>
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<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
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<td>0.00</td>
<td>677.00</td>
<td>0.00</td>
<td>2,062.30</td>
</tr>
<tr>
<td>Soybeans</td>
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<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
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<td>0.00</td>
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<td>919.90</td>
<td>2,087.00</td>
<td>1,162.40</td>
<td>2,081.20</td>
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<td>Other</td>
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### Debt/Asset Ratios

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<thead>
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<th>Long Run</th>
<th>2021 Gross Receipts ($1,000)*</th>
<th>Total</th>
<th>Intermediate</th>
<th>Long Run</th>
<th>2021 Gross Receipts ($1,000)***</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
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<td>0.16</td>
<td>0.18</td>
<td>0.12</td>
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<tr>
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<td>0.03</td>
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<td>0.08</td>
<td>0.03</td>
<td>0.20</td>
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<tr>
<td>Long Run</td>
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<td>0.17</td>
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### 2021 Planted Acres**

<table>
<thead>
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<th>Category</th>
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<th>CABR800</th>
<th>CACR800</th>
<th>TXR1500</th>
<th>TXR3000</th>
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<th>TXER2500</th>
<th>LASR2000</th>
<th>ARMR6500</th>
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</thead>
<tbody>
<tr>
<td>Total</td>
<td>1,200.00</td>
<td>3,000.00</td>
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<td>800.00</td>
<td>1,500.00</td>
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<td>1,500.00</td>
<td>600.00</td>
<td>1,200.00</td>
<td>6,500.00</td>
</tr>
<tr>
<td>Corn</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Soybeans</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
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<td>1,250.00</td>
<td>600.00</td>
<td>1,000.00</td>
<td>650.00</td>
</tr>
</tbody>
</table>

*Receipts for 2021 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 2021 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.
# 2021 Characteristics of Panel Farms Producing Rice

**ARSR3240**
ARSR3240 is a 3,240-acre, large-sized Arkansas (Arkansas County) rice farm that harvests 1,458 acres of rice, 1,458 acres of soybeans, and 324 acres of corn each year. Fifty-seven percent of this farm’s 2021 receipts came from rice sales.

**ARWR2500**
East central Arkansas (Cross County) is home to this 2,500-acre rice farm. Moderate-sized for the region, ARWR2500 annually plants 1,250 acres each to rice and soybeans. During 2021, rice sales generated 64 percent of gross receipts.

**ARHR4000**
ARHR4000 is a 4,000-acre large-sized northeast Arkansas (Lawrence County) rice farm that annually harvests 2,400 acres of rice, 1,400 acres of soybeans, and 200 acres of corn. Rice sales accounted for 75 percent of 2021 farm receipts.

**MSDR5000**
MSDR5000 is a 5,000-acre Mississippi Delta (Bolivar County) rice farm that annually harvests 1,667 acres of rice and 3,333 acres of soybeans. Rice sales accounted for 42 percent of 2021 farm receipts. Soybeans account for 58 percent of receipts.

**MOBR4000**
MOBR4000 is a 4,000-acre Missouri Bootheal (Pemiscot County) rice farm. The farm annually harvests 1,320 acres of rice, 1,800 acres of soybeans and 880 acres of corn. Rice sales accounted for 46 percent of farm receipts in 2021.
## Appendix Table A8. Characteristics of Panel Farms Producing Rice.

<table>
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<tr>
<th>County</th>
<th>ARSR3240</th>
<th>ARWR2500</th>
<th>ARHR4000</th>
<th>MSDR5000</th>
<th>MOBR4000</th>
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<td>4,000.00</td>
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<tr>
<td>Acres Leased</td>
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<td>3,000.00</td>
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<tr>
<td>Assets ($1000)</td>
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<td></td>
</tr>
<tr>
<td>Total</td>
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<td>0.18</td>
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<td>2021 Gross Receipts ($1,000)*</td>
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<td>2021 Planted Acres**</td>
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<td>1,250.00</td>
<td>2,640.00</td>
<td>1,667.00</td>
<td>1,320.00</td>
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</tbody>
</table>

*Receipts for 2021 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 2021 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

Representative Farm Panel Members and Facilitators
FEED GRAIN FARMS

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

Panel Participants
Mr. David Brown  
Mr. Gary Everhart  
Mr. Jason & Dan Foltz  
Mr. Darrell Linville  
Mr. Ken Simpson  
Mr. Doug Theobald

