



## Factors Impacting Succession Planning

Margaret Lippsmeyer, Michael Langemeier, James Mintert, and Nathan Thompson

Center for Commercial Agriculture  
Purdue University

September 8, 2023

*farmdoc daily* (13): 163

---

Recommended citation format: Lippsmeyer, M., M. Langemeier, J. Mintert, and N. Thompson. “[Factors Impacting Succession Planning](#).” *farmdoc daily* (13): 163, Department of Agricultural and Consumer Economics, University of Illinois at Urbana-Champaign, September 8, 2023.

Permalink: <https://farmdocdaily.illinois.edu/2023/09/factors-impacting-succession-planning.html>

---

### Introduction

Succession plans ensure continuation of the farm business. Without succession plans, the next generation is left in limbo, unsure of how to split the farm, and may be forced to sell because an agreement can't be reached. Guilt often overcomes those who would like to continue farming, but are unable to follow in the footsteps of preceding generations. While an entitled mentality may drive other family members to make it difficult or impossible for the family farm business to continue operating. These disagreements can drive families apart, leaving all involved with soured opinions of relatives they have known their whole lives.

A solution to this is well within reach. If time is devoted to creating succession plans and review is done regularly, farms can continue doing what they do best without these looming uncertainties. This article explores key factors associated with farms which have developed written succession plans. Specifically, we examine the relationship between written succession plans and farm characteristics such as farm growth, farm demographics, management practices, and resilience to strategic risk. Results presented and discussed in this article were derived from a survey of 403 U.S. producers conducted in April 2023. An earlier article used survey results to discuss resilience to strategic risk (Lippsmeyer et al., 2023). With this article we hope to encourage farms to create or review their succession plans.

### Why Does Your Farm Need Succession Plans?

According to the 2017 USDA Census, slightly over half of U.S. farms (56%) are involved in any sort of succession planning (United States Department of Agriculture, 2019). Lack of planning may be due to a variety of factors including unwillingness to engage in difficult conversations, complications in personal lives, inability to identify a competent heir, insufficient resources to support more family members depending on the farm, or current operators not wanting to force family members back to the farm (Kaplan et al., 2009). Results from our survey show similar results with 55% of farms having written succession plans.

---

*We request all readers, electronic media and others follow our citation guidelines when re-posting articles from farmdoc daily. Guidelines are available [here](#). The farmdoc daily website falls under University of Illinois copyright and intellectual property rights. For a detailed statement, please see the University of Illinois Copyright Information and Policies [here](#).*

Succession planning, or the lack thereof, has major implications for the legacy of family farms across the U.S. and transfer of farming knowledge from one generation to the next. By creating succession plans, farms ensure stable transition to the next generation and allow the current operator to work alongside new operators. This improves the transfer of knowledge and management strategy, helping new farm operators make better informed decisions and avoid productivity declines (Hicks et al., 2012). Prior research also indicates that farm succession planning has positive effects on farm financial performance, including return on equity and operating profit margins (Harris, Mishra, and Williams, 2012), and is positively related to education, farm size, and household wealth (Mishra and El-Osta, 2007).

### Relationship between Succession Planning and Farm Characteristics

Tables 1-3 illustrate differences in farm characteristics between farms with and without written succession plans, while Table 4 presents correlation coefficients between succession planning and farm characteristics. Our discussion will focus on the results that have significant correlation coefficients. The results and conclusions of our analysis do not allow us to assign causality, but provide insight into farm characteristics that relate to the development of succession plans.

