Risky (Small) Business:

1. Introduction

The contributions small businesses make to the American economy are arguably negligible at the individual level, but they have an undeniable aggregate impact. Firms that meet the U.S. Small Business Bureau's definition of a small business (meaning they do not exceed industry-specific employment and annual receipt thresholds) not only employ 48% of all American workers, but the goods and services they produce contribute 44% of the nation's GDP (U.S. Small Business Administration, Small Business Profile (2016) U.S. Small Business Administration (2019

managers (who possess similar control over business operations to SBOs, but do not have ownership in businesses).

The second category of literature in this field details how there are varying levels of risk-lovingness within small-business owners themselves. The literature on the subject does not use specific or uniform definitions for the different types of SBOs; the taxonomic levels vary greatly between papers (Smith and Miner (1983), Kunkel (2001)). While researchers occasionally evaluate business owners based on traits such as their experience, as in Armstrong and Hird (2009) who find that new business owners are more risk-loving than older business owners, many papers in the field use the widely cited Carland et al. (1984) definitions for entrepreneurs and small business owners to differentiate the types of SBOs. Wagener et al. (2008), Stewart et al. (1999), and Carland et al. (1995) all use this definition To do this, I collected data on nearly one hundred small businesses by asking them to complete a survey that evaluated their level of risk aversion and

In the first question, respondents were presented with two choices. They could (1) pick the certain option, which is to win ten dollars or (2) pick the uncertain option, which is to put their hand into a

The next portion of the survey asked respondents to answer personal, ownership, and firm specific questions. For privacy and uniformity purposes, most questions were multiple-choice. Multiple-choice answers were transformed from qualitative to quantitative data. For example, respondents were asked how they feel about taking risks in their personal lives by answering a multiple-choice question that had three options: they could identify as risk-averse, risk-neutral, or risk-loving. Respondents who selected that they were risk-averse were assigned a value of zero for this question, respondents who selected that they were risk neutral were assigned an one, and respondents who selected that they were risk-loving were assigned at two. This numeric categorization strategy was used for most multiple-choice questions.

For some multiple-choice questions, response categories were merged, forming new variables. For example, the categorical race variable was simplified into the binary variable *White* that clustered all the non-white, Hispanic/Latino respondents together so that they could be measured against white, not Hispanic/Latino SBOs.

For questions that required more specific and less personal details, respondents provided short numeric answers that were made uniform. For example, respondents who answered the question regarding how much ownership they had in their business with a percent had their response converted to a decimal.

2.2.3 Business Scenarios

2.2.3 Demographic Variables:

Some questions in the demographic portion of the survey collected information regarding personal, non-business-related information about the respondent. *Gender* is a binary variable that takes the value of one if the respondent is a female and a value of zero if they are a male. Men and women were nearly equally represented in the survey with women making up 52% of the pool.

Age is a categorical variable that takes an integer value of zero to six. Respondents under the age of fifteen were assigned a zero, respondents between the ages of sixteen and nineteen were assigned a one, respondents between the ages of twenty and twenty-four were assigned a two, respondents between the ages of twenty-five and thirty-four were assigned a three, respondents between the ages of thirty-five and forty-four were assigned a four, respondents between the ages of forty-five and fifty-four were assigned a five, respondents between the ages were assigned a five, respondents between the ages of twenty-five and fifty-four were assigned a five, respondents between the ages were assigned a five, respondents between the ages were assigned a five, respondents between the ages were assigned a five.

previously owned by a member of their family and a value of zero if it had not. Only 10.5% of surveyed businesses are historically family-owned, but 27.1% of surveyed businesses were previously owned. *PreOwnedBus* is a binary variable that takes a value of one if the number of years the respondent has owned their business for is equal to the number of years their business has been in operation for, and takes a value of zero if the two are not equal.

Figure 4: Summary Statistics

The initial regression equation was as follows:

 $logGammaRisk = b_0 + b_1Age + b_2Gender + b_3IncSource + b_4White + b_5EducationYears + b_6 \\ HighSchoolDegree + b_7OwnedBusinessAge + b_8OperationBusinessAge + b_9PreOwnedFamily + b_{10}Married + b_{11}$

 $b_9 Operation Business Age + b_{10} PreOwned Family + b_{11} PreOwned Bus + b_{12} Risk Personal + b_{13} Risk Business$

Regression results are displayed in figure six, column three. Again, the variable Uncertain is

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	1.064	1.054	174
EducationYears	(.891)	(.847)	(1.154)
	065		145
OwnedBusinessAge	(.294)	-	(.358)
	.032		.149
OperationBusinessAge	(.104)	-	(.128)
	-5.641	-4.577	667
PreOwnedFamily	(7.223)	(5.900)	(8.854)
	-2.720	-3.164	-7.728
PreOwnedBusiness	(4.136)	(3.584)	(5.488)
	-5.667	-8.185*	.154
RiskPersonal_1	(8.000)	(4.286)	(10.030)
	-15.629*	-12.716*	
RiskPersonal_2	(7.894)	(4.657)	

better.

Ultimately, it must be noted that there are several points of weaknesses within my research that were out of my control. Respect and regard for privacy limited the types of questions I could ask. The small sample size puts the impact of the findings in question. Mathematical constraints in the construction of the risk aversion and

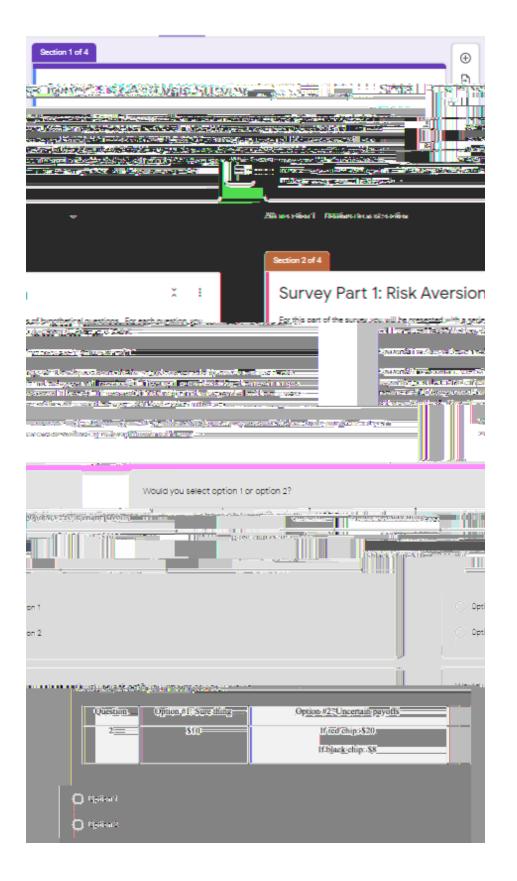
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Section 4 of 4
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