Mr. Kevin Carson  
Mr. Andy Fix  
Ms. Carmen Hawk  
Mr. Gary Robards  
Ms. Angie Steinbarger  
Mr. Jeremy Weaver

Iowa
Facilitators
Mr. Jerry Chizek - County Extension Director, Webster County

Panel Participants
Mr. Doug Adams  
Mr. Dean Black  
Mr. A.J. Blair  
Mr. Tyler Lane  
Mr. Steve Peterson  
Mr. Brent Wells  
Mr. Loren Wuebker

Mr. Brad Black  
Mr. Perry Black  
Mr. Gregg Hora  
Mr. Jay Lynch  
Mr. Doug Stanek  
Mr. Kent Wuebker

Missouri - Central
Facilitators
Mr. Parman Green

Panel Participants
Mr. Joe Brockmeier  
Mr. Kevin Casner  
Mr. Kyle Durham  
Mr. Todd Gibson  
Mr. Jack Harriman  
Mr. Mike Hisle  
Mr. Glenn Kaiser  
Mr. David Kipping  
Mr. Craig Linneman  
Mr. James Wheeler

Mr. Michael Brockmeier  
Mr. Mark Casner  
Mr. Dennis Germann  
Mr. Dale Griffith  
Mr. Todd Hensiek  
Mr. Preston Hisle  
Mr. Marc Kaiser  
Mr. Robert Kipping  
Mr. Mike Ritchhart

Missouri - Northwest
Facilitators
Mr. Peter Zimmel - FAPRI, University of Missouri

Panel Participants
Mr. Terry Ecker  
Mr. Russell Miller  
Mr. Nick Rosenbohm

Mr. Curtis Lewis  
Mr. Matt Rosenbohm  
Mr. Andrew Stoll
NEBRASKA - CENTRAL

Facilitators
Ms. Sarah Sivits
Mr. Bruce Treffer - Extension Educator, Dawson County

Panel Participants
Mr. Jim Aden  Mr. Rob Anderson
Mr. Bart Beattie  Mr. Greg Hueftle
Mr. Pat Luther  Mr. Tim Maline
Mr. Clark McPheeters  Mr. Scott McPheeters
Mr. Cody Peden  Mr. Rod Reynolds
Mr. Dave Rowe  Mr. Paul Stieb
Mr. Dan Strauss

NORTH DAKOTA

Facilitators
Mr. Randy Grueneich - County Extension Agent, North Dakota State University
Dr. Bryon Parman - Extension Associate-Farm Management, North Dakota State University

Panel Participants
Mr. John Robert Anderson  Mr. Eric Broten
Mr. Jim Broten  Mr. Wade Bruns
Mr. Mike Clemens  Mr. Mark Formo
Mr. Leland Guscette  Mr. Rob Hanson
Mr. Jason Haugen  Mr. Charlie Kreidelcamp
Mr. Greg Shanenko  Mr. Anthony Thilmony

OHIO

Facilitators
Mr. Alan Leininger - County Agent, OSU Extension
Mr. Eric Richer - County Agent, OSU Extension

Panel Participants
Mr. Austin Arps  Ms. Jan Bernath
Mr. Dean Bixel  Mr. Scott Conrad
Mr. Mark Drewes  Mr. Matt Eggers
Mr. Todd Hesterman  Mr. Tim Holbrook
Mr. Eric Johnson  Mr. Chris Rettig
Mr. Jeremy Tedrow  Mr. Kevin Thierry

OHIO - NAPOLEON

Facilitators
Mr. Alan Leininger - County Agent, OSU Extension
Mr. Eric Richer - County Agent, OSU Extension

Panel Participants
Mr. Austin Arps  Ms. Jan Bernath
Mr. Dean Bixel  Mr. Scott Conrad
Mr. Mark Drewes  Mr. Matt Eggers
Mr. Todd Hesterman  Mr. Tim Holbrook
Mr. Eric Johnson  Mr. Chris Rettig
Mr. Jeremy Tedrow  Mr. Kevin Thierry
FEED GRAIN FARMS (CONTINUED)

South Carolina
Facilitators
Mr. Scott Mickey
Dr. Nathan Smith

Panel Participants
Mr. Neal Baxley
Mr. Chris Cogdill
Mr. Sam DuRant
Mr. Steven Gamble
Mr. Tommy Lee
Mr. John Michael Parimuha
Ms. Vikki Brogdon
Mr. Harry DuRant
Mr. Jason Gamble
Mr. Barry Hutto
Mr. Joe McKeower