**Table 1. Farm Growth and Farm Demographics by Succession Planning Group**

<b>Farm Growth</b>	<b>Aggregate</b> n = 403	<b>Succession Plans</b> n = 222	<b>No Succession Plans</b> n = 181
Do you think opportunities to expand your farm will be greater than, fewer, or about the same in the next 5 years?			
Greater	26.3%	26.1%	28.7%
Fewer	29.8%	30.6%	26.5%
What is the planned annual growth rate you have for your farm over the next 5 years?			
Growth	54.6%	58.1%	50.3%
No Growth	34.0%	33.8%	34.3%
Reduce Size	11.4%	8.1%	15.5%
<b>Farm Demographics</b>	<b>Aggregate</b> n = 403	<b>Succession Plans</b> n = 222	<b>No Succession Plans</b> n = 181
How many total acres do you operate?			
< 1000 acres	31.3%	25.2%	38.7%
1000 to 2000 acres	25.1%	22.5%	28.2%
2000 to 5000 acres	29.0%	34.2%	22.7%
5000 to 10,000 acres	7.7%	10.8%	3.9%
> 10,000 acres	6.9%	7.2%	6.6%
What is your highest completed level of education?			
High School	41.2%	35.6%	48.1%
Undergraduate	32.8%	35.1%	29.8%
Graduate	24.6%	28.4%	19.9%
What is the average age of the primary farm owner/operator?			
< 35 Years Old	4.7%	3.2%	6.6%
35 - 65 Years Old	59.1%	59.5%	58.6%
65+ Years Old	36.2%	37.4%	34.8%

**farmdocDAILY**

**Table 2. Management Practices by Succession Planning Group**

<b>Management Practices</b>	<b>Aggregate</b> n = 403	<b>Succession Plans</b> n = 222	<b>No Succession Plans</b> n = 181
Does your farm have written succession plans in place?			
Yes	55.1%	100.0%	0.0%
No	44.9%	0.0%	100.0%
Are most of your farm's crop lease agreements written?			
Yes	60.5%	67.6%	51.9%
No	39.5%	32.4%	48.1%
Does your farm use advice from agronomic consultants when making decisions?			
Yes	57.3%	58.6%	55.8%
No	42.7%	41.4%	44.2%
Does your farm use financial ratios to make decisions?			
Yes	50.6%	69.8%	48.6%
No	49.4%	30.2%	51.4%
Does your farm document and evaluate crop pricing performance?			
Yes	60.3%	69.8%	48.6%
No	39.7%	30.2%	51.4%
Are standard operating procedures documented for repetitive and routine tasks?			
Yes	49.6%	57.2%	40.3%
No	50.4%	42.8%	59.7%
Managerial Ability			
Below Average (6-7)	13.4%	2.3%	27.1%
Average (8-10)	60.8%	56.3%	66.3%
Above Average (11-12)	25.8%	41.4%	6.6%

**farmdocDAILY**

**Table 3. Resilience to Strategic Risk by Succession Planning Group**

<b>Resilience to Strategic Risk</b>	<b>Aggregate</b> n = 403	<b>Succession Plans</b> n = 222	<b>No Succession Plans</b> n = 181
We have low per unit fixed costs relative to our most efficient competitors.			
Agree	72.0%	72.5%	71.3%
Disagree	28.0%	27.5%	28.7%
Our farm enterprise is more diversified today than it was 5 years ago.			
Agree	55.1%	55.9%	54.1%
Disagree	44.9%	44.1%	45.9%
We have a strong balance sheet.			
Agree	90.1%	92.8%	86.7%
Disagree	9.9%	7.2%	13.3%
Our farm has established goals, objectives, and core values.			
Agree	89.6%	90.5%	88.4%
Disagree	10.4%	9.5%	11.6%
Our farm looks for opportunities that new enterprises my provide.			
Agree	82.9%	84.7%	80.7%
Disagree	17.1%	15.3%	19.3%
We regularly assess our advantages and disadvantages compared to other farms.			
Agree	70.7%	70.3%	71.3%
Disagree	29.3%	29.7%	28.7%
Cumulative Resilience to Strategic Risk			
Low (6-15)	14.9%	12.2%	18.2%
High (16-24)	85.1%	87.8%	81.8%

**farmdocDAILY**

**Table 4. Correlation between Succession Planning and Survey Responses**

	Succession Planning
Opportunities to Expand	-0.015
Farm Growth	0.069
Farm Size	0.169***
Operator Age	0.050
Education	0.129**
Use of Written Lease Agreements	0.159**
Use of Agronomic Consultants	0.028
Use of Financial Ratios	0.196***
Use of Crop Pricing Alternatives	0.216***
Use of Standard Operating Procedures	0.168***
Managerial Ability	0.481***
Low Per Unit Fixed Costs	0.019
Farm Diversification	0.017
Balance Sheet Strength	0.142**
Established Goals, Objectives, & Core Values	0.089•
Exploration of New Enterprises	0.087•
Assess Advantages/Disadvantages	0.000
Cumulative Resilience to Strategic Risk	0.098*
Significance Levels: p < .001 '****' p < .01 '***' p < .05 '**' p < .1 '•'	

**farmdocDAILY**

As farmers age, we would expect more of them to put succession plans in place. Our sample of 403 farmers across the United States indicates that implementation of succession plans for farms is largely unrelated to operator age. However, succession planning was positively correlated with farm size and education. Using the results in Table 1, a relatively larger percentage of the farms with less than 1000 acres did not have written succession plans. Written succession plans were less common for those with a high school degree and more common for those with at least some graduate work.

