

***“Analysis of Crop Insurance as a Risk Management Strategy for Georgia Peanut Producers Utilizing the Representative Peanut Farm Database.”; A.S. Luke-Morgan\*, S.M. Fletcher, Z. Shi, Abraham Baldwin Agricultural College.***

**Issue:** By nature, agricultural production is a risky venture facing uncertainty from multiple factors, many of which cannot be controlled. Economic stability is vital to Georgia’s peanut producers to ensure long-run viability. Catastrophic events in recent years provide harsh examples of the economic impact Georgia agriculture faces from uncertainty in production and marketing. Many producers utilize risk management tools to mitigate the economic impact of uncertainty. Crop insurance is one risk management tool often regarded as providing a safety net for producers. This study continued to investigate the effectiveness of crop insurance in providing a safety net for peanut producers in the state. This study expanded prior research to a whole farm scenario utilizing representative peanut farm data.

**Response:** In July 2021, the representative peanut farm database was updated through focus group meetings throughout the southeast, with 3-6 representatives for each representative farm location. One consistent revelation throughout these meetings is that crop insurance selection for a specific enterprise within a whole farm continues to be multi-faceted. Decisions are made on policy type for a range of coverage levels and pricing options. In addition, there is considerable variability within the individual group members, which often exacerbated determining a consensus value. As a result, the focus was shifted to the county level values with models considering the different policy options and levels to determine the impact.

**Methods:** Historical crop insurance data was analyzed for peanuts, cotton, corn, and soybeans to provide a foundation of trends over time in the number and types of policies sold and indemnified for each commodity. Similarities and differences between commodities, regions, insurance types, and resulting indemnities are being analyzed. Next, the expected and payment yields are considered for peanuts, cotton, and corn. Using the historical t-yields by county combined with representative farm data, the types and levels of crop insurance coverage and the resulting premium will be considered for each enterprise of a representative farm.

**Preliminary Findings:** The findings show great variability across crop insurance decisions for representative peanut farms. The 2021 update of the farms continued to show this variability. As we visited the different locations, most producers relayed that even within their farms, they either did not know exactly what type/level of coverage they had (many suggested we talk with their insurance agent or local FSA) or reported that it was a case-by-case decision. In addition, a mix of policy types and coverage levels were reported, both within and across farms. Similar trends remain evident in national data.

The average per acre cost across all commodities ranged from \$6.01 to \$61.50, which points to the variability in the perceived value of crop insurance as a safety net. When considering the county 10-year irrigated T-yields for each farm, the yields range from 70% to 120% of the expected yields for peanuts. The average coverable yield across all farms is 90%, meaning across the counties covered by the representative farms, on average the T-yield is ninety percent of what the representative farms expect to produce. This means that producers are managing crops based on the expected yields, but in case of insurable loss, the potential coverage is on a lower yield for 16 of the 20 farms. It is interesting to note that the t-yields have seen increases in recent years with increased county averages.

A review of the indemnities and COL continue to be highly variable between years, commodities, and regions. This analysis, coupled with discussions with RMA, has emphasized the importance of a knowledgeable crop insurance agent as farm management decisions are being made.

**Moving Forward:** As preparations are underway for the next Farm Bill, it is vital to obtain a clear understanding of the relevance of crop insurance for peanut producers. While crop insurance is considered the primary risk management tool for producers to recover from natural disasters and volatile market fluctuations, research indicates that the reliability of crop insurance as a safety net varies for many peanut producers when considering the total operating costs for the enterprise. The cause of the differences in the effectiveness of crop insurance as a risk management tool for different crops, regions, and crop insurance products continues to be investigated to allow decision-makers to be better prepared for the next round of Farm Bill negotiations as related to the effectiveness of crop insurance as a safety net for peanut producers.