Tennessee - Trenton
Facilitators
Mr. Jeff Lannom - Extension Agent & County Director, Weakley County
Mr. Chris Narayanan
Mr. Philip Shelby - Extension Agent, Gibson County
Mr. Tim Smith - County Extension Agent, Obion County

Panel Participants
Mr. Steven Agee
Mr. Kenneth Barnes
Mr. Mike Brundige
Mr. Kaleb Dinwiddie
Mr. Bobby Garner
Mr. Brent Griggs
Mr. Rob Holman
Mr. Todd Littleton
Mr Ben Moore
Mr. David Oliver
Mr. John Parrish
Mr. Hedrick Shoaf
Mr. Keith Steele
Mr. James Wall
Mr. Jay Yeargin
Mr. Brent Baier
Mr. Randy Boals
Mr. John Chester
Mr. Mike Freeman
Mr. Derek Griffin
Mr. Gary Hall
Mr. Josh Little
Mr. Jason Luckey
Mr. Scotty Ogg
Mr. Eric Owen
Mr. Eric Partee
Mr. Kevin Smethwick
Mr. Seth Taylor
Mr. Jody Wright

Texas - Northern Blackland Prairie
Facilitators
Mr. Zach Davis - County Extension Agent, Hill County

Panel Participants
Mr. Chad Kaska
Mr. Chad Radke
Mr. Todd Kimbrell, Jr.
Mr. John Sawyer

Texas - Northern High Plains
Facilitators
Mr. Marcel Fischbacher - County Extension Agent, Moore County

Panel Participants
Mr. Tommy Cartrite
Mr. Justin Garrett
Mr. Casey Kimbrell
Mr. Chandler Preston
Mr. Stan Spain
Mr. Dee Vaughan
Mr. Brent Clark
Mr. Kelly Hays
Mr. Tom Moore
Mr. Jon Reznik
Mr. Darren Stallwitz
Ms. Linda Williams
FEED GRAIN FARMS (CONTINUED)

Texas - Panhandle

Facilitators
Mr. Rick Auckerman - County Extension Agent, Texas Cooperative Extension

Panel Participants
Mr. Michael Carlson
Mr. Greg Chavez
Mr. Bob Meyer
Mr. Roy Carlson
Mr. Steve Hoffman
Mr. Tom Schlabs

Texas - Southern Blackland Prairie

Facilitators
Mr. Cooper Terrill - County Extension Agent, Williamson County

Panel Participants
Mr. Terry Pekar
Mr. Ken Seggern
Mr. Herbert Raesz

Texas - Southwest

Facilitators
Mr. Samantha Korzekwa - County Extension Agent, Uvalde County

Panel Participants
Mr. Jimmy Carnes
Mr. Mark Landry
Mr. Ralph Hesse
Mr. Danny Parker
WHEAT FARMS

Colorado

Facilitators
Mr. Dennis Kaan - Director, Golden Plains Area Extension, Colorado State University
Mr. Brent Young - Ag and Business Management Specialist, Colorado State University

Panel Participants
Mr. Matt Campbell
Mr. Joel Dracon
Mr. Barney Filla
Mr. Barry Hinkhouse
Mr. Trent Twiss
Mr. John Deering
Mr. Mario Dracon
Mr. Dale Hansen
Mr. Shane Leoffler

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. Tanner Brown
Mr. Steve Busse
Mr. Sam Crouse
Mr. Lee Juenemann
Mr. Kenan Reeh
Mr. Steve Schertz
Mr. Craig Busse
Mr. Rich Calliham
Mr. Aaron Horinek
Mr. Daniel Leebrock
Mr. Tyler Roe

Kansas - South Central

Facilitators
Mr. Randy Hein - County Extension Agent, Sumner County
Mr. Jeff Seiler - County Extension Agent, Sedgwick County

Panel Participants
Mr. Colton Day
Mr. Doug Hisken
Mr. Jeff Neises
Mr. Steve Schmidt
Mr. Nick Steffen
Mr. Tim Turek
Mr. Robert White
Mr. Dennis Gruenbacher
Mr. Aaron Lange
Mr. Kent Ott
Mr. Mike Slack
Troy & Julia Strnad
Mr. Phil White

Montana - North Central

Facilitators
Mr. Lochiel Edwards

Panel Participants
Mr. Darin Arganbright
Mr. Duane Beirwagen
Mr. Dan Works
Mr. Steve Bahnmiller
Mr. Will Roehm