The strongest correlations occurred between succession planning and various management practices. These include positive statistically significant correlations with the use of written lease agreements, the use of financial ratios when making decisions, the use of crop pricing alternatives, and the use of standard operating procedures for routine tasks. We created a metric for managerial ability using the six management practice questions. Succession planning was positively and significantly correlated with managerial ability. Results indicate that farms with succession plans in place generally implement other good management practices more than farming operations without succession plans. Moreover, farms with succession plans on average possess superior managerial abilities relative to farms which do not have succession plans in place. Our metric for managerial ability shows that 98% of farm managers with succession plans in place have at least “average” managerial abilities. In contrast, farms without succession plans in place have lower managerial abilities, with 27% of this group having a “below average” managerial ability score and only 7% with an “above average” managerial ability score.

Examining specific management practices, 68% of farms with written succession plans use written lease agreements compared to just 52% of farms without succession plans. Differences are also seen for the use of financial ratios for decision making and use of crop pricing alternatives. A larger percentage of farms with succession plans also use financial ratios to make decisions, and document and evaluate crop

pricing alternatives. The percentage of farms that used standard operating procedures was also relatively higher for the group that had written succession plans.

These differences in adoption of management practices, particularly decision-making pertaining to financial performance and crop pricing are concerning to say the least. To make matters worse for the group without written succession plans, succession planning is positively and significantly related to resilience to strategic risk. Specifically, there was a significant and positive correlation between the cumulative resiliency score, created using responses to the six strategic risk questions. Moreover, there were significant and positive correlations between succession planning and balance sheet strength; the establishment of goals, objectives, and core values; and farms looking for opportunities that new enterprises may provide.

## Conclusions and Implications

Farms with succession plans tend to use financial ratios and standard operating procedures, evaluate crop pricing performance, operate larger farms, are more resilient to strategic risk, and their operators are more highly educated. Overall, farms that employ better management practices tend to have greater implementation of succession plans. Sometimes farm managers think that their business management practices and succession planning are unrelated. Our survey results reveal that there is a strong correlation between farms that use recommended business management practices to operate their farms and having a written succession plan in place. Importantly, our results also suggest that well managed farms don't wait until retirement age approaches to develop a written succession plan.

## References

- Harris, J.M., A.K. Mishra, and R.P. Williams. 2012. "The Impact of Farm Succession Decisions on the Financial Performance of the Farm." Selected Paper Prepared for Presentation at the 2012 AAEA Meeting, Seattle, Washington, August 12-14, 2012.
- Hicks, J., R. Sappey, P. Basu, D. Keogh, and R. Gupta. 2012. "Succession Planning in Australian Farming." *Australasian Accounting Business and Finance Journal*. 6(4), 2012, 94-110.
- Kaplan, M., J.F. Nussbaum, C. Fowler, and M.J. Pitts. 2009. "Communication Barriers to Family Farm Succession Planning." *Journal of Extension*. 47(5), 1-9.
- Lippsmeyer, M., M. Langemeier, J. Mintert and N. Thompson. "[Resilience to Strategic Risk](#)." *farmdoc daily* (13):115, Department of Agricultural and Consumer Economics, University of Illinois at Urbana-Champaign, June 23, 2023.
- Mishra, A.K. and H.S. El-Osta. 2007. "Factors Affecting Succession Decisions in Family Farm Business: Evidence from a National Survey." *Journal of the American Society of Farm Managers and Rural Appraisers*. Pages 1-10.
- United States Department of Agriculture, National Agricultural Statistics Service. 2019. *2017 Census of Agriculture*. Retrieved on September 8, 2023 from [https://www.nass.usda.gov/Publications/AgCensus/2017/Full\\_Report/Volume\\_1,\\_Chapter\\_1\\_US/usv1.pdf](https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_US/usv1.pdf)