**Table 1. US States Peanut Insured Acres and Shares by Types, 2018-2022**

<b>2018-2022 U.S. States Peanut Insured Acres and Shares By Types</b>									
<b>States</b>	<b>RP</b>			<b>YP</b>		<b>GRAND TOTAL</b>	<b>RP Share(%)</b>	<b>YP Share(%)</b>	<b>CAT Share(%)</b>
	<b>RP</b>	<b>RPHPE</b>	<b>RP-TOTAL</b>	<b>YP</b>	<b>CAT</b>				
<b>AL</b>	73,366	838	74,204	99,384	7,814	181,401	41%	55%	4%
<b>AR</b>	10,430	-	10,430	10,259	2,286	22,975	45%	45%	10%
<b>FL</b>	68,312	709	69,021	87,932	11,810	168,763	41%	52%	7%
<b>GA</b>	401,140	-	401,140	367,421	52,005	820,566	49%	45%	6%
<b>LA</b>	727	-	727	1,044	117	1,888	38%	55%	6%
<b>MO</b>	776	-	776	2,097	1,295	4,167	19%	50%	31%
<b>MS</b>	9,095	-	9,095	8,154	44	17,293	53%	47%	0%
<b>NC</b>	31,947	1,317	33,264	61,218	2,948	97,431	34%	63%	3%
<b>NM</b>	5,725	-	5,725	530	152	6,406	89%	8%	2%
<b>OK</b>	4,271	-	4,271	5,000	485	9,756	44%	51%	5%
<b>SC</b>	44,454	-	44,454	30,927	4,410	79,791	56%	39%	6%
<b>TX</b>	111,371	-	111,371	34,321	8,244	153,936	72%	22%	5%
<b>VA</b>	4,020	263	4,283	19,227	10	23,520	18%	82%	0%
<b>GRAND TOTAL</b>	<b>765,633</b>	<b>3,127</b>	<b>768,760</b>	<b>727,514</b>	<b>91,620</b>	<b>1,587,894</b>	<b>48%</b>	<b>46%</b>	<b>6%</b>
<b>SE(AL,FL,GA,MS)</b>	551,912	1,547	553,459	562,891	71,673	1,187,657	47%	47%	6%
<b>SW(AR,LA,MO,NM,OK,TX)</b>	132,525	-	132,525	51,154	11,283	194,962	68%	26%	6%
<b>VC(NC,SC,TN,VA)</b>	80,421	1,580	82,001	111,372	7,369	199,895	41%	56%	4%

Source: Risk Management Agency, USDA

**Table 2. Comparison of County T-Yield and Expected Yields for Representative Peanut Farms**

<b>FARM</b>	<b>10-Yr Irrigated T-YLD /Expected YLD</b>	<b>85% Coverage</b>	<b>% of Expected</b>	<b>65% Coverage</b>	<b>% of Expected</b>
<b>A</b>	89%	4,131	76%	3,159	58%
<b>B</b>	80%	3,230	68%	2,470	52%
<b>C</b>	81%	3,162	69%	2,418	53%
<b>D</b>	89%	3,196	76%	2,444	58%
<b>F</b>	88%	3,672	75%	2,808	57%
<b>G</b>	121%	3,332	103%	2,548	79%
<b>H</b>	97%	3,417	83%	2,613	63%
<b>I</b>	102%	3,383	87%	2,587	66%
<b>J</b>	97%	4,216	83%	3,224	63%
<b>K</b>	95%	3,621	80%	2,769	62%
<b>N</b>	74%	2,822	63%	2,158	48%
<b>O</b>	107%	3,553	91%	2,717	70%
<b>P</b>	70%	2,669	59%	2,041	45%
<b>Q</b>	79%	2,006	67%	1,534	51%
<b>R</b>	80%	3,043	68%	2,327	52%
<b>S</b>	83%	3,145	70%	2,405	54%
<b>T</b>	77%	2,839	65%	2,171	50%
<b>U</b>	95%	4,148	81%	3,172	62%
<b>V</b>	105%	3,298	89%	2,522	68%
<b>W</b>	82%	3,468	70%	2,652	54%
<b>Average across all</b>	<b>90%</b>		<b>76%</b>		<b>58%</b>

Source: USDA and Representative Peanut Farm Database