Oregon - North Central

Facilitators
Jon Farquharson

Panel Participants
Mr. Dana Heideman
Mr. Joe McElligott
Mr. Eric Orem
Mr. Tim and Shannon Rust
Mr. Bill Jepsen
Mr. Craig Miles
Mrs. Shannon Rust
WHEAT FARMS (CONTINUED)

Washington
Facilitators
Mr. Aaron Esser - County Director, WSU Extension
Panel Participants
Mr. Trevor Jantz                Mr. Ron Jirava
Mr. Mike Miller                Mr. Justin Simonson
Mr. Travis Simonson            Mr. Tim Smith
Mr. Traven Smith               Mr. Steve Taylor

Washington - Palouse
Facilitators
Dr. Janet Schmidt - Extension Faculty, Washington State University
Mr. Steve Van Vleet - Extension Agronomist, Washington State University
Panel Participants
Mr. Ben Barstow                 Mr. Gavin Clark
Mr. Ian Clark                   Mr. Scot Cocking
Mr. Aaron Gfeller               Mr. David Harlow
Ms. Kenda Hergert               Mr. Dean Kinzer
Ms. Heidi Kopf                  Mr. Brian Largent
Mr. Gary Largent                Mr. Michael Largent
Mr. Steve Mader                 Ms. Amy McKay
Mr. Clark Miller                Mr. Bruce Nelson
Mr. Chris Schultheis            Mr. David Swannack
Mr. Steve Teade                 Mr. Jon Whitman
COTTON FARMS

Alabama

Panel Participants
Mr. James Blythe
Mr. Jarred Darnell
Mr. William Lee

Arkansas

Facilitators
Mr. Ethan Brown
Dr. Brad Watkins - Research Assistant Professor, U. of Arkansas Cooperative Extension

Panel Participants
Mr. Chad Costner
Mr. Todd Edwards
Mr. Cole Hawkins
Mr. Kenny Jackson

Georgia - Southwest

Facilitators
Ms. Nan Bostick - County Extension Coordinator, Decatur County
Mr. Cody Powell
Dr. Adam Rabinowitz

Panel Participants
Mr. Andy Bell
Mr. Greg Mims
Mr. Brad Thompson

North Carolina

Facilitators
Mr. Daryl Anderson - County Extension Agent
Dr. Blake Brown
Mr. Gary Bullen
Mr. Kevin Johnson - County Extension Director, Wayne County

Panel Participants
Mr. Landis Brantham, Jr.
Mr. Willis Howell
Mr. Danny C. Pierce
Mr. Bryant Worley

South Carolina

Facilitators
Mr. Jonathan Croft
Mr. Scott Mickey
Dr. Nathan Smith

Panel Participants
Mr. Jimmie Griner
Mr. John McLaurin
Mr. Landrum Weathers

Mr. Paul Clark
Dr. Steve Ford
Ms. Larkin Martin

Mr. Heath Donner
Mr. Paul Harris
Mr. Justin Hawkins

Mr. Jerry Jones
Mr. Willard Mims
Mr. Raymond Thompson

Mr. Michael Gray
Mr. David B. Mitchell, Sr.
Mr. Craig West

Mr. Dean Hutto
Mr. David Tindal
COTTON FARMS (CONTINUED)

Tennessee

Facilitators
Mr. Walter Battle - Co-Director, Haywood County Extension
Mr. Chris Narayanan
Ms. Lindsay Stephenson
Mr. Jeff Via - County Extension Director, Fayette County

Panel Participants
Mr. Alex Armour
Mr. Chuck Dacus
Mr. Lee Graves
Mr. Rob Karcher
Mr. John King
Mr. Hassell Smith

Mr. Chris Narayanan
Ms. Lindsay Stephenson
Mr. Jeff Via - County Extension Director, Fayette County

Panel Participants
Mr. Alex Armour  Mr. Link Carlton
Mr. Chuck Dacus  Mr. Willie German
Mr. Lee Graves  Mr. Ed Karcher
Mr. Rob Karcher  Mr. Allen King
Mr. John King  Mr. Kinney McRae

Texas - Coastal Bend

Facilitators
Mr. Bobby McCool - County Extension Agent, San Patricio County and Aransas County
Mr. Mark Miller - Chief Operations Officer, Texas AgFinance
Mr. Jeff Nunley - Executive Director, South Texas Cotton & Grain Association
Mr. Jason Ott - County Extension Agent, Nueces County
Mr. John Parker - Vice President, Texas AgFinance

Panel Participants
Mr. Travis Adams  Mr. Marvin Beyer, Jr.
Mr. Colin Chopelas  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
Ms. Caitlin Jackson

Panel Participants
Mr. Lloyd Arthur  Mr. Brooks Ellison
Mr. Mark Schoepf  Mr. Conner Wilmeth

Texas - Mid Coast

Facilitators
Mr. Jeff Nunley - Executive Director, South Texas Cotton & Grain Association
Mr. Jimmy Roppolo - General Manager, United Ag

Panel Participants
Mr. Daniel Gavranovic  Mr. Duane Lutringer
Mr. Michael Popp  Mr. Darrell Schoeneberg
Mr. Mike Watz

Texas - Rio Grande Valley

Facilitators
Mr. Matthew Rodriguez - County Extension Agent

Panel Participants
Mr. Jerry Chappell  Mr. Joe Pennington
Mr. Spence Pennington  Mr. Ivan Salazar
Mr. Zachary Swanberg  Mr. Mark Willis
COTTON FARMS (CONTINUED)

Texas - Rolling Plains

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

Panel Participants
Mr. Larry Lytle
Mr. Cody Roberts
Mr. Mike Sloan
Mr. Rick Vickers
Mr. Terry White

Mr. Michael McLellan
Mr. Brian Sandbothe
Mr. Dale Spurgin
Mr. Ferdie Walker

Texas - Southern High Plains

Facilitators
Mr. Gary Roschetzky - County Extension Agent, Dawson County

Panel Participants
Mr. Terry Coleman
Mr. Kirk Tidwell
Mr. Donald Vogler

Mr. Will Cozart
Mr. Johnny Ray Todd
Mr. David Warren
Arkansas

Facilitators
Mr. Chuck Capps
Mr. Steve Kelley
Mr. Steven Stone
Dr. Brad Watkins - Research Assistant Professor, U. of Arkansas Cooperative Extension
Mr. Gus Wilson

Panel Participants
Mr. John Gates  Mr. Andrew Gill
Mr. Andy Gill  Mr. Tad Keller
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. Brandon Bauman  Mr. Derek Bohanan
Mr. Monty Bohanan  Mr. Dusty Hoskyn
Mr. Stephen Hoskyn  Mr. David Jessup
Mr. Garth 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. Bryan Moery
Mr. Roger Pohlner

Arkansas - Northeast-Lawrence County

Facilitators
Mr. Michael Andrews
Mr. Bryce Baldrige
Ms. Courtney Sisk
Dr. Brad Watkins - Research Assistant Professor, U. of Arkansas Cooperative Extension

Panel Participants
Mr. Greg Baltz  Mr. Jeremy Baltz
Mr. Ricky Burris  Mr. Ronald Cavenaugh
Mr. Doug Cox  Mr. Bruce Manning
Mr. Joe Richardson  Mr. Vic Stone

California - Butte County

Facilitators
Dr. Luis Espino
Mr. Tim Johnson - President and CEO, California Rice Commission

Panel Participants
Mr. Seth Fiack  Mr. Imran Khan
Mr. Peter Rystrom  Mr. Josh Sheppard
Mr. Derek Sohnrey
RICE FARMS (CONTINUED)

California - Colusa County
Facilitators
Dr. Luis Espino
Mr. Tim Johnson - President and CEO, California Rice Commission
Panel Participants
Mr. Don Bransford
Mr. Leo LaGrande
Mr. Alex Struckmeyer
Ms. Kim Gallagher
Mr. Charles Marsh

California - Sutter County
Facilitators
Ms. Whitney Brim-DeForest - UCCE Farm Advisor
Mr. Tim Johnson
Panel Participants
Mr. Bard Anderson
Mr. Tom Butler
Mr. Ned Lemenager
Mr. Jon Munger
Mr. Michael Rue
Mr. Rob Van Dyke
Mr. Paul Baggett
Mr. Mike DeWit
Mr. Charley Mathews
Mr. Rick Nelson
Mr. Don Traynham
Ms. Nicole Van Vleck

Louisiana - Northeast
Facilitators
Mr. Scott Franklin
Panel Participants
Mr. Ed Greer
Mr. John Owen
Mr. Heath Herring
Mr. Russ Ratcliff

Louisiana - Southwest-Acadiana
Panel Participants
Mr. Al Cramer
Mr. David Lacour
Mr. Jackie Loewer
Mr. Christian Richard
Mr. Tommy Faulk
Mr. Alan Lawson
Mr. Micah Loewer
Mr. Fred Zaunbrecher

Mississippi - Cleveland
Facilitators
Mr. Zach Gaylor - Extension Agent
Panel Participants
Mr. Michael Aguzzi
Mr. Gary Fioranelli
Mr. Kirk Satterfield
Mr. Austin Davis
Mr. Randy Howarth

Missouri
Facilitators
Mr. Trent Haggard - Director, Fisher Delta Research Center
Panel Participants
Mr. John Anderson
Mr. Rance Daniels
Mr. Jim Priggel
Mr. Alex Clark
Mr. Russ Hoggard
Mr. Will Spargo
RICE FARMS (CONTINUED)

Texas - Bay City-Matagorda County

Panel Participants
Mr. Dillon Berglund
Mr. Coleman Franz
Mr. Paul Sliva

Mr. Barrett Franz
Mr. Joey Sliva

Texas - Eagle Lake-Colorado County

Panel Participants
Mr. Allen Anderson
Mr. Kenneth Danklefs
Mr. W.A. "Billy" Hefner, III
Mr. Patrick Pavlu

Mr. Andy Anderson
Mr. Craig Guthman
Mr. Ira Lapham
Mr. Bryan Wiese

Texas - El Campo-Wharton County

Panel Participants
Mr. Daniel Berglund
Mr. Mark Rasmussen
Mr. Glen Rod

Mr. Timothy Gertson
Mr. L.G. Raun
Mr. Tommy Turner
PEANUT FARMS

North Carolina - Conway
Facilitators
Dr. Blake Brown
Mr. Gary Bullen
Mr. Bob Sutter
Panel Participants
Mr. Clarke Fox
Mr. Wayne Harrell
Mr. Brad West
Mr. Ray Garner
Mr. Donny Lassiter
Mr. Donnie White

North Carolina - Elizabethtown
Facilitators
Dr. Blake Brown
Mr. Gary Bullen
Mr. Matthew Strickland
Mr. Bob Sutter
Panel Participants
Mr. Robert Byrd
Mr. Jart Hudson
Mr. Dan McDuffie
Mr. Dan Ward
Mr. Wade Byrd
Mr. Alex Jordan
Mr. Sean Morris
Mr. Wilbur Ward
Appendix C

Histograms of Producer Responses for Each Input Category
Histograms of the seven cost categories are included to provide additional detail on the ranges and magnitudes of producer responses. These charts are used to display the frequency distribution of responses falling into ranges (the numbers of ranges and their respective magnitudes are dependent on the numbers of responses from our producers and their relative scales). The histograms display ranges of responses across the x-axis and the associated bars report the number of responses falling into each of the stated ranges on the y-axis. The x-axis labels indicate the upper and lower bounds of the range.

The simple averages of responses for the categories often fall in the range with the most responses, but, sometimes, due to magnitudes on some of the less frequent ranges, the average falls slightly outside of the range of the most frequent responses. For example, the seed average cost increase across all responses was 16.58% and almost half (38 of 82) of the responses fall within that 1% to 19% range. This pattern also holds for phosphorous and potash fertilizer, insecticide, and fuel and lube. Conversely, the simple average nitrogen fertilizer increase (133.62%) falls within the range with the second greatest number of responses (25 responses were between 86% and 147% while 27 were between 25% and 86%). The herbicide and fungicide categories also followed this pattern where the simple average is between the range with the second greatest number of responses.

Seed (82 Responses)
N Fertilizer (81 Responses)

- 25% to 86%
- >86% to 147%
- >147% to 208%
- >208% to 269%
- >269% to 330%
- >330% to 391%
- >391% to 452%

P&K Fertilizer (71 Responses)

- -43% to 12%
- >12% to 67%
- >67% to 122%
- >122% to 177%
- >177% to 232%
- >232% to 287%
- >287% to 342%
Herbicide (83 Responses)

- 0% to 57%: 50
- >57% to 114%: 10
- >114% to 171%: 10
- >171% to 228%: 5
- >228% to 285%: 5
- >285% to 342%: 5
- >342% to 399%: 5
- >399% to 456%: 5

Insecticide (53 Responses)

- 0% to 41%: 35
- >41% to 82%: 15
- >82% to 123%: 5
- >123% to 164%: 5
- >164% to 205%: 5
- >205% to 246%: 5
- >246% to 287%: 5
- >287% to 328%: 5
- >328% to 369%: 5
- >369% to 410%: 5
- >410% to 451%: 5